# COUNTY OF EL DORADO, CALIFORNIA DEPARTMENT OF TRANSPORTATION

# **CONTRACT DOCUMENTS**

## INCLUDING NOTICE TO BIDDERS, SPECIAL PROVISIONS, PROPOSAL, AND CONTRACT FOR

## WENTWORTH SPRINGS ROAD AT GERLE CREEK – BRIDGE REPLACEMENT PROJECT

2.4 miles SW of Wentworth Springs, El Dorado County, California

# CONTRACT NO. PW 11-30573 / CIP NO. 77118

Federal Aid Project BRLO 5925 (053)

FOR USE WITH STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND STANDARD PLANS MAY 2006

# BID OPENING DATE: APRIL 9, 2012 at 2:00 p.m.

# COUNTY OF EL DORADO, CALIFORNIA DEPARTMENT OF TRANSPORTATION

# WENTWORTH SPRINGS ROAD AT GERLE CREEK – BRIDGE REPLACEMENT PROJECT

# CONTRACT NO. PW 11-30573 / CIP NO. 77118

The various portions of the Contract Documents have been prepared under the direction of the following licensed Civil Engineer(s), in accordance with California Business and Professions Code § 6735.

Registered Civil Engineer



## DEPARTMENT OF TRANSPORTATION COUNTY OF EL DORADO, STATE OF CALIFORNIA

## WENTWORTH SPRINGS ROAD AT GERLE CREEK -BRIDGE REPLACEMENT PROJECT

#### Contract No. PW 11-30573 / CIP No. 77118

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## DEPARTMENT OF TRANSPORTATION COUNTY OF EL DORADO, CALIFORNIA

## **NOTICE TO BIDDERS**

**NOTICE IS HEREBY GIVEN** by the County of El Dorado, State of California, that sealed bids for work in accordance with the Project Plans (Plans) and Contract Documents designated:

## WENTWORTH SPRINGS ROAD AT GERLE CREEK -

## **BRIDGE REPLACEMENT PROJECT**

## CONTRACT No. PW 11-30573, CIP No. 77118

will be received by the Clerk to the Board of Supervisors, at the Board of Supervisors Office, 330 Fair Lane, Placerville, California, until **April 9, 2012 at 2:00 P.M.,** at which time bids will be publicly opened and read by the El Dorado County Department of Transportation.

No Bid may be withdrawn after the time established for receiving bids or before the award and execution of the Contract, unless the award is delayed for a period exceeding sixty (60) calendar days. Bids shall be executed in accordance with the instructions given and forms provided in the bound Contract Documents furnished by the El Dorado County Department of Transportation. The Proposal shall not be detached and shall be submitted with the Contract Documents bid package in its entirety. All bids must be clearly marked on the envelope:

## "PROPOSAL FOR WENTWORTH SPRINGS ROAD AT GERLE CREEK-

## BRIDGE REPLACEMENT PROJECT'' CONTRACT NO. PW 11-30573, CIP NO. 77118 TO BE OPENED AT 2:00 P.M. – MONDAY, APRIL 9, 2012

**LOCATION/DESCRIPTION OF THE WORK:** The project is located on Wentworth Springs Road in El Dorado County. The Work to be done is shown on the Plans, and generally consists of, but is not limited to:

- A. Construction of a new steel truss bridge over Gerle Creek, including bridge approaches; and revegetation work. Other items or details not mentioned above, that are required by the plans, Standard Plans, Standard Specifications, or these Special Provisions shall be performed, constructed or installed.
- B. Bids are required for the entire Work described herein.
- C. The contract time shall be EIGHTY (80) WORKING DAYS.
- D. For bonding purposes the anticipated project cost is less than \$800,000.
- F. A pre-bid meeting is scheduled for this project on **March 28, 2012 at 1:30 P.M.** at the El Dorado County Department of Transportation, 2441 Headington Road, Placerville, CA. The meeting will be held in the downstairs conference room. Attendance at the pre-bid meeting is not mandatory.

**OBTAINING OR INSPECTING CONTRACT DOCUMENTS:** The Contract Documents and Plans may be examined at the El Dorado County Department of Transportation or may be purchased in person or by mail from the Department of Transportation, 2850 Fairlane Court, Placerville, California, 95667. The purchase price of each set of Contract Documents and Plans (half size plans are included in each set) is FORTY DOLLARS (\$40.00) and is not refundable. To receive Contract Documents and Plans by Federal Express, send request and payment prior to shipping and include an additional TWENTY-FIVE DOLLARS (\$25.00), for a total of SIXTY-FIVE DOLLARS (\$65.00), to include shipping and handling. Only Contract Documents purchased from the Department of Transportation will be acceptable for bid submittal.

Supplemental project information including the Foundation Investigation, Foundation Investigation Addendum, Drainage Report, and Photos of the Project Site are available to Contract Document holders as .pdf files on the DOT's website: http://www.edcgov.us/Government/DOT/Bids.aspx.

**CONTRACTORS LICENSE CLASSIFICATION:** Bidders shall be properly licensed to perform the Work pursuant to the Contractors' State License Law (Business and Professions Code Section 7000 et seq.) and shall possess a **CLASS A** license or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans at the time the Contract is awarded, and shall maintain a valid license through completion and acceptance of the Work, including the guarantee and acceptance period. Failure of the successful Bidder to obtain proper adequate licensing for an award of the Contract shall constitute a failure to execute the Contract and shall result in the forfeiture of the Bidder's security.

**BUSINESS LICENSE:** The County Business License Ordinance provides that it is unlawful for any person to furnish supplies or services, or transact any kind of business in the unincorporated territory of El Dorado County without possessing a County business license unless exempt under County Ordinance Code Section 5.08.070. The Bidder to whom an award is made shall comply with all of the requirements of the County Business License Ordinance, where applicable, prior to beginning work under this Contract and at all times during the term of this Contract.

**REQUIRED LISTING OF PROPOSED SUBCONTRACTORS:** Each Proposal shall have listed therein the name, contractor's license number and address of each subcontractor to whom the bidder proposes to subcontract portions of the work in an amount in excess of 0.5% of the total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontractor Listing Fair Practices Act, commencing with Section 4100 of the Public Contract Code. The Bidder shall also describe in the Subcontractor Listing the work to be performed by each subcontractor listed. The work to be performed by the subcontractor shall be shown by listing the bid item number, bid item description, and portion of the work to be performed by the subcontractor in the form of a percentage calculated by dividing the work to be performed by the subcontractor by the respective bid item amount(s) (not by the total bid price). The percentage of each bid item subcontracted may be submitted with the Bidder's bid or sent via email or fax to Janel Gifford, El Dorado County Department of Transportation, email-Janel.Gifford@edcgov.us, Fax-(530) 626-0387 by 4:00 p.m. on the first business day after the bid opening. The email or fax shall contain the name of each subcontractor submitted with the Bidder's bid along with the bid item number, the bid item description, and the percentage of each bid item subcontracted, as described above. At the time the contract is awarded, all listed subcontractors shall be properly licensed to perform their designated portion of the work. The bidder's attention is directed to other provisions of the Act related to the imposition of penalties for failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

**BUY AMERICA:** This project is subject to the "Buy America" provisions of the Surface Transportation Assistance Act of 1982, as amended by the Intermodal Surface Transportation Efficiency Act of 1991.

**DISADVANTAGED BUSINESS ENTERPRISE (DBE) PARTICIPATION:** Bidders are advised that, as required by federal law, the County of El Dorado has implemented Disadvantaged Business Enterprise requirements for Underutilized Disadvantaged Business Enterprises (UDBE). Section 2, "Proposal Requirements and Conditions," under subsection titled "Disadvantaged Business Enterprises (DBE)" and Section 5, "General," under subsection titled "Performance of Subcontractors" of these special provisions cover the UDBE requirements.

Bidder will take all necessary affirmative steps to assure that minority firms, women's business enterprises and labor surplus area firms are used when possible.

The Underutilized Disadvantaged Business Enterprise (UDBE) contract goal is 6.08%.

Bidder's attention is directed to the UDBE Good Faith Effort Submittal Information Handout at http://www.edcgov.us/Government/DOT/DBE.aspx

**NONDISCRIMINATION:** Attention is directed to the following Notice that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

## NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM

#### (GOVERNMENT CODE SECTION 12990)

Attention is further directed to the "Nondiscrimination Clause", set forth in Section 7-1.01A(4), "Labor Nondiscrimination," of the Standard Specifications, which is applicable to all nonexempt State contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The specifications are applicable to

County of El Dorado, DOT Notice to Bidders Page N-2 11-0005.2B.8 all nonexempt State construction contracts and subcontracts of \$5,000 or more.

Attention is also directed to the Special Provisions and to the draft Agreement contained in these Contract Documents for additional nondiscrimination and fair employment practices provisions that will apply to this federal-aid contract.

The Department of Transportation hereby notifies all Bidders that it will affirmatively ensure that in any Contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, national origin, religion, age, or disability in consideration for the award.

## PREVAILING WAGE REQUIREMENTS:

In accordance with the provisions of California Labor Code Sections 1770 et seq., including but not limited to Sections 1773, 1773.1, 1773.2, 1773.6, and 1773.7, the general prevailing rate of wages in the county in which the Work is to be done has been determined by the Director of the California Department of Industrial Relations. These wage rates appear in the California Department of Transportation publication entitled General Prevailing Wage Rates.

Interested parties can obtain the current wage information by submitting their requests to the Department of Industrial Relations, Division of Labor Statistics and Research, PO Box 420603, San Francisco CA 94142-0603, Telephone (415) 703-4708 or by referring to the website at http://www.dir.ca.gov/dlsr/PWD. The rates at the time of the bid advertisement date of a project will remain in effect for the life of the project in accordance with the California Code of Regulations, as modified and effective January 27, 1997.

Copies of the general prevailing rate of wages in the county in which the Work is to be done are also on file at the Department of Transportation's principal office, and are available upon request, and in case of projects involving federal funds, federal wage requirements as predetermined by the United States Secretary of Labor have been included in the Contract Documents. Addenda to modify the Federal minimum wage rates, if necessary, will be issued as described in the Project Administration section of this Notice to Bidders.

In accordance with the provisions of Labor Code 1810, eight (8) hours of labor shall constitute a legal day's work upon all work done hereunder, and Contractor and any subcontractor employed under this Contract shall conform to and be bound by the provisions of Labor Code Sections 1810 through 1815.

In the case of federally funded projects, where federal and state prevailing wage requirements apply, compliance with both is required. This project is funded in whole or part by federal funds. Contractor's attention is directed to Section 14 of the Special Provisions and the requirements of, and compliance with the Copeland Act (18 U.S.C. 874 and 29 CFR Part 3), the Davis-Bacon Act (40 U.S.C. 276a to 276a-7 and 29 CFR Part 5), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330 and 29 CFR Part 5).

If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, Contractor and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by Contractor and subcontractors, Contractor and subcontractors shall pay not less than the federal minimum wage rate which most closely approximates the duties of the employees in question.

The U.S. Department of Transportation (USDOT) provides a toll-free "hotline" service to report bid rigging activities. Bid rigging activities can be reported Mondays through Fridays, between 8:00 a.m. and 5:00 p.m., eastern time, at (800) 424-9071. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report these activities. The "hotline" is part of the US DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

**BID SECURITY:** A bid security shall be provided with each bid. Bid security shall be in an amount of not less than ten percent (10%) of the total amount of the Bid for bid and shall be cash, a certified check or cashier's check drawn to the order of the County of El Dorado or a Bidder's Bond executed by a surety satisfactory to the County of El Dorado on the form provided in the Proposal section of these Contract Documents (do not detach the form).

**BID PROTEST PROCEDURE:** The protest procedure is intended to handle and resolve disputes related to the bid award for this project pursuant to Title 49 Code of Federal Regulations Part 18 Section 18.36 (b) (12)(i)-(ii) and County of El Dorado policies and procedures. A protestor must exhaust all administrative remedies with the County of El Dorado before pursuing a protest with a Federal Agency. Reviews of protests by the Federal agency will be limited to:

(i.) Violations of Federal law or regulations and the standards of 49 CFR Part 18 Section 18.36 (b) (12) (i)-(ii). Violations of State of California or local law will be under the jurisdiction of the State of California or the County of El Dorado; and

(ii.) Violation of the County of El Dorado's protest procedures for failure to review a complaint or protest. Protests received by the Federal agency other than those specified above will be referred to the County of El Dorado.

The protest procedure is an extension of the formal bid process and allows those who wish to protest the recommendation of an award after bid the opportunity to be heard.

**Policy:** Upon completion of the bid evaluation, the Department of Transportation shall notify all bidders of the recommendation of award, the basis therefore, and the date and time on which the recommendation for award will be considered and acted upon by the Board of Supervisors. All bidders may attend the Board of Supervisors meeting at the time the agenda item is considered, address the Board of Supervisors, and be heard.

**Procedure:** If a bidder wishes to protest the award, the procedure shall be as follows:

1. The Department of Transportation will review the bids received in a timely fashion under the terms and conditions of the Notice to Bidders, and notify the bidders in writing, at the address designated in the bid, of its recommendation including for award or rejection of bids ("All Bidders Letter").

2. Within five (5) working days from the date of the "All Bidders Letter," the bidder protesting the recommendation for award shall submit a letter of protest to and shall be received by the County of El Dorado, Department of Transportation, Attention Janel Gifford, 2850 Fairlane Court, Placerville, CA 95667, and state in detail the basis and reasons for the protest. The bidder must provide facts to support the protest, including any evidence it wishes to be considered, together with the law, rule, regulation, or criteria on which the protest is based.

3. If the Department of Transportation finds the protest to be valid, it may modify its award recommendations and notify all bidders of that decision. If the Department of Transportation does not agree with the protest, or otherwise fails to resolve the protest, the Department of Transportation will notify the bid protestor and all interested parties of its decision and the date and time that the recommendation for award will be agendized for the Board of Supervisors' consideration and action. The Department of Transportation shall also include in its report to the Board of Supervisors the details of the bid protest.

4. The bidder may attend the Board of Supervisors meeting at which the recommendation and bid protest will be considered. The Board of Supervisors will take comment from the bidder, staff, and members of the public who wish to speak on the item. In the event that the bidder is not in attendance at that time, the bid protest may be dismissed by the Board of Supervisors without further consideration of the merits; and

In its discretion, the County of El Dorado may accept or reject any bids. The decision of the Board of Supervisors shall be final in accepting or rejecting the bid protest, awarding the bid, or rejecting any or all bids.

**AWARD OF CONTRACT:** Bids will be considered for award by the Board of Supervisors. The County of El Dorado reserves the right after opening bids to reject any or all bids, to waive any irregularity in a bid, or to make award to the lowest responsive, responsible Bidder and reject all other bids, as it may best serve the interests of the County.

As a condition of award, the successful Bidder will be required to submit bonds and evidence of insurance prior to execution of the Agreement by the County. Failure to meet this requirement shall constitute abandonment of the Bid by the Bidder and forfeiture of the Bidder's security. Award will then be made to the next lowest, responsible Bidder.

**RETAINAGE FROM PAYMENTS:** The Contractor may elect to receive one hundred percent (100%) of payments due under the Contract from time to time, without retention of any portion of the payment by the County, by depositing securities of equivalent value with the County in accordance with the provisions of Section 22300 of the Public Contract Code. Securities eligible for deposit hereunder shall be limited to those listed in Section 16430 of the Government Code, or bank or savings and loan certificates of deposit.

**PROJECT ADMINISTRATION:** All communications relative to the Contract Documents and Plans shall be directed to Janel Gifford in the El Dorado County Department of Transportation, 2850 Fairlane Court, Placerville, CA 95667, telephone: (530) 621-5974; email: Janel.Gifford@edcgov.us. No oral responses to any questions concerning the content of the Plans and Contract Documents will be given. All responses will be in the form of written addenda to the Contract Documents and Plans or written responses to bidders' inquiries. Responses to bidders' inquiries and addenda will be posted on the Department of Transportation website at http://www.edcgov.us/Government/DOT/bids.aspx. It is the bidders' responsibility to check this website for responses and addenda during the bid period.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications, or estimate must be communicated as a bidder inquiry prior to bid opening. Any such inquiries or questions, submitted after bid opening will not be treated as a bid protest.

BY ORDER OF the Director of the Department of Transportation, County of El Dorado, State of California.

Authorized by the Board of Supervisors on March 13, 2012, at Placerville, California.

By \_

Kimberly A. Kerr, Interim Director Department of Transportation County of El Dorado

## **Standard Plans List**

The Standard Plan sheets applicable to this contract include, but are not limited to those indicated below. Applicable Revised Standard Plans (RSP) and New Standard Plans (NSP) indicated below are available at the following Caltrans website: http://www.dot.ca.gov/hq/esc/oe/project\_plans/HTM/06\_plans\_disclaim\_US.htm

## **GENERAL ROAD WORK (Miscellaneous)**

## **GENERAL ROAD WORK (Temporary Facilities)**

T56	<b>Temporary Water Pollution C</b>	Control Details (Temporary	V Fiber Roll)

T59 Temporary Water Pollution Control Details (Temporary Concrete Washout Facility)

## BRIDGE

- B0-1 Bridge Details
- B0-3 Bridge Details
- B0-5 Bridge Details
- B0-13 Bridge Details

#### DEPARTMENT OF TRANSPORTATION COUNTY OF EL DORADO, CALIFORNIA

#### SPECIAL PROVISIONS ANNEXED TO CONTRACT No. PW 11-30572 / CIP No. 77118

## SECTION 1. SPECIFICATIONS AND PLANS

#### 1-1.01 GENERAL

The work embraced herein shall be done in accordance with the Standard Specifications dated May 2006 and the Standard Plans dated May 2006, of the Department of Transportation (Caltrans) insofar as the same may apply, County of El Dorado Design and Improvement Standards Manual, revised March 8, 1994 including Resolutions 199-91 and 58-94 to adopt changes to the Design and Improvement Standards Manual, El Dorado Irrigation District Technical Specifications and these special provisions.

Attention is directed to Appendix A of these special provisions containing Amendments to May 2006 Standard Specifications as issued by the State of California Department of Transportation. These Amendments are hereby incorporated into the contract documents to replace or supplement those sections of the Standard Specifications where an Amendment exists, and are to be treated the same as the Standard Specifications in relation to other Contract Documents.

Amendments to the Standard Specifications set forth in these special provisions shall be considered as part of the Standard Specifications for the purposes set forth in Section 5-1.04, "Coordination and Interpretation of Plans, Standard Specifications and Special Provisions," of the Standard Specifications. Whenever either the term "Standard Specifications is amended" or the term "Standard Specifications are amended" is used in the special provisions, the indented text or table following the term shall be considered an amendment to the Standard Specifications. In case of conflict between such amendments and the Standard Specifications, the amendments shall take precedence over and be used in lieu of the conflicting portions.

In case of conflict between the Standard Specifications, the Amendments to Standard Specifications, and these special provisions, the special provisions shall take precedence over and be used in lieu of the conflicting portions.

#### 1-1.02 DEFINITIONS AND TERMS

As used in the contract documents, unless the contract otherwise requires, the following terms have the following meaning:

<u>APPROVAL OF THE CONTRACT</u> – Execution of the contract by the County of EL Dorado Board of Supervisors.

CALTRANS - The State of California Department of Transportation.

<u>CONTRACTOR</u> - Contractor responsible for constructing the Wentworth Springs Road at Gerle Creek Bridge Replacement Project.

<u>COUNTY</u> – The County of El Dorado, a political subdivision of the State of California

<u>DOT / DEPARTMENT / DEPARTMENT OF TRANSPORTATION / RECIPIENT</u> - The Department of Transportation as created by the Board of Supervisors for the County of El Dorado.

<u>US DOT</u> – The United States of America Department of Transportation.

<u>DEPUTY DIRECTOR</u> - The Deputy Director of Engineering, Engineering Division or Deputy Director of Engineering, Transportation Planning and Land Development Division, or Deputy Director of Engineering, Construction Division in the Department of Transportation for the County of El Dorado.

<u>DIRECTOR OF TRANSPORTATION</u> - The Director or Interim Director of Transportation in the Department of Transportation for the County of El Dorado.

<u>ENGINEER / STATE HIGHWAY ENGINEER</u> - The Director of Transportation in the Department of Transportation for the County of El Dorado, or his/her authorized representative (Resident Engineer).

FHWA – Federal Highway Administration.

<u>LABORATORY</u> - The established laboratory of the El Dorado County Department of Transportation or laboratories authorized by the Engineer to test materials and work involved in the contract.

<u>MUTCD</u> –California Manual on Uniform Traffic Control Devices, (FHWA's MUTCD 2003 Edition including Revision 1 and 2, as amended for use in California, also called the California MUTCD 2010.

<u>PLANS</u> -The improvement plans titled "**WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT**" approved by El Dorado County Department of Transportation and the Standard Plans.

<u>STANDARD PLANS</u> - The May 2006 edition of the Standard Plans of the State of California, Department of Transportation (Caltrans).

<u>STANDARD SPECIFICATIONS</u> - The May 2006 edition of the Standard Specifications for the State of California, Department of Transportation (Caltrans).

<u>STATE</u> - County of El Dorado.

All other definitions and terms are in accordance with the Standard Specifications.

#### SECTION 2. PROPOSAL REQUIREMENTS AND CONDITIONS

#### 2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Proposal Requirements and Conditions," of the Standard Specifications and these special provisions for the requirements and conditions which it must observe in the preparation of the proposal form and the submission of the bid.

The project site is subject to limited accessibility, and generally covered in snow and non-accessible during the months of November through May, depending on seasonal precipitation. It is anticipated that the project site will be under snow and non-accessible for inspection by potential bidders. Therefore, the Department will provide photos of the site and site access as part of the Information Handout for the benefit of bidders.

The first sentence of the first paragraph in Section 2-1.03, "Examination of Plans, Specifications, Contract, and Site of Work," of the Standard Specifications is amended to read:

"The bidder shall examine carefully the Information Handout site photos, the plans and specifications, and the proposal and contract forms therefor."

The first sentence of the second paragraph in Section 2-1.03, "Examination of Plans, Specifications, Contract, and Site of Work," of the Standard Specifications is amended to read:

"The submission of a bid shall also the conclusive evidence the bidder is satisfied as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as the information was reasonably attainable from the records of the exploratory work done by the Department as shown in the bid documents, as well as from the plans and specifications made part of the contract."

The first sentence of the second paragraph in Section 2-1.05, "Proposal Forms," of the Standard Specifications is amended to read:

# "The Proposal form is bound together with the Notice to Bidders, Special Provisions, Agreement and attendant documents."

A Proposal shall be deemed "Non-Responsive" if the proposal is submitted without the entire Contract Document package attached.

In addition to whom the bidder proposes to directly subcontract portions of the Work as required in accordance with Section 2-1.054, "Required Listing of Proposed Subcontractors," of the Standard Specifications, the list of subcontractors shall also set forth the percentage of work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the Proposal.

The first sentence of the last paragraph in Section 2-1.07, "Proposal Guaranty," of the Standard Specifications is amended to read:

The bidder's bond <u>shall conform to the bond form included in this proposal</u> for the project "WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT", and shall be properly filled out and executed."

## (DO NOT DETACH THE FORM).

#### The proposal shall be attached to and submitted with the contract documents bid package in its entirety.

The form of the bidder's bond mentioned in the last paragraph in Section 2-1.07, "Proposal Guaranty", of the Standard Specifications will be found in the Proposal. The Bidder shall furnish one Bidder's Bond in an amount equal to at least ten percent (10%) of the total amount bid.

In accordance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the proposal. Signing the proposal shall also constitute signature of the Noncollusion Affidavit.

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of Title 49 CFR (Code of Federal Regulations) part 26 in the award and administration of US DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as County deems appropriate. Each subcontract signed by the Contractor must include this assurance.

Failure of the bidder to fulfill the requirements of the special provisions for submittals required to be furnished after bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contracts.

#### 2-1.02 INCLUSION OF FEDERAL FORM 1273 CONTRACT PROVISIONS

In accordance with Section 12.9 of Chapter 12 of the Caltrans Local Assistance Procedures Manual (LAPM), and Section 14 "FEDERAL REQUIREMENTS FOR FEDERAL-AID CONSTRUCTION PROJECTS" of these Contract Documents, the provisions of FHWA Form 1273 are required to be <u>physically</u> incorporated into each contract, subcontract and subsequent lower-tier subcontracts. The provisions may not be incorporated by reference.

The prime Contractor is responsible for compliance with the requirements by all subcontractors and lower tier subcontractors. Failure of the prime Contractor to comply with this requirement is grounds for County termination of the contract with the Contractor and debarment of the Contractor by FHWA.

#### 2-1.03 FEDERAL LOBBYING RESTRICTIONS

Section 1352, Title 31, United States Code prohibits Federal funds from being expended by the recipient or any lower tier sub-recipient of a Federal-aid contract to pay for any person for influencing or attempting to influence a Federal

County of El Dorado, DOT Special Provisions Page SP-3 agency or Congress in connection with the awarding of any Federal-aid contract, the making of any Federal grant or loan, or the entering into of any cooperative agreement.

If any funds other than Federal funds have been paid for the same purposes in connection with this Federal-aid contract, the recipient shall submit an executed certification and, if required, submit a completed disclosure form as part of the bid documents.

A certification for Federal-aid contracts regarding payment of funds to lobby Congress or a Federal agency is included in the Proposal. Standard Form - LLL, "Disclosure of Lobbying Activities," with instructions for completion of the Standard Form is also included in the Proposal. Signing the Proposal shall constitute signature of the Certification.

The above-referenced certification and disclosure of lobbying activities shall be included in each subcontract and any lower-tier contracts exceeding \$100,000. All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the Engineer.

The Contractor, subcontractors and any lower-tier contractors shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by the Contractor, subcontractors and any lower-tier contractors. An event that materially affects the accuracy of the information reported includes:

- A. A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
- B. A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or,
- C. A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

#### 2-1.04 DISADVANTAGED BUSINESS ENTERPRISE (DBE)

This project is subject to Title 49 CFR 26.13(b):

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

Take necessary and reasonable steps to ensure that DBEs have opportunity to participate in the contract (49 CFR 26).

To ensure there is equal participation of the DBE groups specified in 49 CFR 26.5, the County specifies a goal for Underutilized Disadvantaged Business Enterprises (UDBEs). UDBE is a firm that meets the definition of DBE and is a member of one of the following groups:

- 1. Black Americans
- 2. Native Americans
- 3. Asian-Pacific Americans
- 4. Women

References to DBEs include UDBEs, but references to UDBEs do not include all DBEs.

Make work available to UDBEs and select work parts consistent with available UDBE subcontractors and suppliers.

Meet the UDBE goal shown in the Notice to Bidders or demonstrate that you made adequate good faith efforts to meet this goal.

It is your responsibility to verify that the UDBE firm is certified as DBE at date of bid opening. For a list of DBEs certified by the California Unified Certification Program, go to:

http://www.dot.ca.gov/hq/bep/find\_certified.htm

Only UDBE participation will count towards the UDBE goal. DBE participation will count towards the County's Overall DBE Goal and the California federally-mandated statewide overall DBE goal.

Credit for materials or supplies you purchase from UDBEs counts towards the goal in the following manner:

- 1. 100 percent counts if the materials or supplies are obtained from a UDBE manufacturer.
- 2. 60 percent counts if the materials or supplies are obtained from a UDBE regular dealer.
- Only fees, commissions, and charges for assistance in the procurement and delivery of materials or supplies count if obtained from a UDBE that is neither a manufacturer or regular dealer. 49 CFR 26.55 defines "manufacturer" and "regular dealer."

You receive credit towards the goal if you employ a UDBE trucking company that performs a commercially useful function as defined in 49 CFR 26.55 (d) (1) through (4) and (6).

The Contractor shall also carry out applicable requirements of 49 CFR Part 18 in the award and administration of this USDOT-assisted Contract. The applicable requirements of 49 CFR Part 18 are as follows:

- (a) Contracting with small and minority firms, women's business enterprise and labor surplus area firms.
  - (1) Contractor will take all necessary affirmative steps to assure that minority firms, women's business enterprises, and labor surplus area firms are used when possible.
  - (2) Affirmative steps shall include:
    - (i) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
    - (ii) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
    - (iii) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority business, and women's business enterprises;
    - (iv) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority business, and women's business enterprises;
    - (v) Using the services and assistance of the Small Business Administration, and the Minority Business Development Agency of the Department of Commerce; and
    - (vi) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (a)(2) (i) through (v) of this section.

Bidder will take all necessary affirmative steps to assure that minority firms, women's business enterprises and labor surplus area firms are used when possible.

#### **UDBE** Commitment Submittal

Submit UDBE information on the "Local Agency Bidder-UDBE Commitment (Construction Contracts)," Exhibit 15-G(1), form included in the Proposal. If the form is not submitted with the bid, make a copy of the form from the Proposal before submitting your bid.

If the UDBE Commitment form is not submitted with the bid, the apparent low bidder, the 2nd low bidder, and the 3rd low bidder must complete and submit the UDBE Commitment form via email or fax to Janel Gifford, El Dorado County Department of Transportation, email-<u>Janel.Gifford@edcgov.us</u>, Fax-(530) 626-0387 by 4:00 pm on the 4<sup>th</sup> business day after bid opening.

Other bidders do not need to submit the UDBE Commitment form unless the County requests it. If the County requests you to submit a UDBE Commitment form, submit the completed form within 4 business days of the request via email or fax to Janel Gifford, El Dorado County Department of Transportation, email-Janel.Gifford@edcgov.us, Fax-(530) 626-0387.

Submit written confirmation from each UDBE stating that it is participating in the contract. Include confirmation with the UDBE Commitment form. A copy of a UDBE's quote will serve as written confirmation that the UDBE is participating in the contract.

If you do not submit the UDBE Commitment form with the UDBE quotes within the specified time, the County finds your bid nonresponsive.

## Good Faith Efforts Submittal

If you have not met the UDBE goal, complete and submit the "UDBE Information - Good Faith Efforts," Exhibit 15-H, form with the bid showing that you made adequate good faith efforts to meet the goal. Only good faith efforts directed towards obtaining participation by UDBEs will be considered. If good faith efforts documentation is not submitted with the bid, make a copy of Exhibit 15-H before submitting your bid. If good faith efforts documentation is not submitted with the bid, it must be received via email or fax to Janel Gifford, El Dorado County Department of Transportation, email-Janel.Gifford@edcgov.us, Fax-(530) 626-0387 by 4:00 pm on the 4<sup>th</sup> business day after bid opening.

If your UDBE Commitment form shows that you have met the UDBE goal or if you are required to submit the UDBE Commitment form, in order to protect your eligibility for award of the contract in the event the County finds that the UDBE goal has not been met, you must also submit good faith efforts documentation within the specified time.

Good faith efforts documentation must include the following information and supporting documents, as necessary:

- 1. Items of work you have made available to UDBE firms. Identify those items of work you might otherwise perform with your own forces and those items that have been broken down into economically feasible units to facilitate UDBE participation. For each item listed, show the dollar value and percentage of the total contract. It is your responsibility to demonstrate that sufficient work to meet the goal was made available to UDBE firms.
- 2. Names of certified UDBEs and dates on which they were solicited to bid on the project. Include the items of work offered. Describe the methods used for following up initial solicitations to determine with certainty if the UDBEs were interested, and the dates of the follow-up. Attach supporting documents such as copies of letters, memos, facsimiles sent, telephone logs, telephone billing statements, and other evidence of solicitation. You are reminded to solicit certified UDBEs through all reasonable and available means and provide sufficient time to allow UDBEs to respond.
- 3. Name of selected firm and its status as a UDBE for each item of work made available. Include name, address, and telephone number of each UDBE that provided a quote and their price quote. If the firm selected for the item is not a UDBE, provide the reasons for the selection.
- 4. Name and date of each publication in which you requested UDBE participation for the project. Attach copies of the published advertisements.
- 5. Names of agencies and dates on which they were contacted to provide assistance in contacting, recruiting, and using UDBE firms. If the agencies were contacted in writing, provide copies of supporting documents.
- 6. List of efforts made to provide interested UDBEs with adequate information about the plans, specifications, and requirements of the contract to assist them in responding to a solicitation. If you have provided information, identify the name of the UDBE assisted, the nature of the information provided, and date of contact. Provide copies of supporting documents, as appropriate.
- 7. List of efforts made to assist interested UDBEs in obtaining bonding, lines of credit, insurance, necessary equipment, supplies, and materials, excluding supplies and equipment that the UDBE subcontractor purchases or leases from the prime contractor or its affiliate. If such assistance is provided by you, identify the name of the

UDBE assisted, nature of the assistance offered, and date. Provide copies of supporting documents, as appropriate.

8. Any additional data to support demonstration of good faith efforts.

The Department may consider UDBE Commitments of the  $2^{nd}$  and  $3^{rd}$  bidders when determining whether the low bidder made good faith efforts to meet the UDBE goal.

In accordance with 49 CFR 26.53(d) if the County determines that the apparent successful bidder failed to meet the Good Faith Effort requirements, the County will provide the apparent successful low bidder an opportunity for administrative reconsideration before awarding the contract. The County will provide the apparent successful low bidder an opportunity to submit written documentation or argument and meet in person with the reconsideration official concerning the issue of whether it met the goal or made adequate good faith efforts to do so. The reconsideration official is someone who did not participate in the original determination that the goal or good faith effort was not met.

#### 2-1.05 REQUIRED LISTING OF PROPOSED SUBCONTRACTORS

Section 2-1.054, "Required Listing of Proposed Subcontractors," of the Standard Specifications is amended to read:

2-1.054 Required Listing of Proposed Subcontractors; Each Proposal shall have listed therein the name, contractor's license number and address of each subcontractor to whom the bidder proposes to subcontract portions of the work in an amount in excess of 0.5 % of the total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with Section 4100 of the Public Contract Code. The Bidder shall also describe in the Subcontractor Listing the work to be performed by each subcontractor listed. The work to be performed by the subcontractor shall be shown by listing the bid item number, bid item description, and portion of the work to be performed by the subcontractor in the form of a percentage calculated by dividing the work to be performed by the subcontractor by the respective bid item amount(s) (not by the total bid price). The percentage of each bid item subcontracted may be submitted with the Bidder's bid or sent via email or fax to Janel Gifford, El Dorado County Department of Transportation, email-Janel.Gifford@edcgov.us, Fax-(530) 626-0387 by 4:00 p.m. on the first business day after the bid opening. The email or fax shall contain the name of each subcontractor submitted with the Bidder's bid along with the bid item number, bid item description, and the percentage of each bid item subcontracted, as described above. At the time the contract is awarded, all listed subcontractors shall be properly licensed to perform their designated portion of the work. The bidder's attention is directed to other provisions of the Act related to the imposition of penalties for failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

Forms for listing the subcontractors who will work on this Project are included in the Proposal section of these Contract Documents.

#### 2-1.06 COMPLIANCE WITH FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS

County is relying on federal assistance or grants as well as on state funds for all or a portion of the funding for the Work to be provided under this Contract. As a requirement of County's use of federal and state funds, County is required to comply with certain federal and state contracting requirements and to extend those requirements to its third party contracts. Contractor shall comply and shall require its subcontractors to comply with all applicable provisions of federal and state regulations, including those required by Caltrans and Federal Highway Administration (FHWA) grant funding requirements, regulations, and related executive orders regarding the use, expenditure, control, reporting, allowable costs and management of such funds as well as these requirements detailed in 49 CFR Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments. Contractor shall comply and shall require its subcontractors to comply with the Fair Employment Practices Addendum attached as Exhibit B to the Draft Agreement and the Nondiscrimination Assurances attached as Exhibit C to the Draft Agreement of these Contract Documents. Contractor shall further comply with all applicable provisions of the Caltrans Local Assistance Procedures Manual and the Local Assistance Program Guidelines, all Title 23 Federal requirements and all applicable state and federal laws, regulations and policy; procedural or instructional memoranda. Failure of Contractor to comply with any

federal or state provision may be the basis for withholding payments to Contractor and for such other remedies as may be appropriate including termination of this Contract. Contractor shall also comply with any flow-down or third-party contracting provisions which may be required under the federal and state regulations and which may apply to Contractor's subcontracts, if any, associated with this Contract. Contractor shall ensure that all subcontractors submit certifications regarding federal lobbying activities as required by Section 1352, Title 31, United State Code and that all such certifications are made a part of any subcontracts entered into as a result of this Contract.

## 2-1.07 COST PRINCIPLES

The Federal Acquisition Regulations in Title 48, CFR, Part 31 et seq. as applicable, are the governing factors regarding allowable elements of cost for the Work to be performed under this Contract.

- A. Contractor and its subcontractors shall comply with 2 CFR Part 225 (formerly OMBA-87), Cost Principles for State, Local And Indian Tribal Governments; with Federal administrative procedures pursuant to 49 CFR, Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments; and with Contract Cost Principles, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Parts 31 et seq., insofar as those regulations may apply to Contractor and its subcontractors. This provision shall apply to every sub-recipient receiving funds as a Contractor or subcontractor under this Contract.
- B. Any expenditures for costs for which Contractor has received payment or credit that are determined by subsequent audit to be unallowable under 2 CFR Part 225, 48 CFR, Parts 31 et seq. or 49 CFR, Part 18 are subject to repayment by Contractor to County.
- C. Travel and per diem reimbursements, if applicable, and third-party contract reimbursements to subcontractors will be allowable as project costs only after those costs are incurred and paid for by Contractor.
- D. Notwithstanding any other provision of the Contract Documents to the contrary, payments to Contractor for mileage, travel or subsistence expenses, if applicable, for Contractor's staff or subcontractors claimed for reimbursement shall not exceed the lesser of (1) the rates to be paid to County employees under the current Board of Supervisors Travel Policy in effect at the time the expenses are incurred; or (2) the rates authorized to be paid to rank and file State employees under current State Department of Personnel Administration (DPA) rules. If the rates claimed are in excess of those authorized DPA rates, then Contractor is responsible for the cost difference, and any overpayments inadvertently paid by County shall be reimbursed to County by Contractor on demand within thirty (30) days of such demand.
- E. Contractor and its subcontractors shall establish and maintain accounting systems and records that properly accumulate and segregate funds received under this Agreement by line item. The accounting systems of Contractor and all subcontractors shall conform to Generally Accepted Accounting Principles (GAAP), shall enable the determination of incurred costs at interim points of completion, and shall provide support for reimbursement of payment vouchers or invoices.

#### 2-1.08 BID PROTEST PROCEDURE

The protest procedure is intended to handle and resolve disputes related to the bid award for this project pursuant to Title 49 Code of Federal Regulations Part 18 Section 18.36 (b) (12)(i)-(ii) and County of El Dorado policies and procedures. A protestor must exhaust all administrative remedies with the County of El Dorado before pursuing a protest with a Federal Agency. Reviews of protests by the Federal agency will be limited to:

(i.) Violations of Federal law or regulations and the standards of 49 CFR Part 18 Section 18.36 (b) (12)(i)-(ii). Violations of State of California or local law will be under the jurisdiction of the State of California or the County of El Dorado; and

(ii.) Violation of the County of El Dorado's protest procedures for failure to review a complaint or protest. Protests received by the Federal agency other than those specified above will be referred to the County of El Dorado.

County of El Dorado, DOT Special Provisions Page SP-8 The protest procedure is an extension of the formal bid process and allows those who wish to protest the recommendation of an award after bid the opportunity to be heard.

**Policy:** Upon completion of the bid evaluation, the Department of Transportation shall notify all bidders of the recommendation of award, the basis therefore, and the date and time on which the recommendation for award will be considered and acted upon by the Board of Supervisors. All bidders may attend the Board of Supervisors meeting at the time the agenda item is considered, address the Board of Supervisors, and be heard.

**Procedure:** If a bidder wishes to protest the award, the procedure shall be as follows:

1. The Department of Transportation will review the bids received in a timely fashion under the terms and conditions of the Notice to Bidders, and notify the bidders in writing, at the address designated in the bid, of its recommendation including for award or rejection of bids ("All Bidders Letter").

2. Within five (5) working days from the date of the "All Bidders Letter," the bidder protesting the recommendation for award shall submit a letter of protest to and shall be received by the County of El Dorado, Department of Transportation, Attention Janel Gifford, 2850 Fairlane Court, Placerville, CA 95667, and state in detail the basis and reasons for the protest. The bidder must provide facts to support the protest, including any evidence it wishes to be considered, together with the law, rule, regulation, or criteria on which the protest is based.

3. If the Department of Transportation finds the protest to be valid, it may modify its award recommendations and notify all bidders of that decision. If the Department of Transportation does not agree with the protest, or otherwise fails to resolve the protest, the Department of Transportation will notify the bid protestor and all interested parties of its decision and the date and time that the recommendation for award will be agendized for the Board of Supervisors' consideration and action. The Department of Transportation shall also include in its report to the Board of Supervisors the details of the bid protest.

4. The bidder may attend the Board of Supervisors meeting at which the recommendation and bid protest will be considered. The Board of Supervisors will take comment from the bidder, staff, and members of the public who wish to speak on the item. In the event that the bidder is not in attendance at that time, the bid protest may be dismissed by the Board of Supervisors without further consideration of the merits; and

In its discretion, the County of El Dorado may accept or reject any bids. The decision of the Board of Supervisors shall be final in accepting or rejecting the bid protest, awarding the bid, or rejecting any or all bids.

## SECTION 3. AWARD AND EXECUTION OF CONTRACT

#### 3-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 3, "Award and Execution of Contract," of the Standard Specifications and these special provisions for the requirements and conditions concerning award and execution of contract.

## 3-1.02 AWARD OF CONTRACT

Section 3-1.01, "Award of Contract," of the Standard Specifications is amended to read:

**3-1.01** Award of Contract; Bids will be considered for award by the Board of Supervisors. The County of El Dorado reserves the right after opening bids to reject any or all bids, to waive any irregularity in a bid, or to make award to the lowest responsive, responsible Bidder and reject all other bids, as it may best serve the interests of the County. The award of the Contract, if it be awarded, will be to the lowest, responsive, responsible bidder whose Proposal complies with all the requirements prescribed. Such award, if made, will be made within sixty (60) days after the opening of the Proposals. This period will be subject to extension for such further period as may be agreed upon in writing between the Department and the bidder concerned.

All bids will be compared on the basis of the Proposal Pay Items and Bid Price Schedule of the quantities of work to be done.

The lowest, responsive, responsible bidder shall be the bidder submitting the lowest additive total of all the bid items and meeting all other requirements. In the event of a discrepancy between the unit price bid and the extended unit total as stated on the Proposal, the amount bid for the unit price shall control and shall be utilized in calculating the additive total of the bid items for purposes of award, including revisions by Addenda, and as specified in the Proposal instructions.

A "LOCAL AGENCY BIDDER - DBE INFORMATION (Construction Contracts) Exhibit 15 -G(2)" form will be included in the contract documents to be executed by the successful bidder. The purpose of the form is to collect data required under 49 CFR 26. Even if no DBE participation will be reported, the successful bidder must execute and return the form. Information required on this form is in addition to the Local Agency Bidder – UDBE Commitment (Construction Contracts) Exhibit 15-G (1) form included in the Proposal section. The successful bidder's "LOCAL AGENCY BIDDER - DBE INFORMATION" (Construction Contracts) Exhibit 15 -G(2)" form should include the names, addresses and phone numbers of DBE firms that will participate, with a complete description of work or supplies to be performed or furnished by a DBE, a description of the exact portion of that work to be performed or furnished by that DBE information, including the planned location of that work. A successful bidder certified as a DBE shall describe the work it has committed to performing with its own forces as well as any other work that it has committed to be performed by DBE subcontractors, suppliers and trucking companies.

The successful bidder shall provide written confirmation from each DBE that the DBE is participating in the contract. A copy of a DBE's quote will serve as written confirmation that the DBE is participating in the contract. If a DBE is participating as a joint venture partner, the successful bidder shall submit a copy of the joint venture agreement.

The "LOCAL AGENCY BIDDER - DBE INFORMATION (Construction Contracts) Exhibit 15 -G(2)" form shall be completed and returned to the County by the successful bidder with the executed contract, contract bonds and other required contract documents.

#### 3-1.03 EXECUTION OF CONTRACT

Attention is directed to the "Notice to Bidders" and "Proposal" for this Contract. Barring some unforeseen irregularity, Notice of Award will be sent to the lowest responsive responsible bidder after approval by the El Dorado County Board of Supervisors.

The successful bidder shall return the signed Contract, the Contract bonds, the completed "LOCAL AGENCY – DBE INFORMATION (Construction Contracts) Exhibit 15 – G(2)" form, a California Form 590-Withholding Exemption Certificate, a County Payee Data Record form in lieu of Federal Form W-9-Request for Taxpayer Identification Number and Certification, and certificates of insurance to the Office of the Department of Transportation within ten (10) days, not including Saturdays, Sundays and legal holidays, of the date of the Notice of Award of Contract letter. Priority delivery or mail of these documents should be to attention Janel Gifford at the El Dorado County Department of Transportation, 2850 Fairlane Court, Placerville CA 95667, Janel.Gifford@edcgov.us.

The failure of the successful bidder to furnish any bond required of it by law or by this Agreement, or the failure to execute the Contract, or the failure to provide the required insurance documents within the time fixed for the execution of the Contract and return of the bonds and insurance constitutes a failure to execute and return the Contract as required herein. Upon such failure or refusal to return the executed Agreement, or to provide the bonds or insurance documents required herein, the bidder's security shall be forfeited to the County.

#### SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION AND LIQUIDATED DAMAGES

#### 4-1.01 GENERAL

Attention is directed to the provisions in Section 8-1.06, "Time of Completion," and in Section 8-1.07, "Liquidated Damages," of the Standard Specifications and these special provisions.

County of El Dorado, DOT Special Provisions Page SP-10 Section 8-1.03, "Beginning of Work" of the Standard Specifications shall not apply and shall be replaced with the following:

The contract working days shall begin on the date stated in the Notice to Proceed issued by the Department of Transportation.

The work shall be diligently prosecuted to completion before the expiration of **EIGHTY** (80) **WORKING DAYS.** 

The Contractor shall pay to the County of El Dorado the sum of **ONE THOUSAND DOLLARS** (\$1,000) per day, for each and every calendar day's delay in finishing the work in excess of **EIGHTY** (80) WORKING DAYS.

Attention is directed to Section 10-1.01, "Order of Work," of these special provisions.

#### 4-1.02 CONSTRUCTION SCHEDULE

Normal working hours shall be from 7:00 a.m. to 7:00 p.m. Monday through Friday. Working hours between 8:00 a.m. to 7:00 p.m. on Saturdays and Sundays will be allowed upon approval of the Engineer. Work will be prohibited the day before legal holidays after 7:00 p.m., and on legal holidays (all hours). At the discretion of the Engineer, seasonal adjustments in the hours of the normal working day may be made.

It is brought to the Contractor's attention that the project site is subject to a limited construction working season, and is generally covered in snow and non-accessible during the months of November thru May, depending on seasonal precipitation. Attention is directed to "Supplemental Project Information" of the Special Provisions.

The contract time will be extended one (1) working day for each working day (Monday through Friday, excluding legal holidays) that the Contractor's operations are suspended due to weather condition. No time extensions will be allowed for weekends or holidays where the Contractor's operations are suspended due to weather condition, unless the Contractor's operations on the working day before and after the weekend or holiday are suspended due to weather condition. The Engineer has sole authority for determining time extensions pursuant to this section.

#### 4-1.03 PRE-CONSTRUCTION CONFERENCE AND WEEKLY MEETINGS

A pre-construction conference will be scheduled by the Engineer between the Engineer and the Contractor or its representative after the project is awarded and prior to the issuance of the Notice to Proceed. The conference will be held at the Construction Office, 2441 Headington Road, Placerville to discuss the work each DBE subcontractor will perform and important aspects of the project and all essential matters pertaining to the prosecution and the satisfactory completion of the project as required, and the Contractor shall bring all required schedules and documents to the meeting.

Before work can begin on a subcontract, the Department will require the Contractor to submit a completed "Subcontracting Request", Exhibit 16-B of the Caltrans Local Assistance Procedures Manual (LAPM) or equivalent. When the Engineer receives the completed form it will be checked for agreement of the first tier subcontractors and DBE's. The Engineer will not approve the request when it identifies someone other than the DBE or first tier subcontractor listed in the previously completed "LOCAL AGENCY BIDDER – DBE INFORMATION (Construction Contracts) Exhibit 15-G(2)" form. The "Subcontracting Request" will not be approved until any discrepancies are resolved. If an issue cannot be resolved at that time, or there is some other concern, the Engineer will require the Contractor to eliminate the subcontractor in question before signing the subcontracting request. A change in the DBE or first tier subcontractor may be addressed during a substitution process at a later date.

Suppliers, vendors, or manufacturers listed on the "LOCAL AGENCY BIDDER – DBE INFORMATION (Construction Contracts) Exhibit 15-G(2)" form will be compared to those listed in the completed Exhibit 16-I "Notice of Materials to be Used", of the LAPM or equivalent. Differences must be resolved by either making corrections or requesting a substitution.

Substitutions will be subject to the Subletting and Subcontracting Fair Practices Act (FPA). The Department will require contractors to adhere to the provisions within Subletting and Subcontracting Fair Practices Act (State Law) Sections 4100-4114. FPA requires the Contractor to list all subcontractors in excess of one half of one percent (0.5%) of

the Contractor's total bid or \$10,000, whichever is greater. The statute is designed to prevent bid shopping by contractors. The FPA explains that a contractor may not substitute a subcontractor listed in the original bid except with the approval if the awarding authority.

The Engineer will give the Contractor a blank Exhibit 17-F, "Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First –Tier Subcontractors," from the Caltrans LAPM. This form must be completed and returned to the County with the Acceptance Statement which accompanies the Proposed Final Pay Estimate.

#### 4-1.04 PROSECUTION AND PROGRESS

Attention is directed to the provisions of Section 8 of the Standard Specifications.

The Contractor shall notify the Engineer within five (5) working days of any occurrence, which in the Contractor's opinion, entitles it to an extension of time for completion. Such notice shall be in writing. The Engineer shall acknowledge, in writing, receipt of any such claim by the Contractor within five (5) working days of its receipt.

## SECTION 5. GENERAL SECTION 5-1. MISCELLANEOUS

#### 5-1.01 CONTRACT BONDS

Attention is directed to Section 3-1.02, "Contract Bonds," of the Standard Specifications and these special provisions.

The performance bond shall be in a sum not less than one hundred percent (100%) of the total amount payable by the terms of the contract.

The payment bond shall be in a sum not less than one hundred percent (100%) of the total amount payable by the terms of the contract.

#### 5-1.02 GUARANTEE

#### GENERAL

The Contractor shall guarantee the work is in accordance with contract requirements and remains free from substantial defects in materials and workmanship for a period of one year after contract acceptance. For certain portions of the work where the Director relieves the Contractor of responsibility in accordance with Section 7-1.15, "Relief from Maintenance and Responsibility," of the Standard Specifications, the guarantee period starts on the relief date and ends one year therefrom.

Substantial defects in materials and workmanship means defective work objectively manifested by damaged, displaced, or missing parts or components and workmanship resulting in improper function of materials, components, equipment, or systems, as installed or manufactured by the Contractor, subcontractor, supplier, or manufacturer.

During the guarantee period, the Contractor shall repair or replace contract work and associated work which is not in accordance with contract requirements or has substantial defects in materials and workmanship. The Contractor shall perform the corrective work with no expense to the Department other than State-provided field inspection services.

The guarantee of work excludes damage or displacement that is outside the control of the Contractor and caused by normal wear and tear, improper operation, insufficient maintenance, abuse, unauthorized modification, or natural disaster as described in Section 7-1.165, "Damage by Storm, Flood, Tsunami or Earthquake," of the Standard Specifications.

The Contractor shall have the same insurance coverage during corrective work operations as prior to contract acceptance, in accordance Section 7, "Contractor's Insurance" of these special provisions.

The contract bonds furnished in accordance with Section 3-1.02, "Contract Bonds," of the Standard Specifications must remain in full force and effect during the guarantee period and until all corrective work is complete.

In the case of conflict between this guarantee provision and any warranty provision included in the contract, the warranty provision shall govern for the specific construction product or feature covered.

#### **CORRECTIVE WORK**

During the guarantee period, the Department will monitor performance of the highway facilities completed by the Contractor and will perform a thorough review of the contract work at least 60 days before the expiration of the one-year guarantee.

If the Engineer discovers contract work not in compliance with contract requirements or that has substantial defects in materials and workmanship, at any time during the guarantee period, a list of items that require corrective work will be developed and forwarded to the Contractor. Within 15 days of receipt of a list, the Contractor shall submit to the Engineer a detailed plan for performing corrective work. The work plan shall include a start to finish schedule. It shall include a list of labor, equipment, materials, and any special services intended to be used. It shall clearly show related work including traffic control, temporary delineation, and permanent delineation.

The Contractor shall start the corrective and related work within 15 days of receiving notice from the Engineer that the Contractor's work plan is approved. The corrective work shall be diligently prosecuted and completed within the time allotted in the approved work plan.

If the Engineer determines that corrective work, covered by the guarantee, is urgently needed to prevent injury or property damage, the Engineer will give the Contractor a request to start emergency repair work and a list of items that require repair work. The Contractor shall mobilize within 24 hours and diligently perform emergency repair work on the damaged highway facilities. The Contractor shall submit a work plan within 5 days of starting emergency repair work.

If the Contractor fails to commence and execute, with due diligence, corrective work and related work required under the guarantee in the time allotted, the Engineer may proceed to have the work performed by State forces or other forces at the Contractor's expense. Upon demand, the Contractor shall pay all costs incurred by the Department for work performed by State forces or other forces including labor, equipment, material, and special services.

#### PAYMENT

Full compensation for performing corrective work; and related work such as traffic control, temporary delineation, and permanent delineation, and to maintain insurance coverage and bonds, shall be considered as included in the contract prices paid for the various items of work and no separate payment will be made therefor.

#### 5-1.03 COST REDUCTION INCENTIVE

Attention is directed to Section 5-1.14, "Cost Reduction Incentive," of the Standard Specifications.

Prior to preparing a written cost reduction proposal, the Contractor shall request a meeting with the Engineer to discuss the proposal in concept. Items of discussion will also include permit issues, impact on other projects, impact on the project schedule, peer reviews, overall merit of the proposal, and review times required by the Department and other agencies.

If a cost reduction proposal submitted by the Contractor, and subsequently approved by the Engineer, provides for a reduction in contract time, fifty percent (50%) of that contract time reduction shall be credited to the County by reducing the contract working days, not including plant establishment. Attention is directed to "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions regarding the working days.

If a cost reduction proposal submitted by the Contractor, and subsequently approved by the Engineer, provides for a reduction in traffic congestion or avoids traffic congestion during construction, sixty percent (60%) of the estimated net savings in construction costs attributable to the cost reduction proposal will be paid to the Contractor. In addition to the requirements in Section 5-1.14, "Cost Reduction Incentive," of the Standard Specifications, the Contractor shall provide

detailed comparisons of the traffic handling between the existing contract and the proposed change, and estimates of the traffic volumes and congestion.

#### 5-1.04 LABOR NONDISCRIMINATION

Attention is directed to the following Notice that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

#### NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM

#### (GOVERNMENT CODE SECTION 12990)

Attention is further directed to the "Nondiscrimination Clause", set forth in Section 7-1.01A(4), "Labor Nondiscrimination," of the Standard Specifications, which is applicable to all nonexempt State contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The specifications are applicable to all nonexempt State construction contracts and subcontracts of \$5,000 or more.

Attention is also directed to the draft Agreement contained in these Contract Documents for additional nondiscrimination and fair employment practices provisions that will apply to this federal-aid contract.

## 5-1.05 PREVAILING WAGE REQUIREMENTS

In accordance with the provisions of California Labor Code Sections 1770 et seq., including but not limited to Sections 1773, 1773.1, 1773.2, 1773.6, and 1773.7, the general prevailing rate of wages in the county in which the Work is to be done has been determined by the Director of the California Department of Industrial Relations. These wage rates appear in the California Department of Transportation publication entitled General Prevailing Wage Rates. Interested parties can obtain the current wage information by submitting their requests to the Department of Industrial Relations, Division of Labor Statistics and Research, PO Box 420603, San Francisco CA 94142-0603, Telephone (415) 703-4708 or by referring to the website at http://www.dir.ca.gov/dlsr/PWD. The rates at the time of the bid advertisement date of a project will remain in effect for the life of the project in accordance with the California Code of Regulations, as modified and effective January 27, 1997.

Copies of the general prevailing rate of wages in the county in which the Work is to be done are also on file at the Department of Transportation's principal office, and are available upon request, and in case of projects involving federal funds, federal wage requirements as predetermined by the United States Secretary of Labor have been included in the Contract Documents. Addenda to modify the Federal minimum wage rates, if necessary, will be issued as described in the Project Administration section of this Notice to Bidders.

In accordance with the provisions of Labor Code 1810, eight (8) hours of labor shall constitute a legal day's work upon all work done hereunder, and Contractor and any subcontractor employed under this Contract shall conform to and be bound by the provisions of Labor Code Sections 1810 through 1815.

In the case of federally funded projects, where federal and state prevailing wage requirements apply, compliance with both is required. This project is funded in whole or part by federal funds. Contractor's attention is directed to Section 14 of the Special Provisions and the requirements of, and compliance with the Copeland Act (18 U.S.C. 874 and 29 CFR Part 3), the Davis-Bacon Act (40 U.S.C. 276a to 276a-7 and 29 CFR Part 5), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330 and 29 CFR Part 5).

If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, Contractor and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by Contractor and subcontractors, Contractor and subcontractors shall pay not less than the federal minimum wage rate which most closely approximates the duties of the employees in question.

#### 5-1.06 APPRENTICES

Attention is directed to Sections 1777.5, 1777.6 and 1777.7 of the California Labor Code and Title 8, California Code of Regulations Section 200 et seq. To ensure compliance and complete understanding of the law regarding apprentices, and specifically the required ratio thereunder, each Contractor or subcontractor should, where some question exists, contact the Division of Apprenticeship Standards, 455 Golden Gate Avenue, San Francisco, CA 94102, or one of its branch offices prior to commencement of work on the public works contract. Responsibility for compliance with this section lies with the Contractor.

It is County policy to encourage the employment and training of apprentices on public works contracts as may be permitted under local apprenticeship standards.

#### 5-1.07 CERTIFIED PAYROLL

As required under the provisions of Labor Code Section 1776, the Contractor and any subcontractors shall keep accurate payroll records as follows:

1. The payroll records shall show the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by the Contractor or subcontractors in connection with this project.

2. A certified copy of all payroll records enumerated above shall be available for inspection at all reasonable hours at the principal office of the Contractor as follows:

- a. Make available or furnish to the employee or his or her authorized representative on request.
- b. Make available for inspection or furnished upon request to a representative of the County, the State of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the State Department of Industrial Relations.
- c. Make available upon request by the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the County, the State Division of Labor Standards Enforcement, or the State Division of Apprenticeship Standards. The requesting party shall, prior to being provided the records, reimburse the costs of preparation by the Contractor, subcontractor, and the entity through which the request was made. The public shall not be given access to the records at the principal office of the Contractor.

#### 5-1.08 DISPUTES RESOLUTION

As permitted by Public Contract Code section 20104, the County has elected to resolve any claims between the Contractor and the County pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2 of the Public Contract Code. Attention is directed to Section 9, "Measurement and Payment" of the Standard Specifications for the contract claim procedure. The provisions of that Section constitute a non-judicial claim settlement procedure, and also step one of a two-step claim presentment procedure by agreement under Section 930.2 of the California Government Code. Specifically, step one is compliance with the contract claim procedure in accordance with the Contract Documents, including, but not limited to, Section 9.10 et seq. claim in accordance with the California Government Code. Any such claim shall affirmatively indicate Contractor's prior compliance with the contract claim procedure herein and previous dispositions under Section 9, "Measurement and Payment" of the Standard Specifications. Any claim that fails to conform to the contract claim procedure required in step one may not be asserted in any subsequent Government Code Section 910 et seq. claim.

As a condition precedent to arbitration or litigation, claims must first be mediated. Mediation shall be non-binding and utilize the services of a mediator mutually acceptable to the parties and, if the parties cannot agree, a mediator selected by the American Arbitration Association from its panel of approved mediators trained in construction industry mediation. All statutes of limitations shall be tolled from the date of the demand for mediation until a date two weeks following the mediation's conclusion. The cost of mediation shall be equally shared by the parties.

County of El Dorado, DOT Special Provisions Page SP-15 If Contractor fails to comply with these claim procedures as to any claim, then Contractor waives its rights to such claim. County shall not be deemed to waive or alter any provision of this section or Section 9, "Measurement and Payment" of the Standard Specifications if, at County's sole discretion, County administers a claim in a manner not in accord with those provisions.

These provisions shall survive termination, breach, or completion of the Contract Documents.

#### 5-1.09 RECORDS

The Contractor shall maintain cost accounting records for the contract pertaining to, and in such a manner as to provide a clear distinction between the following six categories of costs of work during the life of the contract:

- A. Direct costs of contract item work.
- B. Direct costs of changes in character in conformance with Section 4-1.03C, "Changes in Character of Work," of the Standard Specifications.
- C. Direct costs of extra work in conformance with Section 4-1.03D, "Extra Work," of the Standard Specifications.
- D. Direct costs of work not required by the contract and performed for others.
- E. Direct costs of work performed under a notice of potential claim in conformance with the provisions in Section 9-1.04, "Notice of Potential Claim," of the Standard Specifications.
- F. Indirect costs of overhead.

Cost accounting records shall include the information specified for daily extra work reports in Section 9-1.03C, "Records," of the Standard Specifications. The requirements for furnishing the Engineer completed daily extra work reports shall only apply to work paid for on a force account basis.

The cost accounting records for the contract shall be maintained separately from other contracts, during the life of the contract, and for a period of not less than three (3) years after the date of acceptance of the Work. If the Contractor intends to file claims against the Department, the Contractor shall keep the cost accounting records specified above until complete resolution of all claims has been reached.

#### 5-1.10 RECORDS EXAMINATION, AUDIT & RETENTION REQUIREMENTS

Contractor shall maintain and make available to the FHWA, the US DOT, the Comptroller General of the United States, the State of California, the California State Auditor, and County or to any of their duly authorized representatives all books, papers, job cost records, detailed cost estimates, claims, and accounts, including payment, property, payroll, personnel, subcontractor records, and financial records related to or which arise out of the Work or under terms of this Contract. Contractor shall maintain such books, records, data and documents in accordance with generally accepted accounting principles and in accordance with these special provisions and federal and state requirements. These books, papers, records, claims, and accounts shall be made available for examination during normal business hours and shall be readily available and accessible at Contractor's principal place of business in California, for audit during normal business hours at such place of business. Contractor shall provide office space, photocopies and other assistance to enable audit or inspection representatives to conduct such audits or inspections. This right to audit books and records directly related to this Contract shall also extend to any first-tier subcontractors employed under this Contract. Contractor shall incorporate this provision in any subcontract entered into as a result of this Contract and shall require its subcontractors to agree to cooperate with the above-listed agencies by making all appropriate and relevant Project records available to those agencies for audit and copying.

All of Contractor's books, papers, job cost records, detailed cost estimates, claims, and accounts, including payment, property, payroll, personnel, subcontractor records, and financial records related to or which arise out of the work or under terms of this Contract shall be retained for access, inspection and/or audit by the FHWA, the US DOT, the Comptroller General of the United States, the State of California, the California State Auditor, County or their duly authorized representatives for at least three (3) years after County's final payment to Contractor and/or the final resolution of any claims under this Contract. Contractor shall incorporate this provision in any subcontract entered into as a result of this Contract.

#### 5-1.11 PAYMENTS

Attention is directed to Sections 9-1.06, "Partial Payments," and 9-1.07, "Payment After Acceptance," of the Standard Specifications and these special provisions.

For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments," of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work for progress payment purposes:

А.	Construction Site Management	\$30,000.00
В.	Water Pollution Control Program	\$4,000.00
C.	Prepare Fugitive Dust Plan	\$1,500.00
D.	Clearing and Grubbing	\$25,000.00

After acceptance of the contract pursuant to the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for the item, will be included for payment in the first estimate made after acceptance of the contract.

In determining the partial payments to be made to the Contractor, only the following listed materials will be considered for inclusion in the payment as materials furnished but not incorporated in the work:

- A. Bar Reinforcing Steel
- B. Bar Reinforcing Steel (Epoxy Coated)

## 5-1.12 PAYMENT OF WITHHELD FUNDS

The Department will retain 5% of the value of each progress payment (excluding mobilization payments) from each progress payment. In conformance with 49 CFR 26.29 the Department will release retention incrementally as follows:

- 1. When 25% of the total amount bid (excluding mobilization) has been completed, the Department will release all retention withheld up to this point;
- 2. When 50% of the total amount bid (excluding mobilization) has been completed, the Department will release all retention withheld since the previous release;
- 3. When 75% of the total amount bid (excluding mobilization) has been completed, the Department will release all retention withheld since the previous release.
- 4. The remaining retained funds shall be retained until thirty five (35) days after recordation of the Notice of Acceptance.

Work increments deemed complete by the Engineer under this section do not affect the Contractor's other contractual obligations pertaining to that work, including, but not limited to, the commencement of the warranty period or the Contractor's obligation of maintenance and responsibility for that increment of work. Relief from maintenance and responsibility shall be at the discretion of the Engineer and shall conform to the provisions of Section 7-1.15 "Relief from Maintenance and Responsibility" of the Standard Specifications.

The Contractor may elect to receive one hundred percent (100%) of payments due under the Contract from time to time, without retention of any portion of the payment by the County, by depositing securities of equivalent value with the County in accordance with the provisions of Section 22300 of the California Public Contract Code. Securities eligible for deposit hereunder shall be limited to those listed in Section 16430 of the Government Code, or bank or savings and loan certificates of deposit.

Funds withheld from progress payments to ensure performance of the contract that are eligible for payment into escrow or to an escrow agent pursuant to Section 22300 of the Public Contract Code do not include funds withheld or deducted from payment due to failure of the Contractor to fulfill a contract requirement.

## 5-1.13 INTEREST ON PAYMENTS

Interest shall be payable on progress payments, payments after acceptance, final payments, extra work payments, and claim payments as follows:

- A. Unpaid progress payments, payment after acceptance, and final payments shall begin to accrue interest 30 days after the receipt of an undisputed and properly submitted pay request from the Contractor defined herein as the pay estimate prepared by the Engineer and approved by the Contract Administrator for the County.
- B. Unpaid extra work bills shall begin to accrue interest 30 days after preparation of the first pay estimate following receipt of a properly submitted and undisputed extra work bill. To be properly submitted, the bill must be submitted within 7 days of the performance of the extra work and in conformance with the provisions in Section 9-1.03C, "Records," and Section 9-1.06, "Partial Payments," of the Standard Specifications. An undisputed extra work bill not submitted within 7 days of performance of the extra work will begin to accrue interest 30 days after the preparation of the second pay estimate following submittal of the bill.
- C. The rate of interest payable for unpaid progress payments, payments after acceptance, final payments, and extra work payments shall be 10 percent per annum.
- D. The rate of interest payable on unpaid and undisputed claims shall be 6 percent per annum. Interest shall begin to accrue 61 days after the Contractor submits to the Engineer information in sufficient detail to enable the Engineer to accept the claim statement.

The rate of interest payable on any award in arbitration shall not exceed 6% per annum in accordance with Public Contract Code Section 10240.13.

## 5-1.14 BUY AMERICA REQUIREMENTS

For a Federal-aid contract, furnish steel and iron materials to be incorporated into the work that are produced in the United States except:

- 1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials [60 Fed Reg 15478 (03/24/1995)]
- 2. If the total combined cost of the materials does not exceed the greater of 0.1 percent of the total bid or \$2,500, material produced outside the United States may be used

Production includes:

- 1. Processing steel and iron materials, including smelting or other processes that alter the physical form or shape (such as rolling, extruding, machining, bending, grinding, and drilling) or chemical composition
- 2. Coating application, including epoxy coating, galvanizing, and painting, that protects or enhances the value of steel and iron materials

For steel and iron materials to be incorporated into the work, submit a Certificate of Compliance under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications that certifies all production processes occurred in the United States except for the above exceptions.

## 5-1.15 SUBCONTRACTOR AND DBE RECORDS

The Contractor shall maintain records showing the name and business address of each first-tier subcontractor. The records shall also show the name and business address of every DBE subcontractor, DBE vendor of materials and DBE trucking company, regardless of tier. The records shall show the date of payment and the total dollar figure paid to all of these firms. DBE prime contractors shall also show the date of work performed by their own forces along with the corresponding dollar value of the work.

Upon completion of the contract, a summary of these records shall be prepared on Exhibit 17-F, "Final Report – Utilization of Disadvantaged Business Enterprises (DBE), First –Tier Subcontractors (Form CEM-2402 (F)) and certified correct by the Contractor or the Contractor's authorized representative, and shall be furnished to the Engineer. The form shall be furnished to the Engineer with the Acceptance Statement, which accompanies the Proposed Final Pay Estimate.

\$10,000 will be withheld from payment until the Form CEM-2402 (F) is submitted. The amount will be returned to the Contractor when a satisfactory Form CEM-2402 (F) is submitted.

Prior to the fifteenth of each month, the Contractor shall submit documentation to the Engineer showing the amount paid to DBE trucking companies. The Contractor shall also obtain and submit documentation to the Engineer showing the amount paid by DBE trucking companies to all firms, including owner-operators, for the leasing of trucks. If a DBE leases trucks from a non-DBE the Contractor may count only the fee or commission the DBE receives as a result of the lease arrangement.

The Contractor shall also obtain and submit documentation to the Engineer showing the truck number, owner's name, California Highway Patrol CA number, and if applicable, the DBE certification number of the owner of the truck for all trucks used during that month. This documentation shall be submitted on the form entitled "Monthly Trucking Verification Form" Form CEM-2404 (F) which is available from the Department.

## 5-1.16 DBE CERTIFICATION STATUS

If a DBE subcontractor is decertified during the life of the project, the decertified subcontractor shall notify the Contractor in writing with the date of decertification. If a subcontractor becomes a certified DBE during the life of the project, the subcontractor shall notify the Contractor in writing with the date of certification. The Contractor shall furnish the written documentation to the Engineer.

Upon completion of the contract "Disadvantage Business Enterprises (DBE) Certification Status Change Form", Form CEM-2403 (F) indicating the DBE's existing certification status shall be signed and certified correct by the Contractor. The certified form shall be furnished to the Engineer with the Acceptance Statement, which accompanies the Proposed Final Pay Estimate.

#### 5-1.17 PERFORMANCE OF SUBCONTRACTORS

The subcontractors listed by you in your Proposal shall list therein the name and address of each subcontractor to whom the bidder proposes to subcontract portions of the work in an amount in excess of one-half of one percent of the total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with Section 4100 of the Public Contract Code. The bidder's attention is invited to other provisions of the Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

UDBEs must perform work or supply materials as listed in the "Local Agency Bidder - UDBE Commitment" form specified under Section 2, "Proposal Requirements and Conditions," of these special provisions. Do not terminate a UDBE listed subcontractor for convenience and perform the work with your own forces or obtain materials from other sources without prior written authorization from the Engineer.

The County grants authorization to use other forces or sources of materials for requests that show any of the following justifications:

- 1. Listed UDBE fails or refuses to execute a written contract based on plans and specifications for the project.
- 2. You stipulate a bond is a condition of executing the subcontract and the listed UDBE fails to meet your bond requirements.
- 3. Work requires a contractor's license and listed UDBE does not have a valid license under Contractors License Law.
- 4. Listed UDBE fails or refuses to perform the work or furnish the listed materials.
- 5. Listed UDBE's work is unsatisfactory and not in compliance with the contract.
- 6. Listed UDBE delays or disrupts the progress of the work.
- 7. Listed UDBE becomes bankrupt or insolvent.

If a listed UDBE subcontractor is terminated, you must make good faith efforts to find another UDBE subcontractor to substitute for the original UDBE. The substitute UDBE must perform at least the same amount of work as the original UDBE under the contract to the extent needed to meet the UDBE goal.

The substitute UDBE must be certified as a DBE at the time of request for substitution.

The County does not pay for work or material unless it is performed or supplied by the listed UDBE, unless the UDBE is terminated in accordance with this section.

#### 5-1.18 SUBCONTRACTING

No subcontract releases the Contractor from the contract or relieves the Contractor of their responsibility for a subcontractor's work.

If the Contractor violates Pub Cont Code § 4100 et seq., the County of El Dorado may exercise the remedies provided under Pub Cont Code § 4110. The County of El Dorado may refer the violation to the Contractors State License Board as provided under Pub Cont Code § 4111.

The Contractor shall perform work equaling at least 30 percent of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators.

Each subcontract must comply with the contract.

Each subcontractor must have an active and valid State contractor's license with a classification appropriate for the work to be performed (Bus & Prof Code, § 7000 et seq.).

Submit copies of subcontracts upon request by the Engineer.

Before subcontracted work starts, submit a Subcontracting Request form.

Do not use a debarred contractor; a current list of debarred contractors is available at the Department of Industrial Relations' Web site. In accordance with Title 2 CFR Section 1200.220 the Debarment and Suspension Provisions apply to all subcontracts associated with this contract. Contractor shall require all sub contractors to execute a debarment and suspension certification such as the one provided in the Proposal section of these Contract Documents.

Upon request by the Engineer, immediately remove and not again use a subcontractor who fails to prosecute the work satisfactorily.

Each subcontract and any lower tier subcontract that may in turn be made shall include the "Required Contract Provisions Federal-Aid Construction Contracts" in Section 14 of these special provisions. Noncompliance shall be corrected. Payment for subcontracted work involved will be withheld from progress payments due, or to become due, until correction is made. Failure to comply may result in termination of the contract.

#### 5-1.19 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS

Attention is directed to Section 7108.5 of the Business and Professions Code, which requires a prime contractor or subcontractor to pay any subcontractor not later than ten (10) days of receipt of each progress payment unless otherwise agreed to in writing. In addition, Federal Regulation (49CFR 26.29) requires a prime contractor or subcontractor to pay a subcontractor no later than thirty (30) days after receipt of each payment, unless any delay or postponement of payment among the parties takes place only for good cause and with the prior written approval of County. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

Prime contractors shall include in their subcontracts language providing that prime contractors and subcontractors will use appropriate alternative dispute resolution mechanisms to resolve payment disputes.

#### 5-1.20 PROMPT PAYMENT OF WITHHELD FUNDS TO SUBCONTRACTORS

The Department shall hold retainage from the prime Contractor and shall make prompt and regular incremental acceptances of portions, as determined by the Department, of the contract work and pay retainage to the prime Contractor based on these acceptances in accordance with "Payment of Withheld Funds" of these special provisions. The prime Contractor or subcontractor shall return all monies withheld in retention from the subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the Department. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the Department's prior written approval. Any violation of this provision shall subject the violating Contractor or subcontractor to the penalties, sanctions, and remedies specified in Section 7108.5 of the California Business and Professions Code. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract or performance, and/or noncompliance by a subcontractor.

#### 5-1.21 REPORTING

In order to monitor the progress of projects funded in whole or in part by federal funds, federal agencies rely heavily on inspection data. Inspections by the County shall be performed on a regular basis and data compiled in report form, as necessary, in conformance with 49CFR 18.40(c)Information to be supplied by Contractor shall be reported to County on an as requested basis.

Any subcontract entered into as a result of this Contract shall contain all of the provisions referenced and/or listed in this section.

#### 5-1.22 COPYRIGHTS, TRADEMARKS, AND PATENTS

This project will be funded, in part, with federal funds. The USDOT reserve a royalty-free, non-exclusive, and irrevocable license to reproduce, publish or otherwise use, and to authorize others to use, for Federal Government proposes:

- a) The copyright in any work developed under a grant, sub-grant, or contract under a grant or subgrant;
- b) Any rights of copyright to which a grantee, subgrantee or a contractor purchases ownership with grant support; and
- c) The patent rights to any discovery or invention which arises or is developed in the course of or under such contract.

#### 5-1.23 UTILITIES

The County has determined that no utilities exist within the project area.

#### 5-1.24 PUBLIC SAFETY

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.09, "Public Safety," of the Standard Specifications and these special provisions.

#### 5-1.25 TESTING

Testing of materials and work shall conform to the provisions in Section 6-3, "Testing," of the Standard Specifications and these special provisions.

Whenever the provisions of Section 6-3.01, "General," of the Standard Specifications refer to tests or testing, it shall mean tests to assure the quality and to determine the acceptability of the materials and work.

The Engineer will deduct the costs for testing of materials and work found to be unacceptable, as determined by the tests performed by the Department, and the costs for testing of material sources identified by the Contractor which are not used for the work, from moneys due or to become due to the Contractor. The amount deducted will be determined by the Engineer.

#### 5-1.26 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES

When the presence of asbestos or hazardous substances is not shown on the plans or indicated in the specifications and the Contractor encounters materials which the Contractor reasonably believes to be asbestos as defined in Section 25914.1 of the Health and Safety Code or a hazardous substance as defined in Section 25117 of the Health and Safety Code, and the asbestos or hazardous substance has not been rendered harmless, the Contractor may continue work in unaffected areas reasonably believed to be safe. The Contractor shall immediately cease work in the affected area and report the condition to the Engineer in writing.

In conformance with Section 25914.1 of the Health and Safety Code, removal of asbestos or hazardous substances including exploratory work to identify and determine the extent of the asbestos or hazardous substance will be performed by separate contract.

If delay of work in the area delays the current controlling operation, the delay will be considered a right of way delay and the Contractor will be compensated for the delay in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

#### 5-1.27 SOUND CONTROL REQUIREMENTS

Sound control shall conform to these special provisions, and Section 7-1.011 "Sound Control Requirements" shall not apply.

#### Sound Level Criteria

The maximum allowable noise exposure shall be as specified in the following tables for work within the community types and land use designations as follows:

The work is located in a Rural Region with Natural Resources.

MAXIMUM ALLOWABLE NOISE EXPOSURE F IN RURAL REGIONS-CO			SE SOURCH
	Time Period	Noise Level (dB)	
Land Use Designation		$\mathbf{L}_{_{\mathbf{eq}}}$	L max
Rural Land, Natural Resources, Open Space, and Agricultural Lands (RR, NR, OS, AL)	7 pm–7 am	60	70

The noise level requirement shall apply to the equipment on the job or related to the job measured at the affected building facade, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

As directed by the Engineer, the Contractor shall implement appropriate additional noise mitigation measures, including but not limited to changing the location of stationary construction equipment, shutting off idling equipment, rescheduling Contractor's activity, notifying adjacent residents in advance of construction work, and installing acoustic barriers around stationary construction noise sources such that noise from construction does not exceed the limits

specified above. If the existing background noise levels exceed the values above, then the limit for construction noise may be increased from the background noise level by the same percentage that the background noise level exceeds the values above.

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

## 5-1.28 PROJECT APPEARANCE

The Contractor shall maintain a neat appearance to the work.

In areas visible to the public, the following shall apply:

A. When practicable, broken concrete and debris developed during clearing and grubbing shall be disposed of concurrently with its removal. If stockpiling is necessary, the material shall be removed or disposed of weekly.

B. Trash bins shall be furnished for debris from structure's construction. Debris shall be placed in trash bins daily. Forms or false work that are to be re-used shall be stacked neatly concurrently with their removal. Forms and false work that are not to be re-used shall be disposed of concurrently with their removal.

Full compensation for conforming to the provisions in this section, not otherwise provided for, shall be considered as included in prices paid for the various contract items of work and no additional compensation will be allowed therefor.

## 5-1.29 RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME

A portion of this project is located within the jurisdiction of the California Department of Fish and Game. An agreement regarding a stream or lake has been entered into by the Department of Transportation and the Department of Fish and Game. The Contractor shall be fully informed of the requirements of this agreement as well as rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly. If there are any conflicts between this agreement and these special provisions the more restrictive shall apply.

The Contractor shall notify the Engineer two weeks prior to beginning work.

A copy of the Streambed Alteration Agreement is included in Appendix C of the contract documents. Should any provision of the Streambed Alteration Agreement conflict with the special provisions, the special provisions shall govern.

The Contractor shall sign the Department's copy of the Streambed Alteration Agreement in acceptance of the terms and conditions that the Contractor is required to follow.

It is unlawful for any person to divert, obstruct or change the natural flow of the bed, channel or bank of a stream, river or lake without first notifying the Department of Fish and Game, unless the project or activity is noticed and constructed in conformance with conditions imposed under Fish and Game Code Section 1602.

Attention is directed to Sections 7-1.01, "Laws to be Observed," 7-1.01G, "Water Pollution," and 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

Full compensation for conforming to the requirements of this section, not otherwise provided for, shall be considered as included in the contract prices paid for the various items of work and no additional compensation will be allowed therefor.

#### 5-1.30 BIRD PROTECTION

### GENERAL

This work includes protecting migratory birds and birds of prey (raptors), their occupied nests, and their eggs.

#### **REGULATORY REQUIREMENTS**

The Federal Migratory Bird Treaty Act (MBTA) (16 USC §703-711.), 50 CFR 10, and Fish & Game Code §3503, §3513, and §3800, protect migratory and nongame birds, their occupied nests, and their eggs.

The Federal Endangered Species Act of 1973 (16 USC §1531jut§1543) and California Endangered Species Act (Fish & Game Code §2050-§2115.5) prohibit the take of listed species and protect occupied and unoccupied nests of threatened and endangered bird species.

The Bald and Golden Eagle Protection Act (16 USC §668) prohibits the destruction of bald and golden eagles and their occupied and unoccupied nests.

#### PRECONSTRUCTION SURVEYS AND NEST PROTECTION

When construction work or tree falling activities shall occur during the breeding season (February 15<sup>th</sup> through September 15<sup>th</sup>), the County's biologist will conduct two separate preconstruction surveys of all suitable nesting habitat within 250 feet of the biological study area and/or 500 feet of the immediate construction areas. The first survey will occur no earlier than February 1<sup>st</sup>, and the second survey will occur no more than one week prior to start of construction. If no active nests are found, then no additional avoidance and minimization measures will be necessary, and construction may proceed as planned.

If an active nest of a raptor is found within a quarter-mile (1320 feet) of the immediate construction area, the biologist shall establish a minimum 250 foot Environmentally Sensitive Area (ESA) around the nest. If an active nest of a migratory bird is found within 100 feet of the immediate construction area, the biologist shall establish a minimum 100 foot ESA around the nest. The biologist will consult with the Department of Fish & Game to determine the best course of action necessary to avoid nest abandonment or take of individuals. No construction activity shall be allowed in the ESA until the biologist determines that the nest is no longer active, or unless monitoring determines that a small ESA will protect the active nest. The ESA may be reduced if the biologist monitors the construction activities and determines that no disturbance to the active nest is occurring. The size of suitable buffers depends on the species of bird, the location of nest relative to the project, project activities during the time the nest is active, and other project specific conditions. Work may be allowed to proceed within the temporary nest disturbance buffer if raptors are not exhibiting agitated behavior such as defensive flights at intruders, getting up from a brooding position, or flying off the nest. The biologist shall be on-site daily while construction related activities are taking place and shall have the authority to stop work if raptors are exhibiting agitated behavior.

Construction work beginning during the non-nesting season, and continuing into the nesting season shall not be subject to these measures.

#### MEASUREMENT AND PAYMENT

The cost for conforming to all the provisions in this section, including protection measures such as the establishment of a buffer around active nests and installation of temporary fence (Type ESA), as ordered by the Engineer, will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

A delay to the controlling operation due to migratory or nongame birds or their nests will be considered a temporary suspension of work under Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications. Adjustments will be made for delays that the Engineer determines are not due to the Contractor's failure to perform the provision of the contract in the same manner as for suspensions due to unsuitable weather in Section 8-1.05.

# 5-1.31 FIRE PLAN

The Contractor shall cooperate with local fire prevention authorities in eliminating hazardous fire conditions and shall implement the following fire plan under the direction of the Engineer:

- 1. The Contractor shall be responsible for:
  - 1.1. Obtaining the phone numbers of the nearest fire suppression agency, California Department of Forestry and Fire Protection (Cal Fire) Unit Headquarters, United States Forest Service (USFS) Ranger District office, and U.S Department of Interior (USDI) Bureau of Land Management (BLM) Field Office and providing these phone numbers to the Engineer before any work begins.
  - 1.2. Immediately reporting to the nearest fire suppression agency fires occurring within the limits of the project.
  - 1.3. Preventing project personnel from setting open fires not part of the work, unless the Fire Danger Rating is at "Low," or the determination of the Fire Danger Rating is suspended or, if in an area not covered by the Fire Danger Rating, the Engineer determines that the fire hazard is negligible.
  - 1.4. Preventing the escape of fires caused directly or indirectly as a result of project operations and extinguishing these fires.
  - 1.5 Maintaining a 12-foot wide path adjacent to the roadway embankment for fire truck access to the creek per Sheet L-1 of the plans.
- 2. Except for motor trucks, truck tractors, buses and passenger vehicles, the Contractor shall equip all hydro-carbon fueled engines, both stationary and mobile, including motorcycles, with spark arresters that meet USFS Standards as specified in the Forest Service Spark Arrester Guide and shall maintain the spark arresters in good operating condition. Spark arresters are not required by the Cal Fire, BLM, or the USFS on equipment powered by properly maintained exhaust-driven turbo-charged engines or when equipped with scrubbers with properly maintained water levels. The Forest Service Spark Arrester Guide is available at the District Offices.
- 3. Toilets shall have a metal ashtray, at least 6 inches in diameter by 8 inches deep, half-filled with sand and within easy reach of anyone utilizing the facility.
- 4. Equipment service areas, parking areas and gas and oil storage areas shall be located so that there is no flammable material within a radius of at least 50 feet of these areas. Small mobile or stationary engine sites shall be cleared of flammable material for a radius of at least 15 feet from the engine.
- 5. The areas to be cleared and grubbed shall be cleared, and kept clear of, flammable material such as dry grass, weeds, brush, downed trees, oily rags and waste, paper, cartons, and plastic waste. Before clearing and grubbing, the Contractor shall clear a fire break at the outer limits of the areas to be cleared and grubbed. Other fire breaks may be ordered by the Engineer and will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.
- 6. The Contractor shall furnish:
  - 6.1. One shovel and one fully charged fire extinguisher UL rated at 4 B:C or more on each truck, personnel vehicle, tractor, grader, or other heavy equipment.
  - 6.2. One shovel and one back-pack 5-gallon water-filled tank with pump for each welder.
  - 6.3. One shovel or one chemical pressurized fire extinguisher, fully charged, for each gasoline-powered tool, including but not limited to chain saws, soil augers, rock drills, etc. The required fire tools shall, at no time, be farther than 25 feet from the point of operation of the power tool. Fire extinguishers shall be of the type and size required by the California Public Resource Code, Section 4431, and the California Administrative Code, Title 14, Section 1234.
  - 6.4. Shovels shall be size "O" or larger and shall be not less than 46 inches in length.
- 7. The Contractor shall furnish a pickup truck and driver that will be available for fire control during working hours and as specified herein.
  - 7.1. The truck shall be equipped with 10 shovels, 5 axes, 2 back-pack 5-gallon water-filled tanks with pumps, or other fire tools substituted on a one to one basis at the option of the Contractor and approved by the Engineer.

- 7.2. The truck shall be equipped with a 100-gallon tank of water with a gasoline motor powered pump and 100 feet of 3/4-inch hose on a reel.
- 7.3. In addition to being available at the site of the work, the truck and operator shall patrol the area of construction for not less than one-half hour after the shutdown of the work.

The Contractor shall obtain daily the Adjective Fire Danger Rating for the project area from the nearest Cal Fire Unit Headquarters, USFS Ranger District office, or BLM Field Office. Cal Fire, USFS, and BLM have established a standard adjective description for 5 levels of fire danger for use in public information releases and fire protection signing:

Adjective Fire Danger Rating	
Rating	Color Code
Low	Green
Moderate	Blue
High	Yellow
Very High	Orange
Extreme	Red

If the Fire Danger Rating reaches "Very High," the following conditions will prevail:

- 1. Falling of dead trees or snags shall be discontinued.
- 2. No open burning will be permitted; fires shall be extinguished.
- 3. Welding shall discontinued except in an enclosed building or within an area cleared of flammable material for a radius of 15 feet.
- 4. Blasting shall be discontinued.
- 5. Smoking will be permitted only in automobiles and cabs of trucks equipped with an ashtray or in cleared areas immediately surrounded by a fire break, unless prohibited by other authority.
- 6. Vehicular travel will be restricted to cleared areas except in case of emergency.

If the Fire Danger Rating reaches "Extreme," the following precautions shall be taken in addition to the conditions specified above:

- 1. Work of a nature which could start a fire shall require that properly equipped fire guards be assigned to such operation for the duration of the work.
- 2. Smoking will be permitted only in automobiles and truck cabs equipped with an ashtray, unless prohibited by other authority.

If the project is shut down or partially shut down on account of hazardous fire conditions, working days during such period will be determined in the same manner as provided in Section 8-1.06, "Time of Completion," of the Standard Specifications for inclement weather.

If field and weather conditions become such that the determination of the Fire Danger Rating is suspended, these provisions will not be enforced for the period of the suspension of the determination of the Fire Danger Rating. The Engineer will notify the Contractor of the dates of the suspension and resumption of the determination of the Fire Danger Rating.

Full compensation for conforming to the provisions herein shall be considered as included in the prices paid for the various contract items of work and no separate payment will be made therefor.

# 5-1.32 RELATIONS WITH CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

This project lies within the boundaries of the Central Valley Regional Water Quality Control Board (RWQCB).

The NPDES permit that regulates this project, as referenced above, is referred to in this section as the "permit."

This project shall conform to the permit and modifications thereto. The Contractor shall maintain a copy of the permit at the project site and shall make them available during construction.

The Contractor shall know and comply with provisions of Federal, State, and local regulations and requirements that govern the Contractor's operations and storm water and non-storm water discharges from the project site and areas of disturbance outside the project limits during construction. Attention is directed to Sections 7-1.01, "Laws to be Observed," 7-1.11, "Preservation of Property," 7-1.12, "Indemnification and Insurance", 8-1.10 "Utility and Non-Highway Facilities," and 9-1.055 "Penalty Withholds," of the Standard Specifications.

The Contractor shall be responsible for penalties assessed on the Contractor or the Department as a result of the Contractor's failure to comply with the provisions in "Water Pollution Control" of these special provisions or with the applicable provisions of the Federal, State, and local regulations and requirements.

Penalties as used in this section shall include fines, penalties, and damages, whether proposed, assessed, or levied against the Department or the Contractor, including those levied under the Federal Clean Water Act and the State Porter-Cologne Water Quality Control Act, by governmental agencies or as a result of citizen suits. Penalties shall also include payments made or costs incurred in settlement for alleged violations of applicable laws, regulations, or requirements. Costs incurred could include sums spent instead of penalties, in mitigation or to remediate or correct violations.

The Contractor shall notify the Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the Contractor's records pertaining to water pollution control work. The Contractor and the Department shall provide copies of correspondence, notices of violation, enforcement actions, or proposed fines by regulatory agencies to the requesting regulatory agency.

# 5-1.33 STORAGE OF MATERIALS

Attention is directed to the provisions of Section 6-1.03, "Storage of Materials," of the Standard Specifications and these special provisions.

The Contractor shall not store any materials, equipment, supplies, or the like in "environmentally sensitive" areas as shown on the plans or as determined by the Engineer.

Materials shall be stored so as to ensure the preservation of their quality and fitness for the work. When considered necessary by the Engineer, they shall be placed on wooden platforms or other hard, clean surfaces, and not directly on the ground, and/or they shall be placed under cover. Stored materials shall be located so as to facilitate prompt inspection. Private property shall not be used for storage purposes without the written permission of the owner or lessee. The Contractor shall be responsible for appropriate security of the storage area to protect property and persons.

# 5-1.34 **RESPONSIBILITY TO OTHER ENTITIES**

The Contractor shall be responsible for any liability imposed by law and for injuries to or death of any person including, but not limited to, workers and the public or damage to property, and shall indemnify and save harmless any county, city or district, its officers and employees connected with the work, within the limits of which county, city or district the work is being performed, all in the same manner and to the same extent conforming to the provisions in Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications, and Article 5 of the Agreement, for the protection of the State of California and all officers and employees thereof connected with the work.

# 5-1.35 CONTRACTOR'S RESPONSIBILITY FOR MATERIALS

The Contractor shall be responsible for the condition of all materials, which it has furnished, and shall replace at its own expense all such material found to be defective or which has been damaged after delivery. This includes the replacement of material which is found to be defective at any time prior to expiration of the guarantee period.

# 5-1.36 PRESERVATION OF PROPERTY

Attention is directed to Section 7-1.11, "Preservation of Property," of the Standard Specifications and these special provisions.

The Contractor shall not disturb areas outside of the existing roadway along Wentworth Springs Road.

Unless noted otherwise on the plans, all existing trees are to remain in place and shall not be damaged or removed. Trees, shrubs and other plants, that are not to be removed as shown on the plans or specified in these special provisions, and are injured or damaged by reason of the Contractor's operations, shall be replaced by the Contractor at his expense. The minimum size of tree replacement shall be 24 inch box and the minimum size of shrub replacement shall be 15-gallon. Replacement ground cover plants shall be from flats and shall be planted 12 inches on center. Replacement planting shall conform to the requirements in Section 20-4.07, "Replacement," of the Standard Specifications. The Contractor shall water replacement plants in conformance with the provisions in Section 20-4.06, "Watering," of the Standard Specifications.

Damaged or injured plants shall be removed and disposed of in conformance with the provisions in Section 7-l.13,"Disposal of Material Outside the Highway Right of Way," of the Standard Specifications. At the option of the Contractor, removed trees and shrubs may be reduced to chips. The chipped material shall be spread within the highway right of way at locations designated by the Engineer.

Replacement planting of injured or damaged trees, shrubs and other plants shall be completed not less than 20 working days prior to acceptance of the contract. Replacement plants shall be watered as necessary to maintain the plants in a healthy condition.

# 5-1.37 SUPPLEMENTAL PROJECT INFORMATION

Supplemental project information attached to the project plans are:

1. Log of Test Borings.

Supplemental project information included in Appendix C of the contract documents are:

1. California Department of Fish and Game Streambed Alteration Agreement.

Supplemental project information available on the Department's website are:

- 1. Foundation Investigation, Wentworth Springs Road at Gerle Creek, prepared by Taber Consultants, dated December 2009.
- 2. Foundation Investigation Addendum 1, prepared by Taber Consultants, dated February 1, 2012.
- 3. Drainage Report, Gerle Creek, prepared by El Dorado County DOT, dated 10-4-10.
- 4. Photos of Project Site.

# 5-1.38 ENVIRONMENTALLY SENSITIVE AREA

An environmentally sensitive area (ESA) shall consist of an area within and near the limits of construction where access is prohibited or limited for the preservation of archeological site or existing vegetation, or protection of biological habitat as shown on the plans. The Engineer will determine the exact location of the boundaries of the ESA. No work shall be conducted within the ESA.

Attention is directed to Section 7-1.01 "Laws to be Observed," and Section 7-1.04 "Permits and Licenses," of the Standard Specifications regarding State and Federal regulations, permits, or agreements which pertain to an ESA.

Prior to beginning work, the boundaries of the ESA shall be clearly delineated by the placement of temporary fence (Type ESA).

The Contractor's attention is directed to the areas designated "Environmentally Sensitive Areas" and to State and Federal regulations that may pertain to such areas. These areas are protected and no entry by the Contractor for any purpose will be allowed unless specifically authorized in writing by the County.

The Contractor shall give his employees and subcontractors written notice to ensure that all forces are aware that vehicle access, storage or transport of materials or equipment, or other project related activities are prohibited within the boundaries of ESA unless the Contractor receives written approval from the Engineer.

The Contractor shall mitigate damage or impacts to the ESA caused by the Contractor's operations, at the Contractor's expense. If the Engineer determines mitigation work will be performed by others, or if mitigation fees are assessed the Department, deductions from moneys due or to become due the Contractor will be made for the mitigation costs.

Contractor shall notify the County two weeks prior to the start of any construction activity so the County can arrange to have its biologist conduct a preconstruction survey of the Biological Study Area (BSA) for the Foothill Yellow-Legged Frog (FYLF). The County's biologist will be on-site during clearing and grubbing activities to ensure that no FYLF is present. In the event that a FYLF is observed during construction activities, activities will cease and the County will contact the biologist. Construction activities will not resume until either the frog leaves the area of construction or the biologist contacts the Department of Fish & Game and the U.S. Forest Service for permission to move the frog. If delays occur for this reason, the delays shall be considered Right-of-Way delays and addressed accordingly.

The preceding measures implemented to protect the FYLF are also intended to protect additional special-status species, such as the Sierra Nevada Yellow-Legged Frog and the Northwestern Pond Turtle. The Engineer shall be notified immediately should the Contractor encounter a suspected special-status species.

The cost for implementing all required protection measures described herein, in the event that a FYLF or other special-status species is observed in the construction area will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

# 5-1.39 UTILITIES REQUIRED BY CONTRACTOR

All water, electric current, telephone, or other utility service, including portable sanitary facilities, required by the Contractor during construction shall be furnished at Contractor's own expense.

### 5-1.40 FINAL INSPECTION AND ACCEPTANCE OF THE CONTRACT

Section 7-1.17, "Acceptance of Contract" of the Standard Specifications is amended to read:

When the Engineer has made the final inspection and determines that the contract work, other than the work associated with outstanding plant establishment work, has been completed in all respects in accordance with the plans and specifications, the Engineer will recommend to the Board of Supervisors that the contract be accepted and the Notice of Acceptance be recorded to accept the contract, and immediately upon and after the acceptance by the Board of Supervisors, notwithstanding Section 7-1.15 "Relief From Maintenance and Responsibility" of the Standard Specifications, the Contractor will be relieved of the duty of maintaining and protecting the work as a whole, and the Contractor will not be required to perform any further work thereon except work required under "Guarantee," of these Special Provisions; and the Contractor shall be relieved of the responsibility for injury to persons or property or damage to the work which occurs after the formal acceptance by the Board of Supervisors.

### 5-1.41 ACCESS FOR INSPECTION OF WORK

Representatives of the County, State and Federal agencies shall at all times have full access for inspection and testing of the work accomplished under this contract and the Contractor shall provide proper and safe facilities for such access.

### 5-1.42 AREAS FOR CONTRACTOR'S USE

Attention is directed to the provisions in Section 7-1.19, "Rights in Land and Improvements," of the Standard Specifications and these special provisions.

The project site is located within public easements from a privately-held parcel within the boundaries of the Eldorado National Forest under the jurisdiction of the U.S. Forest Service. Access to the site crosses through Eldorado National Forest and utilizes forest service roads. Any non-typical public use of U.S. Forest Service lands or roads may require coordination and permitting by the Eldorado National Forest.

It is brought to the Contractor's attention that the main access to the site is from the north on Wentworth Springs Road as shown on the Title Sheet of the plans (to the west abutment) which is narrow and unpaved. The southern portion of Wentworth Springs Road is rugged and narrow, likely only traversable by smaller, 4-wheel or all-terrain, equipment. The Contractor shall stay within the limits of the existing road bed. The Contractor shall not alter the access by grading or removing trees on Wentworth Springs Road.

The County right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

Areas available for the exclusive use of the Contractor are designated on the plans. Use of the Contractor's work areas shall be at the Contractor's own risk, and the County shall not be held liable for damage to or loss of materials or equipment located within these areas.

The Contractor may utilize the existing low water crossing across Gerle Creek with appropriate vehicles that are equipped to safely and quickly cross the creek without polluting the creek waters or disturbing the creek bed. No equipment at any time shall be placed in the creek, and vehicles shall not be parked or remain idle in the creek. Other than utilizing the low water crossing across Gerle Creek, all vehicles, equipment, and materials shall be located above the ordinary high water mark (OHWM). Absolutely no excavation or construction activity may occur at or below the OHWM between the OHWM limits shown on the plans within the creek boundaries.

The Contractor shall be aware that excavation work necessary to construct the abutment footings and geosynthetic foundations will limit access along Wentworth Springs Road and shall stage the work accordingly.

The Contractor shall remove equipment, materials, and rubbish from the work areas and other County-owned property which the Contractor occupies. The contractor shall not dump any litter or construction debris within the stream zone. The Contractor shall leave the areas in a presentable condition in conformance with the provisions in Section 4-1.02, "Final Cleaning Up," of the Standard Specifications.

The Contractor shall secure, at the Contractor's own expense, areas required for plant sites, storage of equipment or materials or for other purposes, if sufficient area is not available to the Contractor within the contract limits, or at the sites designated on the plans outside the contract limits.

Before the Contractor makes use of any property owner's land where the Department has not made previous arrangements with the owner for the use of said land, the Contractor shall supply to the County a fully executed "Release from Liability" form. The "Release from Liability" form shall be a Department supplied form, available upon request.

# 5-1.43 COORDINATION WITH PROPERTY OWNERS

The County has obtained an easement for access and construction shown on the project plans and as indicated in these special provisions.

The Contractor shall make access available for owners of adjacent private properties along Wentworth Springs Road.

The conditions of the agreements with property owners, permits, and any temporary construction easements are made a part of these special provisions, and no additional compensation will be due to the Contractor for complying with those conditions or in obtaining any required permits.

# 5-1.44 SAFETY AND HEALTH PROVISIONS

Attention is directed to the Standard Specifications Section 7-1.06 and these special provisions.

In addition to other specifications, definitions and provisions, the Contractor is also hereby categorized and designated as the following types of employer for this project:

- Exposing Employer the employer whose employees are exposed to a hazard
- **Creating Employer** the employer who actually is creating a hazard
- **Controlling Employer** the employer who is responsible and who has the authority for ensuring that a hazardous condition is corrected
- Correcting Employer the employer who has the responsibility for actually correcting a hazard

The Contractor's Safety Officer(s) shall be certified as a competent person for controlling this project's workplace safety. A Contractor's Safety Officer shall be on the site, at a minimum, each and every day that work is in progress or periodically when work is not active and shall have the authority to correct any safety violation. In addition, the Contractor is required to develop a Safety Program specifically for this project, which will be available on site, at all times, and updated periodically during the project.

# 5-1.45 ARCHAEOLOGICAL DISCOVERIES

If subsurface archaeological or historical materials remains (including, but not limited to, unusual amounts of bones, stones or shells) are discovered during excavation or construction at the site, protect and leave undisturbed and in place archaeological materials in accordance with the following codes and these special provisions:

- 1. California Public Resources Code, Division 5, Chapter 1.7 § 5097.5
- 2. California Public Resources Code, Division 5, Chapter 1.75 § 5097.98 and § 5097.99
- 3. California Administrative Code, Title 14 § 4308
- 4. California Penal Code, Part 1, Title 14 § 622-1/2
- 5. California Health and Safety Code, Division 7, Part 1, Chapter 2, § 7050.5

Archaeological materials are the physical remains of past human activity and include historic-period archaeological materials and prehistoric Native American archaeological materials. Nonhuman fossils are not considered to be archaeological except when showing direct evidence of human use or alteration or when found in direct physical association with archaeological materials as described in these special provisions.

Historic-period archaeological materials include cultural remains beginning with initial European contact in California, but at least 50 years old. Historical archaeological materials include:

- 1. Trash deposits or clearly defined disposal pits containing tin cans, bottles, ceramic dishes, or other refuse indicating previous occupation or use of the site
- 2. Structural remains of stone, brick, concrete, wood, or other building material found above or below ground or
- 3. Human skeletal remains from the historic period, with or without coffins or caskets, including any associated grave goods

Prehistoric Native American archaeological materials include:

- 1. Human skeletal remains or associated burial goods such as beads or ornaments
- 2. Evidence of tool making or hunting such as arrowheads and associated chipping debris of fine-grained materials such as obsidian, chert, or basalt
- 3. Evidence of plant processing such as pestles, grinding slabs, or stone bowls
- 4. Evidence of habitation such as cooking pits, stone hearths, packed or burnt earth floors or
- 5. Remains from food processing such as concentrations of discarded or burnt animal bone, shellfish remains, or burnt rocks used in cooking

Immediately upon discovery of archaeological materials, stop all work within a 100-foot radius of the archaeological materials and immediately notify the Engineer. Archaeological materials found during construction are the property of the State. The Engineer will make arrangements for a qualified archeologist and a representative from the Native American Heritage Commission to determine the significance of the find and develop a plan with specific measures to protect the find in a manner commensurate with the significance of the find. The plan shall be implemented before construction continues within 100 feet of the discovery. If, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of an archeological find or investigation or recovery of archeological materials, you will be compensated for resulting losses and an extension of time will be granted in the same manner as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The Department may use other forces to investigate and recover archaeological materials from the location of the find. When ordered by the Engineer furnish labor, material, tools and equipment, to secure the location of the find, and assist in the investigation or recovery of archaeological materials and the cost will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications.

### 5-1.46 ASSIGNMENT OF ANTITRUST ACTIONS

In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor offers and agrees and will require all of its subcontractors and suppliers to agree to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to Contractor, without further acknowledgment by the parties.

If an awarding body or public purchasing body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Government Code Sections 4550-4554, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery. Upon demand in writing by the assigner, the assignee shall, within one year from such demand, reassign the cause of action assigned under Government Code Sections 4550-4554 if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

# SECTION 6. (BLANK)

## SECTION 7. CONTRACTOR'S INSURANCE

### 7-1.01 GENERAL INSURANCE REQUIREMENTS

The Contractor shall provide proof of a policy of insurance satisfactory to the El Dorado County Risk Management Division and documentation evidencing that the Contractor maintains insurance that meets the following requirements:

- 1. Full Workers' Compensation and Employers' Liability Insurance covering all employees of the Contractor as required by law in the State of California.
- 2. Commercial General Liability Insurance of not less than Two Million Dollars (\$2,000,000) combined single limit per occurrence for bodily injury and property damage, including but not limited to endorsements for the following coverage: Premises, personal injury, operations, products and completed operations, blanket contractual, and independent contractors liability. This insurance can consist of a minimum \$1 Million primary layer of CGL and the balance as an excess/umbrella layer, but only if the County is provided with written confirmation that the excess/umbrella layer "follows the form" of the CGL policy.
- 3. Automobile Liability Insurance of not less than One Million Dollars (\$1,000,000) is required in the event motor vehicles are used by the Contractor in performance of the contract.
- 4. In the event Contractor is a licensed professional and is performing professional services under this contract, Professional Liability Insurance is required with a limit of liability of not less than One Million Dollars (\$1,000,000).
- 5. Explosion, Collapse and Underground coverage is required when the scope of work includes XCU exposures. For the purpose of this contract, XCU coverage is required.

# 7-1.02 PROOF OF INSURANCE REQUIREMENTS

- 1. Contractor shall furnish proof of coverage satisfactory to the El Dorado County Risk Management Division as evidence that the insurance required herein is being maintained. The insurance will be issued by an insurance company acceptable to the Risk Management Division, or be provided through partial or total self-insurance likewise acceptable to the Risk Management Division.
- 2. The County of El Dorado, its officers, officials, employees, and volunteers shall be included as additional insureds, but only insofar as the operations under this Contract are concerned. This provision shall apply to all general liability and excess liability policies. Proof that the County is named additional insured shall be made by providing the Risk Management Division with a certified copy, or other acceptable evidence, of an endorsement to Contractor's insurance policy naming the County additional insured.
- 3. In the event Contractor cannot provide an occurrence policy, Contractor shall provide insurance covering claims made as a result of performance of this contract for not less than three (3) years following completion of performance of this Contract.
- 4. Any deductibles or self-insured retentions must be declared to and approved by the County. At the option of the County, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the County, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.
- 5. Contractor shall require each of its subcontractors to procure and maintain commercial general liability insurance, automobile liability insurance, and workers compensation insurance of the types and in the amounts specified above, or shall insure the activities of its subcontractors in its own policy in like amounts. Contractor shall also require each of its subcontractors to name Contractor and County of El Dorado as additional insureds.

# 7-1.03 INSURANCE NOTIFICATION REQUIREMENTS

- 1. Contractor agrees no cancellation or material change in any policy shall become effective except upon thirty (30) days prior written notice to the County of El Dorado Office Engineer/Contract Services Unit, at the office of the Department of Transportation, 2850 Fairlane Court, Placerville.
- 2. Contractor agrees that the insurance required herein shall be in effect at all times during the term of this agreement. In the event said insurance coverage expires at any time or times during the term of this Contract, Contractor shall immediately provide a new certificate of insurance as evidence of the required insurance coverage. In the event Contractor fails to keep in effect at all times insurance coverage as herein provided, County may, in addition to any other remedies it may have, terminate this Contract upon the occurrence of such event. New certificates of insurance are subject to the approval of the Risk Management Division.

# 7-1.04 ADDITIONAL STANDARDS

Certificates shall meet such additional standards as may be determined by the Department either independently or in consultation with the Risk Management Division, as essential for protection of the County.

# 7-1.05 COMMENCEMENT OF PERFORMANCE

Contractor shall not commence performance of this Contract unless and until compliance with each and every requirement of the insurance provisions is achieved.

# 7-1.06 MATERIAL BREACH

Failure of Contractor to maintain the insurance required herein, or to comply with any of the requirements of the insurance provisions, shall constitute a material breach of the entire Contract.

# 7-1.07 **REPORTING PROVISIONS**

Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the County, its officies, employees or volunteers.

# 7-1.08 PRIMARY COVERAGE

The Contractor's insurance coverage shall be primary insurance as respects the County, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees or volunteers shall be in excess of the Contractor's insurance and shall not contribute with it.

# 7-1.09 PREMIUM PAYMENTS

The insurance companies shall have no recourse against the County of El Dorado its officers, agents, employees, or any of them for payment of any premiums or assessments under any policy issued by any insurance company.

# 7-1.10 CONTRACTOR'S OBLIGATIONS

Contractor's indemnity and other obligations shall not be limited by the insurance required herein and shall survive the expiration of this Contract.

### 7-1.11 GOVERNING PRECEDENCE

To the extent that this Section 7, "Contractor's Insurance," is inconsistent with 7-1.12, "Indemnification and Insurance," of the Standard Specifications May 2006, this Section shall govern; otherwise each and every provision of such Section 7-1.12 shall be applicable to this agreement.

### SECTION 8. MATERIALS

# SECTION 8-1. MISCELLANEOUS

### 8-1.01 CERTIFICATES OF COMPLIANCE

All required Certificate of Compliances shall be submitted as required in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

### 8-1.02 PREQUALIFIED AND TESTED SIGNING AND DELINEATION MATERIALS

The Department maintains the following list of Prequalified and Tested Signing and Delineation Materials. The Engineer shall not be precluded from sampling and testing products on the list of Prequalified and Tested Signing and Delineation Materials.

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

For those categories of materials included on the list of Prequalified and Tested Signing and Delineation Materials, only those products shown within the listing may be used in the work. Other categories of products, not included on the list of Prequalified and Tested Signing and Delineation Materials, may be used in the work provided they conform to the requirements of the Standard Specifications.

Materials and products may be added to the list of Prequalified and Tested Signing and Delineation Materials if the manufacturer submits a New Product Information Form to the New Product Coordinator at the Transportation Laboratory. Upon a Departmental request for samples, sufficient samples shall be submitted to permit performance of required tests. Approval of materials or products will depend upon compliance with the specifications and tests the Department may elect to perform.

# PAVEMENT MARKERS, PERMANENT TYPE

### **Retroreflective With Abrasion Resistant Surface (ARS)**

- 1. Apex, Model 921AR (4" x 4")
- 2. Ennis Paint, Models C88 (4" x 4"), 911 (4" x 4") and 953 (2.75" x 4.5")
- 3. Ray-O-Lite, Model "AA" ARS (4" x 4")
- 4. 3M Series 290 (3.5" x 4")

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5. 3M Series 290 PSA, with pressure sensitive adhesive pad (3.5" x 4")

# **Retroreflective With Abrasion Resistant Surface (ARS)**

(for recessed applications only)

- 1. Ennis Paint, Model 948 (2.3" x 4.7")
- 2. Ennis Paint, Model 944SB (2" x 4")\*
- 3. Ray-O-Lite, Model 2002 (2" x 4.6")
- Ray-O-Lite, Model 2004 ARS (2" x 4")\*
   \*For use only in 4.5 inch wide (older) recessed slots

# Non-Reflective, 4-inch Round

- 1. Apex Universal (Ceramic)
- 2. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
- 3. Glowlite, Inc. (Ceramic)
- 4. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
- 5. Interstate Sales, "Diamond Back" (Polypropylene)
- 6. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
- 7. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
- 8. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)

# PAVEMENT MARKERS, TEMPORARY TYPE

# Temporary Markers For Long Term Day/Night Use (180 days or less)

1. Vega Molded Products "Temporary Road Marker" (3" x 4")

# Temporary Markers For Short Term Day/Night Use (14 days or less)

(For seal coat or chip seal applications, clear protective covers are required)

- 1. Apex Universal, Model 932
- 2. Filtrona Extrusion, Models T.O.M., T.R.P.M., and "HH" (High Heat)
- 3. Hi-Way Safety, Inc., Model 1280/1281
- 4. Glowlite, Inc., Model 932

# STRIPING AND PAVEMENT MARKING MATERIAL

# Permanent Traffic Striping and Pavement Marking Tape

- 1. Advanced Traffic Marking, Series 300 and 400
- 2. Brite-Line, Series 1000
- 3. Brite-Line, "DeltaLine XRP"
- 4. Swarco Industries, "Director 35" (For transverse application only)
- 5. Swarco Industries, "Director 60"
- 6. 3M, "Stamark" Series 380 and 5730
- 7. 3M, "Stamark" Series 420 (For transverse application only)

# Temporary (Removable) Striping and Pavement Marking Tape (180 days or less)

- 1. Advanced Traffic Marking, Series 200
- 2. Brite-Line, Series 100
- 3. Garlock Rubber Technologies, Series 2000
- 4. P.B. Laminations, Aztec, Grade 102
- 5. Swarco Industries, "Director-2"
- 6. Trelleborg Industries, R140 Series
- 7. 3M Series 620 "CR", and Series A750
- 8. 3M Series A145, Removable Black Line Mask (Black Tape: for use only on Hot mix asphalt surfaces)
- 9. Advanced Traffic Marking Black "Hide-A-Line" (Black Tape: for use only on Hot mix asphalt surfaces)
- 10. Brite-Line "BTR" Black Removable Tape (Black Tape: for use only on Hot mix asphalt surfaces)

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Trelleborg Industries, RB-140
 (Black Tape: for use only on Hot mix asphalt surfaces)

# **Preformed Thermoplastic (Heated in place)**

- 1. Flint Trading Inc., "Hot Tape"
- 2. Flint Trading Inc., "Premark Plus"
- 3. Ennis Paint Inc., "Flametape"

# Ceramic Surfacing Laminate, 6" x 6"

1. Highway Ceramics, Inc.

# **CLASS 1 DELINEATORS**

# One Piece Driveable Flexible Type, 66-inch

- 1. Filtrona Extrusion, "Flexi-Guide Models 400 and 566"
- 2. Carsonite, Curve-Flex CFRM-400
- 3. Carsonite, Roadmarker CRM-375
- 4. FlexStake, Model 654 TM
- 5. GreenLine Model CGD1-66

# Special Use Type, 66-inch

- 1. Filtrona Extrusion, Model FG 560 (with 18-inch U-Channel base)
- 2. Carsonite, "Survivor" (with 18-inch U-Channel base)
- 3. Carsonite, Roadmarker CRM-375 (with 18-inch U-Channel base)
- 4. FlexStake, Model 604
- 5. GreenLine Model CGD (with 18-inch U-Channel base)
- 6. Impact Recovery Model D36, with #105 Driveable Base
- 7. Safe-Hit with 8-inch pavement anchor (SH248-GP1)
- 8. Safe-Hit with 15-inch soil anchor (SH248-GP2) and with 18-inch soil anchor (SH248-GP3)

# Surface Mount Type, 48-inch

- 1. Bent Manufacturing Company, Masterflex Model MF-180EX-48
- 2. Carsonite, "Channelizer"
- 3. FlexStake, Models 704, 754 TM, and EB4
- 4. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
- 5. Three D Traffic Works "Channelflex" ID No. 522248W

# CHANNELIZERS

# Surface Mount Type, 36-inch

- 1. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) and MF-180-36 (Flat)
- 2. Filtrona Extrusion, Flexi-Guide Models FG300PE, FG300UR, and FG300EFX
- 3. Carsonite, "Super Duck" (Round SDR-336)
- 4. Carsonite, Model SDCF03601MB "Channelizer"
- 5. FlexStake, Models 703, 753 TM, and EB3
- 6. GreenLine, Model SMD-36
- 7. Hi-way Safety, Inc. "Channel Guide Channelizer" Model CGC36
- 8. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
- 9. Safe-Hit, Guide Post, Model SH236SMA
- 10. Three D Traffic Works "Boomerang" ID No. 522053W

# Lane Separation System

- 1. Filtrona Extrusion, "Flexi-Guide (FG) 300 Curb System"
- 2. Qwick Kurb, "Klemmfix Guide System"
- 3. Dura-Curb System

### **CONICAL DELINEATORS, 42-inch**

(For 28-inch Traffic Cones, see Standard Specifications)

- 1. Bent Manufacturing Company "T-Top"
- 2. Plastic Safety Systems "Navigator-42"
- 3. TrafFix Devices "Grabber"
- 4. Three D Traffic Works "Ringtop" TD7000, ID No. 742143
- 5. Three D Traffic Works, TD7500

# **OBJECT MARKERS**

# Type "K", 18-inch

- 1. Filtrona Extrusion, Model FG318PE
- 2. Carsonite, Model SMD 615
- 3. FlexStake, Model 701 KM
- 4. Safe-Hit, Model SH718SMA

### Type "K-4" / "Q" Object Markers, 24-inch

- 1. Bent Manufacturing "Masterflex" Model MF-360-24
- 2. Filtrona Extrusion, Model FG324PE
- 3. Carsonite, "Channelizer"
- 4. FlexStake, Model 701KM
- 5. Safe-Hit, Models SH824SMA\_WA and SH824GP3\_WA
- 6. Three D Traffic Works ID No. 531702W and TD  $5\overline{200}$
- 7. Three D Traffic Works ID No. 520896W

# **CONCRETE BARRIER MARKERS AND**

# **TEMPORARY RAILING (TYPE K) REFLECTORS**

# Impactable Type

- 1. ARTUK, "FB"
- 2. Filtrona Extrusion, Models PCBM-12 and PCBM-T12
- 3. Duraflex Corp., "Flexx 2020" and "Electriflexx"
- 4. Hi-Way Safety, Inc., Model GMKRM100
- 5. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
- 6. Three D Traffic Works "Roadguide" Model TD 9304

# Non-Impactable Type

- 1. ARTUK, JD Series
- 2. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
- 3. Vega Molded Products, Models GBM and JD
- 4. Plastic Vacuum Forming, "Cap-It C400"

### METAL BEAM GUARD RAIL POST MARKERS

(For use to the left of traffic)

- 1. Filtrona Extrusion, "Mini" (3" x 10")
- 2. Creative Building Products, "Dura-Bull, Model 11201"
- 3. Duraflex Corp., "Railrider"
- 4. Plastic Vacuum Forming, "Cap-It C300"

### **CONCRETE BARRIER DELINEATORS, 16-inch**

(For use to the right of traffic)

- 1. Filtrona Extrusion, Model PCBM T-16
- 2. Safe-Hit, Model SH216RBM

# CONCRETE BARRIER-MOUNTED MINI-DRUM (10" x 14" x 22")

1. Stinson Equipment Company "SaddleMarker"

### **GUARD RAILING DELINEATOR**

(Place top of reflective element at 48 inches above plane of roadway)

# Wood Post Type, 27-inch

- 1. Filtrona Extrusion, FG 427 and FG 527
- 2. Carsonite, Model 427
- 3. FlexStake, Model 102 GR
- 4. GreenLine GRD 27
- 5. Safe-Hit, Model SH227GRD
- 6. Three D Traffic Works "Guardflex" TD9100
- 7. New Directions Mfg, NDM27

### **Steel Post Type**

1. Carsonite, Model CFGR-327

### **RETROREFLECTIVE SHEETING**

### **Channelizers, Barrier Markers, and Delineators**

- 1. Avery Dennison T-6500 Series (For rigid substrate devices only)
- 2. Avery Dennison WR-7100 Series
- 3. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- 4. Reflexite, PC-1000 Metalized Polycarbonate
- 5. Reflexite, AC-1000 Acrylic
- 6. Reflexite, AP-1000 Metalized Polyester
- 7. Reflexite, Conformalight, AR-1000 Abrasion Resistant Coating
- 8. 3M, High Intensity

### Traffic Cones, 4-inch and 6-inch Sleeves

- 1. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- 2. Reflexite, Vinyl, "TR" (Semi-transparent) or "Conformalight"
- 3. 3M Series 3840
- 4. Avery Dennison S-9000C

### Drums

- 1. Avery Dennison WR-6100
- 2. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- 3. Reflexite, "Conformalight", "Super High Intensity" or "High Impact Drum Sheeting"
- 4. 3M Series 3810

# Barricades: Type I, Medium-Intensity (Typically Enclosed Lens, Glass-Bead Element)

- 1. Nippon Carbide Industries, CN8117
- 2. Avery Dennison, W 1100 series
- 3. 3M Series CW 44

# Barricades: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Avery Dennison, W-2100 Series

# Signs: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

- 1. Avery Dennison, T-2500 Series
- 2. Nippon Carbide Industries, Nikkalite 18000

### Signs: Type III, High-Intensity (Typically Encapsulated Glass-Bead Element)

- 1. Avery Dennison, T-5500A and T-6500 Series
- 2. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
- 3. 3M 3870 and 3930 Series

# Signs: Type IV, High-Intensity (Typically Unmetallized Microprismatic Element)

- 1. Avery Dennison, T-6500 Series
- 2. Nippon Carbide Industries, Crystal Grade, 94000 Series
- 3. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
- 4. 3M Series 3930 and Series 3924S

### Signs: Type VI, Elastomeric (Roll-Up) High-Intensity, without Adhesive

- 1. Avery Dennison, WU-6014
- 2. Novabrite LLC, "Econobrite"
- 3. Reflexite "Vinyl"
- 4. Reflexite "SuperBright"
- 5. Reflexite "Marathon"
- 6. 3M Series RS20

### Signs: Type VII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

- 1. 3M Series 3924S, Fluorescent Orange
- 2. 3M LDP Series 3970

### Signs: Type VIII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

- 1. Avery Dennison, T-7500 Series
- 2. Avery Dennison, T-7511 Fluorescent Yellow
- 3. Avery Dennison, T-7513 Fluorescent Yellow Green
- 4. Avery Dennison, W-7514 Fluorescent Orange
- 5. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
- 6. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange

### Signs: Type IX, Very-High-Intensity (Typically Unmetallized Microprismatic Element)

- 1. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
- 2. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
- 3. 3M VIP Series 3990 Diamond Grade
- 4. Avery Dennison T-9500 Series
- 5. Avery Dennison, T9513, Fluorescent Yellow Green
- 6. Avery Dennison, W9514, Fluorescent Orange

# SPECIALTY SIGNS

1. Reflexite "Endurance" Work Zone Sign (with Semi-Rigid Plastic Substrate)

### ALTERNATIVE SIGN SUBSTRATES

### Fiberglass Reinforced Plastic (FRP) and Expanded Foam PVC

- 1. Fiber-Brite (FRP)
- 2. Sequentia, "Polyplate" (FRP)
- 3. Inteplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48-inch or less)(PVC)

### Aluminum Composite, Temporary Construction Signs Only

- 1. Alcan Composites "Dibond Material, 80 mils"
- 2. Mitsubishi Chemical America, Alpolic 350

# 8-1.03 ENGINEERING FABRICS

Engineering fabrics shall conform to the provisions in Section 88, "Geosynthetics," of the Amendments to the Standard Specifications and these special provisions.

Filter fabric for this project shall be ultraviolet (UV) ray protected.

The requirement that ultraviolet (UV) treated fabrics be submitted to the Transportation Laboratory at least 45 days prior to use shall not apply.

# SECTION 8-2. CONCRETE

# 8-2.01 PORTLAND CEMENT CONCRETE

Portland cement concrete shall conform to the provisions in Section 90, "Portland Cement Concrete," of the Standard Specifications and these special provisions.

Caltrans maintains a list of sources of fine and coarse aggregate that have been approved for use with a reduced amount of supplementary cementitious material in the total amount of cementitious material to be used. A source of aggregate will be considered for addition to the approved list if the producer of the aggregate submits to the Transportation Laboratory certified test results from a qualified testing laboratory that verify the aggregate complies with the requirements. Before the testing starts, the aggregate test shall be registered with Caltrans. A registration number can be obtained by calling (916) 227-7228. The registration number shall be used as the identification for the aggregate sample in correspondence with Caltrans. Upon request, a split of the tested sample shall be provided to Caltrans. Approval of aggregate will depend upon compliance with the specifications, based on the certified test results submitted, together with any replicate testing Caltrans may elect to perform. Approval will expire 3 years from the date the most recent registered and evaluated sample was collected from the aggregate source.

Qualified testing laboratories shall conform to the following requirements:

- 1. Laboratories performing ASTM Designation: C 1293 shall participate in the Cement and Concrete Reference Laboratory (CCRL) Concrete Proficiency Sample Program and shall have received a score of 3 or better on each test of the previous 2 sets of concrete samples.
- 2. Laboratories performing ASTM Designation: C 1260 shall participate in the Cement and Concrete Reference Laboratory (CCRL) Pozzolan Proficiency Sample Program and shall have received a score of 3 or better on the shrinkage and soundness tests of the previous 2 sets of pozzolan samples.

Aggregates on the list shall conform to one of the following requirements:

- 1. When the aggregate is tested in conformance with the requirements in California Test 554 and ASTM Designation: C 1293, the average expansion at one year shall be less than or equal to 0.040 percent; or
- 2. When the aggregate is tested in conformance with the requirements in California Test 554 and ASTM Designation: C 1260, the average of the expansion at 16 days shall be less than or equal to 0.15 percent.

If the aggregates used in the concrete are on the Caltrans' list, the minimum amount of supplementary cementitious material shall conform to the following:

- 1. If fly ash or natural pozzolan conforming to the provisions in Section 90-2.01C, "Required Use of Supplementary Cementitious Materials," of the Standard Specifications is used, the minimum amount of supplementary cementitious material shall be 15 percent by weight of the total cementitious material; or
- 2. If silica fume conforming to the provisions in Section 90-2.01C, "Required Use of Supplementary Cementitious Materials," of the Standard Specifications is used, the minimum amount of supplementary cementitious material shall be 7 percent by weight of the total cementitious material.

The limitation on tricalcium silicate (C<sub>3</sub>S) content in Type II cement specified in Section 90-2.01A, "Cement," of the Standard Specifications shall not apply.

### 8-2.02 FREEZING CONDITION REQUIREMENTS

Aggregates proposed for use in Portland Cement Concrete shall pass the freeze-thaw test, as specified in Section 90-2.02, "Aggregates," of the Standard Specifications and these special provisions.

A list of aggregate sources which have previously passed the freeze-thaw test is available at the Caltrans District 3 office at 703 "B" Street, Marysville, California 95901.

Contractor's attention is directed to the fact that California Test 528, "Test for Freeze-Thaw Resistance of Aggregates in Air-Entrained Concrete," does not include procedures that determine the compliance of the aggregates with the other requirements of the plans and specifications.

The mortar strength of fine aggregate relative to the mortar strength of Ottawa sand shall be a minimum of 100 percent as determined by California Test 515.

Portland cement concrete shall contain not less than 658 pounds of cementitious material per cubic yard unless a higher cementitious material content is specified in these special provisions.

An air-entraining admixture conforming to the provisions in Section 90-4, "Admixtures," of the Standard Specifications shall be added to the concrete at the rate required to result in an air content of  $6.0 \pm 1.5$  percent in the freshly mixed concrete, unless a different air content is specified in these special provisions. Air-entraining admixture is not required in concrete placed at least 2 feet below the adjacent undisturbed grade or at least 3 feet below compacted finished grade, if the concrete will not experience freezing conditions during construction.

### SECTION 9. DESCRIPTION OF BRIDGE WORK

The bridge work to be done consists, in general, of constructing a new bridge as shown on the plans, and briefly described as follows:

## GERLE CREEK BRIDGE BRIDGE No. 25C-0131

A single span pre-fabricated steel truss superstructure with reinforced concrete deck approximately 125 feet long and 16 feet wide supported on reinforced concrete seats founded on spead footings.

# SECTION 10. CONSTRUCTION DETAILS

## **SECTION 10-1. GENERAL**

### 10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

A first of order of work shall be to place the order for the pre-fabricated steel truss bridge. The submittal for the pre-fabricated bridge system shall conform to the requirements in the section "Pre-Fabricated Steel Truss Bridge" of these special provisions and be received by the Engineer within ten (10) working days from the date of the Notice of Award. Upon receipt of the pre-fabricated bridge system submittal, the Engineer shall review and approve or request a revised submittal no later than five (5) working days after the initial submittal. The Contractor shall remedy any and all required corrections within five (5) working days and re-submit for approval. After approval of the pre-fabricated bridge system submittal, the Engineer that the order for the pre-fabricated bridge system submittal, the Contractor shall furnish the Engineer with a statement from the manufacturer that the order for the pre-fabricated steel truss bridge has been received and accepted by the manufacturer. The Notice to Proceed will be issued once the Engineer determines the project site is clear of snow and preconstruction surveys are completed, at which point the contract working days will begin.

Contractor shall notify the County two weeks prior to the start of any construction activity so the County can arrange to have its biologist conduct a preconstruction survey of the Biological Study Area (BSA) for the Foothill Yellow-Legged Frog (FYLF) and other special-status species.

Prior to the beginning of any construction activity, Contractor shall delineate the boundaries of the Environmentally Sensitive Areas (ESA) in the field by the installation of temporary fence (Type ESA). Attention is directed to "Environmentally Sensitive Area" and "Temporary Fence (Type ESA)" of these special provisions. The County's biologist will conduct two separate preconstruction surveys of all suitable nesting habitat within 250 feet of the biological study area and/or 500 feet of the immediate construction areas. The first survey will occur no earlier than February 1<sup>st</sup>, and the second survey will occur no more than one week prior to start of construction.

# **10-1.02 WATER POLLUTION CONTROL**

# GENERAL

# Summary

Work activities must not disturb 1 or more acres of soil. Manage work activities to reduce the discharge of pollutants to surface waters, groundwater, or municipal separate storm sewer systems including the work item shown in the Proposal Pay Items and Bid Price Schedule for Prepare Water Pollution Control Program. WPCP preparation includes obtaining WPCP approval, amending the WPCP, and monitoring and inspecting WPC practices at the job site.

Do not start work until:

- 1. WPCP is accepted
- 2. WPCP review requirements have been fulfilled. If the RWQCB requires time for WPCP review, allow 30 days for the RWQCB to review the WPCP as specified under "Submittals" of these special provisions.

### **Definitions and Abbreviations**

active and inactive areas: (1) Active areas have soil disturbing work activities occurring at least once within 14 days, and (2) Inactive areas are areas that have not been disturbed for at least 15 days.

BMPs: Best Management Practices are water pollution control practices.

**construction phase:** Construction phases are (1) Highway Construction including work activities for building roads and structures, (2) Plant Establishment including maintenance on vegetation installed for final stabilization, and (3) Suspension where work activities are suspended and areas are inactive.

**Preparation Manual:** Caltrans "Storm Water Pollution Prevention Plan and Water Pollution Control Program Preparation Manual."

**NPDES:** National Pollutant Discharge Elimination System.

**NOI:** Notice of Intent.

**QSD:** Qualified SWPPP Developer.

**QSP:** Qualified SWPPP Practitioner.

**RWQCB:** Regional Water Quality Control Board.

**SWPPP:** Storm Water Pollution Prevention Plan.

**SWRCB:** State Water Resources Control Board.

**WPC:** Water Pollution Control.

**WPC Manager:** Water Pollution Control Manager. The WPC Manager implements water pollution control work described in the WPCP and oversees revisions and amendments to the WPCP.

WPCP: Water Pollution Control Program.

# Submittals

Within 7 days after contract approval, start the following process for WPCP acceptance:

- 1. Submit 2 copies of the WPCP and allow 15 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped.
- 2. Change and resubmit the WPCP within 7 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete WPCP is resubmitted.
- 3. When the Engineer accepts the WPCP, submit an electronic copy and 3 printed copies of the accepted WPCP.

# Submit:

- 1. Stormwater training records including training dates and subject for employees and subcontractors. Include dates and subject for ongoing training, including tailgate meetings.
- 2. Employee training records:
  - 2.1. Within 5 days of WPCP acceptance for existing employees
  - 2.2. Within 5 days of training for new employees
  - 2.3. At least 5 days before subcontractors start work for subcontractor's employees

Submit as required:

- 1. BMP Status Report
- 2. Inspection Reports

At least 5 days before operating any construction support facility, submit:

- 1. A plan showing the location and quantity of WPC practices associated with the construction support facility
- 2. A copy of the NOI approved by the RWQCB and the WPCP approved by the RWQCB if you will be operating a batch plant or a crushing plant under the General Industrial Permit

# **Quality Control and Assurance**

# Training

Provide storm water training for:

- 1. Project managers
- 2. Supervisory personnel
- 3. Employees involved with WPC work

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

- 1. WPC rules and regulations
- 2. Implementation and maintenance for:
  - 2.1. Temporary Soil Stabilization
  - 2.2. Temporary Sediment Control
  - 2.3. Tracking Control
  - 2.4. Wind Erosion Control
  - 2.5. Material pollution prevention and control
  - 2.6. Waste management
  - 2.7. Non-storm water management
  - 2.8. Identifying and handling hazardous substances
  - 2.9. Potential dangers to humans and the environment from spills and leaks or exposure to toxic or hazardous substances

Employees must receive initial WPC training before working on the project.

Conduct weekly training meetings covering:

- 1. WPC BMP deficiencies and corrective actions
- 2. BMPs that are required for work activities during the week
- 3. Spill prevention and control
- 4. Material delivery, storage, use, and disposal
- 5. Waste management
- 6. Non-storm water management procedures

You may obtain copies of the Preparation Manual from the Caltrans Publication Distribution Unit. The mailing address for the Publication Distribution Unit is:

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 WPC references are available at the Caltrans "Construction Storm Water and Water Pollution Control" Web site. For the Web site, go to:

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

If you operate construction support facilities, protect storm water systems or receiving waters from the discharge of potential pollutants by using WPC practices.

Construction support facilities include:

- 1. Staging areas
- 2. Storage yards for equipment and materials
- 3. Mobile operations
- 4. Batch plants for PCC and HMA
- 5. Crushing plants for rock and aggregate
- 6. Other facilities installed for your convenience such as haul roads

If you operate a batch plant to manufacture PCC, HMA, or other material; or a crushing plant to produce rock or aggregate; obtain coverage under the General Industrial Permit. You must be covered under the General Industrial Permit for batch plants and crushing plants located:

- 1. Outside of the job site
- 2. Within the job site that serve one or more contracts

Discharges from manufacturing facilities such as batch plants must comply with the general waste discharge requirements for Order No. 97-03-DWQ, NPDES General Permit No. CAS000001, issued by the SWRCB for "Discharge of Stormwater Associated with Industrial Activities Excluding Construction Activities." For the General Industrial Permit, go to:

http://www.waterboards.ca.gov/

### Water Pollution Control Manager

Assign one WPC Manager to implement the WPCP. You may assign a different QSP to prepare the WPCP.

The WPC Manager must comply with the Permit (Order No. 2009-0009-DWQ, NPDES No. CAS000002) for a QSP by having at least one of the following qualifications:

- 1. Certified Erosion, Sediment and Storm Water Inspector (CESSWI)<sup>™</sup> registered through Enviro Cert International, Inc.
- 2. Certified Inspector of Sediment and Erosion Control (CISEC) registered through CISEC, Inc.
- 3. Qualifications described in the Permit for a QSD
- 4. Caltrans approved storm water management training described in the Caltrans' "Construction Storm Water and Water Pollution Control" Web site

At the job site, the WPC Manager must:

1. Be responsible for WPC work

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- 2. Be the primary contact for WPC work
- 3. Oversee the maintenance of WPC practices
- 4. Oversee and enforce hazardous waste management practices
- 5. Have the authority to mobilize crews to make immediate repairs to WPC practices
- 6. Ensure that all employees have current water pollution control training
- 7. Implement the accepted WPCP and amend the WPCP when required

WPC Manager must oversee:

- 1. Inspections of WPC practices identified in the WPCP
- 2. Inspections for visual monitoring

# WATER POLLUTION CONTROL PROGRAM

WPCP work includes preparing a WPCP, obtaining WPCP acceptance, amending the WPCP, and reporting on WPC practices at the job site. The WPCP must comply with the Preparation Manual. The WPCP is required by the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications.

You may request, or the Engineer may order, changes to the WPC work. Changes may include the addition of new WPC practices. Additional WPC work will be paid for as extra work under Section 4-1.03D, "Extra Work," of the Standard Specifications.

The WPCP must include WPC practices:

- 1. For storm water and non-stormwater from areas outside of the job site related to project work activities such as:
  - 1.1. Staging areas
  - 1.2. Storage yards
  - 1.3. Access roads
- 2. For activities or mobile operations related to contractor obtained NPDES permits
- 3. Construction support facilities

The WPCP must include a copy of the California Department of Fish and Game Streambed Alteration Agreement.

### WPCP Amendments

You must amend the WPCP when:

- 1. Changes in work activities could affect the discharge of pollutants
- 2. WPC practices are added by change order work
- 3. WPC practices are added at your discretion

If you amend the WPCP, follow the same process specified for WPCP acceptance.

Retain a printed copy of the accepted WPCP at the job site.

# WPCP Schedule

The WPCP schedule must:

- 1. Describe when work activities will be performed that could cause the discharge of pollutants in storm water
- 2. Describe WPC practices associated with each construction phase
- 3. Identify soil stabilization and sediment control practices for disturbed soil areas

# IMPLEMENTATION REQUIREMENTS

# WPCP Implementation

Monitor the National Weather Service Forecast Office on a daily basis. For forecasts, go to:

#### http://www.srh.noaa.gov/forecast

Whenever you or the Engineer identifies a deficiency in the implementation of the accepted WPCP:

- 1. Correct the deficiency immediately, unless the Engineer agrees to a later date for making the correction
- 2. Correct the deficiency before precipitation occurs

If you fail 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 the deficiency from payment.

If the Engineer determines that resources sufficient to bring the Contractor into compliance with this section "Water Pollution Control" have not been allocated, the Engineer may redirect any and all of Contractor's resources available at the project site toward this effort. In the event that the Engineer redirects resources due to Contractor's non-compliance with the provisions of this section, "Water Pollution Control", the County will not be responsible for any delays to the Contractor's schedule resulting from the reallocation, and no compensation shall made therefor.

Continue WPCP implementation during any temporary suspension of work activities.

Install WPC practices when an area is inactive or before predicted precipitation, whichever occurs first.

If actions for your convenience disturb 1 or more acres of soil, you must pay all costs and be responsible for all delays associated with submitting a SWPPP.

### Inspection

The WPC Manager must oversee inspections for WPC practices identified in the WPCP:

- 1. Before a forecasted storm
- 2. After precipitation that causes site runoff
- 3. At 24-hour intervals during extended precipitation
- 4. On a predetermined schedule, a minimum of once a week

The WPC Manager must oversee daily inspections of:

- 1. Storage areas for hazardous materials and waste
- 2. Hazardous waste disposal and transporting activities
- 3. Hazardous material delivery and storage activities
- 4. WPC practices specified under "Construction Site Management" of these special provisions

The WPC Manager must use the Storm Water Site Inspection Report provided in the Caltrans Preparation Manual.

The WPC Manager must prepare BMP status reports that include the following:

- 1. Location and quantity of installed WPC practices
- 2. Location and quantity of disturbed soil for the active or inactive areas

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

- 1. Copy of the completed site inspection report
- 2. Copy of the BMP status report

### **Reporting Requirements**

If the following occur, notify the Engineer within 6 hours:

- 1. You identify discharges into receiving waters or drainage systems causing or potentially causing pollution
- 2. The project receives a written notice or order from a regulatory agency

No later than 48 hours after the conclusion of a storm event resulting in a discharge, a non-stormwater discharge, or receiving the notice or order, submit:

- 1. Date, time, location, and nature of the activity, type of discharge and quantity, and the cause of the notice or order
- 2. WPC practices used before the discharge, or before receiving the notice or order
- 3. Description of WPC practices and corrective actions taken to manage the discharge or cause of the notice

## PAYMENT

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

Payments for WPCP are made as follows:

- 1. After the Engineer accepts the WPCP, the Department includes up to 75 percent of the bid item price in the monthly progress estimate
- 2. The Department pays for the remaining percentage of the bid item price in the Proposed Final Estimate.

The Department does not pay for implementation of WPC practices in areas outside the highway right-of-way not specifically provided for in the drawings or in the special provisions.

The Department does not pay for WPC practices installed at your construction support facilities.

The contract lump sum price paid for water pollution control includes full compensation for furnishing all labor, tools, materials, equipment, and incidentals and for doing all work involved in installing, maintaining, and removing water pollution control measures necessary to comply with the permits and these special provisions. Special provisions for every water pollution control measure have not been included in these Contract Documents. Contractor shall anticipate the specific measures that will be required, including measures to control runoff into the creek during summer thunderstorms, and include such measures in its WPCP and its bid for water pollution control.

# 10-1.03 CONSTRUCTION SITE MANAGEMENT

### GENERAL

#### Summary

This work includes controlling potential sources of water pollution before they come in contact with storm water systems or watercourses.

Control material pollution and manage waste and non-stormwater at the job site by implementing effective handling, storage, use, and disposal practices.

For information on documents specified in these special provisions, refer to the Caltrans Preparation Manual, Dewatering Guide, and BMP Manual.

Preparation Manual, Dewatering Guide, and BMP Manual are available from the Caltrans Construction Storm Water and Water Pollution Control web site at:

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

#### **Definitions and Abbreviations**

**active and inactive areas:** (1) Active areas have soil disturbing work activities occurring at least once within 14 days, and (2) Inactive areas are areas that have not been disturbed for at least 15 days.

BMP Manual: Caltrans Construction Site Best Management Practices (BMP) Manual.

**CDPH:** California Department of Public Health

Dewatering Guide: Caltrans' Field Guide to Construction Site Dewatering.

**ELAP:** Environmental Laboratory Accreditation Program

**minor spills:** Small quantities of oil, gasoline, paint, or other material that are small enough to be controlled by a first responder upon discovery of the spill.

MSDS: Material Safety Data Sheet

**Preparation Manual:** Caltrans Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual.

semi-significant spills: Spills that can be controlled by a first responder with help from other personnel.

significant or hazardous spills: Spills that cannot be controlled by construction personnel.

**WPC:** Water Pollution Control

**WPC Manager:** Water Pollution Control Manager as defined under "Water Pollution Control" of these special provisions.

# Submittals

Submit the following:

- 1. MSDS at least 5 days before material is used or stored
- 2. Monthly inventory records for material used or stored
- 3. Copy of written approval to discharge into a sanitary sewer system at least 5 days before beginning discharge activities

# **Quality Control and Assurance**

Not Used

# MATERIALS

Not Used

# CONSTRUCTION

### **Spill Prevention and Control**

Implement spill and leak prevention procedures for chemicals and hazardous substances stored at the job site. If you spill or leak chemicals or hazardous substances at the job site, you are responsible for all associated cleanup costs and related liability.

As soon as it is safe, contain and clean up spills of petroleum products, sanitary and septic waste substances listed under CFR Title 40, Parts 110, 117, and 302.

# **Minor Spills**

Clean up minor spills using the following procedures:

- 1. Contain the spread of the spill
- 2. Recover the spilled material by absorption
- 3. Clean the contaminated area
- 4. Dispose of the contaminated material promptly and properly

# Semi-significant Spills

Clean up semi-significant spills immediately by the following procedures:

- 1. Contain the spread of the spill
- 2. Recover the spilled material using absorption whenever a spill occurs on a paved surface or an impermeable surface
- 3. Contain the spill with an earthen dike and dig up the contaminated soil for disposal whenever a spill occurs on soil
- 4. If the spill occurs during precipitation, cover the spill with plastic or other material to prevent contaminated runoff
- 5. Dispose of the contaminated material promptly and properly

## Significant or Hazardous Spills

Immediately notify qualified personnel of significant or hazardous spills. Do not let construction personnel attempt to clean up the spill until qualified staff have arrived. Do the following:

- 1. Notify the Engineer and follow up with a written report
- 2. Obtain the services of a spills contractor or hazardous material team immediately
- 3. Notify the local emergency response team by dialing 911 and county officials at the emergency phone numbers kept at the job site
- 4. Notify the Governor's Office of Emergency Services Warning Center at (805) 852-7550
- 5. Notify the National Response Center at (800) 424-8802 regarding spills of Federal reportable quantities under CFR Title 40, Parts 110, 119, and 302
- 6. Notify other agencies as appropriate, including:
  - 6.1. Fire Department
  - 6.2. Public Works Department
  - 6.3. Coast Guard
  - 6.4. Highway Patrol
  - 6.5. City Police or County Sheriff Department
  - 6.6. Department of Toxic Substances
  - 6.7. California Division of Oil and Gas
  - 6.8. Cal OSHA
  - 6.9. Regional Water Resources Control Board

Report minor, semi-significant, and significant spills to the WPC Manager. The WPC Manager must notify the Engineer immediately. The WPC Manager must oversee and enforce proper spill prevention and control measures.

Prevent spills from entering storm water runoff before and during cleanup. Do not bury spills or wash spills with water.

Keep material or waste storage areas clean, well organized, and equipped with enough cleanup supplies for the material being stored.

### **Material Management**

### General

Material must be delivered, used, and stored for this job in a way that minimizes or eliminates discharge of material into the air, storm drain systems, and watercourses.

Implement the practices described under "Material Management" of these special provisions while taking delivery of, using, or storing any of the following materials:

- 1. Hazardous chemicals including acids, lime, glues, adhesives, paints, solvents, and curing compounds
- 2. Soil stabilizers and binders
- 3. Fertilizers
- 4. Detergents
- 5. Plaster
- 6. Petroleum materials including fuel, oil, and grease
- 7. Asphalt components and concrete components
- 8. Pesticides and herbicides

Employees trained in emergency spill cleanup procedures must be present during the unloading of hazardous materials or chemicals.

If practicable, use less hazardous materials.

### **Material Storage**

Use the following material storage procedures:

- 1. Store liquids, petroleum materials, and substances listed in CFR Title 40, Parts 110, 117, and 302 as specified by the Department, and place them in secondary containment facilities.
- 2. Secondary containment facilities must be impervious to the materials stored there for a minimum contact time of 72 hours.
- 3. Cover secondary containment facilities during non-working days and when precipitation is predicted. Secondary containment facilities must be adequately ventilated.
- 4. Keep secondary containment facility free of accumulated rainwater or spills. After precipitation, or in the event of spills or leaks, collect accumulated liquid and place into drums within 24 hours. Handle these liquids as hazardous waste under "Hazardous Waste" of these special provisions unless testing determines them to be nonhazardous.
- 5. Do not store incompatible materials, such as chlorine and ammonia, in the same secondary containment facility.
- 6. Store materials in the original containers with the original material labels maintained in legible condition. Replace damaged or illegible labels immediately.
- 7. Secondary containment facilities must have the capacity to contain precipitation from a 24-hour-long, 25-year storm, and 10 percent of the aggregate volume of all containers, or entire volume of the largest container within the facility, whichever is greater.
- 8. Store bagged or boxed material on pallets. Protect bagged or boxed material from wind and rain during nonworking days and while precipitation is predicted.
- 9. Provide sufficient separation between stored containers to allow for spill cleanup or emergency response access. Storage areas must be kept clean, well organized, and equipped with cleanup supplies appropriate for the materials being stored.
- 10. Repair or replace perimeter controls, containment structures, covers, and liners as necessary. Inspect storage areas before and after precipitation, and at least weekly during other times.

### Stockpile Management

Use the following stockpile management procedures:

- 1. Reduce or eliminate potential water pollution from stockpiled material including soil, paving material, and pressure treated wood.
- 2. Locate stockpiles:
  - 2.1. If within the floodplain, at least 100 feet from concentrated flows of storm water, drainage courses, and inlets unless approved
  - 2.2. If outside the floodplain, at least 50 feet from concentrated flows of storm water, drainage courses, and inlets unless approved

Install WPC practices when a stockpile area is inactive or before predicted precipitation, whichever occurs first.

Active and inactive soil stockpiles must be:

1. Covered with soil stabilization measures, plastic sheeting, or geosynthetic fabric

2. Surrounded with a linear sediment barrier

Portland cement concrete rubble, AC, HMA, AC and HMA rubble, aggregate base or aggregate sub-base stockpiles must be:

- 1. Covered with plastic sheeting, or geosynthetic fabric
- 2. Surrounded with a linear sediment barrier

Pressure treated wood stockpiles must be:

- 1. Placed on pallets
- 2. Covered with impermeable material

Cold mix asphalt concrete stockpiles must be:

- 1. Placed on impervious surface
- 2. Covered with impermeable material

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### 3. Protected from run-on and runoff

Control wind erosion year round under Section 10, "Dust Control" of the Standard Specifications.

Repair or replace linear sediment barriers and covers as needed to keep them functioning properly. If sediment accumulates to 1/3 of the linear sediment barrier height, remove the sediment.

### Waste Management

### Solid Waste

Do not allow litter or debris to accumulate anywhere at the job site, including storm drain grates, trash racks, and ditch lines. Pick up and remove trash and debris from the job site at least once a week. The WPC Manager must monitor solid waste storage and disposal procedures at the job site.

If practicable, recycle nonhazardous job site waste and excess material. If recycling is not practicable, disposal must comply with Section 7-1.13, "Disposal of Material Outside the Highway Right of Way" of the Standard Specifications.

Furnish enough closed-lid dumpsters of sufficient size to contain any solid waste generated by work activities. When the refuse reaches the fill line, empty the dumpsters. Dumpsters must be watertight. Do not wash out dumpsters at the job site. Furnish additional containers and pick up dumpsters more frequent during the demolition phase of construction.

Solid waste includes:

- 1. Brick
- 2. Mortar
- 3. Timber
- 4. Metal scraps
- 5. Sawdust
- 6. Pipe
- 7. Electrical cuttings
- 8. Non-hazardous equipment parts
- 9. Styrofoam and other packaging materials
- 10. Vegetative material and plant containers from highway planting
- 11. Litter and smoking material, including litter generated randomly by the public
- 12. Other trash and debris

Furnish and use trash receptacles at the job site yard, field trailers, and locations where workers gather for lunch and breaks.

### **Hazardous Waste**

Use hazardous waste management practices if waste is generated at the job site from the following substances:

- 1. Petroleum products
- 2. Asphalt products
- 3. Concrete curing compound
- 4. Pesticides
- 5. Acids
- 6. Paints
- 7. Stains
- 8. Solvents
- 9. Wood preservatives and treated posts
- 10. Roofing tar
- 11. Road flares
- 12. Lime
- 13. Glues and adhesives
- 14. Materials classified as hazardous by California Code of Regulations, Title 22, Division 4.5; or listed in CFR Title 40, Parts 110, 117, 261, or 302

The WPC Manager must oversee and enforce hazardous waste management practices. Minimize the production of hazardous materials and hazardous waste at the job site. If damaged, repair or replace perimeter controls, containment structures, and covers.

If hazardous material levels are unknown, use a laboratory certified by ELAP under CDPH to sample and test waste to determine safe methods for storage and disposal.

Separate potentially hazardous waste from nonhazardous waste at the job site. Hazardous waste must be handled, stored, and disposed of under California Code of Regulations, Title 22, Division 4.5, Section 66262.34; and in CFR Title 49, Parts 261, 262, and 263.

Store hazardous waste in sealed containers constructed and labeled with the contents and date accumulated under California Code of Regulations, Title 22, Division 4.5; and in CFR Title 49, Parts 172, 173, 178, and 179. Keep hazardous waste containers in temporary containment facilities under "Material Storage" of these special provisions.

Furnish containers with adequate storage volume at convenient locations for hazardous waste collection. Do not overfill hazardous waste containers. Do not mix hazardous waste. Do not allow potentially hazardous waste to accumulate on the ground. Store containers of dry waste that are not watertight on pallets. Store hazardous waste away from storm drains, watercourses, moving vehicles, and equipment.

Clean water based or oil based paint from brushes or equipment within a contained area and in a way that does not contaminate soil, watercourses, and storm drain systems. Handle and dispose of the following as hazardous waste: paints, thinners, solvents, residues, and sludges that cannot be recycled or reused. When thoroughly dry, dispose of the following as solid waste: dry, latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths.

Dispose of hazardous waste within 90 days of being generated. Use a licensed hazardous waste transporter to take hazardous waste to a Class I Disposal Site. Submit a copy of uniform hazardous waste manifest forms within 24 hours of transporting hazardous waste.

The WPC Manager must inspect the following daily:

- 1. Storage areas for hazardous materials and waste
- 2. Hazardous waste disposal and transporting activities
- 3. Hazardous material delivery and storage activities

### **Contaminated Soil**

Identify contaminated soil from spills or leaks by noticing discoloration, odors, or differences in soil properties. Soil with evidence of contamination must be sampled and tested by a laboratory certified by ELAP.

If levels of contamination are found to be hazardous, handle and dispose of the soil as hazardous waste.

Prevent the flow of water, including ground water, from mixing with contaminated soil by using one or a combination of the following measures:

- 1. Berms
- 2. Cofferdams
- 3. Grout curtains
- 4. Freeze walls
- 5. Concrete seal course

If water mixes with contaminated soil and becomes contaminated, sample and test the water using a laboratory certified by ELAP. If levels of contamination are found to be hazardous, handle and dispose of the water as hazardous waste.

#### **Concrete Waste**

Use practices that will prevent the discharge of portland cement concrete, AC, or HMA waste into storm drain systems or watercourses.

Collect and dispose of portland cement concrete, AC, or HMA waste at locations where:

- 1. Concrete material, including grout, is used
- 2. Concrete dust and debris result from demolition
- 3. Sawcutting, coring, grinding, grooving, or hydro-concrete demolition of portland cement concrete, AC, or HMA creates a residue or slurry
- 4. Concrete truck or other concrete-coated equipment is cleaned at the job site

### Sanitary and Septic Waste

Do not bury or discharge wastewater from sanitary or septic systems within Department right-of-way. The WPC Manager must inspect sanitary or septic waste storage and monitor disposal procedures at least weekly. Sanitary facilities that discharge to the sanitary sewer system must be properly connected and free from leaks. Place sanitary facilities at least 50 feet away from storm drains, watercourses, and flow lines.

Obtain written approval from the local health agency, city, county, and sewer district before discharging from a sanitary or septic system directly into a sanitary sewer system, and submit a copy to the Engineer. Comply with local health agency provisions while using an on-site disposal system.

### Liquid Waste

Use practices that will prevent job site liquid waste from entering storm drain systems or watercourses. Liquid waste includes the following:

- 1. Drilling slurries or fluids
- 2. Grease-free or oil-free wastewater or rinse water
- 3. Dredgings, including liquid waste from drainage system cleaning
- 4. Liquid waste running off a surface including wash or rinse water
- 5. Other non-stormwater liquids not covered by separate permits

Hold liquid waste in structurally sound, leak proof containers such as:

- 1. Roll-off bins
- 2. Portable tanks

Liquid waste containers must be of sufficient quantity and volume to prevent overflow, spills and leaks.

Store containers:

- 1. At least 50 feet from moving vehicles and equipment
- 2. If within the floodplain, at least 100 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved
- 3. If outside the floodplain, at least 50 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved

Remove and dispose of deposited solids from sediment traps under "Solid Waste" of these special provisions unless the Engineer approves another method.

Liquid waste may require testing to determine hazardous material content before disposal.

Drilling fluids and residue must be disposed of outside the highway right-of-way.

If an approved location is available within the job site, fluids and residue exempt under California Code of Regulations, Title 23, Section 2511(g) may be dried by evaporation in a leak proof container. Dispose of remaining solid waste under "Solid Waste" of these special provisions.

### Non-Storm Water Management

### Water Control and Conservation

Manage water used for work activities to prevent erosion or discharge of pollutants into storm drain systems or watercourses. Obtain approval before washing anything at the job site with water that could discharge into a storm drain system or watercourse. Report discharges immediately.

If water is used at the job site, implement water conservation practices. Inspect irrigation areas. Adjust watering schedules to prevent erosion, excess watering, or runoff. Shut off water source to broken lines, sprinklers, or valves, and repair breaks within 24 hours. If possible, reuse water from waterline flushing for landscape irrigation. Sweep and vacuum paved areas; do not wash them with water.

Direct job site water runoff, including water from water line repair, to areas where it can infiltrate into the ground and not enter storm drain systems or watercourses. Do not allow spilled water to escape water truck filling areas. If possible, direct water from off-site sources around the job site. Minimize the contact of off-site water with job site water.

### **Illegal Connection and Discharge Detection and Reporting**

Inspect the job site and the site perimeter before starting work for evidence of illegal connections, discharges, or dumping. After starting work, inspect the job site and perimeter on a daily schedule.

Whenever illegal connections, discharges, or dumping are discovered, notify the Engineer immediately. Take no further action unless ordered by the Engineer. Assume unlabeled or unidentifiable material is hazardous.

Look for the following evidence of illegal connections, discharges, or dumping:

- 1. Debris or trash piles
- 2. Staining or discoloration on pavement or soils
- 3. Pungent odors coming from drainage systems
- 4. Discoloration or oily sheen on water
- 5. Stains or residue in ditches, channels or drain boxes
- 6. Abnormal water flow during dry weather
- 7. Excessive sediment deposits
- 8. Nonstandard drainage junction structures
- 9. Broken concrete or other disturbances near junction structures

# Vehicle and Equipment Cleaning

Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. Notify the Engineer before cleaning vehicles and equipment at the job site with soap, solvents, or steam. Contain and recycle or dispose of resulting waste under "Liquid Waste" or "Hazardous Waste" of these special provisions, whichever is applicable. Do not use diesel to clean vehicles or equipment, and minimize the use of solvents.

Clean or wash vehicles and equipment in a structure equipped with disposal facilities. If using a structure is not possible, clean or wash vehicles and equipment in an outside area. The outside area must be:

- 1. Paved with AC, HMA, or concrete paving
- 2. Surrounded by a containment berm
- 3. Equipped with a sump to collect and dispose of wash water
- 4. If within the floodplain, located at least 100 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved
- 5. If outside the floodplain, located at least 50 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved

When washing vehicles or equipment with water, use as little water as possible. Hoses must be equipped with a positive shutoff valve.

Discharge liquid from wash racks to a recycle system or to another approved system. Remove liquids and sediment as necessary.

The WPC Manager must inspect vehicle and equipment cleaning facilities:

- 1. Daily if vehicle and equipment cleaning occurs daily
- 2. Weekly if vehicle and equipment cleaning does not occur daily

### Vehicle and Equipment Fueling and Maintenance

If practicable, perform maintenance on vehicles and equipment off the job site.

If fueling or maintenance must be done at the job site, designate a site, or sites, and obtain approval before using. Minimize mobile fueling or maintenance.

If vehicle and equipment fueling and maintenance must be done at the job site, areas for the following activities must be:

- 1. On level ground
- 2. Protected from storm water run-on
- 3. If within the floodplain, located at least 100 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved
- 4. If outside the floodplain, located at least 50 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved

Use containment berms or dikes around the fueling and maintenance area. Keep adequate quantities of absorbent spill cleanup material and spill kits in the fueling and maintenance area and on fueling trucks. Dispose of spill cleanup material and kits immediately after use. Use drip pans or absorbent pads during fueling or maintenance.

Fueling or maintenance activities must not be left unattended. Fueling nozzles must be equipped with an automatic shutoff control. Vapor recovery fueling nozzles must be used where required by the Air Quality Management District. When not in use, nozzles must be secured upright. Do not top-off fuel tanks.

Recycle or properly dispose of used batteries and tires.

The WPC Manager must inspect vehicle and equipment maintenance and fueling areas:

- 1. Daily when vehicle and equipment maintenance and fueling occurs daily
- 2. Weekly when vehicle and equipment maintenance and fueling does not occur daily

The WPC Manager must inspect vehicles and equipment at the job site for leaks and spills on a daily schedule. Operators must inspect vehicles and equipment each day of use.

If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.

### Material and Equipment Used Over Water

Place drip pans and absorbent pads under vehicles or equipment used over water. Keep an adequate supply of spill cleanup material with the vehicle or equipment. If the vehicle or equipment will be idle for more than one hour, place drip pans or plastic sheeting under the vehicle or equipment on docks, barges, or other surfaces over water.

Furnish watertight curbs or toe boards on barges, platforms, docks, or other surfaces over water to contain material, debris, and tools. Secure material to prevent spills or discharge into water due to wind. Furnish positive barrier to protect creek during placement of concrete deck on bridge.

#### Structure Removal Over or Adjacent to Water

Do not allow demolished material to enter storm water systems or watercourses. Use approved covers and platforms to collect debris. Use attachments on equipment to catch debris on small demolition activities. Empty debris catching devices daily and handle debris under "Waste Management" of these special provisions.

The WPC Manager must inspect demolition sites within 50 feet of storm water systems or watercourses daily.

## Paving, Sealing, Sawcutting, Grooving, and Grinding Activities

Prevent the following materials from entering storm drain systems or water courses:

- 1. Cementitious material
- 2. Asphaltic material
- 3. Aggregate or screenings
- 4. Grinding, grooving, or sawcutting residue
- 5. Pavement chunks
- 6. Shoulder backing
- 7. Methacrylate

Cover drainage inlets and use linear sediment barriers to protect downhill watercourses until paving, sealing, sawcutting, grooving, or grinding activities are completed and excess material has been removed. Cover drainage inlets and manholes during the application of seal coat, tack coat, slurry seal, or fog seal.

If precipitation is predicted, limit paving, sawcutting, and grinding to places where runoff can be captured.

Do not start seal coat, tack coat, slurry seal, or fog seal activities if precipitation is predicted during the application or curing period. Do not excavate material from existing roadways during precipitation.

Use a vacuum to remove slurry immediately after slurry is produced. Do not allow slurry to run onto lanes open to traffic or off the pavement.

Collect residue from portland cement concrete grinding and grooving activities with a vacuum attachment on the grinding machine. Do not leave any residue on the pavement or allow the residue to flow across the pavement.

If approved, material excavated from existing roadways may be stockpiled under "Stockpile Management" of these special provisions.

Do not coat asphalt trucks and equipment with substances that contain soap, foaming agents, or toxic chemicals.

When paving equipment is not in use, park over drip pans or plastic sheeting with absorbent material to catch drips.

### **Thermoplastic Striping and Pavement Markers**

Thermoplastic striping and preheating equipment shutoff valves must work properly at all times. Do not preheat, transfer, or load thermoplastic within 50 feet of drainage inlets or watercourses. Do not fill a preheating container above a level that is 6 inches below the top. Truck beds must be cleaned daily of scraps or melted thermoplastic.

Do not unload, transfer, or load bituminous material for pavement markers within 50 feet of drainage inlets or watercourses. Release all pressure from a melting tank before removing the lid to fill or service. Do not fill a melting tank above a level that is 6 inches below the top.

Collect bituminous material from the roadway after marker removal.

### **Pile Driving**

Keep spill kits and cleanup material at pile driving locations. Pile driving equipment must be parked over drip pans, absorbent pads, or plastic sheeting with absorbent material. If precipitation is predicted, protect pile driving equipment by parking on plywood and covering with plastic.

Store pile driving equipment when not in use. Stored pile driving equipment must be:

- 1. Kept on level ground
- 2. Protected from storm water run-on
- 3. If within the floodplain, at least 100 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved
- 4. If outside the floodplain, at least 50 feet from concentrated flows of storm water, drainage courses, watercourses, and storm drain inlets unless approved

If practicable, use vegetable oil instead of hydraulic fluid.

The WPC Manager must inspect the pile driving area for leaks and spills:

- 1. Daily when pile driving occurs daily
- 2. Weekly when pile driving does not occur daily

## **Concrete Curing**

Do not overspray chemical curing compound. Minimize the drift by spraying as close to the concrete as possible. Cover drainage inlets before applying the curing compound.

Minimize the use and discharge of water by using wet blankets or similar methods to maintain moisture while curing concrete.

### **Concrete Finishing**

Collect and dispose of water and solid waste from high-pressure water blasting. Cover drainage inlets within 50 feet before sandblasting. Minimize drift of dust and blast material by keeping the nozzle close to the surface of the concrete. The blast residue may contain hazardous material.

Inspect concrete finishing containment structures for damage before each day of use and before predicted precipitation. Remove liquid and solid waste from containment structures after each work shift.

### Sweeping

Sweeping must be done using hand or mechanical methods such as vacuuming.

Monitor paved areas and roadways within the job site for sediment and debris generating activities such as:

- 1. Clearing and grubbing
- 2. Earthwork
- 3. Trenching
- 4. Roadway structural section work
- 5. Vehicles entering and leaving the job site
- 6. Soil disturbing work
- 7. Work that causes offsite tracking of material

If sediment or debris is observed, perform sweeping:

- 1. Within:
  - 1.1. 8 hours of predicted rain
  - 1.2 1 hour if sediment or debris is observed during activities that requires sweeping
  - 1.3. 24 hours, if sediment and debris is observed during activities that do not require sweeping
- 2. On paved roads at job site entrances and exit locations
- 3. On paved areas within the job site that flow to storm drains or receiving waters

You may stockpile collected material at the job site according to the accepted SWPPP. Remove collected material including sediment from paved shoulders, drain inlets, curbs and dikes, and other drainage areas. If stockpiled, dispose of collected material at least once per week.

You may dispose of sediment within the job site that you collected during sweeping activities. Protect disposal areas against erosion.

Remove and dispose of trash collected during sweeping under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way" of the Standard Specifications.

### Dewatering

Dewatering consists of discharging accumulated storm water, ground water, or surface water from excavations or temporary containment facilities.

If dewatering and discharging activities are specified under a work item such as "Temporary Active Treatment System" or "Dewatering and Discharge," perform dewatering work as specified in the section involved.

If dewatering and discharging activities are not specified under a work item and you will be performing dewatering activities, you must:

- 1. Submit a Dewatering and Discharge Plan under Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications and "Water Pollution Control" of these special provisions at least 10 days before starting dewatering activities. The Dewatering and Discharge Plan must include:
  - 1.1. Title sheet and table of contents
  - 1.2. Description of dewatering and discharge activities detailing locations, quantity of water, equipment, and discharge points
  - 1.3. Estimated schedule for dewatering and discharge (start and end dates, intermittent or continuous)
  - 1.4. Discharge alternatives such as dust control or percolation
  - 1.5. Visual monitoring procedures with inspection log
- 2. Conduct dewatering activities under Caltrans "Field Guide for Construction Dewatering."
- 3. Ensure that any dewatering discharge does not cause erosion, scour, or sedimentary deposits that could impact natural bedding materials.
- 4. Discharge the water within the project limits. Dispose of the water in the same way as specified for material in Section 7-1.13 "Disposal of Material Outside the Highway Right of Way" of the Standard Specification if it cannot be discharged within project limits due to site constraints.
- 5. Do not discharge storm water or non-stormwater that has an odor, discoloration other than sediment, an oily sheen, or foam on the surface. Notify the Engineer immediately upon discovering any such condition.

The WPC manager must inspect dewatering activities:

- 1. Daily when dewatering work occurs daily
- 2. Weekly when dewatering work does not occur daily

# PAYMENT

The contract lump sum price paid for construction site management includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in spill prevention and control, material management, waste management, non-stormwater management, preparing and submitting a Dewatering and Discharge Plan, and identifying, sampling, testing, handling, and disposing of hazardous waste resulting from your activities, as specified in the Standard Specifications and these special provisions, and as ordered by the Engineer.

### 10-1.04 TEMPORARY FIBER ROLL

### GENERAL

### Summary

This work includes constructing, maintaining, and removing temporary fiber roll.

The SWPPP must describe and include the use of temporary fiber roll as a water pollution control practice for sediment control.

### **Submittals**

Submit a Certificate of Compliance as specified in Section 6-1.07, "Certificates of Compliance" of the Standard Specifications for fiber roll.

# MATERIALS

### Fiber Roll

Fiber roll must:

- 1. Last for at least one year after installation
- 2. Be Type 1 or Type 2

If specified, Type 1 fiber roll must be:

- 1. Made from an erosion control blanket:
  - 1.1. Classified by the Erosion Control Technology Council (ECTC) as ECTC 2D
  - 1.2. With a Universal Soil Loss Equation (USLE) C-Factor of not more than 0.20 at a 2:1 (horizontal:vertical) slope
  - 1.3. Capable to withstand a maximum shear stress of 1.75 pounds per square foot under ASTM D 6460
  - 1.4. With a minimum tensile strength of 75 pounds per foot under ASTM D 5035
  - 1.5. With top and bottom surfaces covered with lightweight non-synthetic netting
  - 1.6. That complies with one of the following:
    - 1.6.1. Double net straw and coconut blanket with 70 percent straw and 30 percent coconut fiber
    - 1.6.2. Double net excelsior blanket with 80 percent of the wood excelsior fibers being 6 inches or longer
- 2. Rolled along the width
- 3. Secured with natural fiber twine every 6 feet and 6 inches from each end
- 4. Finished to be either:
  - 4.1. From 8 to 10 inches in diameter, from 10 to 20 feet long, and at least 0.5 pounds per linear foot
  - 4.2. From 10 to 12 inches in diameter, at least 10 feet long, and at least 2 pounds per linear foot

If specified, Type 2 fiber roll must:

- 1. Be filled with rice or wheat straw, wood excelsior, or coconut fiber
- 2. Be covered with a biodegradable jute, sisal, or coir fiber netting
- 3. Have the netting secured tightly at each end
- 4. Be finished to be either:
  - 4.1. From 8 to 10 inches in diameter, from 10 to 20 feet long, and at least 1.1 pounds per linear foot
  - 4.2. From 10 to 12 inches in diameter, at least 10 feet long, and at least 3 pounds per linear foot

# Wood Stakes

Wood stakes must be:

- 1. Untreated fir, redwood, cedar, or pine and cut from sound timber
- 2. Straight and free of loose or unsound knots and other defects which would render the stakes unfit for use
- 3. Pointed on the end to be driven into the ground

For fiber roll, wood stakes must be at least:

- 1. 1" x 1" x 24" in size for Type 1 installation
- 2. 1" x 2" x 24" in size for Type 2 installation

# Rope

For Type 2 installation, rope must:

1. Be biodegradable, such as sisal or manila

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2. Have a minimum diameter of 1/4 inch

# CONSTRUCTION

Before placing fiber roll, remove obstructions including rocks, clods, and debris greater than one inch in diameter from the ground.

If fiber roll is to be placed in the same area as erosion control blanket, install the blanket before placing the fiber roll. For other soil stabilization practices such as hydraulic mulch or compost, place the fiber roll and then apply the soil stabilization practice.

Place fiber roll on slopes at the following spacing unless the plans show a different spacing:

- 1. 10 feet apart for slopes steeper than 2:1 (horizontal:vertical)
- 2. 15 feet apart for slopes from 2:1 to 4:1 (horizontal:vertical)
- 3. 20 feet apart for slopes from 4:1 to 10:1 (horizontal:vertical)
- 4. 50 feet apart for slopes flatter than 10:1 (horizontal:vertical)

Place fiber roll parallel to the slope contour. For any 20 foot section of fiber roll, do not allow the fiber roll to vary more then 5 percent from level.

Type 1 and Type 2 fiber roll may be installed using installation method Type 1, Type 2, or a combination:

For installation method Type 1, install fiber roll by:

- 1. Placing in a furrow that is from 2 to 4 inches deep
- 2. Securing with wood stakes every 4 feet along the length of the fiber roll
- 3. Securing the ends of the fiber roll by placing a stake 6 inches from the end of the roll
- 4. Driving the stakes into the soil so that the top of the stake is less then 2 inches above the top of the fiber roll

For installation method Type 2, install fiber roll by:

- 1. Securing with rope and notched wood stakes.
- 2. Driving stakes into the soil until the notch is even with the top of the fiber roll.
- 3. Lacing the rope between stakes and over the fiber roll. Knot the rope at each stake.
- 4. Tightening the fiber roll to the surface of the slope by driving the stakes further into the soil.

# MAINTENANCE

Maintain temporary fiber roll to provide sediment holding capacity and to reduce runoff velocities.

Remove sediment deposits, trash, and debris from temporary fiber roll as needed or when directed by the Engineer. If removed sediment is deposited within project limits, it must be stabilized and not subject to erosion by wind or water. Trash and debris must be removed and disposed of as specified in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Maintain temporary fiber roll by:

- 1. Removing sediment from behind the fiber roll when sediment is 1/3 the height of the fiber roll above ground
- 2. Repairing or adjusting the fiber roll when rills and other evidence of concentrated runoff occur beneath the fiber roll.
- 3. Repairing or replacing the fiber roll when they become split, torn, or unraveled
- 4. Adding stakes when the fiber roll slump or sag
- 5. Replacing broken or split wood stakes

Repair temporary fiber roll within 24 hours of discovering damage unless the Engineer approves a longer period.

If your vehicles, equipment, or activities disturb or displace temporary fiber roll, repair temporary fiber roll at your expense.

The Department does not pay maintenance costs for cleanup, repair, removal, disposal, or replacement due to improper installation or your negligence.

# REMOVAL

When the Engineer determines that temporary fiber roll is not required, they must be removed and disposed of under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Ground disturbance, including holes and depressions, caused by the installation and removal of the temporary fiber roll must be backfilled and repaired under Section 15-1.02, "Preservation of Property," of the Standard Specifications.

#### MEASUREMENT AND PAYMENT

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing, maintaining, and removing the temporary fiber roll, complete in place, including removal of materials, cleanup and disposal of retained sediment and debris, and backfilling and repairing holes, depressions and other ground disturbance, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer shall be considered as included in the contract lump sum price paid for water pollution control and no additional compensation will be allowed therefor.

# 10-1.05 TEMPORARY CONCRETE WASHOUT (PORTABLE)

# GENERAL

#### Summary

This work includes removal and disposal of concrete waste by furnishing, maintaining, and removing portable temporary concrete washouts.

SWPPP must describe and include the use of a portable temporary concrete washout as a water pollution control practice for waste management and materials pollution control.

#### Submittals

At least 5 business days before concrete activities start, submit:

- 1. Name and location of off-site concrete waste disposal facility to receive concrete waste
- 2. Copy of permit issued by RWQCB for off-site commercial disposal facility
- 3. Copy of license for off-site commercial disposal facility
- 4. Copy of permit issued by state or local agency having jurisdiction over disposal facility if disposal site is located outside of the State of California

#### **Quality Control and Assurance**

Retain and submit records of disposed concrete waste including:

- 1. Weight tickets
- 2. Delivery and removal of temporary concrete washouts

## MATERIALS

#### **Portable Temporary Concrete Washout**

Portable temporary concrete washout must:

- 1. Be a commercially available watertight container.
- 2. Have sufficient capacity to contain all liquid and concrete waste generated by washout activities without seepage or spills.
- 3. Have at least 55-gallon capacity.
- 4. Be labeled for the exclusive use as a concrete waste and washout facility. Stencil "Concrete Waste material" in 3-inch high letters on white background. Top of stenciling must be 12 inches from the top of the container.

# **Concrete Washout Sign**

Concrete washout sign must comply with the provisions in Section 12-3.06B, "Portable Signs" of the Standard Specifications and:

- 1. Be approved by the Engineer
- 2. Consist of base, framework, and sign panel
- 3. Be made of plywood
- 4. Be minimum 2' x 4' in size
- 5. Read "Concrete Washout" with 3 inches high black letters on white background

# CONSTRUCTION

## Placement

Place portable temporary concrete washouts at job site:

- 1. Before concrete placement activities start
- 2. In the immediate area of concrete work as approved by the Engineer
- 3. No closer than 50 feet from storm drain inlets, open drainage facilities, ESAs, or watercourses
- 4. Away from construction traffic or public access areas

Install a concrete washout sign adjacent to each portable temporary concrete washout location.

# Operation

Collect and dispose of portland cement concrete, AC, or HMA waste at locations where:

- 1. Concrete material, including grout, is used
- 2. Concrete dust and debris result from demolition
- 3. Sawcutting, coring, grinding, grooving, or hydro-concrete demolition of portland cement concrete, AC, or HMA creates a residue or slurry
- 4. Concrete truck or other concrete-coated equipment is cleaned at the job site

Relocate portable temporary concrete washouts as needed for concrete construction work.

Replace portable temporary concrete washouts when filled to capacity. Do not fill higher than 6 inches below rim.

Your WPC manager must inspect portable temporary concrete washouts:

- 1. Daily if concrete work occurs daily
- 2. Weekly if concrete work does not occur daily

## Maintenance

When relocating or transporting a portable temporary concrete washout within the job site, secure it to prevent spilling of concrete waste material. If any spilled material is observed, remove spilled material and place it into portable temporary concrete washout.

## Removal

Dispose of concrete waste material at a facility specifically licensed to receive solid concrete waste, liquid concrete waste, or both. When portable temporary concrete washout is full, remove and dispose of concrete waste within 2 days.

# PAYMENT

Full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in furnishing, maintaining, and removing the portable temporary concrete washout, including removal and disposal of concrete waste, as specified in the Standard Specifications and as directed by the Engineer will be considered as included in the contract lump sum price paid for construction site management and no additional compensation will be allowed therefor.

## 10-1.06 DUST CONTROL

Dust control shall conform to the provisions in Section 10, "Dust Control," of the Standard Specifications, Rules 223, 223-1 and 223-2 (Dust Rules) of the Rules and Regulations of the El Dorado County Air Quality Management District (AQMD) and these special provisions.

Nothing in these special provisions shall be construed as relieving the Contractor of the responsibilities as set forth in Section 7, "Legal Relations and Responsibility" of the Standard Specifications.

The Dust Rules can be obtained from the AQMD, 2850 Fairlane Court, Placerville, CA, 95667, (530) 621-6662, and are available at:

http://www.edcgov.us//emd/apcd/construction dust rules.html.

The materials within the project limits are neither known nor suspected to contain naturally occurring asbestos and the project is not located within designated Naturally Occurring Asbestos Review Areas on the current El Dorado County Naturally Occurring Asbestos Review Area Map.

# FUGITIVE DUST CONTROL PLAN PREPARATION, APPROVAL AND AMENDMENTS

The Contractor shall submit a site specific Fugitive Dust Control Plan / Fugitive Dust Plan (FDP) for all proposed work, meeting the requirements of Dust Rules and approved by AQMD, to the AQMD prior to start of any work. The Contractor shall provide the Engineer with four (4) copies of the AQMD approved FDP prior to starting any work that may generate dust.

The Contractor shall prepare an amendment to the FDP when there is a change in construction activities or operations not included in the FDP, when the Contractor's activities or operations violate a condition of AQMD, or when directed by the Engineer. Amendments shall identify additional dust control practices or revised operations, including those areas or operations not identified in the initially approved FDP. Amendments to the FDP shall be prepared and submitted for review and approval within a time approved by the Engineer. At a minimum, the FDP shall be amended annually.

The Contractor shall keep one (1) copy of the approved FDP and approved amendments at the project site. The FDP shall be made available upon request by a representative of the AQMD, California Air Resource Board, United States Environmental Protection Agency, or Caltrans. Requests by the public shall be directed to the Engineer.

The Contractor shall provide all notices to the AQMD and create and maintain all records as required by Dust Rules. Copies of all related records shall be submitted to the Engineer within thirty (30) calendar days of completion of the work.

# DUST CONTROL

The Contractor shall implement the measures contained in the FDP to control dust in accordance with Dust Rules, the Standard Specifications and these special provisions, and as directed by the Engineer.

The Contractor is advised that significant dust control measures will be required during construction operations. In order to mitigate dust, past projects have required extensive pre-wetting to depths of cuts, the use of a dedicated water truck for each piece of earthmoving equipment (e.g., scrapers, dozers, excavators, loaders, haul trucks, backhoes, compactors, graders, etc.), and the use of rock track out pads and wheel wash stations at all points of egress from unpaved construction areas. These examples are not necessarily the exact mitigation measures needed on this project; rather, they have been listed to provide an idea of the extensive nature of dust control activities that may be necessary. The dust control measures that will be required to mitigate dust may impact the Contractor's productivity during construction activities. All impacts to productivity are considered included in the Contractor's bid price for the associated items of work and no additional compensation will be allowed therefore.

The Contractor shall know and fully comply with applicable provisions of the Permits and all modifications thereto, Dust Rules, and Federal, State, and local regulations and requirements that govern the Contractor's operations. Attention is directed to Sections 7-1.01, "Laws to be Observed," and 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

The Contractor shall be responsible for penalties assessed or levied on the Contractor or the Department as a result of the Contractor's failure to comply with the provisions in this section "Dust Control" including, but not limited to,

compliance with the applicable provisions of the Permits, Dust Rules, and Federal, State and local regulations and requirements as set forth therein.

Penalties as used in this section, "Dust Control," shall include fines, penalties and damages, whether proposed, assessed, or levied against the Department or the Contractor by governmental agencies or as a result of citizen suits. Penalties shall also include payments made or costs incurred in settlement for alleged violations of the Permits, Dust Rules, or applicable laws, regulations, or requirements. Costs incurred could include sums spent instead of penalties, in mitigation or to remediate or correct violations.

# **RETENTION OF FUNDS**

Notwithstanding any other remedies authorized by law, the Department may retain money due the Contractor under the contract, in an amount determined by the Department, up to and including the entire amount of Penalties proposed, assessed, or levied as a result of the Contractor's violation of the Permits, Dust Rules, or Federal or State law, regulations or requirements. Funds may be retained by the Department until final disposition has been made as to the Penalties. The Contractor shall remain liable for the full amount of Penalties until such time as they are finally resolved with the entity seeking the Penalties.

Retention of funds for failure to conform to the provisions in this section, "Dust Control," shall be in addition to the other retention amounts required by the contract. The amounts retained for the Contractor's failure to conform to provisions in this section will be released for payment on the next monthly estimate for partial payment following the date when an approved FDP has been implemented and maintained, and when dust has been adequately controlled, as determined by the Engineer.

When a regulatory agency identifies a failure to comply with the Permits and modifications thereto, Dust Rules, or other Federal, State or local requirements, the Department may retain money due the Contractor, subject to the following:

- A. The Department will give the Contractor thirty (30) days notice of the Department's intention to retain funds from partial payments which may become due to the Contractor prior to acceptance of the contract. Retention of funds from payments made after acceptance of the contract may be made without prior notice to the Contractor.
- B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to "Payments of Withheld Funds" of these special provisions.
- C. If the Department has retained funds, and it is subsequently determined that the County is not subject to the entire amount of the Costs and Liabilities assessed or proposed in connection with the matter for which the retention was made, the Department shall be liable for interest on the amount retained for the period of the retention. The interest rate payable shall be six percent (6%) per annum.

During the first estimate period that the Contractor fails to conform to the provisions in this section, "Dust Control," the Department may retain an amount equal to twenty five percent (25%) of the estimated value of the contract work performed.

The Contractor shall notify the Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the Contractor's records pertaining to dust control work. The Contractor and the Department shall provide copies of correspondence, notices of violation, enforcement actions or proposed fines by regulatory agencies to the requesting regulatory agency.

# PAYMENT

The contract lump sum price paid for prepare fugitive dust plan shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in developing, preparing, obtaining approval, revising, and amending the FDP, for maintaining and submitting all dust control records, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

In the event naturally occurring asbestos is found within the project limits, the Contractor shall prepare an Asbestos Dust Mitigation Plan in accordance with the requirements of Rule 223-2 and implement dust control in accordance with the requirements of Rule 223-2. Preparing an Asbestos Dust Mitigation Plan will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

The cost of performing dust control shall be considered as included in the various items of work and no additional compensation shall be allowed therefor.

# **10-1.07 TEMPORARY FENCE (TYPE ESA)**

Temporary fence (Type ESA) shall be furnished, installed, maintained, and later removed in conformance with the details shown on the plans, as specified in these special provisions and as directed by the Engineer. Locations of the temporary fence (Type ESA) shown on the plans are approximate, and the exact fence locations shall be adjusted so that existing trees are located behind the fence and protected in place.

# MATERIALS

Used materials may be installed provided the used materials conform to these special provisions.

# **High Visibility Fabric**

High visibility fabric shall be machine produced, orange colored mesh manufactured from polypropylene or polyethylene. High visibility fabric may be made of recycled materials. Materials shall not contain biodegradable filler materials that can degrade the physical or chemical characteristics of the finished fabric. High visibility fabric shall be fully stabilized ultraviolet resistant, shall be a minimum of 4 feet in width with a maximum mesh opening of 2" x 2". High visibility fabric shall be furnished in one continuous width and shall not be spliced to conform to the specified width dimension.

# Posts

Posts for temporary fence (Type ESA) shall be of one of the following:

- A. Wood posts shall be fir or pine, shall have a minimum cross section of 2" x 2", and a minimum length of 5.25 feet. The end of the post to be embedded in the soil shall be pointed. Wood posts shall not be treated with wood preservative.
- B. Steel posts shall have a "U," "T," "L," or other cross sectional shape that resists failure from lateral loads. Steel posts shall have a minimum weight of 0.75 pounds per linear foot and a minimum length of 5.25 feet. One end of the steel post shall be pointed and the other end shall have a high visibility colored top.

## Fasteners

Fasteners for attaching high visibility fabric to the posts shall be as follows:

- A. The high visibility fabric shall be attached to wooden posts with commercial quality nails or staples, or as recommended by the manufacturer or supplier.
- B. Tie wire or locking plastic fasteners shall be used for attaching the high visibility fabric to steel posts. Maximum spacing of tie wire or fasteners shall be 24 inches along the length of the steel post.

# INSTALLATION

Temporary fence (Type ESA) shall be installed as follows:

- A. All fence construction activities shall be conducted from outside the ESA as shown on the plans or as staked.
- B. Posts shall be embedded in the soil a minimum of 16 inches. Post spacing shall be 8 feet maximum from center to center and shall at all times support the fence in a vertical position.
- C. Temporary fence (Type ESA) shall be constructed prior to clearing and grubbing work, shall enclose the foliage canopy (drip line) of protected plants, and shall not encroach upon visible roots of the plants.
- D. Temporary fence (Type ESA) shall be located so that it is visible, as determined by the Engineer.

When Type ESA temporary fence is no longer required, as determined by the Engineer, the temporary fence shall be removed and disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications, except when reused as provided in this section.

Holes caused by the removal of temporary fence (Type ESA) shall be backfilled in conformance with the provisions in Section 15-1.02, "Preservation of Property," of the Standard Specifications.

## MAINTENANCE

Temporary fence (Type ESA) that is damaged during the progress of the work shall be repaired or replaced by the Contractor the same day the damage occurs.

#### PAYMENT

Full compensation for installing, maintaining, removing, and disposing of temporary fence (Type ESA), shall be considered as included in the contract price paid per linear foot for temporary fence (Type ESA) and no additional compensation will be allowed therefor.

## 10-1.08 TRENCH AND EXCAVATION SAFETY

Attention is directed to Sections 5-1.02A, "Excavation Safety Plans," and 7-1.01E, "Trench Safety," of the Standard Specifications and OSHA 29 CFR Part 1926 Construction Industry Regulations and these special provisions.

The Contractor shall provide a safe means of egress in trenches and excavations 5 feet deep and greater by the use of sheeting, shoring, bracing, sloping of the sides of the trench or excavation, or equivalent method.

Attention is directed to "Earthwork" of these special provisions. The Contractor shall provide sheeting, shoring, bracing, or sloping of abutment footing excavations steeper than 2:1 to accomplish the foundation excavations without infringing into the OHWM or ESA areas.

The Contractor shall submit a detailed plan showing the design of the sheeting, shoring, bracing or equivalent method which the Contractor proposes to use during construction to the Engineer in accordance with Section 5-1.02A of the Standard Specifications, except that this plan shall be submitted for the Engineer's review and acknowledgement within five (5) working days prior to any proposed work requiring protection. No excavation or trenching requiring protection shall commence until the "Shoring and Excavation Plan" is approved by the Engineer.

Full compensation for furnishing all labor, tools, equipment, and materials necessary to install sheeting, shoring and bracing, sloping the sides of trenches and excavations 5 feet deep and greater or equivalent method, including the provisions included in the section "Temporary Shoring" of these special provisions, in addition to preparing the "Shoring and Excavation Plan" as specified above, in accordance with the plans, the Standard Specifications and these special provisions shall be included in the lump sum contract price paid for trench and excavation safety and no additional compensation will be allowed therefor.

#### 10-1.09 TEMPORARY SHORING

Temporary shoring shall be designed, furnished, constructed, monitored, maintained, and removed in conformance with the provisions in these special provisions.

Attention is directed to the Foundation Investigation Report and Addendum regarding the expected subsurface conditions the Contractor can anticipate when installing temporary shoring near the bridge location. The Contractor shall expect large boulders to be encountered during excavation. Free groundwater levels shall also be expected during excavation near and adjacent to the creek channel, wherein granular, saturated soil layers exist capable of transmitting substantial quantities of seepage to open excavations.

Approval by the Engineer of the temporary shoring working drawings or temporary shoring inspection performed by the Engineer will in no way relieve the Contractor of full responsibility for the temporary shoring.

#### **TEMPORARY SHORING DESIGN AND DRAWINGS**

The Contractor shall submit to the Engineer three (3) sets of working drawings and design calculations for the temporary shoring. Such drawings and design calculations shall be stamped and signed by an engineer who is registered as a Civil Engineer in the State of California. The temporary shoring working drawings and design calculations shall conform to the requirements in Section 5-1.02 "Plans and Working Drawings," of the Standard Specifications.

Working drawings for any part of the temporary shoring shall include stress sheets, shop details, and erection and removal plans.

The temporary shoring working drawings shall include descriptions and values of all loads, including traffic surcharge loads, construction equipment loads, descriptions of equipment to be used, complete details and calculations for temporary shoring stresses and displacements, and descriptions of the displacement monitoring system. The displacement monitoring system shall include equipment to be used, location of control points, method and schedule of taking measurements, and provisions to support the temporary shoring should unanticipated displacements occur.

The Contractor shall determine the bearing value of the soil and shall show the values assumed in the design of the temporary shoring on the temporary shoring drawings. Anticipated temporary shoring displacements shall be shown on the temporary shoring drawings.

Temporary shoring shall be designed to carry the load imposed upon them without exceeding the estimated soil bearing values and anticipated displacements.

The temporary shoring design calculations shall show a summary of computed stresses in the temporary shoring. The computed stresses shall include the effect of the embankment construction sequence. The temporary shoring design calculations shall also include a lateral stiffness assessment of the temporary shoring system and shall conform to the design values shown on the plans.

The design of temporary supports will not be approved unless it is based on the use of loads and conditions which are no less severe than those described in "Temporary Shoring Design Criteria" of these special provisions and on the use of allowable stresses which are no greater than those described in Section 51-1.06A(2), "Design Stresses, Loadings, and Deflections," of the Standard Specifications.

## **TEMPORARY SHORING DESIGN CRITERIA**

Temporary shoring shall resist the lateral design forces resulting from construction equipment loads and compaction methods applied to the temporary shoring. The construction equipment loads shall be the actual weight of the construction equipment.

## **Manufactured Assemblies**

Manufactured assemblies shall conform to the provisions in Section 51-1.06A(2), "Design Stresses, Loadings, and Deflections," of the Standard Specifications and these special provisions.

# TEMPORARY SHORING CONSTRUCTION

Attention is directed to paragraphs 1 through 7 of Section 51-1.06B, "Falsework Construction," of the Standard Specifications. All reference to falsework in these paragraphs shall also apply to temporary shoring.

Welding, welder qualification, and inspection of welding for all steel members shall conform to the requirements of AWS D1.1. The Contractor's registered engineer shall certify in writing that the temporary shoring conform to the working drawings, and that the material and workmanship are satisfactory for the purpose intended. A copy of this certification shall be available at the site of the work at all times.

## **REMOVING TEMPORARY SHORING**

Attention is directed to Section 51-1.06C, "Removing Falsework," of the Standard Specifications. All references to falsework in this section shall also apply to temporary shoring.

## PAYMENT

Temporary shoring will not be measured for payment.

Full compensation for temporary shoring shall be considered as included in the lump sum contract price paid for trench and excavation safety and no separate payment will be made therefor.

#### 10-1.10 PROGRESS SCHEDULE

Progress schedules are required for this contract and shall be submitted in conformance with the provisions in Section 8-1.04, "Progress Schedule," of the Standard Specifications and these special provisions, unless otherwise authorized in writing by the Engineer.

The second paragraph of Section 8-1.04, "Progress Schedule" of the Standard Specifications do not apply.

Full compensation for the required progress schedules shall be considered as included in the contract prices paid for the various items of work and no additional compensation will be allowed therefor.

#### 10-1.11 MAINTAINING TRAFFIC

Maintaining traffic shall conform to the provisions in Sections 7-1.08, "Public Convenience," Section 7-1.09, "Public Safety," and Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

The Contractor shall prepare a traffic management plan which will include construction staging and traffic control measures that will be implemented to maintain and minimize impacts to traffic during construction. The traffic management plan shall be submitted to, and approved by the Engineer prior to start of construction or any closure.

Closure is defined as the closure of regular thru-traffic along Wentworth Springs Road.

The Contractor may continuously close Wentworth Springs Road at the project site for the duration of the project. This closure shall be accomplished by means of barricades and construction signs, as shown in the plans. The closure shall also be addressed in the traffic management plan.

Full compensation for furnishing all labor, tools, equipment, and materials necessary to doing all the work related to maintaining traffic, including furnishing, placing, and maintaining barricades and temporary construction signs, and preparing a traffic management plan shall be considered as included in the contract prices paid for the various items of work and no separate payment will be made therefor.

## 10-1.12 MOBILIZATION

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the Standard Specifications.

#### 10-1.13 CLEARING AND GRUBBING

Clearing and grubbing shall conform to the provisions in Section 16, "Clearing and Grubbing," of the Standard Specifications and these special provisions.

Attention is directed to "Environmentally Sensitive Area" of these special provisions. The County's biologist will be on-site during clearing and grubbing activities in the riparian corridor to ensure that no Foothill Yellow-Legged Frog or other special status species are present.

Construction areas to receive improvements shall be cleared of all logs, stumps, roots of felled trees, brush, grass, weeds, fencing, debris, and all other deleterious material. Grubbing in these areas shall consist of removal of all buried roots, stumps, logs, and any foreign objects encountered. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete the construction operations described in the contract documents. Except for the trees specifically identified for removal on Sheet L-1, no native trees with a trunk diameter at breast height (DBH) in excess of four (4) inches shall be removed or damaged without prior consultation and approval of a Department of Fish & Game representative. Using hand tools (clippers, chain saw, etc.), trees may be trimmed to the extent necessary to gain access to the work sites. All cleared material/vegetation shall be removed out of the riparian/stream zone.

The Contractor shall not disturb any area beyond the construction area limits shown on the plans, and staked and fenced in the field, or disturb any areas outside of the areas to be disturbed by construction of the improvements as indicated on the plans. All care shall be taken to avoid damage to trees and other vegetation not marked for removal.

Should such disturbance or damage occur, the Contractor will be liable for the costs pertaining to revegetation and assuring plant establishment at the Contractor's expense.

Attention is directed to the section entitled, "Earthwork" of these special provisions regarding salvaging of topsoil from excavated areas. Attention is directed to "Areas for Contractor's Use," and Item 5 of "Fire Plan" of these special provisions.

Combustible material may be chipped on site. The chips shall become the property of the Contractor and removed from the project site.

Attention is directed to Appendix D of the contract documents for a listing of the trees to be removed.

Trees shall be removed in such a manner as to cause no damage to the road, existing drainage facilities, or the public. Logs infested with insects shall be covered with clear plastic sheeting and sealed at the ground until the wood is disposed of.

Trees to be removed shall be properly felled, limbed, and to the extent possible, bucked into sections suitable for sawmill. Sawmill log lengths shall be cut in multiples of 2-feet, measuring a minimum length of 10-feet, with an additional trim length. Logs up to 20-feet shall have 6-inches of trim added; logs 22 to 32-feet shall have 12-inches of trim added. The maximum length of sawmill logs shall be 33-feet (including trim). Sawmill log sections shall be neatly stacked in a designated location within the vicinity of the project area but outside the riparian area, to be determined by the Engineer, after which the logs shall become the property of others.

The Contractor is responsible for complete site cleanup, including slash and limb disposal. No slash or limbs may be stored or burned on site. All cleared material/vegetation shall be removed from the project site.

All areas where tree stumps are removed shall be backfilled with native material or other material as applicable to the location of the void relative to the improvements, compacted in accordance with the Section entitled, "Earthwork" of these special provisions, and re-graded to match adjacent existing ground elevations. Stumps that interfere with the installation of improvements shall be removed to a depth of 2-feet below the bottom of the improvement. Stumps shall not be removed in areas that will be graded (e.g. rock-lined channels) until just prior to the beginning of grading to minimize the areas of exposed bare soil.

Nothing herein shall be construed as relieving the Contractor of the Contractor's responsibility for final cleanup of the highway as provided in Section 4-1.02, "Final Cleaning Up," of the Standard Specifications.

The Department, through an agreement with the Eldorado National Forest, can provide the Contractor with access to a local source with rock available at no cost. The site has an adequate supply of 8" x 12" rip rap, 18" x 24" rip rap, and boulders, already sorted. The Contractor will be responsible for providing the labor and equipment necessary, such as an excavator and portable power screening device, in order to sort and grade rock sizes other than what is already available. The rock source site is located at the base of Gerle Creek Reservoir, approximately 8 miles driving distance to the Gerle Creek project site.

Full compensation for placement of boulders (and logs if available) per barrier Detail 1 on Sheet C-1, and boulder placement in front of each bridge truss face as shown on the plans shall be considered as included in the contract prices paid for the various items of work and no separate payment will be made therefor.

Full compensation for all work involved in clearing and grubbing, which includes tree felling, limbing, bucking, and stacking of sawmill log sections, and removal of trees stumps shall be considered as included in the contract lump sum price paid for clearing and grubbing and no additional compensation will be allowed therefor.

# 10-1.14 EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

Surplus excavated material shall become the property of the Contractor and shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Attention is directed to the Foundation Investigation Report and Addendum regarding the expected subsurface conditions the Contractor can anticipate when performing excavation.

Blasting shall not be used as a means for accomplishing excavation work.

To the extent that material from required excavation within the project limits is available, embankment shall be constructed of native material obtained from required excavation within the project limits or a combination of native material and imported borrow. Native material, if available, shall also be used for structure backfill at the bridge abutments and wingwall and as compacted backfill in road approaches. Native material shall be that which was originally removed from excavation, after having had all organic material, frozen material, material larger than that which will pass over a 3-inch square opening, or other elements other than natural soils removed and discarded.

Attention is directed to "Water Pollution Control," of these special provisions. Work activities must not disturb 1 or more acres of soil.

It is the Contractor's responsibility to ensure that no excavation or construction activity occur at or below the OHWM, between the OHWM limits shown on the plans within the creek boundaries. The OHWM is determined to be at approximately 5835 feet, as shown on the plans. All excavation, earthwork, and construction activity except driving equipment across the existing low water crossing shall take place outside of this area. No filling of materials is permitted within Gerle Creek.

The Contractor shall be aware that excavation work necessary to construct the abutment footings and geosynthetic reinforced foundations will limit access along Wentworth Springs Road and shall stage the work accordingly.

The Contractor may remove large rocks and boulders from the creek bed for access across the creek, determined by the Engineer to be necessary for the Contractor to utilize the low water crossing. Any rocks or boulders from the creek shall be placed within the project area but outside the area between the OHWMs. The boulders may be used as called for in the plans (rock barriers, and boulders in front of each bridge truss face).

In lieu of the applicable provisions in Section 19-3.08, "Payment," full compensation for furnishing all labor, tools, materials, equipment, and incidentals, and for doing all the work involved in the excavation for the abutments, footings, geosynthetic reinforced foundations, backfilling around the abutments, furnishing and installing the plastic pipe located behind bridge abutments, furnishing and placing pervious material at the abutments, placing and compacting native backfill for roadway approaches, and dewatering shall be considered included in the contract item price paid for earthwork and no additional compensation will be allowed therefor.

Measurement and payment for earthwork shall be based on the contract unit price paid for the number of cubic yards of excavation shown in the Proposal Pay Items (since denoted as final pay item) and Bid Price Schedule.

Full compensation for excavation and grading necessary for erosion control improvements or any activities not related to the construction of the bridge, including removal of rocks and boulders from the creek bed, shall be considered as included in the contract prices paid for the various items of work and no separate payment will be made therefor.

## 10-1.15 ROCK EXCAVATION

Your attention is directed to the Geotechnical Engineering Study dated December 2009 and provided as supplemental information to the contract documents. The study's results are based on a limited study area and may not be representative of the conditions Contractor may encounter outside of the specific area of study. You are advised that in areas throughout the project site, hard, non-rippable rock exists that will require alternative excavation techniques, including but not limited to the use of hydraulic rock breaking equipment, coring (for drilling operations), and/or chemical splitting agents. Payment for excavating any hard rock as described herein during the course of performing work under any contract item shall be considered paid for by the contract item that necessitates the excavation, and no additional compensation shall be provided therefor.

## 10-1.16 DEVELOP WATER SUPPLY

Developing a water supply and applying watering shall conform to the provisions in Section 17, "Watering," of the Standard Specifications and these special provisions.

Attention is directed to the various sections of the Standard Specifications and these special provisions which require the use of water for the construction of this project. Attention is directed to Section 7, "Legal Relations and Responsibility," of the Standard Specifications with regards to the Contractor's responsibilities for public convenience, public safety, preservation of property, indemnification, and insurance.

Nothing in this section "Develop Water Supply" shall relieve the Contractor from furnishing an adequate supply of water required for the proper construction of this project in conformance with the provisions in the Standard Specifications or these special provisions or relieve the Contractor from the legal responsibilities defined in Section 7 of the Standard Specifications.

The Contractor shall, whenever possible and not in conflict with the above requirements, minimize the use of water during construction of the project. Watering equipment shall be kept in good working order; water leaks shall be repaired promptly; and washing of equipment, except when necessary for safety or for the protection of equipment, shall be discouraged.

Water is available for the Contractor's use at no cost at the intersection of Ice House Road and Jones Fork Powerhouse Road, approximately 11 miles southwest of the project location. The hook-up is located behind a locked gate and requires access from the Engineer.

If Contractor plans to draft water from Gerle Creek, Contractor will need to obtain a permit from California Fish and Game prior to commencement of drafting operations.

When ordered by the Engineer, a dust palliative conforming to the provisions in Section 18, "Dust Palliative," of the Standard Specifications shall be used to control dust on this project. Dust palliative ordered by the Engineer will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

Attention is directed to Section 17-1.025, "Chemical Additives," of the Standard Specifications. When ordered by the Engineer, a chemical additive shall be added to water used for compaction. The additive shall be approved by the Engineer and shall be used in conformance with instructions issued by the Engineer. Chemical additive ordered by the Engineer will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.

The lump sum contract price paid for develop water supply shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, obtaining required permits and for doing all the work involved in developing a sufficient water supply, as specified in the Standard Specifications and these special provisions and as directed by the Engineer.

## 10-1.17 REVEGETATION

Revegetation shall conform to the provisions in Section 20-3, "Revegetation," of the Standard Specifications and these special provisions and shall consist of placing a topsoil mix, soil amendment, native seed mix, mulch and tackifier on embankment slopes, excavation slopes and other areas shown on Sheet R-1 of the plans.

Prior to installing revegetation materials, soil surface preparation shall conform to the provisions in Section 19-2.05, "Slopes," of the Standard Specifications, except that rills and gullies exceeding 2 inches in depth or width shall be leveled. Temporary erosion control materials, and other debris shall be removed from areas to receive revegetation.

If the slope on which the revegetation is to be placed is finished during the rainy season as specified in "Water Pollution Control" of these special provisions, apply revegetation materials immediately to the slope.

Contractor shall not disturb any area beyond the construction area limits shown on the plans or disturb any areas outside of the areas to be disturbed by construction of the improvements as indicated on the plans. Should such

disturbance occur, Contractor will be liable for the costs incurred for establishing vegetation and assuring plant establishment.

# MATERIALS

#### **Topsoil Mix**

After clearing and grubbing, the Contractor shall salvage the top three (3) inches of excavated native soil and blend with humus to produce a topsoil mix. The salvaged material shall be mixed at a ratio of 3:1 (native soil to humus) in a separate stockpile. Mixing of these materials in-place at the locations the topsoil mix will be placed is not acceptable.

The Contractor shall place and compact the topsoil mix at the locations shown on the plans, to achieve a three (3) inch thickness. The mixture of salvaged topsoil and humus (i.e. topsoil mix) shall be compacted to a minimum of 85% relative compaction and a maximum of 90% relative compaction. Compaction of topsoil mix shall be verified by an established method agreed upon by Engineer and Contractor.

#### Humus

Humus shall consist of an amendment that shall be the result of an aerobic composting process maintaining temperatures greater than 135°F and less than 165°F, for a minimum of 10 days. The humus shall be certified organic and shall be approved by the US Composting Counsel. Humus shall consist of material that is 100% humus fines (3/8" minus). The Front Yard Nursery in Placerville, CA carries a humus product called "Clean City Compost" that satisfies these requirements. The Contractor shall notify the Engineer of the proposed location of the source of imported humus 72 hours before the Contractor plans to pick-up the material, so the Engineer can verify its suitability. The Contractor shall submit written certification that the humus is weed free.

Humus shall be mixed with salvaged topsoil in a ratio of 3:1 (salvaged topsoil to humus) to create topsoil mix.

#### Mulch

Mulch shall consist either of 100% mulched material of indigenous forest vegetation from the Sierra Nevada Foothills area or of a certified weed free straw mulch material. The indigenous forest vegetation mulch material shall consist of wood chips, pine needles, leaves and/or tub grinding material ranging in size from 3/8" minus to 3". Straw mulch material shall consist of rice, wheat or barley straw. The mulch material shall be air-dry, and shall not be musty, moldy, caked, or otherwise of low quality. The use of mulch that contains noxious weeds is not permitted. The Contractor shall submit written certification that the mulch is weed free.

The Contractor shall apply a 1" thickness of mulch over all areas disturbed by construction activities as noted in the plans after the topsoil mix is compacted in place and after the seed and soil amendment has been placed.

## Tackifier

Tackifier shall include wood-cellulose fiber mulch. Tackifier material shall be of an organic, plant-derived substance containing psyllium, guar gum, and cornstarch such as PT-TAC, Reclamare 2400, M-Binder, Eco-tak, Fisch-Stick, or approved equal. Material shall form a transparent, 3-dimensional film-like crust permeable to water and air and containing no agents toxic to seed germination. Wood-cellulose mulch shall consist of a degradable green-dyed fiber or 100% recycled long-fiber pulp (recycled newspaper), free from weeds or other foreign matter toxic to seed germination.

Mulch shall be anchored with tackifier within 48 hours of application. A hydroseeder with a paddle wheel agitator that has sufficient capacity to agitate, suspend, homogenize, and evenly apply the tackifier mixture at the following rates under suspension shall be used. The Contractor shall apply tackifier to all areas where mulch has been applied. Tackifier shall be mixed and applied in accordance with the following:

Wood-Cellulose Fiber Mulch	Tackifier	Water
500 lbs/acre	130 lbs/acre	Per Manufacturer's Specification

# CONSTRUCTION

To facilitate proper placement of the revegetation materials, application shall consist of a continuous operation where each treatment follows the preceding as specified above. Specified materials shall be applied to the identified areas within a single seeding work shift. Under no circumstances shall any one application be completed independent of completion of the others.

## **Scarify Existing Compacted Surfaces**

The work shall consist of scarifying the existing compacted earth surfaces shown on Sheet R-1 of the plans to a depth of not less than 6" below the original ground surface. The means of scarifying shall be subject to approval by the Engineer. When scarifying takes place over root zones, Contractor shall hand dig to determine where the roots are located and scarify only above the root zones. The finished surface shall be uneven and natural in appearance.

## Soil Amendment

Soil amendment shall conform to all rules and regulations governing the registration, licensing, and collection of license fees for commercial amendments in the State of California in accordance with the California Food and Agricultural Code. The soil amendment shall be slow release and non-burning with a formulation of 6-3-3 such as 'Biosol Plus' applied at 800 lbs. per acre or an equivalent product such as 'Ringer'. Amendment shall be applied at the specified rate to all areas identified for amendment application. Nutrients shall be derived from fungal mycelium, microbial biomass, bentonite and potassium-magnesia. Amendment shall be labeled "f"; in accordance with applicable State regulations, and bear the warranty of the producer for the type furnished. Amendment shall be uniform in composition, dry and free flowing, granular or pelleted and shall be applied only with a mechanical spreader.

# Seed

Seed shall be the Seed Mix as described in the table below and shall be applied at a rate of 15 lbs/acre by rotary or drop spreader. Seed shall be sourced from a nursery carrying seed native to the Project area and shall be certified weed free.

Botanical Name	Common Name	Bulk (lb/acre)
Bromus carinatus	California Brome	6
Elymus multisetus	Big Squirrel Tail	4
Elymus glaucus	Blue Wildrye	2
Deschampsia elongata	Slender Hairgrass	0.5
Agrostis exerata	Bentgrass	0.5
Melica californica	California Oniongrass	2

# **Incorporate Seed and Soil Amendment**

Seed and soil amendment shall be incorporated into the topsoil mix to a depth of approximately <sup>1</sup>/<sub>4</sub>". Incorporation on slopes shall be raked from the bottom to the top.

# PAYMENT

The contract unit price paid per square yard for revegetation shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and placing all revegetation materials, including salvaging and stockpiling native soil, mixing native soil with humus, and compacting topsoil mix complete in place, incorporating soil amendment and seed, applying mulch and tackifier, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

# 10-1.18 BRIDGE APPROACH ROAD BASE

## DESCRIPTION

This work shall consist of furnishing, spreading and compacting an 18" nominal thickness road base at each of the bridge approaches. The road base shall include rock and fabric conforming to these specifications, placed over compacted native backfill.

#### MATERIALS

#### Rock

Rocks shall conform to the material quality requirements in Section 72-2.02, "Materials," of the Standard Specifications for shape and apparent specific gravity, absorption, and durability index. Rocks used for the bridge approach road base shall conform to the following sizes:

Square Screen Size (inch)	Percentage Passing	Percentage Retained
6	100	0
3	0	100

The Department, through an agreement with the Eldorado National Forest, can provide the Contractor with access to a local source with rock available for bridge approach road base use at no cost. The site has an adequate supply of 8" x 12" rip rap, 18" x 24" rip rap, and boulders, already sorted. The Contractor will be responsible for providing the labor and equipment necessary, such as an excavator and portable power screening device, in order to sort and grade rock sizes other than what is already available. The rock source site is located at the base of Gerle Creek Reservoir, approximately 8 miles driving distance to the Gerle Creek project site.

#### Fabric

Fabric for the approach road base must comply with Section 88-1.06A, "Rock Slope Protection," of the Standard Specifications and be Class 10.

## CONSTRUCTION

The width of the road base section shall match the width of the road as shown on the plans. After fabric is placed over compacted roadway embankment, rock shall be spread and compacted by means of a mechanical tire pass.

Care shall be taken during rock spreading so that the fabric is not damaged. Sides and ends of fabric shall have a minimum 12-inch overlap. Fabric damaged during rock spreading shall be repaired by placing a new fabric large enough to cover the damaged area and provide a minimum 18-inch overlap on all edges.

## MEASUREMENT AND PAYMENT

The contract price paid per cubic yard for bridge approach road base shall include full compensation for furnishing all labor, materials (or processing selected materials), tools, equipment, and incidentals, and for doing all the work involved in hauling and constructing bridge approach road base, complete in place, as shown on the plans, and as specified in these specifications and the special provisions, and as directed by the Engineer.

## 10-1.19 PRE-FABRICATED STEEL TRUSS BRIDGE

#### SCOPE

The work included shall consist of designing, fabricating, transporting, and erecting a steel truss bridge including bearings, as shown in the plans and described herein. The intended usage is a vehicular bridge serving legal highway loads, where less than 20,000 truck cycles are expected. These specifications shall be as regarded as minimum standards for design and construction.

## QUALIFICATIONS

Each bidder is required to identify their intended bridge manufacturer as part of the bid submittal. The bridge manufacturer shall have the personnel, organization, capability, and commitment to produce fabricated structural steel as

set forth in the American Institute of Steel Construction (AISC) Certification Program. To insure the proposed manufacturer is in compliance with these specifications, the following documentation must be included:

- Proof of current AISC certification at the time of bid submittal.
- Verification that the manufacturer has been in the business of designing and fabricating steel truss bridges for a minimum of five (5) years, and that he has maintained a permanent quality control department or has retained an independent testing agency on a continuing basis. The agency shall issue a report, certified by a licensed engineer, detailing the ability of the manufacturer to produce quality products consistent with industry standards.
- Complete and include the "Certification of Bidder's Pre-Fabricated Bridge Manufacturer's Qualifications" statement with the submitted Proposal.

The County will evaluate and verify the accuracy of each submittal after bid opening. If the County determines that the qualifying criterion has not been met, the Contractor's bid will be deemed non-responsive, and subsequently rejected.

# DESIGN

The bridge manufacturer shall design the prefabricated bridge and prepare shop drawings in accordance with these minimum requirements. All calculations and shop drawings shall be stamped and signed by a professional licensed Civil or Structural Engineer in the State of California, and submitted to and received by the Engineer for review and approval prior to beginning fabrication and within ten (10) working days of the date of the Notice of Award. All relative design information including but not limited to: governing codes, design parameters, member sizes, bridge reactions, shop and field connection details, deck details, dimensions related to substructures, and general notes shall be clearly specified on the drawings. Shop drawings shall be accurately prepared by skilled drafters to be complete in every respect. Drawings shall have cross-referenced details and sheet numbers.

Design shall be governed by the American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor Design (LRFD) Bridge Design Specifications, 3<sup>rd</sup> Edition with interims through 2006 and the Caltrans Amendments v3.06.01. Structural members shall be designed in accordance with recognized engineering practices and principles.

The bridge shall be designed as a Pratt Truss, half-through system (underhung floor beams, acting as an H-section). The truss type shall be parallel chord with diagonal web members slanting toward the center of the span and separated by vertical members. Overhead (portal) bracing is prohibited. Any bridge depiction shown in the plans is conceptual only.

The bridge shall be designed for expansion and contraction with a temperature range of -40° F to 110° F.

The bridge shall be designed to tolerate a maximum differential settlement of 2 inches, between abutments.

## DIMENSIONS

# Span Length

The bridge span shall be 125'-0", measured as the horizontal clearance between abutment backwalls (BB to EB as shown on the plans).

## **Deck Width**

The bridge clear deck width shall be 16'-0", as measured between railing elements other than handrails.

#### Camber

The bridge shall be cambered to offset the calculated deal load deflection plus one-percent (1%) of the bridge length. Unless indicated otherwise in the plans, both abutments will be constructed at equal elevations.

#### Railings

The minimum rail height shall be 5'-0". The safety system shall be horizontal angle-iron safety rails, and shall prevent a sphere with a diameter of 10" from passing through. Safety systems shall be placed on the inside of the truss and shall be designed to carry a horizontal or vertical point load of 200 lb each.

All rails shall be of a smooth, continuous nature that prevents snagging and scraping.

## **Geometric Limitations**

- Abutment Backwall Height = 3'-0"
- Abutment Bridge Seat Width = 2'-6"
- Abutment Length = 23'-0"

# LOADS

# Superstructure Loading

In addition to dead loads as specified by AASHTO, the bridge shall be designed to accommodate the following loads:

- Vehicle Live Load = HL-93 (with impact) and P-15
- Additional Dead Load Capacity (Snow Load) = 291 psf
- Maximum Superstructure Weight (including concrete deck) = 400 kips
- Lateral Wind Load = 75 psf, projected on the full vertical surface area of the bridge
- Uplift Wind Load = 20 psf, applied at the windward quarter point of the bridge width
- Seismic Loading based on Site-Specific Spectral Acceleration Curve (shown on Sheet S-2), Soil Type D, and M = 7.0
- Maximum lateral force on each abutment not to exceed 90 kips

# MATERIALS

# **Structural Steel**

All members of the truss and deck system shall be fabricated from wide flange (W-shapes) or square/rectangular hollow structural sections (HSS). Open ends of end posts and floor beams shall be capped. Steel material shall be corrosion resistant, high-strength, low-alloy material meeting ASTM A242, A588, A606, or A847 with a minimum corrosion index of 5.8 per ASTM G101.

Minimum thickness of rolled sections shall be 5/16", except the web thickness of rolled beams or channel shall not be less than  $\frac{1}{4}$ " as per AASHTO. Minimum thickness of tubular steel members shall be 3/16".

Where water collection inside of structural tubing or rolled shapes is possible during construction or service, weep holes shall be provided at low points.

All steel shall be unpainted and self-weathering. All exposed surfaces, defined as those surfaces seen from the deck and from along side the structure, shall be blast cleaned in accordance with Steel Structures Painting Council Surface Preparation Specifications No. 7, latest edition (SSPC-SP7), Brush-Off Blast Cleaning.

# **Concrete Deck**

The bridge deck shall be normal weight reinforced concrete with a minimum 28-day compressive strength of 4,000 psi.

The concrete deck surface shall be finished with a transverse rough broomed finish.

Stay-in-place galvanized metal form deck with steel side and end dams shall be used and shall be a minimum of 20 gage. Metal form deck shall be secured to the support members with fasteners or welds in accordance with the manufacturer's recommendations. Metal form deck panels shall be of a length to span a minimum of two bays of the truss supports. Metal form deck shall be designed for a construction live load of either 20 psf or a 200 lb moving point load. Dead load deflection due to normal weight wet concrete shall be limited to L/180 or  $\frac{3}{4}$ ". Consideration of composite action from the metal form is prohibited.

Reinforced concrete deck with stay-in-place forms shall be designed for the envelope of forces caused by snow or vehicle loads.

Deck reinforcing steel shall be A775 Grade 60 epoxy coated bars. All bar bends and anchorage shall be in accordance with the Standard Specifications. Upper and lower layers of longitudinal reinforcement are required; two layers of transverse reinforcement shall be required. Reinforcing bars shall be placed 2 1/2" minimum clear to top surface, and 2" minimum clear to all other surfaces and forms.

# **DELIVERY AND ERECTION**

Workmanship, fabrication, and shop connections shall be in accordance with AASHTO.

To facilitate and comply with County and other State requirements regarding transportation and erection of the bridge, the Contractor may opt to have the bridge fabricated and delivered in a number of sections, then assembled and fully connected in the field. The Contractor is responsible for obtaining hauling permits, as applicable. The Engineer will not extend the contract working days to compensate for delays in obtaining necessary permits.

The Contractor shall notify the Engineer in advance of the expected bridge arrival time. Information regarding delays after the trucks depart the manufacturer, such as inclement weather, delays in permits, re-routing by public agencies or other circumstances shall be forwarded to the Engineer as soon as possible.

The Contractor shall submit to the County an erection plan that shall include as a minimum, the actual means and methods of lifting section, or pre-assembled sections of the bridge, access and verification of support condition, and points of attachment to resist any loads related to lifting and erection of the bridge sections and the spans. The Contractor's erection plan shall be submitted to the County for review and approval at least twenty (20) working days prior to commencement of any bridge erection.

The Contractor shall coordinate with the bridge manufacturer in the delivery and erection schedule. The bridge manufacturer shall provide detailed, written instruction procedures for proper lifting and splicing of bridge components.

Field splices shall be fully bolted slip critical connections, utilizing tension indicating washers. Tack welding of high strength hardware is prohibited.

Splices not immediately at or adjacent to panel points shall be designed for 100% of the member bending moment capacity for primary compression members, and 75% for bracing members or tension members subject to load reversal, including slip resistance, and slip resistance shall further meet the same AASHTO required strength as with other failure modes.

Splices for truss members, bracing, and floor beams, when used, shall be made with ASTM A325 or A490 Type 3 high strength bolts. Other splices shall be made with the above mentioned material or ASTM A307.

## WARRANTY

The bridge manufacturer shall provide a warranty against defects in material and workmanship for a period of ten (10) years.

# PAYMENT

The contract lump sum price paid for furnish and install pre-fabricated bridge shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in ordering, transporting, splicing, and erecting and installing all elements of the steel truss bridge, including bearing pads, bearing plates, anchor bolts, deck forms, deck concrete and reinforcement, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

## 10-1.20 CONCRETE STRUCTURES

Portland cement concrete structures shall conform to the provisions in Section 51, "Concrete Structures," of the Standard Specifications and these special provisions.

## GENERAL

Shotcrete shall not be used as an alternative construction method for reinforced concrete members unless otherwise specified.

The Contractor shall install neoprene compression joint seals at each end of the bridge, between the bridge deck and abutment backwall as shown on the plans, per the bridge manufacturer's recommendations. A steel cover plate shall be installed between the backwall and deck at each abutment as shown on the plans, per the bridge manufacturer's recommendations.

Furnishing and installing the neoprene compression joint seals and steel cover plates shall be considered as included in the contract lump sum price paid for furnish and install pre-fabricated bridge.

# ELASTOMERIC BEARING PADS

Elastomeric bearing pads shall conform to the provisions in Section 51-1.12H, "Elastomeric Bearing Pads," of the Standard Specifications.

# MEASUREMENT AND PAYMENT

Measurement and payment for concrete in structures shall conform to the provisions in Section 51-1.22, "Measurement," and Section 51-1.23, "Payment," of the Standard Specifications and these special provisions.

# 10-1.21 GEOSYNTHETIC REINFORCED FOUNDATION

This work shall consist of placing geosynthetic reinforcement between layers of compacted fill in accordance with the details shown on the plans, as specified in Section 19 "Earthwork," of the Standard Specifications and these special provisions.

## **GEOSYNTHETIC REINFORCEMENT**

Only one type of geosynthetic reinforcement material shall be used.

Geosynthetic reinforcement material shall be designed for use in subsurface geotechnical foundation reinforcement applications. Geosynthetic reinforcement material shall be configured as an integrally formed biaxial geogrid. Geogrid shall have a regular and defined open area. Geogrid shall accept applied force in use by positive mechanical interlock with compacted soil. Geogrid shall possess complete continuity of all properties throughout its structure and shall be suitable for internal reinforcement of compacted soil or particulate construction fill materials to improve their load bearing capacity. The percentage of the open area for geogrids shall range from 50 to 90 percent of the total projection of a section of the material.

Polyolefin geosynthetic materials may be used in fill materials with pH levels between 2 and 12. Polyester geosynthetic materials, whether coated or uncoated, shall not be used in calcareous, alkaline, or highly acidic environments, including the following: lime-treated or cement-treated soils, crushed limerock, or soils potentially exposed to leachate from concrete, lime or de-icing salts.

## **Material Properties**

An approved geogrid is Biaxial Geogrid BX1200 manufactured by The Tensar Corporation, Atlanta, GA. Alternate geogrid products may be used that meet the following requirements:

Geosynthetic reinforcement shall have tensile strength in the longitudinal and transverse strength directions greater or equal to values shown in the following table:

Property	Longitudinal Direction (lb/ft)	Transverse Direction (lb/ft)	
Tensile Strength at 2% Strain	410	620	
Tensile Strength at 5% Strain	810	1,340	
Ultimate Tensile Strength	1,310	1,970	

Geosynthetic reinforcement consisting of polypropylene or high-density polypropylene sheets shall meet the requirements of ASTM Designation: D 4101, Group 1/Class1/Grade 2.

A certificate of compliance shall be furnished to the Engineer in conformance with Section 6-1.07, "Certificate of Compliance," of the Standard Specifications a minimum of one week prior to placement of geosynthetic reinforcement. The Certificate of Compliance shall be prepared and signed by a representative of the manufacturer who is a California-registered Civil Engineer.

## **Delivery, Handling, and Storage**

Geosynthetic reinforcement shall be furnished in an appropriate protective cover which shall protect it from ultraviolet radiation and from abrasion during shipping and handling.

The Contractor shall check products upon delivery to assure that the geosynthetic reinforcement received is dry and undamaged. Each roll shall be labeled with the manufacturer's name, production identification, roll dimensions, lot number, and date manufactured.

Geosynthetic reinforcement shall be handled and stored in accordance with the manufacturer's recommendations.

Geosynthetic reinforcement rolls shall be protected from construction equipment, chemicals, sparks and flames, temperatures above 70°C (160°F), and any other environmental conditions that may degrade physical properties. Prevent excessive mud, wet concrete, epoxy, or other deleterious materials from coming in contact with and affixing to the geogrid materials. To prevent geosynthetic material from being saturated, if stored outdoors, the rolls shall be elevated from the ground surface or placed on a sacrificial sheet of plastic in an area where water will not accumulate. Rolled geogrid materials may be laid flat or stood on end.

# **GEOTEXTILE FABRIC**

Geotextile fabric, conforming to the provisions in Section 88, "Engineering Fabrics," of the Standard Specifications, and these special provisions shall be nonwoven, and placed in the geosynthetic reinforced foundation excavation at the locations shown on the plans. An approved geotextile fabric is Mirafi 140N manufactured by TenCate Geosynthetics Americas, Pendergrass, GA. Alternate geotextile fabrics may be used that meet the following requirements:

Specification	Requirement
Grab breaking load, 1-inch grip, lb, min. in each direction ASTM Designation: D 4632	120
Apparent elongation, percent, min. in each direction ASTM Designation: D 4632	50
Water flow rate, gal per minute/sq ft, min. and max. average roll value ASTM Designation: D 4491	100-150
Permittivity, sec <sup>-1</sup> , min. ASTM Designation: D 4491	1.1
Apparent opening size, inches ASTM Designation: D 4751	0.023
Ultraviolet resistance, percent, min. retained grab breaking load, 500 hours ASTM Designation: D 4355	70

# **GRANULAR FILL MATERIALS**

The granular fill material in the reinforced fill zone shall be cohesionless and free of organic material and substantially free of shale or other soft materials of poor durability. Granular fill material shall not contain slag aggregate or recycled materials such as glass, shredded tires, portland cement concrete rubble, asphaltic concrete rubble, or other unsuitable material as determined by the Engineer. Granular fill material for the geosynthetic reinforced foundations shall conform to the following requirements:

Gradation Requirements – General Conditions				
Sieve Size Percentage Passing California Test				
2"	202			
#4	202			
#40	202			
#200	0-15	202		

At excavated locations where significant groundwater is present, and where shown on the plans, granular fill material consisting of crushed rock with minimal fines meeting the following requirements shall instead be used:

Gradation Requirements – Wet Conditions				
Sieve Size Percentage Passing California Test				
2"	202			
1/2"	202			
#40	202			

Granular fill material for both general and wet gradations shall meet the following requirements, except as noted:

Property Requirements			
Test Requirement California Test			
Sand Equivalent* 12 minimum		217	
Plasticity Index* 6 maximum		204	
pH 5.5 to 10		643	

\*Not applicable to the granular fill material gradation for wet conditions.

<sup>3</sup>/<sub>4</sub>" clean crushed rock shall conform to Class 2 permeable material under Section 68-1.025 "Permeable Material" of the Standard Specifications.

# CONSTRUCTION

## Subgrade Preparation

The Contractor shall prepare the grade that is to receive the layers of geosynthetic reinforcement in accordance with the manufacturer's recommendations. The grade shall be smooth and free of loose or extraneous material and objects that may damage the geosynthetic reinforcement during installation. Relative compaction of not less than 95 percent shall be obtained in the foundation subgrade for a minimum depth of 6 inches.

## **Geosynthetic Reinforcement Placement**

Geosynthetic reinforcement shall be handled and placed in accordance with the manufacturer's recommendations and these special provisions. The geosynthetic reinforcement shall be neatly placed, pulled taut, aligned, and secured flat before backfill placement to prevent the displacement during placement and compaction of fill.

The geosynthetic reinforcement material shall be placed with the direction of maximum strength perpendicular to the abutment centerline. The Contractor shall verify correct orientation of the geosynthetic reinforcement. Each layer of geosynthetic reinforcement shall be placed onto the granular fill material to form a continuous mat. Adjacent strips of geosynthetic reinforcement placed in this manner shall be overlapped a minimum of 2 feet.

All reinforcement shall be 100 percent covered by granular fill material. Geosynthetic reinforcement shall be placed and covered with backfill in the same work shift.

During spreading and compacting of the backfill, a minimum fill thickness of 4 inches is required prior to operation of equipment over the reinforcement. Construction equipment shall not be operated or driven directly on the reinforcement. The granular fill shall be placed onto the geogrid and spread in the direction the geogrid was unrolled.

Each layer of geosynthetic reinforcement shall be placed (unrolled) into the grade to form a continuous mat. A minimum of 12 inches of compacted fill material shall be required between geosynthetic reinforcement layers.

Geogrid reinforcement may be joined with mechanical connectors, such as nylon cable ties in accordance with manufacturer recommendations. Joints in geogrid shall be pulled and held taut during backfill placement.

# **Fill Placement**

Granular fill shall be placed and compacted in thin lifts (6-inch thickness maximum) to 95 percent relative compaction. Control of moisture in the fill shall be maintained to provide required compaction.

#### MEASUREMENT AND PAYMENT

Geotextile fabric will be measured and paid for by the square yard. The contract unit price paid per square yard for geotextile fabric shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and placing all geotextile fabric, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Geosynthetic reinforcement will be measured and paid for by the square yard for the total area of the geosynthetic reinforcement as shown on the plans. Payment shall not include additional reinforcement required for overlaps. The contract unit price paid per square yard for geosynthetic reinforcement shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and placing all geosynthetic reinforcement (structural geogrid), including splicing, overlapping and anchoring, complete and in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Geosynthetic foundation granular fill will be measured and paid for by the cubic yard. The contract unit price paid per cubic yard for geosynthetic foundation granular fill shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in obtaining, placing and compacting granular fill for either general or wet gradation conditions, including the top 6-inch layers of <sup>3</sup>/<sub>4</sub>" clean crushed rock, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

## 10-1.22 REINFORCEMENT

Reinforcement shall conform to the provisions in Section 52, "Reinforcement," of the Standard Specifications and these special provisions.

The Department's mechanical splices prequalified list can be found at:

http://www.dot.ca.gov/hq/esc/approved products list/

The provisions in "Welding Quality Control" of these special provisions shall not apply to resistance butt welding.

Measurement and payment for reinforcement in structures shall conform to the provisions in Section 52-1.10, "Measurement," and Section 52-1.11, "Payment," of the Standard Specifications.

#### **10-1.23 SLOPE PROTECTION**

Slope protection shall be placed or constructed in conformance with the provisions in Section 72, "Slope Protection," of the Standard Specifications.

Rock shall be angular with not fewer than three fractured surfaces and of such shape as to form a stable, protective structure after placement. The use of rounded cobbles will not be permitted.

The Department, through an agreement with the Eldorado National Forest, can provide the Contractor with access to a local source with rock available for slope protection use at no cost. The site has an adequate supply of 8" x 12" rip rap, 18" x 24" rip rap, and boulders, already sorted. The Contractor will be responsible for providing the labor and equipment necessary, such as an excavator and portable power screening device, in order to sort rock and grade sizes other than what is already available. The rock source site is located at the base of Gerle Creek Reservoir, approximately 8 miles driving distance to the Gerle Creek project site.

SECTION 11 (BLANK)

**SECTION 12 (BLANK)** 

#### **SECTION 13 (BLANK)**

Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT Special Provisions Page SP-81

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**GENERAL**.—The work herein proposed will be financed in whole or in part with Federal funds, and therefore all of the statutes, rules and regulations promulgated by the Federal Government and applicable to work financed in whole or in part with Federal funds will apply to such work. The "Required Contract Provisions, Federal-Aid Construction Contracts, "Form FHWA 1273, are included in this Section 14. Whenever in said required contract provisions references are made to "SHA contracting officer," "SHA resident engineer," or "authorized representative of the SHA," such references shall be construed to mean "Engineer" as defined in Section 1-1.18 of the Standard Specifications.

**PERFORMANCE OF PREVIOUS CONTRACT**.—In addition to the provisions in Section II, "Nondiscrimination," and Section VII, "Subletting or Assigning the Contract," of the required contract provisions, the Contractor shall comply with the following:

The bidder shall execute the CERTIFICATION WITH RE-GARD TO THE PERFORMANCE OF PREVIOUS CON-TRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE AND THE FILING OF REQUIRED REPORTS located in the proposal. No request for subletting or assigning any portion of the contract in excess of \$10,000 will be considered under the provisions of Section VII of the required contract provisions unless such request is accompanied by the CERTIFICATION referred to above, executed by the proposed subcontractor.

**NON-COLLUSION PROVISION.**—The provisions in this section are applicable to all contracts except contracts for Federal Aid Secondary projects.

Title 23, United States Code, Section 112, requires as a condition precedent to approval by the Federal Highway Administrator of the contract for this work that each bidder file a sworn statement executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the submitted bid. A form to make the non-collusion affidavit statement required by Section 112 as a certification under penalty of perjury rather than as a sworn statement as permitted by 28, USC, Sec. 1746, is included in the proposal.

**PARTICIPATION BY DISADVANTAGED BUSINESS EN-TERPRISES IN SUBCONTRACTING.**—Part 26, Title 49, Code of Federal Regulations applies to this Federal-aid project. Pertinent sections of said Code are incorporated in part or in its entirety within other sections of these special provisions.

Schedule B-Information for Determining Joint Venture Eligibility (This form need not be filled in if all joint venture firms are DBE owned.)

1. Name of joint venture

2. Address of joint venture \_\_\_\_\_

3. Phone number of joint venture

4. Identify the firms which comprise the joint venture. (The DBE partner must complete Schedule A.)

a. Describe the role of the DBE firm in the joint venture.

b. Describe very briefly the experience and business qualifications of each non-DBE joint venturer:

5. Nature of the joint venture's business

6. Provide a copy of the joint venture agreement.

7. What is the claimed percentage of DBE ownership? \_\_\_\_

8. Ownership of joint venture: (This need not be filled in if described in the joint venture agreement, provided by question 6.).

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- a. Profit and loss sharing.
- b. Capital contributions, including equipment.
- c. Other applicable ownership interests.

9. Control of and participation in this contract. Identify by name, race, sex, and "firm" those individuals (and their titles) who are responsible for day-to-day management and policy decision making, including, but not limited to, those with prime responsibility for:

a. Financial decisions

b. Management decisions, such as:

1. Estimating \_\_\_\_

2. Marketing and sales \_\_\_\_\_

3. Hiring and firing of management personnel

4. Purchasing of major items or supplies \_\_\_\_\_

c. Supervision of field operations

Note.—If, after filing this Schedule B and before the completion of the joint venture's work on the contract covered by this regulation, there is any significant change in the information submitted, the joint venture must inform the grantee, either directly or through the prime contractor if the joint venture is a subcontractor.

#### Affidavit

"The undersigned swear that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operation of our joint venture and the intended participation by each joint venturer in the undertaking. Further, the undersigned covenant and agree to provide to grantee current, complete and accurate information regarding actual joint venture work and the payment therefor and any proposed changes in any of the joint venture arrangements and to permit the audit and examination of the books, records and files of the joint venture, or those of each joint venturer relevant to the joint venture, by authorized representatives of the grantee or the Federal funding agency. Any material misrepresentation will be grounds for terminating any contract which may be awarded and for initiating action under Federal or State laws concerning false statements."

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Name of Firm	Name of Firm
Signature	Signature
Name	Name
Title	Title
Date	Date
Date	
State of	
County of	
On this day of	, 19, before me
	, to me personally
	, did execute the foregoing affi-
	she was properly authorized by
	to execute the
affidavit and did so as his or her	
[Seal]	
	, 19, before me
	to me personally known,
	ecute the foregoing affidavit, and
	roperly authorized by (Name of
-	to execute the affidavit
and did so as his or her free act	
[Seal]	

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

#### REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

(Exclusive of Appalachian Contracts)

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#### ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

#### I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2; Section IV, paragraphs 1, 2, 3, 4, and 7; Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

#### II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively

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administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

Form 1273 — Revised 3-95 08-07-95 c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

#### 6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion. 7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 26, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. Records and Reports: The contractor shall keep such

records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

#### III NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federalaid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

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c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

# IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

#### 1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3)] issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c) the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

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#### 2. Classification:

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer with additional time is necessary

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

#### 3. Payment of Fringe Benefits:

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

#### 4. Apprentices and Trainces (Programs of the U.S. DOL) and Helpers:

#### a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training. Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprenticeship agency (where apprentices.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymanlevel hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. (4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

#### b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall reeeive the same fringe benefits apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

#### c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under an approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

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#### 5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

#### 6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

#### 7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one and one half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

#### 8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

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#### 9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

## V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

#### 1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

#### 2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

# VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

#### VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

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2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

#### VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

# IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding re-

Form 1273 — Revised 3-95 08-07-95 garding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

#### NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever being an officer, agent, or employee of the United States, or any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that \$10,000 or imprisoned not more than 5 years or both."

#### X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub. L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub. L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

#### XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

# **1.** Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

#### \* \* \* \* \*

#### Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion—Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

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d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

#### \* \* \* \* \*

# 2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the el-

Form 1273 — Revised 3-95 08-07-95 igibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

#### \* \* \* \* \*

#### Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

#### \* \* \* \* \*

# XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract,

grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

#### FEDERAL-AID FEMALE AND MINORITY GOALS

In accordance with Section II, "Nondiscrim Required Contract Provisions Federal aid		177 Sacramento, CA:	
'Required Contract Provisions Federal-aid ( Contracts" the following are the goals for female uti		SMSA Counties:	
		6920 Sacramento, CA	16.1
Goal for Women		CA Placer; CA Sacramento;	
(applies nationwide)(percent)	6.9	CA Yolo.	
The following are goals for minority utilization:		Non-SMSA Counties	14.3
		CA Butte; CA Colusa;	1 110
		CA El Dorado; CA Glenn;	
CALIFORNIA ECONOMIC AR	EA	CA Nevada; CA Sierra;	
	Goal	CA Sutter; CA Yuba.	
	(Percent)	178 Stockton-Modesto, CA:	
74 Redding, CA:	(reicent)	178 Stocktoll-Modesto, CA.	
reduing, ert.		SMSA Counties:	
Non-SMSA Counties	6.8	5170 Modesto, CA	12.3
CA Lassen; CA Modoc;		CA Stanislaus.	12.5
CA Plumas; CA Shasta;		8120 Stockton, CA	24.3
CA Siskiyou; CA Tehama.		CA San Joaquin.	
75 Euroleo CA		Non-SMSA Counties	19.8
75 Eureka, CA:		CA Alpine; CA Amador;	
Non-SMSA Counties	6.6	CA Calaveras; CA Mariposa;	
CA Del Norte; CA Humboldt;	0.0	CA Merced; CA Tuolumne.	
CA Trinity.		179 Fresno-Bakersfield, CA:	
76 San Francisco-Oakland-San Jose, CA:		SMSA Counties:	
		0680 Bakersfield, CA	19.1
SMSA Counties:		CA Kern.	17.1
7120 Salinas-Seaside-	•••	2840 Fresno, CA	26.1
Monterey, CA	28.9	CA Fresno.	
CA Monterey. 7360 San Francisco-Oakland, CA	25.6	Non-SMSA Counties	23.6
CA Alameda; CA Contra Costa;	23.0	CA Kings; CA Madera;	
CA Marin; CA San Francisco;		CA Tulare.	
CA San Mateo.		180 Los Angeles CA:	
7400 San Jose, CA	19.6	180 Los Angeles, CA:	
CA Santa Clara.		SMSA Counties:	
7485 Santa Cruz, CA	14.9	0360 Anaheim-Santa Ana-Garden	
CA Santa Cruz.		Grove, CA.	11.9
7500 Santa Rosa, CA	9.1	CA Orange.	
CA Sonoma. 8720 Vollaia Esirfield Name CA	17.1	4480 Los Angeles-Long	
8720 Vallejo-Fairfield- Napa, CA CA Napa; CA Solano	17.1	Beach, CA	28.3
CA Mapa, CA SUIAIIU		CA Los Angeles.	
Non-SMSA Counties	23.2	6000 Oxnard-Simi Valley-	<u> </u>
CA Lake; CA Mendocino;	23.2	Ventura, CA CA Ventura.	21.5
		CA ventura.	

6780 Riverside-San Bernardino- Ontario, CA CA Riverside; CA San Bernardino.	19.0
7480 Santa Barbara-Santa Maria-	
Lompoc, CA	19.7
CA Santa Barbara.	
Non-SMSA Counties	24.6
CA Inyo; CA Mono;	
CA San Luis Obispo.	
181 San Diego, CA:	
SMSA Counties	
7320 San Diego, CA	16.9
CA San Diego.	
Non-SMSA Counties	18.2
CA Imperial.	

In addition to the reporting requirements set forth elsewhere in this contract the Contractor and subcontractors holding subcontracts, not including material suppliers, of \$10,000 or more, shall submit for every month of July during which work is performed, employment data as contained under Form FHWA PR-1391 (Appendix C to 23 CFR, Part 230), and in accordance with the instructions included thereon.

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# FEDERAL REQUIREMENT TRAINING

**SPECIAL PROVISION**. -- As part of the Contractor's equal employment opportunity affirmative action program, training shall be provided as follows:

The Contractor shall provide on-the-job training to develop full journeymen in the types of trades or job classification involved.

The goal for the number of trainees or apprentices to be trained under the requirements of this special provision will be zero (0).

In the event the Contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees or apprentices are to be trained by the subcontractor, provided however, that the Contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The Contractor shall also ensure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of trainees or apprentices in each occupation shall be in their first year of apprenticeship or training.

The number of trainees or apprentices shall be distributed among the work classifications on the basis of the Contractor's needs and the availability of journeymen in the various classifications within a reasonable area of recruitment. Prior to commencing work, the Contractor shall submit to the Department for approval the number of trainees or apprentices to be trained in each selected classification and training program to be used. Furthermore, the Contractor shall specify the starting time for training in each of the classifications. The Contractor will be credited for each trainee or apprentice employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees or apprentices as provided hereinafter.

Training and upgrading of minorities and women toward journeymen status is a primary objective of this Training Special Provision. Accordingly, the Contractor shall make every effort to enroll minority and women trainees or apprentices (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees or apprentices) to the extent such persons are available within a reasonable area of recruitment. The Contractor will be responsible for demonstrating the steps that he has taken in pursuance thereof, prior to a determination as to whether the Contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not. No employee shall be employed as a trainee or apprentice in any classification in which he has successfully completed a training course leading to journeyman status or in which he has been employed as a journeyman. The Contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the Contractor's records should document the findings in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the Contractor and approved by both the Department and the Federal Highway Administration. The Department and the Federal Highway Administration will approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the Contractor and to qualify the average trainee or apprentice for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with the State of California, Department of Industrial Relations, Division of Apprenticeship Standards recognized by the Bureau and training programs approved but not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented toward construction applications. Training in the laborer classification may be permitted provided that significant and meaningful training is provided and approved by the division office.

Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training. Except as otherwise noted below, the Contractor will be reimbursed 80 cents per hour of training given an employee on this contract in accordance with an approved training program. As approved by the Engineer, reimbursement will be made for training of persons in excess of the number specified herein.

This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the Contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the Contractor where he does one or more of the following and the trainees or apprentices are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or apprentice or pays the trainee's or apprentice's wages during the offsite training period.

No payment shall be made to the Contractor if either the failure to provide the required training, or the failure to hire the trainee or apprentice as a journeyman, is caused by the

Contractor and evidences a lack of good faith on the part of the Contractor in meeting the requirements of this Training Special Provision. It is normally expected that a trainee or apprentice will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program. It is not required that all trainees or apprentices be on board for the entire length of the contract. A Contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees or apprentices specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

Only trainees or apprentices registered in a program approved by the State of California's State Administrator of Apprenticeship may be employed on the project and said trainees or apprentices shall be paid the standard wage specified under the regulations of the craft or trade at which they are employed.

The Contractor shall furnish the trainee or apprentice a copy of the program he will follow in providing the training. The Contractor shall provide each trainee or apprentice with a certification showing the type and length of training satisfactorily completed.

The Contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

# **APPENDIX** A

to the contract documents for Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

AMENDMENTS TO MAY 2006 STANDARD SPECIFICATIONS

# AMENDMENTS TO MAY 2006 STANDARD SPECIFICATIONS UPDATED JUNE 6, 2008 & SECTION 88 UPDATED JULY 30, 2010

### SECTION 0: GLOBAL REVISIONS

Issue Date: July 31, 2007

Global revisions are changes to contract documents not specific to a section of the Standard Specifications.

- In each contract document at each occurrence:
- 1. Except where existing asphalt concrete is described, replace "asphalt concrete" with "hot mix asphalt"
- 2. Except where existing AC is described, replace "AC" with "HMA" where AC means asphalt concrete

### SECTION 1: DEFINITIONS AND TERMS

Issue Date: January 18, 2008

Section 1-1.01, "General," of the Standard Specifications is amended by adding the following:

• The Department is gradually changing the style and language of the specifications. The new style and language includes:

- 1. Use of:
  - 1.1. Imperative mood
  - 1.2. Introductory modifiers
  - 1.3. Conditional clauses

#### 2. Elimination of:

- 2.1. Language variations
- 2.2. Definitions for industry-standard terms
- 2.3. Redundant specifications
- 2.4. Needless cross-references
- The use of this new style does not change the meaning of a specification not yet using this style.

• The specifications are written to the Bidder before award and the Contractor after. Before award, interpret sentences written in the imperative mood as starting with "The Bidder must" and interpret "you" as "the Bidder" and "your" as "the Bidder's." After award, interpret sentences written in the imperative mood as starting with "The Contractor must" and interpret "you" as "the Contractor" and "your" as "the Contractor's."

- Unless an object or activity is specified to be less than the total, the quantity or amount is all of the object or activity.
- All items in a list apply unless the items are specified as choices.

• Interpret terms as defined in the Contract documents. A term not defined in the Contract documents has the meaning defined in Means Illustrated Construction Dictionary, Condensed Version, Second Edition.

The 1st table in Section 1-1.02, "Abbreviations," of the Standard Specifications is amended by adding:

SSPC The Society for Protective Coatings

Section 1, "Definitions and Terms," of the Standard Specifications is amended by adding the following sections:

#### 1-1.082 BUSINESS DAY

Day on the calendar except Saturday or holiday.

### 1-1.084 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

• The California Manual on Uniform Traffic Control Devices for Streets and Highways (California MUTCD) is issued by the Department of Transportation and is the Federal Highway Administration's MUTCD 2003 Edition, as amended for use in California.

### 1-1.125 DEDUCTION

• Amount of money permanently taken from progress payment and final payment. Deductions are cumulative and are not retentions under Pub Cont Code § 7107.

### 1-1.205 FEDERAL-AID CONTRACT

• Contract that has a Federal-aid project number on the cover of the Notice to Contractors and Special Provisions.

# 1-1.245 HOLIDAY

- 1. Every Sunday
- 2. January 1st, New Year's Day
- 3. 3rd Monday in January, Birthday of Martin Luther King, Jr.
- 4. February 12th, Lincoln's Birthday
- 5. 3rd Monday in February, Washington's Birthday
- 6. March 31st, Cesar Chavez Day
- 7. Last Monday in May, Memorial Day
- 8. July 4th, Independence Day
- 9. 1st Monday in September, Labor Day
- 10. 2nd Monday in October, Columbus Day
- 11. November 11th, Veterans Day
- 12. 4th Thursday in November, Thanksgiving Day
- 13. Day after Thanksgiving Day
- 14. December 25th, Christmas Day

• If January 1st, February 12th, March 31st, July 4th, November 11th, or December 25th falls on a Sunday, the Monday following is a holiday. If November 11th falls on a Saturday, the preceding Friday is a holiday. Interpret "legal holiday" as "holiday."

# **1-1.475 WITHHOLD**

• Money temporarily or permanently taken from progress payment. Withholds are cumulative and are not retentions under Pub Cont Code § 7107.

Section 1-1.255, "Legal Holidays," of the Standard Specifications is deleted.

Section 1-1.265, "Manual on Uniform Traffic Control Devices," of the Standard Specifications is deleted.

Section 1-1.266, "Manual on Uniform Traffic Control Devices California Supplement," of the Standard Specifications is deleted.

Section 1-1.39 "State," of the Standard Specifications is amended to read:

### 1-1.39 STATE

• The State of California, including its agencies, departments, or divisions, whose conduct or action is related to the work.

#### SECTION 3: AWARD AND EXECUTION OF CONTRACT

Issue Date: August 17, 2007

Section 3-1.025, "Insurance Policies," of the Standard Specifications is amended to read:

### **3-1.025 INSURANCE POLICIES**

- The successful bidder shall submit:
- 1. Copy of its commercial general liability policy and its excess policy or binder until such time as a policy is available, including the declarations page, applicable endorsements, riders, and other modifications in effect at the time of contract execution. Standard ISO form No. CG 0001 or similar exclusions are allowed if not inconsistent with Section 7-1.12, "Indemnification and Insurance." Allowance of additional exclusions is at the discretion of the Department.
- 2. Certificate of insurance showing all other required coverages. Certificates of insurance, as evidence of required insurance for the auto liability and any other required policy, shall set forth deductible amounts applicable to each policy and all exclusions that are added by endorsement to each policy. The evidence of insurance shall provide that no cancellation, lapse, or reduction of coverage will occur without 10 days prior written notice to the Department.
- 3. A declaration under the penalty of perjury by a certified public accountant certifying the accountant has applied Generally Accepted Accounting Principles (GAAP) guidelines confirming the successful bidder has sufficient funds and resources to cover any self-insured retentions if the self-insured retention is \$50,000 or higher.

• If the successful bidder uses any form of self-insurance for workers compensation in lieu of an insurance policy, it shall submit a certificate of consent to self-insure in accordance with the provisions of Section 3700 of the Labor Code.

Section 3-1.03, "Execution of Contract," of the Standard Specifications is amended to read:

# 3-1.03 EXECUTION OF CONTRACT

• The contract shall be signed by the successful bidder and returned, together with the contract bonds and the documents identified in Section 3-1.025, "Insurance Policies," within 10 business days of receiving the contract for execution.

Section 3-1.04, "Failure to Execute Contract," of the Standard Specifications is amended to read:

# 3-1.04 FAILURE TO EXECUTE CONTRACT

• Failure of the lowest responsible bidder, the second lowest responsible bidder, or the third lowest responsible bidder to execute the contract as required in Section 3-1.03, "Execution of Contract," within 10 business days of receiving the contract for execution shall be just cause for the forfeiture of the proposal guaranty. The successful bidder may file with the Department a written notice, signed by the bidder or the bidder's authorized representative, specifying that the bidder will refuse to execute the contract if it is presented. The filing of this notice shall have the same force and effect as the failure of the bidder to execute the contract and furnish acceptable bonds within the time specified.

Section 3-1.05, "Return of Proposal Guaranties," of the Standard Specifications is amended to read:

# 3-1.05 RETURN OF PROPOSAL GUARANTIES

• The Department keeps the proposal guaranties of the 1st, 2nd and 3rd lowest responsible bidders until the contract has been executed. The other bidders' guaranties, other than bidders' bonds, are returned upon determination of the 1st, 2nd, and 3rd apparent lowest bidders, and their bidders' bonds are of no further effect.

# SECTION 4: SCOPE OF WORK

Issue Date: August 17, 2007

Section 4-1.01, "Intent of Plans and Specifications," of the Standard Specifications is amended by adding the following:

• Nothing in the specifications voids the Contractor's public safety responsibilities.

# SECTION 5: CONTROL OF WORK

Issue Date: February 1, 2008

Section 5, "Control of Work," of the Standard Specifications is amended by adding the following sections:

# 5-1.005 GENERAL

• Failure to comply with any specification part is a breach of the contract and a waiver of your right to time or payment adjustment.

• After contract approval, submit documents and direct questions to the Engineer. Orders, approvals, and requests to the Contractor are by the Engineer.

- The Engineer furnishes the following in writing:
- 1. Approvals
- 2. Notifications
- 3. Orders
- The Contractor must furnish the following in writing:
- 1. Assignments
- 2. Notifications
- 3. Proposals
- 4. Requests, sequentially numbered
- 5. Subcontracts
- 6. Test results
- The Department rejects a form if it has any error or any omission.
- Convert foreign language documents to English.
- Use contract administration forms available at the Department's Web site.

• If the last day for submitting a document falls on a Saturday or holiday, it may be submitted on the next business day with the same effect as if it had been submitted on the day specified.

### 5-1.015 RECORD RETENTION, INSPECTION, COPYING, AND AUDITING

• Retain project records and make them available for inspection, copying, and auditing by State representatives from bid preparation through:

- 1. Final payment
- 2. Resolution of claims, if any

• For at least 3 years after the later of these, retain and make available for inspection, copying, and auditing cost records by State representatives including:

- 1. Records pertaining to bid preparation
- 2. Overhead
- 3. Payroll records and certified payroll
- 4. Payments to suppliers and subcontractors
- 5. Cost accounting records
- 6. Records of subcontractors and suppliers

• Maintain the records in an organized way in the original format, electronic and hard copy, conducive to professional review and audit.

• Before contract acceptance, the State representative notifies the Contractor, subcontractor, or supplier 5 days before inspection, copying, or auditing.

• If an audit is to start more than 30 days after contract acceptance, the State representative notifies the Contractor, subcontractor, or supplier when the audit is to start.

Section 5-1.01, "Authority of Engineer," of the Standard Specifications is amended by adding:

• Failure to enforce a contract provision does not waive enforcement of any contract provision.

Section 5-1.04, "Coordination and Interpretation of Plans, Standard Specifications, and Special Provisions," of the Standard Specifications is amended to read:

# 5-1.04 CONTRACT COMPONENTS

• A component in one contract part applies as if appearing in each. The parts are complementary and describe and provide for a complete work.

- If a discrepancy exists:
- 1. The governing ranking of contract parts in descending order is:
  - 1.1. Special provisions
  - 1.2. Project plans
  - 1.3. Revised Standard Plans
  - 1.4. Standard Plans
  - 1.5. Amendments to the Standard Specifications
  - 1.6. Standard Specifications
  - 1.7. Project information
- 2. Written numbers and notes on a drawing govern over graphics
- 3. A detail drawing governs over a general drawing
- 4. A detail specification governs over a general specification
- 5. A specification in a section governs over a specification referenced by that section
- If a discrepancy is found or confusion arises, request correction or clarification.

Section 5-1.07, "Lines and Grades," of the Standard Specifications is replaced with the following:

### 5-1.07 LINES AND GRADES

• The Engineer places stakes and marks under Chapter 12, "Construction Surveys," of the Department's Surveys Manual.

- Submit your request for Department-furnished stakes:
- 1. On a Request for Construction Stakes form. Ensure:
  - 1.1. Requested staking area is ready for stakes
  - 1.2. You use the stakes in a reasonable time
- 2. A reasonable time before starting an activity using the stakes
- Establish priorities for stakes and note priorities on the request.

• Preserve stakes and marks placed by the Engineer. If the stakes or marks are destroyed, the Engineer replaces them at the Engineer's earliest convenience and deducts the cost.

Section 5-1.116, "Differing Site Conditions," is amended to read:

# 5-1.116 DIFFERING SITE CONDITIONS (23 CFR 635.109)

#### 5-1.116A Contractor's Notification

- Promptly notify the Engineer if you find either of the following:
- 1. Physical conditions differing materially from either of the following:
  - 1.1. Contract documents
  - 1.2. Job site examination
- 2. Physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract
- Include details explaining the information you relied on and the material differences you discovered.

• If you fail to notify the Engineer promptly, you waive the differing site condition claim for the period between your discovery of the differing site condition and your notification to the Engineer.

• If you disturb the site after discovery and before the Engineer's investigation, you waive the differing site condition claim.

### 5-1.116B Engineer's Investigation and Decision

- Upon your notification, the Engineer investigates job site conditions and:
- 1. Notifies you whether to resume affected work
- 2. Decides whether the condition differs materially and is cause for an adjustment of time, payment, or both

### 5-1.116C Protests

- You may protest the Engineer's decision by:
- 1. Submitting an Initial Notice of Potential Claim within 5 business days after receipt of the Engineer's notification
- 2. Complying with claim procedures

• The Initial Notice of Potential Claim must detail the differences in your position from the Engineer's determination and support your position with additional information, including additional geotechnical data. Attach to the Initial Notice of Potential Claim a certification stating that you complied with Section 2-1.03, "Examination of Plans, Specifications, Contract, and Site of Work."

• Promptly submit supplementary information when obtained.

### SECTION 6: CONTROL OF MATERIALS

Issue Date: August 17, 2007

Section 6-1.05, "Trade Names and Alternatives," of the Standard Specifications is amended to read:

### 6-1.05 Specific Brand or Trade Name and Substitution

• A reference to a specific brand or trade name establishes a quality standard and is not intended to limit competition. You may use a product that is equal to or better than the specified brand or trade name if approved.

- Submit a substitution request within a time period that:
- 1. Follows Contract award
- 2. Allows 30 days for review
- 3. Causes no delay
- Include substantiating data with the substitution request that proves the substitution:
- 1. Is of equal or better quality and suitability
- 2. Causes no delay in product delivery and installation

Section 6, "Control of Materials," of the Standard Specifications is amended by adding the following sections:

# 6-1.085 BUY AMERICA (23 CFR 635.410)

• For a Federal-aid contract, furnish steel and iron materials to be incorporated into the work that are produced in the United States except:

- 1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials [60 Fed Reg 15478 (03/24/1995)]
- 2. If the total combined cost of the materials does not exceed the greater of 0.1 percent of the total bid or \$2,500, material produced outside the United States may be used
- Production includes:

- 1. Processing steel and iron materials, including smelting or other processes that alter the physical form or shape (such as rolling, extruding, machining, bending, grinding, and drilling) or chemical composition
- 2. Coating application, including epoxy coating, galvanizing, and painting, that protects or enhances the value of steel and iron materials

• For steel and iron materials to be incorporated into the work, submit a Certificate of Compliance under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications that certifies all production processes occurred in the United States except for the above exceptions.

# 6-1.087 BUY AMERICA (PUB RES CODE § 42703(d))

• Furnish crumb rubber to be incorporated into the work that is produced in the United States and is derived from waste tires taken from vehicles owned and operated in the United States.

• For crumb rubber to be incorporated into the work, submit a Certificate of Compliance under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications that certifies only crumb rubber manufactured in the United States and derived from waste tires taken from vehicles owned and operated in the United States is used.

The 7th and 8th paragraph of Section 6-2.01, "General," of the Standard Specifications are amended to read:

• Upon the Contractor's written request, the Department tests materials from an untested local source. If satisfactory material from that source is used in the work, the Department does not charge the Contractor for the tests; otherwise, the Department deducts the test cost.

The 2nd sentence of the 7th paragraph of Section 6-2.02, "Possible Local Material Sources," of the Standard Specifications is amended to read:

• The Department deducts the charges for the removed material.

# SECTION 7: LEGAL RELATIONS AND RESPONSIBILITIES

Issue Date: May 2, 2008

Section 7-1.01, "Laws To Be Observed," of the Standard Specifications is amended to read:

# 7-1.01 LAWS TO BE OBSERVED

• Comply with laws, regulations, orders, decrees, and permits applicable to the project. Indemnify and defend the State against any claim or liability arising from the violation of a law, regulation, order, decree, or permit by you or your employees. Immediately report to the Engineer in writing a discrepancy or inconsistency between the contract and a law, regulation, order, decree, or permit.

The 3rd listed requirement of the 1st paragraph of Section 7-1.01A(2), "Prevailing Wage," of the Standard Specifications is amended to read:

3. Upon becoming aware of the subcontractor's failure to pay the specified prevailing rate of wages to the subcontractor's workers, the Contractor must diligently take corrective action to stop or rectify the failure, including withholding sufficient funds due the subcontractor for work performed on the public works project.

The 2nd paragraph of Section 7-1.01A(2), "Prevailing Wage," of the Standard Specifications is amended to read:

• Pursuant to Section 1775 of the Labor Code, the Division of Labor Standards Enforcement must notify the Contractor on a public works project within 15 days of the receipt by the Division of Labor Standards Enforcement of a complaint of the failure of a subcontractor on that public works project to pay workers the general prevailing rate of per diem wages. If the Division of Labor Standards Enforcement determines that employees of a subcontractor were not paid the general prevailing rate of per diem wages and if the Department did not withhold sufficient money under the contract to pay those employees the balance of wages owed under the general prevailing rate of per diem wages, the Contractor must withhold an amount of moneys due the subcontractor sufficient to pay those employees the general prevailing rate of per diem wages if requested by the Division of Labor Standards Enforcement. The Contractor must pay any money withheld from and owed to a subcontractor upon receipt of notification by the Division of Labor Standards Enforcement that the wage

complaint has been resolved. If notice of the resolution of the wage complaint has not been received by the Contractor within 180 days of the filing of a valid notice of completion or acceptance of the public works project, whichever occurs later, the Contractor must pay all moneys withheld from the subcontractor to the Department. The Department withholds these moneys pending the final decision of an enforcement action.

The 2nd paragraph of Section 7-1.01A(3), "Payroll Records," of the Standard Specifications is amended to read:

• The Department withholds the penalties specified in subdivision (g) of Labor Code § 1776 for noncompliance with the requirements in Section 1776.

The 4th paragraph of Section 7-1.01A(3), "Payroll Records," of the Standard Specifications is amended to read:

• The Department withholds for delinquent or inadequate payroll records (Labor Code § 1771.5). If the Contractor has not submitted an adequate payroll record by the month's 15th day for the period ending on or before the 1st of that month, the Department withholds 10 percent of the monthly progress estimate, exclusive of mobilization. The Department does not withhold more than \$10,000 or less than \$1,000.

The 5th paragraph of Section 7-1.01A(3), "Payroll Records," of the Standard Specifications is deleted.

Section 7-1.01A(6), "Workers' Compensation," of the Standard Specifications is amended to read:

# 7-1.01A(6) (Blank)

The fourth sentence of the second paragraph of Section 7-1.02, "Load Limitations," of the Standard Specifications is amended to read:

• Trucks used to haul treated base, portland cement concrete, or hot mix asphalt shall enter onto the base to dump at the nearest practical entry point ahead of spreading equipment.

Section 7-1.02, "Load Limitations," of the Standard Specifications is amended by adding the following paragraph after the 4th paragraph:

• Loads imposed on existing, new, or partially completed structures shall not exceed the load carrying capacity of the structure or any portion of the structure as determined by AASHTO LRFD with interims and California Amendments, Design Strength Limit State II. The compressive strength of concrete ( $f_c$ ) to be used in computing the load carrying capacity shall be the smaller of the following:

- 1. Actual compressive strength at the time of loading
- 2. Value of  $f_c$  shown on the plans for that portion of the structure or 2.5 times the value of  $f_c$  (extreme fiber compressive stress in concrete at service loads) shown on the plans for portions of the structure where no  $f_c$  is shown

The first sentence of the eighth paragraph of Section 7-1.09, "Public Safety," of the Standard Specifications is amended to read:

• Signs, lights, flags, and other warning and safety devices and their use shall conform to the requirements set forth in Part 6 of the California MUTCD.

The sixteenth paragraph of Section 7-1.09, "Public Safety," of the Standard Specifications is amended to read:

• When vertical clearance is temporarily reduced to 15.5 feet or less, low clearance warning signs shall be placed in accordance with Part 2 of the California MUTCD and as directed by the Engineer. Signs shall conform to the dimensions, color, and legend requirements of the California MUTCD and these specifications except that the signs shall have black letters and numbers on an orange retroreflective background. W12-2P signs shall be illuminated so that the signs are clearly visible.

The last sentence of the 2nd paragraph of Section 7-1.11, "Preservation of Property," of the Standard Specifications is amended to read:

• The cost of the repairs must be borne by the Contractor and will be deducted.

Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications is amended to read:

### 7-1.12 INDEMNIFICATION AND INSURANCE

• The Contractor's obligations regarding indemnification of the State of California and the requirements for insurance shall conform to the provisions in Section 3-1.025, "Insurance Policies," and Sections 7-1.12A, "Indemnification," and 7-1.12B, "Insurance," of this Section 7-1.12.

### 7-1.12A Indemnification

• The Contractor shall defend, indemnify, and save harmless the State, including its officers, employees, and agents (excluding agents who are design professionals) from any and all claims, demands, causes of action, damages, costs, expenses, actual attorneys' fees, losses or liabilities, in law or in equity (Section 7-1.12A Claims) arising out of or in connection with the Contractor's performance of this contract for:

- 1. Bodily injury including, but not limited to, bodily injury, sickness or disease, emotional injury or death to persons, including, but not limited to, the public, any employees or agents of the Contractor, the State, or any other contractor; and
- 2. Damage to property of anyone including loss of use thereof; caused or alleged to be caused in whole or in part by any negligent or otherwise legally actionable act or omission of the Contractor or anyone directly or indirectly employed by the Contractor or anyone for whose acts the Contractor may be liable.

• Except as otherwise provided by law, these requirements apply regardless of the existence or degree of fault of the State. The Contractor is not obligated to indemnify the State for Claims arising from conduct delineated in Civil Code Section 2782 and to Claims arising from any defective or substandard condition of the highway that existed at or before the start of work, unless this condition has been changed by the work or the scope of the work requires the Contractor to maintain existing highway facilities and the Claim arises from the Contractor's failure to maintain. The Contractor's defense and indemnity obligation shall extend to Claims arising after the work is completed and accepted if the Claims are directly related to alleged acts or omissions by the Contractor that occurred during the course of the work. State inspection is not a waiver of full compliance with these requirements.

• The Contractor's obligation to defend and indemnify shall not be excused because of the Contractor's inability to evaluate liability or because the Contractor evaluates liability and determine that the Contractor is not liable. The Contractor shall respond within 30 days to the tender of any Claim for defense and indemnity by the State, unless this time has been extended by the State. If the Contractor fails to accept or reject a tender of defense and indemnity within 30 days, in addition to any other remedy authorized by law, the Department may withhold such funds the State reasonably considers necessary for its defense and indemnity until disposition has been made of the Claim or until the Contractor accepts or rejects the tender of defense, whichever occurs first.

• With respect to third-party claims against the Contractor, the Contractor waives all rights of any type to express or implied indemnity against the State, its officers, employees, or agents (excluding agents who are design professionals).

• Nothing in the Contract is intended to establish a standard of care owed to any member of the public or to extend to the public the status of a third-party beneficiary for any of these indemnification specifications.

# 7-1.12B Insurance

#### 7-1.12B(1) General

• Nothing in the contract is intended to establish a standard of care owed to any member of the public or to extend to the public the status of a third-party beneficiary for any of these insurance specifications.

# 7-1.12B(2) Casualty Insurance

• The Contractor shall procure and maintain insurance on all of its operations with companies acceptable to the State as follows:

1. The Contractor shall keep all insurance in full force and effect from the beginning of the work through contract acceptance.

- 2. All insurance shall be with an insurance company with a rating from A.M. Best Financial Strength Rating of A- or better and a Financial Size Category of VII or better.
- 3. The Contractor shall maintain completed operations coverage with a carrier acceptable to the State through the expiration of the patent deficiency in construction statute of repose set forth in Code of Civil Procedure Section 337.1.

### 7-1.12B(3) Workers' Compensation and Employer's Liability Insurance

• In accordance with Labor Code Section 1860, the Contractor shall secure the payment of worker's compensation in accordance with Labor Code Section 3700.

• In accordance with Labor Code Section 1861, the Contractor shall submit to the Department the following certification before performing the work:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

- Contract execution constitutes certification submittal.
- The Contractor shall provide Employer's Liability Insurance in amounts not less than:
- 1. \$1,000,000 for each accident for bodily injury by accident
- 2. \$1,000,000 policy limit for bodily injury by disease
- 3. \$1,000,000 for each employee for bodily injury by disease

• If there is an exposure of injury to the Contractor's employees under the U.S. Longshoremen's and Harbor Workers' Compensation Act, the Jones Act, or under laws, regulations, or statutes applicable to maritime employees, coverage shall be included for such injuries or claims.

### 7-1.12B(4) Liability Insurance

### 7-1.12B(4)(a) General

• The Contractor shall carry General Liability and Umbrella or Excess Liability Insurance covering all operations by or on behalf of the Contractor providing insurance for bodily injury liability and property damage liability for the following limits and including coverage for:

- 1. Premises, operations, and mobile equipment
- 2. Products and completed operations
- 3. Broad form property damage (including completed operations)
- 4. Explosion, collapse, and underground hazards
- 5. Personal injury
- 6. Contractual liability

#### 7-1.12B(4)(b) Liability Limits/Additional Insureds

• The limits of liability shall be at least the amounts shown in the following table:

Total Bid	For Each	Aggregate for	General	Umbrella or
	Occurrence <sup>1</sup>	Products/Completed	Aggregate <sup>2</sup>	Excess Liability <sup>3</sup>
		Operation		
≤\$1,000,000	\$1,000,000	\$2,000,000	\$2,000,000	\$5,000,000
>\$1,000,000				
≤\$5,000,000	\$1,000,000	\$2,000,000	\$2,000,000	\$10,000,000
>\$5,000,000				
≤\$25,000,000	\$2,000,000	\$2,000,000	\$4,000,000	\$15,000,000
>\$25,000,000	\$2,000,000	\$2,000,000	\$4,000,000	\$25,000,000
1. Combined single limit for bodily injury and property damage.				
2. This limit shall apply separately to the Contractor's work under this contract.				
3. The umbrella or excess policy shall contain a clause stating that it takes effect (drops				

down) in the event the primary limits are impaired or exhausted.

• The Contractor shall not require certified Small Business subcontractors to carry Liability Insurance that exceeds the limits in the table above. Notwithstanding the limits specified herein, at the option of the Contractor, the liability insurance limits for certified Small Business subcontractors of any tier may be less than those limits specified in the table. For Small Business subcontracts, "Total Bid" shall be interpreted as the amount of subcontracted work to a certified Small Business.

• The State, including its officers, directors, agents (excluding agents who are design professionals), and employees, shall be named as additional insureds under the General Liability and Umbrella Liability Policies with respect to liability arising out of or connected with work or operations performed by or on behalf of the Contractor under this contract. Coverage for such additional insureds does not extend to liability:

- 1. Arising from any defective or substandard condition of the roadway which existed at or before the time the Contractor started work, unless such condition has been changed by the work or the scope of the work requires the Contractor to maintain existing roadway facilities and the claim arises from the Contractor's failure to maintain;
- 2. For claims occurring after the work is completed and accepted unless these claims are directly related to alleged acts or omissions of the Contractor that occurred during the course of the work; or
- 3. To the extent prohibited by Insurance Code Section 11580.04

• Additional insured coverage shall be provided by a policy provision or by an endorsement providing coverage at least as broad as Additional Insured (Form B) endorsement form CG 2010, as published by the Insurance Services Office (ISO), or other form designated by the Department.

# 7-1.12B(4)(c) Contractor's Insurance Policy is Primary

• The policy shall stipulate that the insurance afforded the additional insureds applies as primary insurance. Any other insurance or self-insurance maintained by the State is excess only and shall not be called upon to contribute with this insurance.

# 7-1.12B(5) Automobile Liability Insurance

• The Contractor shall carry automobile liability insurance, including coverage for all owned, hired, and nonowned automobiles. The primary limits of liability shall be not less than \$1,000,000 combined single limit each accident for bodily injury and property damage. The umbrella or excess liability coverage required under Section 7-1.12B(4)(b) also applies to automobile liability.

# 7-1.12B(6) Policy Forms, Endorsements, and Certificates

• The Contractor shall provide its General Liability Insurance under Commercial General Liability policy form No. CG0001 as published by the Insurance Services Office (ISO) or under a policy form at least as broad as policy form No. CG0001.

# 7-1.12B(7) Deductibles

• The State may expressly allow deductible clauses, which it does not consider excessive, overly broad, or harmful to the interests of the State. Regardless of the allowance of exclusions or deductions by the State, the Contractor is responsible for any deductible amount and shall warrant that the coverage provided to the State is in accordance with Section 7-1.12B, "Insurance."

#### 7-1.12B(8) Enforcement

• The Department may assure the Contractor's compliance with its insurance obligations. Ten days before an insurance policy lapses or is canceled during the contract period, the Contractor shall submit to the Department evidence of renewal or replacement of the policy.

• If the Contractor fails to maintain any required insurance coverage, the Department may maintain this coverage and withhold or charge the expense to the Contractor or terminate the Contractor's control of the work in accordance with Section 8-1.08, "Termination of Control."

• The Contractor is not relieved of its duties and responsibilities to indemnify, defend, and hold harmless the State, its officers, agents, and employees by the Department's acceptance of insurance policies and certificates.

• Minimum insurance coverage amounts do not relieve the Contractor for liability in excess of such coverage, nor do they preclude the State from taking other actions available to it, including the withholding of funds under this contract.

#### 7-1.12B(9) Self-Insurance

• Self-insurance programs and self-insured retentions in insurance policies are subject to separate annual review and approval by the State.

• If the Contractor uses a self-insurance program or self-insured retention, the Contractor shall provide the State with the same protection from liability and defense of suits as would be afforded by first-dollar insurance. Execution of the contract is the Contractor's acknowledgement that the Contractor will be bound by all laws as if the Contractor were an insurer as defined under Insurance Code Section 23 and that the self-insurance program or self-insured retention shall operate as insurance as defined under Insurance Code Section 22.

#### SECTION 8: PROSECUTION AND PROGRESS

Issue Date: August 17, 2007

The 2nd paragraph of Section 8-1.02, "Assignment," of the Standard Specifications is amended to read:

• If the Contractor assigns the right to receive contract payments, the Department accepts the assignment upon the Engineer's receipt of a notice. Assigned payments remain subject to deductions and withholds described in the contract. The Department may use withheld payments for work completion whether payments are assigned or not.

#### SECTION 9: MEASUREMENT AND PAYMENT

Issue Date: August 17, 2007

The last sentence of the 1st paragraph of Section 9-1.02, "Scope of Payment," of the Standard Specifications is amended to read:

• Neither the payment of any estimate nor of any retained percentage or withhold relieves the Contractor of any obligation to make good any defective work or material.

The 6th paragraph of Section 9-1.03C, "Records," of the Standard Specifications is deleted.

The 2nd sentence of the 14th paragraph of Section 9-1.04, "Notice of Potential Claim," of the Standard Specifications is amended to read:

• Administrative disputes are disputes of administrative deductions or withholds, contract item quantities, contract item adjustments, interest payments, protests of contract change orders as provided in Section 4-1.03A, "Procedure and Protest," and protests of the Weekly Statement of Working Days as provided in Section 8-1.06, "Time of Completion."

Section 9-1.05, "Stop Notices," of the Standard Specifications is amended to read:

#### 9-1.05 STOP NOTICE WITHHOLDS

• The Department may withhold payments to cover claims filed under Civ Code § 3179 et seq.

Section 9, "Measurement and Payment," of the Standard Specifications is amended by adding the following sections:

### 9-1.053 PERFORMANCE FAILURE WITHHOLDS

• During each estimate period you fail to comply with a contract part, including submittal of a document as specified, the Department withholds a part of the progress payment. The documents include quality control plans, schedules, traffic control plans, and water pollution control submittals.

• For 1 performance failure, the Department withholds 25 percent of the progress payment but does not withhold more than 10 percent of the total bid.

• For multiple performance failures, the Department withholds 100 percent of the progress payment but does not withhold more than 10 percent of the total bid.

• The Department returns performance-failure withholds in the progress payment following the correction of noncompliance.

### 9-1.055 PENALTY WITHHOLDS

• Penalties include fines and damages that are proposed, assessed, or levied against you or the Department by a governmental agency or citizen lawsuit. Penalties are also payments made or costs incurred in settling alleged permit violations of Federal, State, or local laws, regulations, or requirements. The cost incurred may include the amount spent for mitigation or correcting a violation.

• If you or the Department is assessed a penalty, the Department may withhold the penalty amount until the penalty disposition has been resolved. The Department may withhold penalty funds and notify you within 15 days of the withhold. If the penalty amount is less than the amount being withheld from progress payments for retentions, the Department will not withhold the penalty amount.

• If the penalty is resolved for less than the amount withheld, the Department pays interest at a rate of 6 percent per year on the excess withhold. If the penalty is not resolved, the withhold becomes a deduction.

• Instead of the withhold, you may provide a bond payable to the Department of Transportation equal to the highest estimated liability for any disputed penalties proposed.

# 9-1.057 PROGRESS WITHHOLDS FOR FEDERAL-AID CONTRACTS

• Section 9-1.057, "Progress Withholds for Federal-Aid Contracts," applies to a Federal-aid contract.

• The Department withholds 10 percent of a partial payment for noncompliant progress. Noncompliant progress occurs when:

1. Total days to date exceed 75 percent of the revised contract working days

2. Percent of working days elapsed exceeds the percent of value of work completed by more than 15 percent

• The Engineer determines the percent of working days elapsed by dividing the total days to date by the revised contract working days and converting the quotient to a percentage.

• The Engineer determines the percent of value of work completed by summing payments made to date and the amount due on the current progress estimate, dividing this sum by the current total estimated value of the work, and converting the quotient to a percentage. These amounts are shown on the Progress Payment Voucher.

• When the percent of working days elapsed minus the percent of value of work completed is less than or equal to 15 percent, the Department returns the withhold in the next progress payment.

The 3rd paragraph of Section 9-1.06, "Partial Payments," of the Standard Specifications is amended to read:

• For a non-Federal-aid project, the Department retains 10 percent of the estimated value of the work done and 10 percent of the value of materials estimated to have been furnished and delivered and unused or furnished and stored as part security for the fulfillment of the contract by the Contractor, except that at any time after 20 percent of the work has been completed, if the Engineer finds that satisfactory progress is being made, the Department may reduce the total amount being retained from payment pursuant to the above requirements to 5 percent of the total estimated value of the work and materials and may also reduce the amount retained from any of the remaining partial payments to 5 percent of the estimated value of the work has been completed, the Department may reduce the amount retained from payment pursuant to the requirements of the section 9-1.06, to such lesser amount as the Department determines is adequate security for the fulfillment of the estimated value of the work yet to be completed as determined by the Engineer. The reduction is made only upon the request of the Contractor and must be approved in writing by the surety on the performance bond and by the surety on the payment bond. The approval of the surety must be properly acknowledged and the power of attorney authorizing the person to give that consent must

either accompany the document or be on file with the Department. The retentions specified in this paragraph are those defined in Pub Cont Code § 7107(b).

The 1st sentence of the 4th paragraph of Section 9-1.06, "Partial Payments," of the Standard Specifications is amended to read:

• The Department shall pay monthly to the Contractor, while carrying on the work, the balance not retained, as aforesaid, after deducting therefrom all previous payments and all sums to be deducted or withheld under the provisions of the contract.

The title and 1st and 2nd paragraphs of Section 9-1.065, "Payment of Withheld Funds," of the Standard Specifications are amended to read:

### 9-1.065 RELEASE OF RETAINED FUNDS

- The Department releases retained funds if you:
- 1. Request release of the retention (Pub Cont Code § 10263) in writing
- 2. Deposit securities equivalent to the funds you want released into escrow with the State Treasurer or with a bank acceptable to the Department
- 3. Are the beneficial owner of and receive interest on the deposited securities substituted for the retained funds

The 2nd sentence Section 9-1.07A, "Payment Prior to Proposed Final Estimate," of the Standard Specifications is amended to read:

• The Department pays the balance due less previous payments, deductions, withholds, and retentions under the provisions of the contract and those further amounts that the Engineer determines to be necessary pending issuance of the proposed final estimate and payment thereon.

The 1st paragraph of Section 9-1.07B, "Final Payment and Claims," of the Standard Specifications is amended to read:

• After acceptance by the Director, the Engineer makes a proposed final estimate of the total amount payable to the Contractor, including an itemization of the total amount, segregated by contract item quantities, extra work, and other basis for payment, and shows each deduction made or to be made for prior payments and amounts to be deducted, withheld, or retained under the provisions of the contract. Prior estimates and payments are subject to correction in the proposed final estimate. The Contractor must submit written approval of the proposed final estimate or a written statement of claims arising under or by virtue of the contract so that the Engineer receives the written approval or statement of claims no later than close of business of the 30th day after receiving the proposed final estimate. The Contractor's receipt of the proposed final estimate must be evidenced by postal receipt. The Engineer's receipt of the Contractor's written approval or statement of claims must be evidenced by postal receipt or the Engineer's written receipt if delivered by hand.

# SECTION 12: CONSTRUCTION AREA TRAFFIC CONTROL DEVICES

Issue Date: October 6, 2006

The first sentence of the second paragraph of Section 12-1.01, "Description," of the Standard Specifications is amended to read:

• Attention is directed to Part 6 of the California MUTCD.

Section 12-2.01, "Flaggers," of the Standard Specifications is amended to read:

# 12-2.01 FLAGGERS

• Flaggers while on duty and assigned to traffic control or to give warning to the public that the highway is under construction and of any dangerous conditions to be encountered as a result thereof, shall perform their duties and shall be provided with the necessary equipment in conformance with Part 6 of the California MUTCD. The equipment shall be furnished and kept clean and in good repair by the Contractor at the Contractor's expense.

The first paragraph of Section 12-3.01, "General," of the Standard Specifications is amended to read:

• In addition to the requirements in Part 6 of the California MUTCD, all devices used by the Contractor in the performance of the work shall conform to the provisions in this Section 12-3.

The second sentence of the first paragraph of Section 12-3.06, "Construction Area Signs," of the Standard Specifications is amended to read:

• Construction area signs are shown in or referred to in Part 6 of the California MUTCD.

The first sentence of the fourth paragraph of Section 12-3.06, "Construction Area Signs," of the Standard Specifications is amended to read:

• All construction area signs shall conform to the dimensions, color and legend requirements of the plans, Part 6 of the California MUTCD and these specifications.

The first sentence of the eighth paragraph of Section 12-3.06, "Construction Area Signs," of the Standard Specifications is amended to read:

• Used signs with the specified sheeting material will be considered satisfactory if they conform to the requirements for visibility and legibility and the colors conform to the requirements in Part 6 of the California MUTCD.

# **SECTION 19: EARTHWORK**

Issue Date: July 31, 2007

Section 19-1.03, "Grade Tolerance," of the Standard Specifications is amended to read:

• Immediately prior to placing subsequent layers of material thereon, the grading plane shall conform to one of the following:

- A. When hot mix asphalt is to be placed on the grading plane, the grading plane at any point shall not vary more than 0.05-foot above or below the grade established by the Engineer.
- B. When subbase or base material to be placed on the grading plane is to be paid for by the ton, the grading plane at any point shall not vary more than 0.10-foot above or below the grade established by the Engineer.
- C. When the material to be placed on the grading plane is to be paid for by the cubic yard, the grading plane at any point shall be not more than 0.05-foot above the grade established by the Engineer.

The first paragraph of Section 19-3.025C, "Soil Cement Bedding," of the Standard Specifications is amended to read:

• Cementitious material used in soil cement bedding shall conform to the provisions in Section 90-2.01, "Cementitious Materials." Supplementary cementitious material will not be required.

The fourth paragraph of Section 19-3.025C, "Soil Cement Bedding," of the Standard Specifications is amended to read:

• The aggregate, cementitious material, and water shall be proportioned either by weight or by volume. Soil cement bedding shall contain not less than 282 pounds of cementitious material per cubic yard. The water content shall be sufficient to produce a fluid, workable mix that will flow and can be pumped without segregation of the aggregate while being placed.

The first paragraph of Section 19-3.062, "Slurry Cement Backfill," of the Standard Specifications is amended to read:

• Slurry cement backfill shall consist of a fluid, workable mixture of aggregate, cementitious material, and water.

The fifth paragraph of Section 19-3.062, "Slurry Cement Backfill," of the Standard Specifications is amended to read:

• Cementitious material shall conform to the provisions in Section 90-2.01, "Cementitious Materials." Supplementary cementitious material will not be required.

The eighth paragraph of Section 19-3.062, "Slurry Cement Backfill," of the Standard Specifications is amended to read:

• The aggregate, cementitious material, and water shall be proportioned either by weight or by volume. Slurry cement backfill shall contain not less than 188 pounds of cementitious material per cubic yard. The water content shall be sufficient to produce a fluid, workable mix that will flow and can be pumped without segregation of the aggregate while being placed.

### SECTION 20: EROSION CONTROL AND HIGHWAY PLANTING

Issue Date: August 17, 2007

Section 20-2.03, "Soil Amendment," of the Standard Specifications is amended to read:

### 20-2.03 SOIL AMENDMENT

- Soil amendment shall comply with the requirements in the California Food and Agricultural Code.
- Soil amendment producers shall comply with the following:
- 1. Be fully permitted to produce compost as specified under the California Integrated Waste Management Board, Local Enforcement Agencies and any other State and Local Agencies that regulate Solid Waste Facilities. If exempt from State permitting requirements, the composting facility must certify that it follows guidelines and procedures for production of compost meeting the environmental health standards of Title 14, California Code of Regulations, Division 7, Chapter 3.1, Article 7.
- 2. Be a participant in United States Composting Council's Seal of Testing Assurance program.

• Soil amendment shall be composted and may be derived from any single, or mixture of any of the following feedstock materials:

- 1. Green material consisting of chipped, shredded, or ground vegetation; or clean processed recycled wood products
- 2. Biosolids
- 3. Manure
- 4. Mixed food waste

• Soil amendment feedstock materials shall be composted to reduce weed seeds, pathogens and deleterious materials as specified under Title 14, California Code of Regulations, Division 7, Chapter 3.1, Article 7, Section 17868.3.

• Soil amendment shall not be derived from mixed municipal solid waste and must be reasonably free of visible contaminates. Soil amendment must not contain paint, petroleum products, pesticides or any other chemical residues harmful to animal life or plant growth. Soil amendment must not possess objectionable odors.

• Metal concentrations in soil amendment must not exceed the maximum metal concentrations listed in Title 14, California Code of Regulations, Division 7, Chapter 3.1, Section 17868.2.

• Soil amendment must comply with the following:

	Physical/Chemical Requirements	
Property	Test Method	Requirement
рН	*TMECC 04.11-A, Elastometric pH 1:5 Slurry Method, pH Units	6.0-8.0
Soluble Salts	TMECC 04.10-A, Electrical Conductivity 1:5 Slurry Method dS/m (mmhos/cm)	0-10.0
Moisture Content	TMECC 03.09-A, Total Solids & Moisture at 70+/- 5 deg C, % Wet Weight Basis	30–60
Organic Matter Content	TMECC 05.07-A, Loss-On-Ignition Organic Matter Method (LOI), % Dry Weight Basis	30–65
Maturity	TMECC 05.05-A, Germination and Vigor Seed Emergence Seedling Vigor % Relative to Positive Control	80 or Above 80 or Above
Stability	TMECC 05.08-B, Carbon Dioxide Evolution Rate mg $CO_2$ -C/g OM per day	8 or below
Particle Size	TMECC 02.02-B Sample Sieving for Aggregate Size Classification % Dry Weight Basis	95% Passing 5/8 inch 70% Passing 3/8 inch
Pathogen	TMECC 07.01-B, Fecal Coliform Bacteria < 1000 MPN/gram dry wt.	Pass
Pathogen	TMECC 07.01-B, Salmonella < 3 MPN/4 grams dry wt.	Pass
Physical Contaminants	TMECC 02.02-C, Man Made Inert Removal and Classification: Plastic, Glass and Metal, % > 4mm fraction	Combined Total: < 1.0
Physical Contaminants	TMECC 02.02-C, Man Made Inert Removal and Classification: Sharps (Sewing needles, straight pins and hypodermic needles), % > 4mm fraction	None Detected

\*TMECC refers to "Test Methods for the Examination of Composting and Compost," published by the United States Department of Agriculture and the United States Compost Council (USCC).

• Prior to application, the Contractor shall provide the Engineer with a copy of the soil amendment producer's Compost Technical Data Sheet and a copy of the compost producers STA certification. The Compost Technical Data Sheet shall include laboratory analytical test results, directions for product use, and a list of product ingredients.

• Prior to application, the Contractor shall provide the Engineer with a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

The last 3 paragraphs of Section 20-2.10, "Seed," of the Standard Specifications are deleted.

The last paragraph of Section 20-3.04A, "General," of the Standard Specifications is deleted.

Section 20-4.055, "Pruning," of the Standard Specifications is amended to read:

#### 20-4.055 PRUNING

• Pruning of plants shall be consistent with American National Standards Institute (ANSI), "Tree, Shrub and Other Woody Plant Maintenance Standard Practices," ANSI 300 (Part 1)-2001 and "Best Management Practices Tree Pruning," 2002 (ISBN 1-881956318), published by the International Society of Arboriculture, P.O. Boc 3129, Champaign, IL 61826.

# SECTION 25: AGGREGATE SUBBASES

Issue Date: February 16, 2007

The first paragraph of Section 25-1.02A, "Class 1, Class 2, and Class 3 Aggregate Subbases," of the Standard Specifications is amended to read:

• Aggregate must be clean and free from organic matter and other deleterious substances. Aggregate must consist of any combination of:

- 1. Broken stone
- 2. Crushed gravel
- 3. Natural rough surfaced gravel
- 4. Sand
- 5. Up to 100 percent of any combination of processed:
  - 5.1. Asphalt concrete
  - 5.2. Portland cement concrete
  - 5.3. Lean concrete base
  - 5.4. Cement treated base

The first paragraph of Section 25-1.02B, "Class 4 Aggregate Subbase," of the Standard Specifications is amended to read:

• Aggregate must be clean and free from organic matter and other deleterious substances. Aggregate must consist of any combination of:

- 1. Broken stone
- 2. Crushed gravel
- 3. Natural rough surfaced gravel
- 4. Sand
- 5. Up to 100 percent of any combination of processed:
  - 5.1. Asphalt concrete
  - 5.2. Portland cement concrete
  - 5.3. Lean concrete base
  - 5.4. Cement treated base

#### SECTION 26: AGGREGATE BASE

Issue Date: February 16, 2007

The first paragraph of Section 26-1.02A, "Class 2 Aggregate Base," of the Standard Specifications is amended to read:

• Aggregate must be clean and free from organic matter and other deleterious substances. Aggregate must consist of any combination of:

- 1. Broken stone
- 2. Crushed gravel
- 3. Natural rough surfaced gravel
- 4. Sand
- 5. Up to 100 percent of any combination of processed:
  - 5.1. Asphalt concrete
  - 5.2. Portland cement concrete
  - 5.3. Lean concrete base
  - 5.4. Cement treated base

The first paragraph of Section 26-1.02B, "Class 3 Aggregate Base," of the Standard Specifications is amended to read:

• Aggregate must be clean and free from organic matter and other deleterious substances. Aggregate must consist of any combination of:

1. Broken stone

- 2. Crushed gravel
- 3. Natural rough surfaced gravel
- 4. Sand
- 5. Up to 100 percent of any combination of processed:
  - 5.1. Asphalt concrete
  - 5.2. Portland cement concrete
  - 5.3. Lean concrete base
  - 5.4. Cement treated base

# SECTION 27: CEMENT TREATED BASES

Issue Date: July 31, 2007

The first paragraph of Section 27-1.02, "Materials," of the Standard Specifications is amended to read:

• Cement shall be Type II portland cement conforming to the provisions in Section 90-2.01A, "Cement."

The third paragraph of Section 27-1.02, "Materials," of the Standard Specifications is amended to read:

• Aggregate for use in Class A cement treated base shall be of such quality that when mixed with cement in an amount not to exceed 5 percent by weight of the dry aggregate and compacted at optimum moisture content, the compressive strength of a sample of the compacted mixture shall not be less than 750 pounds per square inch at 7 days, when tested by California Test 312.

The fourth paragraph of Section 27-1.02, "Materials," of the Standard Specifications is amended to read:

• Aggregate for use in Class B cement treated base shall have a Resistance (R-value) of not less than 60 before mixing with cement and a Resistance (R-value) of not less than 80 after mixing with cement in an amount not to exceed 2.5 percent by weight of the dry aggregate.

The ninth paragraph of Section 27-1.07, "Compacting," of the Standard Specifications is amended to read:

• When surfacing material is hot mix asphalt, the low areas shall be filled with hot mix asphalt conforming to the requirements for the lowest layer of hot mix asphalt to be placed as surfacing. This filling shall be done as a separate operation prior to placing the lowest layer of surfacing, and full compensation for this filling will be considered as included in the contract price paid for cement treated base and no additional compensation will be allowed therefor.

# SECTION 28: LEAN CONCRETE BASE

Issue Date: July 31, 2007

The first paragraph of Section 28-1.02, "Materials," of the Standard Specifications is amended to read:

• Cement shall be Type II portland cement conforming to the provisions in Section 90-2.01A, "Cement."

The sixth paragraph of Section 28-1.02, "Materials," of the Standard Specifications is amended to read:

• Aggregate shall be of such quality that, when mixed with cement in an amount not to exceed 300 pounds per cubic yard, and tested in conformance with the requirements in California Test 548, the compressive strength of a sample will be not less than 700 pounds per square inch at 7 days.

The second paragraph of Section 28-1.06, "Spreading, Compacting and Shaping," of the Standard Specifications is amended to read:

• In advance of curing operations, lean concrete base to be surfaced with hot mix asphalt shall be textured with a drag strip of burlap, a broom or a spring steel tine device which will produce scoring in the finished surface. The scoring shall be

parallel with the centerline or transverse thereto. The operation shall be performed at a time and in a manner to produce the coarsest texture practical for the method used.

The second paragraph of Section 28-1.08, "Surfaces Not Within Tolerance," of the Standard Specifications is amended to read:

• Hardened lean concrete base with a surface lower than 0.05-foot below the grade established by the Engineer shall be removed and replaced with lean concrete base which complies with these specifications, or if permitted by the Engineer, the low areas shall be filled with pavement material as follows:

- 1. When pavement material is hot mix asphalt, the low areas shall be filled with hot mix asphalt conforming to the requirements for the lowest layer of hot mix asphalt to be placed as pavement. This shall be done as a separate operation prior to placing the lowest layer of pavement, and full compensation for this filling will be considered as included in the contract price paid per cubic yard for lean concrete base and no additional compensation will be allowed therefor.
- 2. When pavement material is portland cement concrete, the low areas shall be filled with pavement concrete at the time and in the same operation that the pavement is placed. Full compensation for this filling will be considered as included in the contract price paid per cubic yard for lean concrete base and no additional compensation will be allowed therefor.

# SECTION 29: TREATED PERMEABLE BASES

Issue Date: July 31, 2007

The second paragraph of Section 29-1.02B, "Cement Treated Permeable Base," of the Standard Specifications is amended to read:

• Cement shall be Type II portland cement conforming to the provisions in Section 90-2.01A, "Cement."

The first paragraph of Section 29-1.04A, "Asphalt Treated Permeable Base," of the Standard Specifications is amended to read:

• Aggregates and asphalt for asphalt treated permeable base shall be stored, proportioned and mixed in the same manner provided for storing, proportioning and mixing aggregates and asphalt for hot mix asphalt in Section 39-1.08, "Production," except as follows:

- 1. The aggregate need not be separated into sizes.
- 2. The temperature of the aggregate before adding the asphalt binder shall be not less than 275° F nor more than 325° F.
- 3. Asphalt treated permeable base stored in excess of 2 hours shall not be used in the work.
- 4. The aggregate shall be combined with 2.5 percent paving asphalt by weight of the dry aggregate. After testing samples of the Contractor's proposed aggregate supply, the Engineer may order an increase or decrease in the asphalt content. If an increase or decrease is ordered, and the increase or decrease exceeds the specified amount by more than 0.1-percent by weight of the dry aggregate, the compensation payable to the Contractor for the asphalt treated permeable base will be increased or decreased on the basis of the total increase or decrease in asphalt.
- 5. The asphalt content of the asphalt mixture will be determined, at the option of the Engineer, by extraction tests in conformance with the requirements in California Test 310 or 362, or will be determined in conformance with the requirements in California Test 379. The bitumen ratio pounds of asphalt per 100 pounds of dry aggregate shall not vary by more than 0.5-pound of asphalt above or 0.5-pound of asphalt below the amount designated by the Engineer. Compliance with this requirement will be determined either by taking samples from trucks at the plant or from the mat behind the paver before rolling. If the sample is taken from the mat behind the paver, the bitumen ratio shall be not less than the amount designated by the Engineer, less 0.7-pound of asphalt per 100 pounds of dry aggregate.

The second paragraph of Section 29-1.04B, "Cement Treated Permeable Base," of the Standard Specifications is amended to read:

• Cement treated permeable base shall contain not less than 287 pounds of cement per cubic yard.

The first paragraph of Section 29-1.05, "Spreading and Compacting Asphalt Treated Permeable Base," of the Standard Specifications is amended to read:

• Asphalt treated permeable base shall be spread and compacted as specified for hot mix asphalt under the "Method" construction process in Section 39, "Hot Mix Asphalt," and these specifications.

The second paragraph of Section 29-1.07, "Surfaces Not Within Tolerance," of the Standard Specifications is amended to read:

• Hardened treated permeable base with a surface lower than 0.05-foot below the grade established by the Engineer shall be removed and replaced with treated permeable base which complies with these specifications, or if permitted by the Engineer, the low areas shall be filled with pavement material as follows:

- 1. When pavement material is hot mix asphalt, the low areas shall be filled with hot mix asphalt conforming to the requirements for the lowest layer of hot mix asphalt to be placed as pavement. This shall be done as a separate operation prior to placing the lowest layer of pavement.
- 2. When pavement material is portland cement concrete, the low areas shall be filled with pavement concrete at the time and in the same operation in which the pavement is placed.
- 3. Full compensation for filling low areas will be considered as included in the contract price paid per cubic yard for treated permeable base and no additional compensation will be allowed therefor.

# **SECTION 49: PILING**

Issue Date: June 6, 2008

The 4th paragraph of Section 49-1.03, "Determination of Length," of the Standard Specifications is amended to read:

• Modification to the specified installation methods and specified pile tip elevation will not be considered at locations where settlement, tension demands, or lateral load demands control design pile tip elevations or when the plans state that specified pile tip elevation shall not be revised.

The first sentence of the sixth paragraph of Section 49-1.03, "Determination of Length," of the Standard Specifications is amended to read:

• Indicator compression pile load testing shall conform to the requirements in ASTM Designation: D 1143-81.

The first sentence of the seventh paragraph of Section 49-1.03, "Determination of Length," of the Standard Specifications is amended to read:

• Indicator tension pile load testing shall conform to the requirements in ASTM Designation: D 3689-90.

The 9th paragraph of Section 49-1.03, "Determination of Length," of the Standard Specifications is amended to read:

• The Contractor shall furnish piling of sufficient length to obtain the specified tip elevation shown on the plans or specified in the special provisions.

The sixth paragraph in Section 49-1.04, "Load Test Piles," of the Standard Specifications is amended to read:

• The Contractor may use additional cementitious material in the concrete for the load test and anchor piles.

The 1st paragraph of Section 49-6.01, "Measurement," of the Standard Specifications is amended to read:

• The length of timber, steel, and precast prestressed concrete piles, and of cast-in-place concrete piles consisting of driven shells filled with concrete, shall be measured along the longest side, from the tip elevation shown on the plans to the plane of pile cut-off.

Section 49-6.02, "Payment," of the Standard Specifications is amended by adding the following:

• When pile tips are revised by the Engineer for timber, steel, and precast prestressed concrete piles, and for cast-inplace concrete piles consisting of driven shells filled with concrete, the additional length required, including all materials, equipment, and labor for furnishing, splicing, and installing the piling, will be paid for as extra work as provided in Section 4-1.03D, "Extra Work."

• All remedial work required to achieve the required nominal resistance, including suspending driving operations above the required tip elevation and redriving piles at a later time, when directed by the Engineer, will be paid for as extra work as provided in Section 4-1.03D, "Extra Work."

for furnish precast members as provided for in Section 51, "Concrete Structures."

#### SECTION 51: CONCRETE STRUCTURES

Issue Date: May 2, 2008

The first sentence of the eleventh paragraph of Section 51-1.05, "Forms," of the Standard Specifications is amended to read:

• Form panels for exposed surfaces shall be furnished and placed in uniform widths of not less than 3 feet and in uniform lengths of not less than 6 feet, except at the end of continuously formed surfaces where the final panel length required is less than 6 feet.

The first sentence of the eleventh paragraph of Section 51-1.06C, "Removing Falsework," of the Standard Specifications is amended to read:

• Falsework for box culverts and other structures with decks lower than the roadway pavement and with span lengths of 14 feet or less shall not be released until the last placed concrete has attained a compressive strength of 1,600 psi, provided that curing of the concrete is not interrupted.

The 6th paragraph of Section 51-1.11, "Construction Methods," of the Standard Specifications is amended to read:

• Construction methods and equipment employed by the Contractor shall conform to the provisions in Section 7-1.02, "Load Limitations."

The fourth paragraph in Section 51-1.12D, "Sheet Packing, Preformed Pads, and Board Fillers," of the Standard Specifications is amended to read:

• Expanded polystyrene shall be a commercially available polystyrene board. Expanded polystyrene shall have a minimum flexural strength of 35 psi determined in conformance with the requirements in ASTM Designation: C 203 and a compressive yield strength of between 16 and 40 psi at 5 percent compression. Surfaces of expanded polystyrene against which concrete is placed shall be faced with hardboard. Hardboard shall be 1/8 inch minimum thickness, conforming to ANSI A135.4, any class. Other facing materials may be used provided they furnish equivalent protection. Boards shall be held in place by nails, waterproof adhesive, or other means approved by the Engineer.

The 3rd paragraph of Section 51-1.12F, "Sealed Joints," of the Standard Specifications is amended to read:

• Type A and AL joint seals shall consist of a groove in the concrete that is filled with field-mixed silicone sealant.

The table in the 6th paragraph of Section 51-1.12F, "Sealed Joints," of the Standard Specifications is amended to read:

Movement Rating (MR)	Seal Type
$MR \le 1$ inch	Type A or Type B
1 inch $<$ MR $\le$ 2 inches	Type B
2 inches $<$ MR $\le$ 4 inches	Joint Seal Assembly (Strip Seal)
MR > 4 inches	Joint Seal Assembly (Modular Unit)
	or Seismic Joint

The 1st paragraph of Section 51-1.12F(3)(a), "Type A and AL Seal," of the Standard Specifications is amended to read:

• The sealant must consist of a 2-component silicone sealant that will withstand up to ±50 percent movement.

The 2nd paragraph of Section 51-1.12F(3)(a), "Type A and AL Seal," of the Standard Specifications is amended to read:

• Silicone sealants must be tested under California Test 435 and must comply with the following:

Specification	Requirement
Modulus at 150 percent elongation	8–75 psi
Recovery	
	21/32 inch max.
Notch Test	Notched or loss of bond 1/4 inch,
	max.
Water Resistance	Notched or loss of bond 1/4 inch,
	max.
Ultraviolet Exposure	No more than slight checking or
ASTM Designation: G 154, Table	cracking.
X2.1,Cycle 2.	
Cone Penetration	4.5-12.0 mm

The 3rd paragraph of Section 51-1.12F(3)(a), "Type A and AL Seal," of the Standard Specifications is deleted.

The 8th paragraph of Section 51-1.12F(3)(a), "Type A and AL Seal," of the Standard Specifications is deleted.

The 10th paragraph of Section 51-1.12F(3)(a), "Type A and AL Seal," of the Standard Specifications is amended to read:

• A Certificate of Compliance accompanied by a certified test report must be furnished for each batch of silicone sealant in conformance with the provisions in Section 6-1.07, "Certificates of Compliance."

The 2nd paragraph of Section 51-1.12F(3)(b), "Type B Seal," of the Standard Specifications is amended to read:

- The preformed elastomeric joint seal must conform to the requirements in ASTM D 2628 and the following:
- 1. The seal must consist of a multichannel, nonporous, homogeneous material furnished in a finished extruded form.
- 2. The minimum depth of the seal measured at the contact surface must be at least 95 percent of the minimum uncompressed width of the seal as designated by the manufacturer.
- 3. When tested in conformance with the requirements in California Test 673 for Type B seals, joint seals must provide a movement rating (MR) of not less than that shown on the plans.
- 4. The top and bottom edges of the joint seal must maintain continuous contact with the sides of the groove over the entire range of joint movement.
- 5. The seal must be furnished full length for each joint with no more than 1 shop splice in any 60-foot length of seal.
- 6. The Contractor must demonstrate the adequacy of the procedures to be used in the work before installing seals in the joints.
- 7. One field splice per joint may be made at locations and by methods approved by the Engineer. The seals are to be manufactured full length for the intended joint, then cut at the approved splice section and rematched before splicing. The Contractor must submit splicing details prepared by the joint seal manufacturer for approval before beginning splicing work.
- 8. Shop splices and field splices must have no visible offset of exterior surfaces and must show no evidence of bond failure.

9. At all open ends of the seal that would admit water or debris, each cell must be filled to a depth of 3 inches with commercial quality open cell polyurethane foam or closed by other means subject to approval by the Engineer.

The 7th paragraph of Section 51-1.12F(3)(b), "Type B Seal," of the Standard Specifications is amended to read:

• The joint seal must be installed full length for each joint with equipment that does not twist or distort the seal, elongate the seal longitudinally, or otherwise cause damage to the seal or to the concrete forming the groove.

The first sentence of the eleventh paragraph of Section 51-1.12F(3)(b), "Type B Seal," of the Standard Specifications is amended to read:

• Samples of the prefabricated joint seals, not less than 3 feet in length, will be taken by the Engineer from each lot of material.

The fourth and fifth sentences of the sixth paragraph of Section 51-1.12H(1), "Plain and Fabric Reinforced Elastomeric Bearing Pads," of the Standard Specifications are amended to read:

• Each ply of fabric shall have a breaking strength of not less than 800 pounds per inch of width in each thread direction when 3" x 36" samples are tested on split drum grips. The bond between double plies shall have a minimum peel strength of 20 pounds per inch.

The hardness (Type A) requirement in the table in the eighth paragraph of Section 51-1.12H(1), "Plain and Fabric Reinforced Elastomeric Bearing Pads," of the Standard Specifications is amended to read:

Hardness (Type A)	D 2240 with 2kg mass.	55 ±5
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The first sentence of subparagraph A of the first paragraph of Section 51-1.12H(2), "Steel Reinforced Elastomeric Bearings," of the Standard Specifications is amended to read:

• The bearings shall consist of alternating steel laminates and internal elastomer laminates with top and bottom elastomer covers. Steel laminates shall have a nominal thickness of 0.075 inch (14 gage).

The first paragraph in Section 51-1.135, "Mortar," of the Standard Specifications is amended to read:

• Mortar shall be composed of cementitious material, sand, and water proportioned and mixed as specified in this Section 51-1.135.

The third paragraph in Section 51-1.135, "Mortar," of the Standard Specifications is amended to read:

• The proportion of cementitious material to sand, measured by volume, shall be one to 2 unless otherwise specified.

The third sentence of the fourth paragraph of Section 51-1.17, "Finishing Bridge Decks," of the Standard Specifications is amended to read:

• The surfaces shall have a profile trace showing no high points in excess of 0.25 inch, and the portions of the surfaces within the traveled way shall have a profile count of 5 or less in any 100-foot section.

Section 51-1.17, "Finishing Bridge Decks," of the Standard Specifications is amended by adding the following subsection:

# 51-1.17A DECK CRACK TREATMENT

• The Contractor shall use all means necessary to minimize the development of shrinkage cracks.

• The Contractor shall remove all equipment and materials from the deck and clean the surface as necessary for the Engineer to measure the surface crack intensity. Surface crack intensity will be determined by the Engineer after completion of concrete cure, before prestressing, and before the release of falsework. In any 500 square foot portion of deck within the limits of the new concrete deck, should the intensity of cracking be such that there are more than 16 feet of cracks whose width at any location exceeds 0.02 inch, the deck shall be treated with methacrylate resin. The area of deck to be treated shall

have a width that extends for the entire width of new deck inside the concrete barriers and a length that extends at least 5 feet beyond the furthest single continuous crack outside the 500 square foot portion, measured from where that crack exceeds 0.02 inch in width, as determined by the Engineer.

• Deck crack treatment shall include furnishing, testing, and application of methacrylate resin and sand. If grinding is required, deck treatment shall take place before grinding.

# 51-1.17A(1) Submittals

• Before starting deck treatment, the Contractor shall submit plans in conformance with Section 5-1.02, "Plans and Working Drawings," for the following:

- 1. Public safety plan for the use of methacrylate resin
- 2. Placement plan for the construction operation
- The plans shall identify materials, equipment, and methods to be used.
- The public safety plan for the use of methacrylate resin shall include details for the following:
- 1. Shipping
- 2. Storage
- 3. Handling
- 4. Disposal of residual methacrylate resin and the containers
- The placement plan for construction shall include the following:
- 1. Schedule of deck treatment for each bridge. The schedule shall be consistent with "Maintaining Traffic" of the special provisions and shall include time for the Engineer to perform California Test 342.
- 2. Methods and materials to be used, including the following:
  - 2.1. Description of equipment for applying the resin
  - 2.2. Description of equipment for applying the sand
  - 2.3. Gel time range and final cure time for the resin

• If the measures proposed in the safety plan are inadequate to provide for public safety associated with the use of methacrylate resin, the Engineer will reject the plan and direct the Contractor to revise the plan. Directions for revisions will be in writing and include detailed comments. The Engineer will notify the Contractor of the approval or rejection of a submitted or revised plan within 15 days of receipt of that plan.

• In the event the Engineer fails to complete the review within the time allowed, and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for any resulting loss, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Right of Way Delays."

#### 51-1.17A(2) Materials

• Before using methacrylate resin, a Material Safety Data Sheet shall be submitted for each shipment of resin.

• Methacrylate resin shall be low odor and have a high molecular weight. Before adding initiator, the resin shall have a maximum volatile content of 30 percent when tested in conformance with the requirements in ASTM Designation: D 2369, and shall conform to the following:

PROPERTY	REQUIREMENT	TEST METHOD
* Viscosity	25 cP, maximum, (Brookfield RVT with UL adaptor, 50 RPM at 77°F	ASTM D 2196
* Specific Gravity	0.90 minimum, at 77°F	ASTM D 1475
* Flash Point	180°F, minimum	ASTM D 3278
* Vapor Pressure	1.0 mm Hg, maximum, at 77°F	ASTM D 323
Tack-free Time	400 minutes, maximum at 25°C	Specimen prepared per California Test 551
PCC Saturated	3.5 MPa, minimum	California Test 551
Surface-Dry Bond	at 24 hours and	
Strength	21±1°C	
<ul> <li>* Test shall be performed before adding initiator.</li> </ul>		

# 51-1.17A(3) Testing

• The Contractor shall allow 20 days for sampling and testing by the Engineer of the methacrylate resin before proposed use. If bulk resin is to be used, the Contractor shall notify the Engineer in writing at least 15 days before the delivery of the bulk resin to the job site. Bulk resin is any resin stored in containers in excess of 55 gallons.

• Before starting production treatment, the Contractor shall treat a test area of approximately 500 square feet that is within the project limits and at a location approved by the Engineer. When available the test area shall be outside of the traveled way. Weather and pavement conditions during the test treatment shall be similar to those expected on the deck. Equipment used for testing shall be similar to those used for deck treating operations.

• During test and production deck treatment, test tiles shall be used to evaluate the resin cure time. The Contractor shall coat at least one 4" x 4" commercial quality smooth glazed tile for each batch of methacrylate resin. The coated tile shall be placed adjacent to the corresponding treated area. Sand shall not be applied to the test tiles.

- The acceptance criteria for a treated area is as follows:
- 1. The test tiles are dry to the touch.
- 2. The treated deck surface is tack free (non-oily).
- 3. The sand cover adheres and resists brushing by hand.
- 4. Excess sand has been removed by vacuuming or sweeping.
- 5. The coefficient of friction is at least 0.35 when tested in conformance with California Test 342.

• Deck treatment on the test area shall demonstrate that the methods and materials meet the acceptance criteria and that the production work will be completed within the specified time for maintaining traffic.

• If a test or production area fails to meet the acceptance criteria, as determined by the Engineer, the treatment will be rejected, and the treatment shall be removed and replaced until the area complies with the acceptance criteria.

#### 51-1.17A(4) Construction

• Equipment shall be fitted with suitable traps, filters, drip pans, or other devices as necessary to prevent oil or other deleterious material from being deposited on the deck.

• Before deck treatment with methacrylate resin, the bridge deck surface shall be cleaned by abrasive blasting, and all loose material shall be blown from visible cracks using high-pressure air. Concrete curing seals shall be cleaned from the deck surface to be treated, and the deck shall be dry when blast cleaning is performed. If the deck surface becomes contaminated at any time before placing the resin, the deck surface shall be cleaned by abrasive blasting.

• Where abrasive blasting is being performed within 10 feet of a lane occupied by public traffic, the residue including dust shall be removed immediately after contact between the abrasive and the surface being treated. The removal shall be by a vacuum attachment operating concurrently with the abrasive blasting operation.

• A compatible promoter/initiator system shall be capable of providing the resin gel time range shown on the placement plan. Gel time shall be adjusted to compensate for the changes in temperature throughout treatment application.

• Resin shall be applied by machine and by using a two-part resin system with a promoted resin for one part and an initiated resin for the other part. This two-part resin system shall be combined at equal volumes to the spray bars through separate positive displacement pumps. Combining of the 2 components shall be by either static in-line mixers or by external intersecting spray fans. The pump pressure at the spray bars shall not be great enough to cause appreciable atomization of the resin. Compressed air shall not be used to produce the spray. A shroud shall be used to enclose the spray bar apparatus.

• At the Contractor's option, manual application may be used. For manual application, (1) the quantity of resin mixed with promoter and initiator shall be limited to 5 gallons at a time, and (2) the resin shall be distributed by squeegees and brooms within 10 minutes after application.

• The Contractor shall apply methacrylate resin only to the specified area. Barriers, railing, joints, and drainage facilities shall be adequately protected to prevent contamination by the treatment material. Contaminated items shall be repaired at the Contractor's expense.

• The relative humidity shall be less than 90 percent at the time of treatment. The prepared area shall be dry and the surface temperature shall be at least 50°F and not more than 100°F when the resin is applied. The rate of application of promoted/initiated resin shall be approximately 90 square feet per gallon; the exact rate shall be determined by the Engineer.

• The deck surfaces to be treated shall be completely covered with resin so the resin penetrates and fills all cracks. The resin shall be applied within 5 minutes after complete mixing. A significant increase in viscosity shall be cause for rejection. Excess material shall be redistributed by squeegees or brooms within 10 minutes after application. For textured deck surfaces, including grooved surfaces, excess material shall be removed from the texture indentations.

• After the resin has been applied, at least 20 minutes shall elapse before applying sand. The sand shall be commercial quality dry blast sand. At least 95 percent of the sand shall pass the No. 8 sieve and at least 95 percent shall be retained on the No. 20 sieve. The sand shall be applied at a rate of approximately 2 pounds per square yard or until refusal as determined by the Engineer.

Traffic will not be allowed on treated areas until the acceptance criteria has been met as determined by the Engineer.

The second paragraph in Section 51-1.18C, "Class 2 Surface Finish (Gun Finish)," of the Standard Specifications is amended to read:

• When Class 2 surface finish (gun finish) is specified, ordinary surface finish shall first be completed. The concrete surfaces shall then be abrasive blasted to a rough texture and thoroughly washed down with water. While the washed surfaces are damp, but not wet, a finish coating of machine applied mortar, approximately 1/4 inch thick, shall be applied in not less than 2 passes. The coating shall be pneumatically applied and shall consist of either (1) sand, cementitious material, and water mechanically mixed prior to its introduction to the nozzle, or (2) premixed sand and cementitious material to which water is added prior to its expulsion from the nozzle. The use of admixtures shall be subject to the approval of the Engineer as provided in Section 90, "Portland Cement Concrete." Unless otherwise specified, supplementary cementitious materials will not be required. The proportion of cementitious material to sand shall be not less than one to 4, unless otherwise directed by the Engineer. Sand shall be of a grading suitable for the purpose intended. The machines shall be operated and the coating shall be applied in conformance with standard practice. The coating shall be firmly bonded to the concrete surfaces on which it is applied.

The fifth paragraph in Section 51-1.18C, "Class 2 Surface Finish (Gun Finish)," of the Standard Specifications is amended to read:

• When surfaces to be finished are in pedestrian undercrossings, the sand shall be silica sand and the cementitious material shall be standard white portland cement.

Section 51-1.23, "Payment," of the Standard Specifications is amended by adding the following:

• Full compensation for deck crack treatment, including execution of the public safety plan, shall be considered as included in the contract price paid per cubic yard for structural concrete, bridge, and no additional compensation will be allowed therefor.

# **SECTION 52: REINFORCEMENT**

Issue Date: December 7, 2007

The table in the eleventh paragraph of Section 52-1.07, "Placing," of the Standard Specifications is amended to read:

Height Zone (H)	Wind Pressure Value
(Feet above ground)	(psf)
H ≤ 30	20
$30 < H \le 50$	25
$50 < H \le 100$	30
H > 100	35

The table in the second paragraph of Section 52-1.08B(1), "Mechanical Splices," of the Standard Specifications is amended to read:

Reinforcing Bar Number	Total Slip
4	0.010-inch
5	0.010-inch
6	0.010-inch
7	0.014-inch
8	0.014-inch
9	0.014-inch
10	0.018-inch
11	0.018-inch
14	0.024-inch
18	0.030-inch

The subparagraph under the sixth paragraph of Section 52-1.08B(2), "Butt Welded Splices," of the Standard Specifications is amended to read:

• The minimum preheat and interpass temperatures shall be 400° F for Grade 40 bars and 600° F for Grade 60 bars. Immediately after completing the welding, at least 6 inches of the bar on each side of the splice shall be covered by an insulated wrapping to control the rate of cooling. The insulated wrapping shall remain in place until the bar has cooled below 200° F.

Item A of the 3rd paragraph of Section 52-1.08C, "Service Splice and Ultimate Butt Splice Testing Requirements," of the Standard Specifications is amended to read:

A. Proper facilities, including a calibrated tensile testing machine capable of breaking the largest size of reinforcing bar to be tested.

The 5th paragraph of Section 52-1.08C, "Service Splice and Ultimate Butt Splice Testing Requirements," of the Standard Specifications is amended to read:

• Prequalification and production sample splices and testing shall conform to California Test 670 and these specifications.

The 6th paragraph of Section 52-1.08C, "Service Splice and Ultimate Butt Splice Testing Requirements," of the Standard Specifications is deleted.

The 5th paragraph of Section 52-1.08C(2)(a), "Production Test Requirements for Service Splices," of the Standard Specifications is amended to read:

• If 3 or more sample splices from a production test conform to the provisions in this Section 52-1.08C(2), "Service Splice Test Criteria," all splices in the lot represented by this production test will be considered acceptable.

The 2nd paragraph of Section 52-1.08C(3), "Ultimate Butt Splice Test Criteria," of the Standard Specifications is amended to read:

• A minimum of 1 control bar shall be removed from the same bar as, and adjacent to, all ultimate prequalification, production, and quality assurance sample splices. The lengths of control bars shall conform to the lengths specified for

sample splices in California Test 670. The portion of adjacent bar remaining in the work shall also be identified with weatherproof markings that correspond to its adjacent control bar.

The 2nd sentence of the 6th paragraph of Section 52-1.08C(3), "Ultimate Butt Splice Test Criteria," of the Standard Specifications is amended to read:

• In addition, necking of the bar, as defined in California Test 670, shall occur at rupture regardless of whether the bar breaks inside or outside the affected zone.

# **SECTION 55: STEEL STRUCTURES**

Issue Date: May 2, 2008

The 3rd paragraph of Section 55-1.05, "Falsework," of the Standard Specifications is amended to read:

• Construction methods and equipment employed by the Contractor shall conform to the provisions in Section 7-1.02, "Load Limitations."

The CVN impact value for Grade HPS 50W in the table in the fifth paragraph of Section 55-2.01, "Description," of the Standard Specifications is amended to read:

Grade HPS 50W* (4 inches and under in	20 at 10° F
thickness)	

The first paragraph in Section 55-3.05, "Flatness of Faying and Bearing Surfaces," of the Standard Specifications is amended to read:

• Surfaces of bearing and base plates and other metal surfaces that are to come in contact with each other or with ground concrete surfaces or with asbestos sheet packing shall be flat to within 1/32-inch tolerance in 12 inches and to within 1/16-inch tolerance overall. Surfaces of bearing and base plates and other metal bearing surfaces that are to come in contact with preformed fabric pads, elastomeric bearing pads, or mortar shall be flat to within 1/8-inch tolerance in 12 inches and to within 3/16-inch tolerance overall.

Item B of the first paragraph of Section 55-3.10, "Fastener Threads," of the Standard Specifications is amended to read:

B. Internal threads shall conform to the requirements in ASTM Designation: A 563.

The third paragraph in Section 55-3.19, "Bearings and Anchorages," of the Standard Specifications is amended to read:

• Immediately before setting bearing assemblies or masonry plates directly on ground concrete surfaces, the Contractor shall thoroughly clean the surfaces of the concrete and the metal to be in contact and shall apply a coating of nonsag polysulfide or polyurethane caulking conforming to the requirements in ASTM Designation: C 920 to contact areas to provide full bedding.

The fifth paragraph in Section 55-3.19, "Bearings and Anchorages," of the Standard Specifications is amended to read:

• Mortar to be placed below masonry plates or bearing plates of the bearing assemblies and in anchor bolt sleeves or canisters shall conform to the provisions in Section 51-1.135, "Mortar," except that the proportion of cementitious material to sand shall be 1:3.

Item D of the first paragraph of Section 55-4.01, "Measurement," of the Standard Specifications is amended to read:

D. To determine the pay quantities of galvanized metal, the weight to be added to the calculated weight of the base metal for the galvanizing will be determined from the table of weights of zinc coatings specified in ASTM Designation: A 153/A 153M.

# SECTION 56: SIGNS

Issue Date: March 16, 2007

The fifth paragraph in Section 56-1.03, "Fabrication," of the Standard Specifications is amended to read:

• Clips, eyes, or removable brackets shall be affixed to all signs and all posts and shall be used to secure the sign during shipping and for lifting and moving during erection as necessary to prevent damage to the finished galvanized or painted surfaces. Brackets on tubular sign structures shall be removed after erection. Details of the devices shall be shown on the working drawings.

The fourth paragraph of Section 56-1.10, "Payment," of the Standard Specifications is amended to read:

• The contract price paid per pound for install sign structure of the type or types designated in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in installing sign structures, complete in place, including installing anchor bolt assemblies, removable sign panel frames, and sign panels and performing any welding, painting or galvanizing required during installation, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer.

The fourth paragraph in Section 56-2.03, "Construction," of the Standard Specifications is amended to read:

• Backfill material for metal posts shall consist of minor concrete conforming to the provisions in Section 90-10, "Minor Concrete," and shall contain not less than 463 pounds of cementitious material per cubic yard.

# **SECTION 59: PAINTING**

Issue Date: May 1, 2006

The third paragraph of Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

• Contact surfaces of stiffeners, railings, built up members or open seam exceeding 6 mils in width that would retain moisture, shall be caulked with polysulfide or polyurethane sealing compound conforming to the requirements in ASTM Designation: C 920, Type S, Grade NS, Class 25, Use O, or other approved material.

The fourth paragraph of Section 59-2.12, "Painting," of the Standard Specifications is amended to read:

• The dry film thickness of the paint will be measured in place with a calibrated Type 2 magnetic film thickness gage in conformance with the requirements in SSPC-PA 2, "Measurement of Dry Coating Thickness with Magnetic Gages," of the "SSPC: The Society for Protective Coatings," except that there shall be no limit to the number or location of spot measurements to verify compliance with specified thickness requirements.

# **SECTION 64: PLASTIC PIPE**

Issue Date: July 31, 2007

The first paragraph of Section 64-1.06, "Concrete Backfill," of the Standard Specifications is amended to read:

• At locations where pipe is to be backfilled with concrete as shown on the plans, the concrete backfill shall be constructed of minor concrete or Class 4 concrete conforming to the provisions in Section 90, "Portland Cement Concrete." Minor concrete shall contain not less than 380 pounds of cementitious material per cubic yard. The concrete to be used will be designated in the contract item or shown on the plans.

The third paragraph of Section 64-1.06, "Concrete Backfill," of the Standard Specifications is amended to read:

• The surface of the concrete backfill shall be broomed with a heavy broom to produce a uniform rough surface if hot mix asphalt is to be placed directly thereon.

### SECTION 65: REINFORCED CONCRETE PIPE

Issue Date: July 31, 2007

The first paragraph of Section 65-1.02, "Materials," of the Standard Specifications is amended to read:

• Cementitious material and aggregate shall conform to the provisions in Section 90-2, "Materials" except that mortar strengths relative to Ottawa sand and grading requirements shall not apply to the aggregate. Use of supplemental cementitious material shall conform to AASHTO Designation: M 170.

Subparagraph "c" of the eleventh paragraph of Section 65-1.02A(1) "Circular Reinforced Concrete Pipe (Designated or Selected by Class)," of the Standard Specifications is amended to read:

c. Cementitious material and aggregate for non-reinforced concrete pipe shall conform to the provisions in Section 65-1.02, "Materials."

The first paragraph of Section 65-1.035, "Concrete Backfill," of the Standard Specifications is amended to read:

• At locations where pipe is to be backfilled with concrete as shown on the plans, the concrete backfill shall be constructed of minor concrete or Class 4 concrete in conformance with the provisions in Section 90, "Portland Cement Concrete." Minor concrete shall contain not less than 380 pounds of cementitious material per cubic yard. The concrete to be used will be designated in the contract item.

The third paragraph of Section 65-1.035, "Concrete Backfill," of the Standard Specifications is amended to read:

• The surface of the concrete backfill shall be broomed with a heavy broom to produce a uniform rough surface if hot mix asphalt is to be placed directly thereon.

The first subparagraph of the second paragraph of Section 65-1.06, "Joints," of the Standard Specifications is amended to read:

• Cement Mortar.- Mortar shall be composed of one part cementitious material and 2 parts sand by volume. Supplementary cementitious material will not be required.

### SECTION 66: CORRUGATED METAL PIPE

Issue Date: July 31, 2007

The first paragraph of Section 66-1.045, "Concrete Backfill," of the Standard Specifications is amended to read:

• At locations where pipe is to be backfilled with concrete as shown on the plans, the concrete backfill shall be constructed of minor concrete or Class 4 concrete conforming to the provisions in Section 90, "Portland Cement Concrete." Minor concrete shall contain not less than 380 pounds of cementitious material per cubic yard. The concrete to be used will be designated in the contract item or shown on the plans.

The third paragraph of Section 66-1.045, "Concrete Backfill," of the Standard Specifications is amended to read:

• The surface of the concrete backfill shall be broomed with a heavy broom to produce a uniform rough surface if hot mix asphalt is to be placed directly thereon.

# SECTION 68: SUBSURFACE DRAINS

Issue Date: July 31, 2007

The first and second paragraphs of Section 68-3.02D, "Miscellaneous," of the Standard Specifications are amended to read:

• Concrete for splash pads shall be produced from minor concrete conforming to the provisions in Section 90-10, "Minor Concrete." Minor concrete shall contain not less than 470 pounds of cementitious material per cubic yard.

• Mortar placed where edge drain outlets and vents connect to drainage pipe and existing drainage inlets shall conform to the provisions in Section 51-1.135, "Mortar."

The thirteenth paragraph of Section 68-3.03, "Installation," of the Standard Specifications is amended to read:

• Cement treated permeable material, which is not covered with hot mix asphalt within 12 hours after compaction of the permeable material, shall be cured by either sprinkling the material with a fine spray of water every 4 hours during daylight hours or covering the material with a white polyethylene sheet, not less than 6 mils thick. The above curing requirements shall begin at 7:00 a.m. on the morning following compaction of the cement treated permeable material and continue for the next 72 hours or until the material is covered with hot mix asphalt, whichever is less. The cement treated permeable material shall not be sprayed with water during the first 12 hours after compacting, but may be covered with the polyethylene sheet during the first 12 hours or prior to the beginning of the cure period.

The seventeenth and eighteenth paragraphs of Section 68-3.03, "Installation," of the Standard Specifications are amended to read:

• Hot mix asphalt for backfilling trenches in existing paved areas shall be produced from commercial quality aggregates and asphalt and mixed at a central mixing plant. The aggregate shall conform to the 3/4 inch grading, or the 1/2 inch grading for Type A and Type B hot mix asphalt specified in Section 39-1.02E, "Aggregate." The amount of asphalt binder to be mixed with the aggregate shall be between 4 percent and 7 percent by weight of the dry aggregate, as determined by the Engineer.

• Hot mix asphalt backfill shall be spread and compacted in approximately 2 equal layers by methods that will produce a hot mix asphalt surfacing of uniform smoothness, texture and density. Each layer shall be compacted before the temperature of the mixture drops below 250° F. Prior to placing the hot mix asphalt backfill, a tack coat of asphaltic emulsion conforming to the provisions in Section 94, "Asphaltic Emulsions," shall be applied to the vertical edges of existing pavement at an approximate rate of 0.05-gallon per square yard.

The twentieth paragraph of Section 68-3.03, "Installation," of the Standard Specifications is amended to read:

• Type A pavement markers conforming to the details shown on the plans and the provisions in Section 85, "Pavement Markers," shall be placed on paved shoulders or dikes at outlet, vent and cleanout locations as directed by the Engineer. The waiting period for placing pavement markers on new hot mix asphalt surfacing will not apply.

Section 68-3.05, "Payment," of the Standard Specifications is amended to read:

• The contract price paid per linear foot for plastic pipe (edge drain) of the size or sizes shown in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in installing edge drains complete in place, including excavation (and removal of any concrete deposits that may occur along the lower edge of the concrete pavement in Type 1 installations) and hot mix asphalt backfill for Type 1 edge drain installation, tack coat, filter fabric, and treated permeable material, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer.

• The contract price paid per linear foot for plastic pipe (edge drain outlet) of the size or sizes shown in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in installing edge drain outlets, vents and cleanouts complete in place, including outlet and vent covers, expansion plugs, pavement markers, concrete splash pads, connecting outlets and vents to drainage facilities, and excavation and backfill [aggregate base, hot mix asphalt, tack coat, and native material] for outlets, vents, and cleanouts to be installed in embankments and existing shoulders, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer.

# SECTION 69: OVERSIDE DRAINS

Issue Date: July 31, 2007

The first paragraph of Section 69-1.01, "Description," of the Standard Specifications is amended to read:

County of El Dorado, DOT Appendix A-Specification Amendments Page AA-32 • This work shall consist of furnishing and installing entrance tapers, pipe downdrains, tapered inlets, flume downdrains, anchor assemblies, reducers, slip joints and hot mix asphalt overside drains to collect and carry surface drainage down the roadway slopes as shown on the plans or as directed by the Engineer and as specified in these specifications and the special provisions.

Section 69-1.02D, "Asphalt Concrete," of the Standard Specifications is amended to read:

### 69-1.02D Hot Mix Asphalt

• Hot mix asphalt for overside drains shall conform to the provisions in Section 39-1.13, "Miscellaneous Areas."

Section 69-1.04, "Asphalt Concrete Overside Drains," is amended to read:

# 69-1.04 HOT MIX ASPHALT OVERSIDE DRAINS

• Hot mix asphalt overside drains shall be constructed as shown on the plans or as directed by the Engineer. The hot mix asphalt shall be placed in conformance with the provisions in Section 39-1.13, "Miscellaneous Areas."

The second paragraph of Section 69-1.06, "Payment," of the Standard Specifications is amended to read:

• Quantities of hot mix asphalt placed for overside drains will be paid for as provided in Section 39-5, "Measurement and Payment," for hot mix asphalt placed in miscellaneous areas.

### SECTION 70: MISCELLANEOUS FACILITIES

Issue Date: January 5, 2007

The second paragraph of Section 70-1.02C, "Flared End Sections," of the Standard Specifications is amended to read:

• Precast concrete flared end sections shall conform to the requirements for Class III Reinforced Concrete Pipe in AASHTO Designation: M 170M. Cementitious materials and aggregate shall conform to the provisions in Section 90-2, "Materials," except that mortar strengths relative to Ottawa sand and grading requirements shall not apply to the aggregate. Use of supplementary cementitious material shall conform to the requirements in AASHTO Designation: M 170. The area of steel reinforcement per meter of flared end section shall be at least equal to the minimum steel requirements for circular reinforcement in circular pipe for the internal diameter of the circular portion of the flared end section. The basis of acceptance of the precast concrete flared end section shall conform to the requirements of Section 5.1.2 of AASHTO Designation: M 170.

The first paragraph of Section 70-1.02H, "Precast Concrete Structures," of the Standard Specifications is amended to read:

• Precast concrete pipe risers and pipe reducers, and precast concrete pipe sections, adjustment rings and tapered sections for pipe energy dissipators, pipe inlets and pipe manholes shall conform to the requirements in AASHTO Designation: M 199M/M 199, except that the cementitious material and aggregate shall conform to the provisions in Section 90-2, "Materials," except that mortar strengths relative to Ottawa sand and grading requirements shall not apply to the aggregate. Use of supplementary cementitious material shall conform to the requirements in AASHTO Designation: M 170.

The second paragraph of Section 70-1.03, "Installation," of the Standard Specifications is amended to read:

• Cutoff walls for precast concrete flared end sections shall be constructed of minor concrete conforming to the provisions in Section 90-10, "Minor Concrete." Minor concrete shall contain not less than 470 pounds of cementitious material per cubic yard.

# SECTION 73: CONCRETE CURBS AND SIDEWALKS

Issue Date: July 31, 2007

The second subparagraph of the second paragraph of Section 73-1.01, "Description," of the Standard Specifications is amended to read:

2. Minor concrete shall contain not less than 463 pounds of cementitious material per cubic yard except that when extruded or slip-formed curbs are constructed using 3/8-inch maximum size aggregate, minor concrete shall contain not less than 548 pounds of cementitious material per cubic yard.

The fifteenth paragraph of Section 73-1.06, "Sidewalk, Gutter Depression, Island Paving, Curb Ramp (Wheelchair Ramp) and Driveway Construction," of the Standard Specifications is amended to read:

• Where hot mix asphalt or portland cement concrete pavements are to be placed around or adjacent to manholes, pipe inlets or other miscellaneous structures in sidewalk, gutter depression, island paving, curb ramps or driveway areas, the structures shall not be constructed to final grade until after the pavements have been constructed for a reasonable distance on each side of the structures.

### SECTION 75: MISCELLANEOUS METAL

Issue Date: January 18, 2008

The 13th paragraph of Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications is amended to read:

• Concrete anchorage devices shall be mechanical expansion or resin capsule types installed in drilled holes or cast-inplace insert types. The anchorage devices shall be selected from the Department's Pre-Qualified Products List at:

### http://www.dot.ca.gov/hq/esc/approved\_products\_list

• The anchorage devices shall be a complete system, including threaded studs, hex nuts, and cut washers. Thread dimensions for externally threaded concrete anchorage devices prior to zinc coating, shall conform to the requirements in ANSI Standard: B1.1 having Class 2A tolerances or ANSI Standard: B1.13M having Grade 6g tolerances. Thread dimensions for internally threaded concrete anchorage devices shall conform to the requirements in ASTM A 563.

The 18th paragraph of Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications is amended to read:

• Mechanical expansion anchors shall, when installed in accordance with the manufacturer's instructions and these specifications and tested in conformance with the requirements in California Test 681, withstand the application of a sustained tension test load of at least the following values for at least 48 hours with a movement not greater than 0.035 inch:

Stud Diameter	Sustained	
	Tension Test	
	Load	
(inches)	(pounds)	
*3/4	5,000	
5/8	4,100	
1/2	3,200	
3/8	2,100	
1/4	1,000	
* Maximum stud diameter		
permitted for mechanical		

expansion anchors.

• Resin capsule anchors shall, when installed in accordance with the manufacturer's instructions and these specifications and tested in conformance with the requirements in California Test 681, withstand the application of a sustained tension test load of at least the following values for at least 48 hours with a movement not greater than 0.010 inch:

Stud Diameter	Sustained
	Tension Test
	Load
(inches)	(pounds)
1-1/4	31,000
1	17,900
7/8	14,400
3/4	5,000
5/8	4,100
1/2	3,200
3/8	2,100
1/4	1,000

• At least 25 days before use, the Contractor shall submit one sample of each resin capsule anchor per lot to the Transportation Laboratory for testing. A lot of resin capsule anchors is 100 units, or fraction thereof, of the same brand and product name.

The 20th paragraph of Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications is amended to read:

• The Pre-Qualified Products List for concrete anchorage devices has been developed from data previously furnished by suppliers or manufacturers for each type and size. Approval of additional anchorage device types and sizes is contingent upon the Contractor submitting to the Engineer one sample of each type of concrete anchorage device, manufacturer's installation instructions, and certified results of tests, either by a private testing laboratory or the manufacturer, indicating compliance with the above requirements.

The twenty-fourth paragraph of Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications is amended to read:

• Sealing compound, for caulking and adhesive sealing, shall be a polysulfide or polyurethane material conforming to the requirements in ASTM Designation: C 920, Type S, Grade NS, Class 25, Use O.

The 1st sentence of the 3rd paragraph of Section 75-1.035, "Bridge Joint Restrainer Units." of the Standard Specifications is amended to read:

Cables shall be 3/4 inch preformed, 6 x 19, wire strand core or independent wire rope core (IWRC), galvanized in conformance with the requirements in Federal Specification RR-W-410, right regular lay, manufactured of improved plow steel with a minimum breaking strength of 23 tons.

Item C of the fourth paragraph of Section 75-1.035, "Bridge Joint Restrainer Units," of the Standard Specifications is amended to read:

C. Nuts shall conform to the requirements in ASTM Designation: A 563 including Appendix X1, except lubrication is not required.

The twelfth paragraph in Section 75-1.035, "Bridge Joint Restrainer Units," of the Standard Specifications is amended to read:

• Concrete for filling cable drum units shall conform to the provisions in Section 90-10, "Minor Concrete," or at the option of the Contractor, may be a mix with 3/8-inch maximum size aggregate and not less than 675 pounds of cementitious material per cubic yard.

The sixth paragraph of Section 75-1.05, "Galvanizing," of the Standard Specifications is amended to read:

• Galvanizing of iron and steel hardware and nuts and bolts, when specified or shown on the plans, shall conform to the requirements in ASTM Designation: A 153/A 153M, except whenever threaded studs, bolts, nuts, and washers are

specified to conform to the requirements in ASTM Designation: A 307, A 325, A 449, A 563, or F 436 and zinc coating is required, they shall be hot-dip zinc coated or mechanically zinc coated in conformance with the requirements in the ASTM Designations. Unless otherwise specified, galvanizing shall be performed after fabrication.

The eighth paragraph of Section 75-1.05, "Galvanizing," of the Standard Specifications is amended to read:

• Tapping of nuts or other internally threaded parts to be used with zinc coated bolts, anchor bars or studs shall be done after galvanizing and shall conform to the requirements for thread dimensions and overtapping allowances in ASTM Designation: A 563.

#### **SECTION 80: FENCES**

Issue Date: January 5, 2007

The fourth paragraph of Section 80-3.01F, "Miscellaneous," of the Standard Specifications is amended to read:

• Portland cement concrete for metal post and brace footings and for deadmen shall be minor concrete conforming to the provisions in Section 90-10, "Minor Concrete." Minor concrete shall contain not less than 470 pounds of cementitious material per cubic yard.

The fourth paragraph of Section 80-4.01C, "Miscellaneous," of the Standard Specifications is amended to read:

• Portland cement concrete for metal post and for deadmen shall be produced from minor concrete conforming to the provisions in Section 90-10, "Minor Concrete." Minor concrete shall contain not less than 470 pounds of cementitious material per cubic yard.

## SECTION 83: RAILINGS AND BARRIERS

Issue Date: August 17, 2007

The seventh paragraph in Section 83-1.02, "Materials and Construction," of the Standard Specifications is amended to read:

• Mortar shall conform to the provisions in Section 51-1.135, "Mortar," and shall consist of one part by volume of cementitious material and 3 parts of clean sand.

The 1st sentence of the 8th subparagraph of the 24th paragraph of Section 83-1.02B, "Metal Beam Guard Railing," of the Standard Specifications is amended to read:

Anchor cable shall be 3/4 inch preformed, 6 x 19, wire strand core or independent wire rope core (IWRC), galvanized in conformance with the requirements in Federal Specification RR-W-410, right regular lay, manufactured of improved plow steel with a minimum breaking strength of 23 tons.

The 2nd sentence of the 6th paragraph of Section 83-1.02E, "Cable Railing," of the Standard Specifications is amended to read:

Cable shall be galvanized in conformance with the requirements in Federal Specification RR-W-410.

The 5th paragraph of Section 83-1.02I, "Chain Link Railing," of the Standard Specifications is amended to read:

Where shown on the plans, cables used in the frame shall be 5/16 inch in diameter, wire rope, with a minimum breaking strength of 5,000 pounds and shall be galvanized in conformance with the requirements in Federal Specification RR-W-410.

The 14th paragraph of Section 83-1.02I, "Chain Link Railing," of the Standard Specifications is amended to read:

Chain link fabric shall be either 11-gage Type I zinc-coated fabric conforming to the requirements in AASHTO M 181 or 11-gage Type IV polyvinyl chloride (PVC) coated fabric conforming to the requirements in Federal Specification RR-F-191/1.

Item b of the first paragraph in Section 83-2.02D(2), "Materials," of the Standard Specifications is amended to read:

b. If the 3/8-inch maximum size aggregate grading is used to construct extruded or slip-formed concrete barriers, the cementitious material content of the minor concrete shall be not less than 675 pounds per cubic yard.

The third paragraph in Section 83-2.02D(2), "Materials," of the Standard Specifications is amended to read:

• The concrete paving between the tops of the 2 walls of concrete barrier (Types 50E, 60E, 60GE, and 60SE) and the optional concrete slab at the base between the 2 walls of concrete barrier (Types 50E, 60E, 60GE, and 60SE) shall be constructed of minor concrete conforming to the provisions of Section 90-10, "Minor Concrete," except that the minor concrete shall contain not less than 505 pounds of cementitious material per cubic yard.

## SECTION 85: PAVEMENT MARKERS

Issue Date: July 31, 2007

The sixth paragraph in Section 85-1.06, "Placement," of the Standard Specifications is amended to read:

• Pavement markers shall not be placed on new hot mix asphalt surfacing or seal coat until the surfacing or seal coat has been opened to public traffic for a period of not less than 7 days when hot melt bituminous adhesive is used, and not less than 14 days when epoxy adhesive is used.

The second sentence of the fourteenth paragraph in Section 85-1.06, "Placement," of the Standard Specifications is amended to read:

• Cleaning shall be done by blast cleaning on all surfaces regardless of age or type, except that blast cleaning of clean, new hot mix asphalt and clean, new seal coat surfaces will not be required when hot melt bituminous adhesive is used.

## SECTION 86: SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

Issue Date: July 31, 2007

The first sentence of the first paragraph of Section 86-2.02, "Removing and Replacing Improvements," of the Standard Specifications is amended to read:

• Improvements such as sidewalks, curbs, gutters, portland cement concrete and hot mix asphalt pavement, underlying material, lawns and plants and any other improvements removed, broken or damaged by the Contractor's operations, shall be replaced or reconstructed with the same kind of material as found on the work or with materials of equal quality.

The fourth paragraph in Section 86-2.03, "Foundations," of the Standard Specifications is amended to read:

• After each post, standard, and pedestal on structures is in proper position, mortar shall be placed under the base plate as shown on the plans. The exposed portions shall be formed to present a neat appearance. Mortar shall conform to Section 51-1.135, "Mortar," except the mortar shall consist of one part by volume of cementitious material and 3 parts of clean sand and shall contain only sufficient moisture to permit packing. Mortar shall be cured by keeping it damp for 3 days.

Item D of the eighteenth paragraph in Section 86-2.05C, "Installation," of the Standard Specifications is amended to read:

D. The conduit shall be placed in the bottom of the trench, and the trench shall be backfilled with minor concrete conforming to the provisions in Section 90-10, "Minor Concrete." Minor concrete shall contain not less than 590 pounds of cementitious material per cubic yard. Concrete backfill shall be placed to the pavement surface except, when the trench is in hot mix asphalt pavement and additional pavement is not being placed, the top

0.10 foot of the trench shall be backfilled with hot mix asphalt produced from commercial quality paving asphalt and aggregates.

Item E of the eighteenth paragraph in Section 86-2.05C, "Installation," of the Standard Specifications is amended to read:

E. Prior to spreading hot mix asphalt, tack coat shall be applied in conformance with the provisions in Section 39, "Hot Mix Asphalt." Spreading and compacting of hot mix asphalt shall be performed by any method which will produce a hot mix asphalt surfacing of uniform smoothness, texture and density.

Item C of the twenty-third paragraph in Section 86-2.05C, "Installation," of the Standard Specifications is amended to read:

C. Precast concrete conduit cradles shall conform to the dimensions shown on the plans and shall be constructed of minor concrete and commercial quality welded wire fabric. Minor concrete shall conform to the provisions in Section 90-10, "Minor Concrete," and shall contain not less than 590 pounds of cementitious material per cubic yard. The cradles shall be moist cured for not less than 3 days.

Item G of the twenty-third paragraph in Section 86-2.05C, "Installation," of the Standard Specifications is amended to read:

G. The space around conduits through bridge abutment walls shall be filled with mortar conforming to the provisions in Section 51-1.135, "Mortar," except that the proportion of cementitious material to sand shall be one to 3.

The fifth paragraph in Section 86-2.07, "Traffic Pull Boxes," of the Standard Specifications is amended to read:

• Concrete placed around and under traffic pull boxes as shown on the plans shall be minor concrete conforming to the provisions in Section 90-10, "Minor Concrete."

The traffic signal controller cabinet requirement in the table in Section 86-2.08A, "Conductor Identification," of the Standard Specifications is amended to read:

Traffic Signal	Ungrounded Circuit Conductor	Blk	None	CON-1	6
Controller Cabinet	Grounded Circuit Conductor	Wht	None	CON-2	6

The first sentence of the first paragraph of Section 86-4.06, "Pedestrian Signal Faces," of the Standard Specifications is amended to read:

• Message symbols for pedestrian signal faces shall be white WALKING PERSON and Portland orange UPRAISED HAND conforming to the requirements in the Institute of Transportation Engineers Standards: "Pedestrian Traffic Control Signal Indications" and the "California MUTCD."

The second sentence of the tenth paragraph of Section 86-4.07, "Light Emitting Diode Pedestrian Signal Face 'Upraised Hand' Module," of the Standard Specifications is amended to read:

• The color of "UPRAISED HAND" shall be Portland orange conforming to the requirements of the Institute of Transportation Engineers Standards: "Pedestrian Traffic Control Signal Indications" and the "California MUTCD."

The second sentence of the first paragraph of subsection, "Elastomeric Sealant," of Section 86-5.01A(5), "Installation Details," of the Standard Specifications is amended to read:

• Sealant shall be suitable for use in both hot mix asphalt and portland cement concrete.

The first sentence of the first paragraph of subsection, "Asphatic Emulsion Sealant," of Section 86-5.01A(5), "Installation Details," of the Standard Specifications is amended to read:

• Asphaltic emulsion sealant shall conform to the requirements in State Specification 8040-41A-15 and shall be used only for filling slots in hot mix asphalt pavement.

The third sentence of the first paragraph of subsection, "Hot-Melt Rubberized Asphalt Sealant," of Section 86-5.01A(5), "Installation Details," of the Standard Specifications is amended to read:

• Sealant shall be suitable for use in both hot mix asphalt and portland cement concrete.

The tenth paragraph of subsection, "Hot-Melt Rubberized Asphalt Sealant," of Section 86-5.01A(5), "Installation Details," of the Standard Specifications is amended to read:

• If hot mix asphalt surfacing is to be placed, the loop conductors shall be installed prior to placing the uppermost layer of hot mix asphalt. The conductors shall be installed, as shown on the plans, in the compacted layer of hot mix asphalt immediately below the uppermost layer. Installation details shall be as shown on the plans, except the sealant shall fill the slot flush to the surface.

The first paragraph in Section 86-5.01D, "Removing or Abandoning Existing Pressure-Sensitive Detectors," of the Standard Specifications is amended to read:

• When a foundation for a pressure-sensitive vehicle detector is to be removed, the hole left by removing the detector frame and foundation shall be filled with minor concrete, except the roadway surface shall be reconstructed with material to match existing surfacing. Minor concrete shall conform to the provisions in Section 90-10, "Minor Concrete," except that the concrete shall contain not less than 420 pounds of cementitious material per cubic yard for hot mix asphalt surfaced roadways and not less than 590 pounds of cementitious material per cubic yard for portland cement concrete surfaced roadways.

The first paragraph of Section 86-8.01, "Payment," of the Standard Specifications is amended to read:

• The contract lump sum price or prices paid for signal, ramp metering, flashing beacon, lighting, sign illumination, traffic monitoring station, highway advisory radio systems, closed circuit television systems, or combinations thereof; for modifying or removing those systems; for temporary systems; or the lump sum or unit prices paid for various units of those systems; or the lump sum or per foot price paid for conduit of the various sizes, types and installation methods listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and installing, modifying, or removing the systems, combinations or units thereof, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer, including any necessary pull boxes (except when the type required is shown as a separate contract item); excavation and backfill; concrete foundations (except when shown as a separate contract item); pedestrian barricades; furnishing and installing illuminated street name signs; installing sign panels on pedestrian barricades, on flashing beacon standards, and on traffic signal mast arms; restoring sidewalk, pavement and appurtenances damaged or destroyed during construction; salvaging existing materials; and making all required tests.

#### SECTION 88 GEOSYNTHETICS

#### 88-1.01 GENERAL

#### 88-1.01A Summary

Section 88 includes specifications for geosynthetics. Geosynthetics are used for:

- 1. Filtration
- 2. Drainage
- 3. Reinforcement
- 4. Water pollution control
- 5. Channel and shore protection
- 6. Pavement interlayer
- 7. Separation and stabilization

#### 88-1.01B Submittals

Submit:

- 1. Certificate of Compliance under Section 6-1.07, "Certificates of Compliance"
- 2. Samples representing each lot
- 3. Minimum average roll values (MARV)

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT Appendix A-Specification Amendments Page AA-39 Label submittals with the manufacturer's name and product information.

## 88-1.01C Quality Control and Assurance

Treat geosynthetics to resist degradation from exposure to sunlight. Using covers, protect geosynthetics from moisture, sunlight, and shipping and storage damage.

## 88-1.02 FILTRATION

# 88-1.02A Filter Fabric

Geosynthetics used for filter fabric must be permeable and nonwoven. Filter fabric must consist of 1 of the following:

- 1. Polyester
- 2. Polypropylene
- 3. Combined polyester and polypropylene

Filter fabric must comply with:

Filter Fabric				
Property	ASTM	Specification		
		Class A	Class B	Class C
Grab breaking load, 1-inch grip, lb				
minimum in each direction	D 4632		157	
Apparent elongation, percent				
minimum in each direction	D 4632		50	
Hydraulic bursting strength, psi				
minimum	D 3786	210		
Ultraviolet resistance, percent				
minimum retained grab breaking				
load, 500 hr	D 4355		70	
Permittivity, sec <sup>-1</sup>				
minimum	D 4491	0.5	0.2	0.1
Apparent opening size, average roll				
value, U.S. Standard sieve size				
maximum	D 4751	40	60	70

## 88-1.03 DRAINAGE

#### 88-1.03A Geocomposite Wall Drain

Geocomposite wall drain must consist of a polymeric core with filter fabric integrally bonded to 1 or both sides of the core creating a stable drainage void.

Filter fabric must comply with Section 88-1.02, "Filtration."

Geocomposite wall drain must comply with:

Geocomposite Wall Drain						
Property	ASTM	Specification				
Thickness with fabric,		2				
inches						
maximum						
Transmissivity, gradient =	D 4716	4				
1.0, normal stress = $5,000$						
psf, gal/min/ft						

#### C sta Wall Da •

## **88-1.04 REINFORCEMENT**

#### 88-1.04A Geotechnical Subsurface Reinforcement

#### General

Geosynthetic used for geotechnical subsurface reinforcement must be either of the following:

- 1. Geotextile
- 2. Geogrid

Geotextile permittivity must be at least 0.05 sec<sup>-1</sup> determined under ASTM D 4491. Geogrid must have a regular and defined open area. The open area must be from 50 to 90 percent of the total grid area.

#### Long Term Design Strength

Long Term Design Strength (LTDS) of geosynthetic reinforcement is the ultimate tensile strength in the primary strength direction divided by reduction factors. Calculate the LTDS from the guidelines in Geosynthetic Research Institute (GRI) Standard Practice GG4a, GRI GG4b, or GRI GT7.

The product of the appropriate reduction factors must be at least 1.30. Determine the reduction factor for creep using a 75-year design life for permanent applications and a 5-year design life for temporary applications. Determine the installation damage reduction factor based on the characteristics of the backfill materials used.

If test data is not available, use default values of reduction factors in the GRI Standard Practice to calculate LTDS.

Submit the LTDS and its supporting calculations at least 15 days before placing geosynthetic reinforcement. Do not install before the Engineer's approval. The LTDS must be signed by an engineer who is registered as a civil engineer in the State.

## 88-1.05 WATER POLLUTION CONTROL

Geosynthetics used for water pollution control must comply with:

Water I onution Control Geosynthetics						
		Application				
		Silt	Fence	Sediment	Gravel-	Temporary
				Filter	Filled	Cover
				Bag	Bags	
		Woven	Non-		¥	
Property	ASTM		woven			
Grab breaking load, 1-inch						
grip, lb						
minimum in each direction	D 4632	120	120	255	205	200
Apparent elongation, percent						
minimum, in each direction	D 4632	15	50			50
Water flow rate, gallons per						
minute/square foot						
minimum and maximum						
average roll value	D 4491	10 - 100	100 - 150	80 - 200	80 - 150	75 - 120
Permittivity, sec <sup>-1</sup>						
minimum	D 4491	0.1	1.1	1.0	0.2	1.0
Apparent opening size, inches						
maximum average roll						
value	D 4751	0.023	0.023	0.033	0.016	0.007
Ultraviolet resistance, percent						
minimum retained grab						
breaking load, 500 hr.	D 4355	70	70	70	70	70

#### Water Pollution Control Geosynthetics

#### 88-1.06 CHANNEL AND SHORE PROTECTION

## 88-1.06A Rock Slope Protection

Rock slope protection (RSP) fabric must be a permeable, nonwoven, needle-punched geotextile. RSP fabric consists of 1 of the following:

- 1. Polyester
- 2. Polypropylene
- 3. Combined polyester and polypropylene

Polymers must be either virgin compounds or clean reworked material. Do not subject virgin compounds to use or processing other than required for initial manufacture. Clean reworked material must be previously processed material from the processor's own production that has been reground, pelletized, or solvated. RSP fabric must not consist of more than 20 percent by weight of clean reworked material. Do not use recycled materials from either post-consumer or post-industrial sources.

Class 8 or Class 10 RSP fabric must comply with:

<b>Rock Slope Protection Fabric</b>					
Property	ASTM	Specification			
		Class 8	Class 10		
Weight, oz/yd <sup>2</sup>					
minimum	D 5261	7.5	9.5		
Grab breaking load, lb					
1-inch grip, min. in each					
direction	D 4632	200	250		
Apparent elongation, percent					
min., in each direction	D 4632	50	50		
Permittivity, sec <sup>-1</sup> ,					
minimum	D 4491	1.0	0.70		
Apparent opening size, U.S.					
Standard sieve size					
minimum and maximum	D 4751	70 - 100	70 - 100		
Ultraviolet resistance, percent					
minimum retained grab					
breaking load, 500 hr.	D4355	70	70		

## 88-1.07 PAVEMENT INTERLAYER

## 88-1.07A Paving Fabric

Geosynthetics used for paving fabric must be nonwoven. Paving fabric must comply with:

Geosynthetic Paving Fabric					
Property	ASTM	Specification			
Mass per unit area, $oz/yd^2$					
minimum	D 5261	4.1			
Grab breaking load, lb					
1-inch grip, minimum, in each direction	D 4632	100			
Apparent elongation, percent					
minimum in each direction	D 4632	50			
Hydraulic bursting strength, psi					
minimum	D 3786	200			
Melting point, °F					
minimum	D 276	325			
Asphalt retention, gal/yd <sup>2</sup>					
minimum	D 6140	0.2			

#### 88-1.07B Paving Mat

Geosynthetics used for paving mat must be a nonwoven fiberglass and polyester hybrid material. Paving mat must comply with:

Geosynthetic Paving Mat					
Property	ASTM	Specification			
Breaking force, lb/2 inches					
minimum	D 5035	45			
Ultimate elongation, percent					
maximum	D 5035	5			
Mass per unit area, oz/ sq yd					
minimum	D 5261	3.7			
Melting point, °F					
minimum	D 276	400			
Asphalt retention, gal/yd <sup>2</sup>					
minimum	D 6140	0.10			

## 88-1.07C Paving Grid

Geosynthetics used for paving grid must be a geopolymer material formed into a grid of integrally connected elements with openings. Paving grid must comply with:

Geosynthetic I aving Griu						
Property	Test	Specification				
		Class I	Class II	Class III		
Tensile strength at						
ultimate, lb/in <sup>a</sup>						
minimum	ASTM D 6637	560 x 1,120	560	280		
Aperture size, inch						
minimum	Calipered	0.5	0.5	0.5		
Elongation, %						
maximum	ASTM D 6637	12	12	12		
Mass per area, oz / sqyd						
minimum	ASTM D 5261	16	10	5.5		
Melting point, °F						
minimum	ASTM D 276	325	325	325		
NT /						

# **Geosynthetic Paving Grid**

Note:

<sup>a</sup> For Class I, machine direction x cross direction. For Class II and Class III, both directions.

## 88-1.07D Paving Geocomposite Grid

Paving geocomposite grid consists of paving grid specified under Section 88-1.07C, "Paving Grid," bonded or integrated with paving fabric specified under Section 88-1.07A, "Paving Fabric."

Paving geocomposite grid must have a peel strength of at least 10 pounds per foot determined under ASTM D 413.

#### 88-1.07E Geocomposite Strip Membrane

Geocomposite strip membrane must consist of various widths of strips manufactured from of asphaltic rubber and geosynthetics. Geocomposite strip membrane must comply with:

Geocomposite Strip Membrane					
Property	ASTM	Specification			
Strip tensile strength, lbs/inch					
minimum	D 882	50			
Elongation at break, %					
minimum	D 882	50			
Resistance to puncture, lbs.					
minimum	E 154	200			
Permeance, perms					
maximum	E 96/E 96M	0.10			
Pliability, 1/4 inch mandrel with sample		No cracks in			
conditioned at 25 °F	D 146	fabric or bitumen			
Melting point, °F	D 276	325			

# Geocomposite Strip Membrane

## 88-1.08 SEPARATION AND STABILIZATION

## 88-1.08A Subgrade Enhancement Geotextile

Subgrade enhancement geotextile must consist of either of the following:

- 1. Polyester
- 2. Polypropylene

Subgrade enhancement geotextile must comply with:

Subgrade Enhancement Geotextile						
Property	ASTM		Specification <sup>a</sup>			
		Class A1	Class A2	Class B1	Class B2	Class B3
Elongation at break, %	D 4632	<50	≥50	<50	<50	≥50
Grab tensile strength, lb						
minimum	D4632	250	160		320	200
Wide width tensile strength at 5% strain, lb/ft						
minimum	D 4595			2,000		
Wide width tensile strength at ultimate strength, lb/ft						
minimum	D 4595			4,800		
Tear strength, lb						
minimum	D 4533	90	60		120	80
Puncture strength, lb						
minimum	D 6241	500	310	620	620	430
Permittivity, sec <sup>-1</sup>						
minimum	D 4491	0.05	0.05	0.20	0.20	0.20
Apparent opening size, inches						
maximum	D 4751	0.012	0.012	0.024	0.012	0.012
Ultraviolet stability (retained strength after 500 hrs exposure), %						
minimum	D 4355	70	70	70	70	70

Subgrade Enhancement Geotextile

Notes:

<sup>a</sup> Specifications are based on minimum average roll value in the weaker principle direction except apparent opening size is based on maximum average roll value.

## **88-1.09 PAYMENT**

The Department measures and pays for geosynthetics under the specifications requiring their use.

# SECTION 90: PORTLAND CEMENT CONCRETE

Issue Date: January 5, 2007

Section 90, "Portland Cement Concrete," of the Standard Specifications is amended to read:

# SECTION 90: PORTLAND CEMENT CONCRETE 90-1 GENERAL

## 90-1.01 DESCRIPTION

• Portland cement concrete shall be composed of cementitious material, fine aggregate, coarse aggregate, admixtures if used, and water, proportioned and mixed as specified in these specifications.

- The Contractor shall determine the mix proportions for concrete in conformance with these specifications.
- Class 1 concrete shall contain not less than 675 pounds of cementitious material per cubic yard.
- Class 2 concrete shall contain not less than 590 pounds of cementitious material per cubic yard.
- Class 3 concrete shall contain not less than 505 pounds of cementitious material per cubic yard.
- Class 4 concrete shall contain not less than 420 pounds of cementitious material per cubic yard.

• Minor concrete shall contain not less than 550 pounds of cementitious material per cubic yard unless otherwise specified in these specifications or the special provisions.

• Unless otherwise designated on the plans or specified in these specifications or the special provisions, the amount of cementitious material used per cubic yard of concrete in structures or portions of structures shall conform to the following:

Use	Cementitious Material Content (Pounds/CY)
Concrete designated by compressive strength:	
Deck slabs and slab spans of bridges	675 min., 800 max.
Roof sections of exposed top box culverts	675 min., 800 max.
Other portions of structures	590 min., 800 max.
Concrete not designated by compressive strength:	
Deck slabs and slab spans of bridges	675 min.
Roof sections of exposed top box culverts	675 min.
Prestressed members	675 min.
Seal courses	675 min.
Other portions of structures	590 min.
Concrete for precast members	590 min., 925 max.

• Whenever the 28-day compressive strength shown on the plans is greater than 3,600 pounds per square inch, the concrete shall be designated by compressive strength. If the plans show a 28-day compressive strength that is 4,000 pounds per square inch or greater, an additional 14 days will be allowed to obtain the specified strength. The 28-day compressive strengths shown on the plans that are 3,600 pounds per square inch or less are shown for design information only and are not a requirement for acceptance of the concrete.

• Concrete designated by compressive strength shall be proportioned such that the concrete will attain the strength shown on the plans or specified in the special provisions.

• Before using concrete for which the mix proportions have been determined by the Contractor, or in advance of revising those mix proportions, the Contractor shall submit in writing to the Engineer a copy of the mix design.

• Compliance with cementitious material content requirements will be verified in conformance with procedures described in California Test 518 for cement content. For testing purposes, supplementary cementitious material shall be considered to be cement. Batch proportions shall be adjusted as necessary to produce concrete having the specified cementitious material content.

• If any concrete has a cementitious material, portland cement, or supplementary cementitious material content that is less than the minimum required, the concrete shall be removed. However, if the Engineer determines that the concrete is structurally adequate, the concrete may remain in place and the Contractor shall pay to the State \$0.25 for each pound of cementitious material, portland cement, or supplementary cementitious material that is less than the minimum required. The Department may deduct the amount from any moneys due, or that may become due, the Contractor under the contract. The deductions will not be made unless the difference between the contents required and those actually provided exceeds the batching tolerances permitted by Section 90-5, "Proportioning." No deductions will be made based on the results of California Test 518.

The requirements of the preceding paragraph shall not apply to minor concrete or commercial quality concrete.

## 90-2 MATERIALS

## 90-2.01 CEMENTITIOUS MATERIALS

• Unless otherwise specified, cementitious material shall be either a combination of Type II or Type V portland cement and a supplementary cementitious material, or a blended cement.

• Cementitious materials used in cast-in-place concrete for exposed surfaces of like elements of a structure shall be from the same sources and of the same proportions.

• Cementitious materials shall be protected from moisture until used. Sacked cementitious materials shall be piled to permit access for tallying, inspecting, and identifying each shipment.

• Facilities shall be provided to ensure that cementitious materials meeting this Section 90-2.01 are kept separate from other cementitious materials. Sampling cementitious materials shall be in conformance with California Test 125.

• The Contractor shall furnish a Certificate of Compliance for cementious materials in conformance with the provisions in Section 6-1.07, "Certificates of Compliance." The Certificate of Compliance shall indicate the source by name and location (including country, state, and city). If cementitious material is delivered directly to the job site, the Certificate of Compliance shall be signed by the cementitious material supplier. If the cementitious material is used in ready-mixed concrete or in precast concrete products purchased as such by the Contractor, the Certificate of Compliance shall be signed by the signed by the manufacturer of the concrete or product.

## 90-2.01A CEMENT

• Portland cement shall conform to the requirements in ASTM Designation: C 150 except, using a 10-sample moving average, limestone shall not exceed 2.5 percent. The  $C_3S$  content of Type II cement shall not exceed 65 percent.

• Blended cement shall conform to the requirements for Portland Blast-Furnace Slag, Cement Type IS (MS) or Portland-Pozzolan Cement, Type IP (MS) in AASHTO Designation: M 240 and shall be comprised of an intimate and uniform blend of Type II or Type V cement and supplementary cementitious material in an amount conforming to the requirements in Section 90-2.01C, "Required Use of Supplementary Cementitious Materials."

• In addition, blended cement, Type II portland cement, and Type V portland cement shall conform to the following requirements:

- A. The cement shall not contain more than 0.60-percent by mass of alkalies, calculated as the percentage of Na<sub>2</sub>O plus 0.658 times the percentage of K<sub>2</sub>O, when determined by methods as required in AASHTO Designation: T 105;
- B. The autoclave expansion shall not exceed 0.50-percent; and
- C. Mortar, containing the cement to be used and Ottawa sand, when tested in conformance with California Test 527, shall not expand in water more than 0.010-percent and shall not contract in air more than 0.048-percent, except that when cement is to be used for precast prestressed concrete piling, precast prestressed concrete members, or steam cured concrete products, the mortar shall not contract in air more than 0.053-percent.

• Type III portland cement shall be used only as specified in the special provisions or with the approval of the Engineer. Type III portland cement shall conform to the additional requirements listed above for Type II portland cement, except when tested in conformance with California Test 527, mortar containing Type III portland cement shall not contract in air more than 0.075-percent.

## 90-2.01B SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM)

- Fly ash shall conform to the requirements in AASHTO Designation: M 295, Class F, and the following:
- A. Calcium oxide content shall not exceed 10 percent.
- B. The available alkali, as sodium oxide equivalent, shall not exceed 1.5 percent when determined in conformance with the requirements in ASTM Designation: C 311 or the total alkali, as sodium oxide equivalent, shall not exceed 5.0 percent when determined in conformance with the requirements in AASHTO Designation: T 105.
- C. Commingling of fly ash from different sources at uncontrolled ratios is permissible only if the following criteria are satisfied:
  - 1. Sources of fly ash to be commingled shall be on the approved list of materials for use in concrete.
  - 2. Testing of the commingled product is the responsibility of the fly ash supplier.
  - 3. Each fly ash's running average of density shall not differ from any other by more than 0.01-pound per cubic inch at the time of commingling.
  - 4. Each fly ash's running average of loss on ignition shall not differ from any other by more than one percent at the time of commingling.
  - 5. The final product of commingled fly ash shall conform to the requirement in AASHTO Designation: M 295.

• Raw or calcined natural pozzolans shall conform to the requirements in AASHTO Designation: M 295, Class N and the following requirements:

- A. Calcium oxide content shall not exceed 10 percent.
- B. The available alkali, as sodium oxide equivalent, shall not exceed 1.5 percent when determined in conformance with the requirements in ASTM Designation: C 311 or the total alkali, as sodium oxide equivalent, shall not exceed 5.0 percent when determined in conformance with the requirements in AASHTO Designation: T 105.

• Ground Granulated Blast Furnace Slag (GGBFS) shall conform to the requirements in AASHTO Designation: M 302, Grade 100 or Grade 120.

• Silica Fume shall conform to the requirements of AASHTO Designation: M 307, with reduction in mortar expansion of 80 percent, minimum, using the cement from the proposed mix design.

## 90-2.01C REQUIRED USE OF SUPPLEMENTARY CEMENTITIOUS MATERIALS

• The amount of portland cement and SCM used in portland cement concrete shall conform to the minimum cementitious material content provisions in Section 90-1.01, "Description," or Section 90-4.05, "Optional Use of Chemical Admixtures," and the following:

- A. If a blended cement conforming to the provisions in Section 90-2.01A, "Cement," is used, the minimum amount of SCM incorporated into the cement shall conform to the provisions in this Section 90-2.01C.
- B. Fly ash or natural pozzolan, silica fume, or GGBFS shall not be used with Type IP or Type IS cements.
- Use of SCMs shall conform to the following:
- A. If fly ash or natural pozzolan is used:
  - 1. The minimum amount of portland cement shall not be less than 75 percent by weight of the specified minimum cementitious material content.
  - 2. The minimum amount of fly ash or natural pozzolan shall be:
    - a. Fifteen percent by weight of the total amount of cementitious material if the calcium oxide content of fly ash or natural pozzolan is equal to or less than 2 percent by weight;
    - b. Twenty-five percent by weight of the total amount of cementitious material if the calcium oxide content of fly ash or natural pozzolan is greater than 2 percent by weight.
  - 3. The total amount of fly ash or natural pozzolan shall not exceed 35 percent by weight of the total amount of cementitious material to be used in the mix. If Section 90-1.01, "Description," specifies a maximum cementitious material content in pounds per cubic yard, the total weight of portland cement and fly ash or natural pozzolan per cubic yard shall not exceed the specified maximum cementitious material content.
- B. If silica fume is used:
  - 1. The amount of silica fume shall not be less than 10 percent by weight of the total amount of cementitious material.
  - 2. The amount of portland cement shall not be less than 75 percent by weight of the specified minimum cementitious material content.
  - 3. If Section 90-1.01, "Description," specifies a maximum cementitious material content in pounds per cubic yard, the total weight of portland cement and silica fume per cubic yard shall not exceed the specified maximum cementitious material content.
- C. If GGBFS is used:
  - 1. The minimum amount of GGBFS shall be either:
    - a. Forty percent of the total cementitious material to be used, if the aggregates used in the concrete are on the Department's list of "Approved Aggregates For Use in Concrete with Reduced Fly Ash."
    - b. No less than 50 percent.

2. The amount of GGBFS shall not exceed 60 percent by weight of the total amount of cementitious materials to be used.

## 90-2.02 AGGREGATES

Aggregates shall be free from deleterious coatings, clay balls, roots, bark, sticks, rags, and other extraneous material.

• The Contractor shall provide safe and suitable facilities, including necessary splitting devices for obtaining samples of aggregates, in conformance with California Test 125.

• Aggregates shall be of such character that it will be possible to produce workable concrete within the limits of water content provided in Section 90-6.06, "Amount of Water and Penetration."

• Aggregates shall have not more than 10 percent loss when tested for soundness in conformance with the requirements in California Test 214. The soundness requirement for fine aggregate will be waived, provided that the durability index,  $D_f$ , of the fine aggregate is 60 or greater when tested for durability in conformance with California Test 229.

• If the results of any one or more of the Cleanness Value, Sand Equivalent, or aggregate grading tests do not meet the requirements specified for "Operating Range" but all meet the "Contract Compliance" requirements, the placement of concrete shall be suspended at the completion of the current pour until tests or other information indicate that the next material to be used in the work will comply with the requirements specified for "Operating Range."

• If the results of either or both the Cleanness Value and coarse aggregate grading tests do not meet the requirements specified for "Contract Compliance," the concrete that is represented by the tests shall be removed. However, if the Engineer determines that the concrete is structurally adequate, the concrete may remain in place, and the Contractor shall pay to the State \$3.50 per cubic yard for paving concrete and \$5.50 per cubic yard for all other concrete for the concrete represented by these tests and left in place. The Department may deduct the amount from any moneys due, or that may become due, the Contractor under the contract.

• If the results of either or both the Sand Equivalent and fine aggregate grading tests do not meet the requirements specified for "Contract Compliance," the concrete which is represented by the tests shall be removed. However, if the Engineer determines that the concrete is structurally adequate, the concrete may remain in place, and the Contractor shall pay to the State \$3.50 per cubic yard for paving concrete and \$5.50 per cubic yard for all other concrete for the concrete represented by these tests and left in place. The Department may deduct the amount from any moneys due, or that may become due, the Contractor under the contract.

• The 2 preceding paragraphs apply individually to the "Contract Compliance" requirements for coarse aggregate and fine aggregate. When both coarse aggregate and fine aggregate do not conform to the "Contract Compliance" requirements, both paragraphs shall apply. The payments specified in those paragraphs are in addition to any payments made in conformance with the provisions in Section 90-1.01, "Description."

• No single Cleanness Value, Sand Equivalent, or aggregate grading test shall represent more than 300 cubic yards of concrete or one day's pour, whichever is smaller.

• When the source of an aggregate is changed, the Contractor shall adjust the mix proportions and submit in writing to the Engineer a copy of the mix design before using the aggregates.

#### 90-2.02A COARSE AGGREGATE

• Coarse aggregate shall consist of gravel, crushed gravel, crushed rock, reclaimed aggregate, crushed air-cooled iron blast furnace slag or combinations thereof. Crushed air-cooled blast furnace slag shall not be used in reinforced or prestressed concrete.

• Reclaimed aggregate is aggregate that has been recovered from plastic concrete by washing away the cementitious material. Reclaimed aggregate shall conform to all aggregate requirements.

• Coarse aggregate shall conform to the following quality requirements:

	California	D
Tests	Test	Requirements
Loss in Los Angeles Rattler (after 500	211	45% max.
revolutions)		
Cleanness Value		
Operating Range	227	75 min.
Contract Compliance	227	71 min.

• In lieu of the above Cleanness Value requirements, a Cleanness Value "Operating Range" limit of 71, minimum, and a Cleanness Value "Contract Compliance" limit of 68, minimum, will be used to determine the acceptability of the coarse

aggregate if the Contractor furnishes a Certificate of Compliance, as provided in Section 6-1.07, "Certificates of Compliance," certifying that:

- A. Coarse aggregate sampled at the completion of processing at the aggregate production plant had a Cleanness Value of not less than 82 when tested in conformance with the requirements in California Test 227; and
- B. Prequalification tests performed in conformance with the requirements in California Test 549 indicated that the aggregate would develop a relative strength of not less than 95 percent and would have a relative shrinkage not greater than 105 percent, based on concrete.

## 90-2.02B FINE AGGREGATE

• Fine aggregate shall consist of natural sand, manufactured sand produced from larger aggregate or a combination thereof. Manufactured sand shall be well graded.

• Fine aggregate shall conform to the following quality requirements:

Test	California Test	Requirements
	Test	1
Organic Impurities	213	Satisfactory <sup>a</sup>
Mortar Strengths Relative to Ottawa Sand	515	95%, min.
Sand Equivalent:		
Operating Range	217	75, min.
Contract Compliance	217	71, min.

a Fine aggregate developing a color darker than the reference standard color solution may be accepted if it is determined by the Engineer, from mortar strength tests, that a darker color is acceptable.

• In lieu of the above Sand Equivalent requirements, a Sand Equivalent "Operating Range" limit of 71, minimum, and a Sand Equivalent "Contract Compliance" limit of 68, minimum, will be used to determine the acceptability of the fine aggregate if the Contractor furnishes a Certificate of Compliance, as provided in Section 6-1.07, "Certificates of Compliance," certifying that:

- A. Fine aggregate sampled at the completion of processing at the aggregate production plant had a Sand Equivalent value of not less than 82 when tested by California Test 217; and
- B. Prequalification tests performed in conformance with California Test 549 indicated that the aggregate would develop a relative strength of not less than 95 percent and would have a relative shrinkage not greater than 105 percent, based on concrete.

## 90-2.03 WATER

• In conventionally reinforced concrete work, the water for curing, for washing aggregates, and for mixing shall be free from oil and shall not contain more than 1,000 parts per million of chlorides as Cl, when tested in conformance with California Test 422, nor more than 1,300 parts per million of sulfates as SO<sub>4</sub>, when tested in conformance with California Test 417. In prestressed concrete work, the water for curing, for washing aggregates, and for mixing shall be free from oil and shall not contain more than 650 parts per million of chlorides as Cl, when tested in conformance with California Test 422, nor more than 1,300 parts per million of chlorides as Cl, when tested in conformance with California Test 422, nor more than 1,300 parts per million of sulfates as SO<sub>4</sub>, when tested in conformance with California Test 417. In no case shall the water contain an amount of impurities that will cause either: 1) a change in the setting time of cement of more than 25 percent when tested in conformance with the requirements in ASTM Designation: C 191 or ASTM Designation: C 266 or 2) a reduction in the compressive strength of mortar at 14 days of more than 5 percent, when tested in conformance with the requirements in ASTM Designation: C 109.

• In nonreinforced concrete work, the water for curing, for washing aggregates and for mixing shall be free from oil and shall not contain more than 2,000 parts per million of chlorides as Cl, when tested in conformance with California Test 422, or more than 1,500 parts per million of sulfates as  $SO_4$ , when tested in conformance with California Test 417.

• In addition to the above provisions, water for curing concrete shall not contain impurities in a sufficient amount to cause discoloration of the concrete or produce etching of the surface.

• Water reclaimed from mixer wash-out operations may be used in mixing concrete. The water shall not contain coloring agents or more than 300 parts per million of alkalis (Na<sub>2</sub>O + 0.658 K<sub>2</sub>O) as determined on the filtrate. The specific gravity of the water shall not exceed 1.03 and shall not vary more than  $\pm 0.010$  during a day's operations.

## 90-2.04 ADMIXTURE MATERIALS

- Admixture materials shall conform to the requirements in the following ASTM Designations:
- A. Chemical Admixtures—ASTM Designation: C 494.
- B. Air-entraining Admixtures—ASTM Designation: C 260.

## 90-3 AGGREGATE GRADINGS

## 90-3.01 GENERAL

• Before beginning concrete work, the Contractor shall submit in writing to the Engineer the gradation of the primary aggregate nominal sizes that the Contractor proposes to furnish. If a primary coarse aggregate or the fine aggregate is separated into 2 or more sizes, the proposed gradation shall consist of the gradation for each individual size, and the proposed proportions of each individual size, combined mathematically to indicate one proposed gradation. The proposed gradation shall meet the grading requirements shown in the table in this section, and shall show the percentage passing each of the sieve sizes used in determining the end result.

• The Engineer may waive, in writing, the gradation requirements in this Section 90-3.01 and in Sections 90-3.02, "Coarse Aggregate Grading," 90-3.03, "Fine Aggregate Grading," and 90-3.04, "Combined Aggregate Gradings," if, in the Engineer's opinion, furnishing the gradation is not necessary for the type or amount of concrete work to be constructed.

Primary Aggregate Nominal Size	Sieve Size	Limits of Proposed Gradation
1 1/2" x 3/4"	1"	19 - 41
1" x No. 4	3/4"	52 - 85
1" x No. 4	3/8"	15 - 38
1/2" x No. 4	3/8"	40 - 78
3/8" x No. 8	3/8"	50 - 85
Fine Aggregate	No. 16	55 - 75
Fine Aggregate	No. 30	34 - 46
Fine Aggregate	No. 50	16 - 29

Gradations proposed by the Contractor shall be within the following percentage passing limits:

• Should the Contractor change the source of supply, the Contractor shall submit in writing to the Engineer the new gradations before their intended use.

## 90-3.02 COARSE AGGREGATE GRADING

• The grading requirements for coarse aggregates are shown in the following table for each size of coarse aggregate:

	Percentage Passing Primary Aggregate Nominal Sizes							
	1 1/2	" x 3/4"	1" x No. 4		1/2" x No. 4		3/8" x No. 8	
	Operating	Contract	Operating	Contract	Operating	Contract	Operating	Contract
Sieve Sizes	Range	Compliance	Range	Compliance	Range	Compliance	Range	Compliance
2"	100	100						—
1 1/2"	88 - 100	85 - 100	100	100				—
1"	X ±18	X ±25	88 - 100	86 - 100				
3/4"	0 - 17	0 - 20	X ±15	X ±22	100	100		
1/2"					82 - 100	80 - 100	100	100
3/8"	0 - 7	0 - 9	$X \pm 15$	X ±22	$X \pm 15$	X ±22	$X \pm 15$	X ±20
No. 4			0 - 16	0 - 18	0 - 15	0 - 18	0 - 25	0 - 28
No. 8			0 - 6	0 - 7	0 - 6	0 - 7	0 - 6	0 - 7

• In the above table, the symbol X is the gradation that the Contractor proposes to furnish for the specific sieve size as provided in Section 90-3.01, "General."

• Coarse aggregate for the 1 1/2 inch, maximum, combined aggregate grading as provided in Section 90-3.04, "Combined Aggregate Gradings," shall be furnished in 2 or more primary aggregate nominal sizes. Each primary aggregate

nominal size may be separated into 2 sizes and stored separately, provided that the combined material conforms to the grading requirements for that particular primary aggregate nominal size.

• When the one inch, maximum, combined aggregate grading as provided in Section 90-3.04, "Combined Aggregate Gradings," is to be used, the coarse aggregate may be separated into 2 sizes and stored separately, provided that the combined material shall conform to the grading requirements for the 1" x No. 4 primary aggregate nominal size.

#### 90-3.03 FINE AGGREGATE GRADING

• Fine aggregate shall be graded within the following limits:

	Percentage Passing		
Sieve Sizes	Operating Range	Contract Compliance	
3/8"	100	100	
No. 4	95 - 100	93 - 100	
No. 8	65 - 95	61 - 99	
No. 16	X ±10	X ±13	
No. 30	X ±9	X ±12	
No. 50	X ±6	X ±9	
No. 100	2 - 12	1 - 15	
No. 200	0 - 8	0 - 10	

• In the above table, the symbol X is the gradation that the Contractor proposes to furnish for the specific sieve size as provided in Section 90-3.01, "General."

• In addition to the above required grading analysis, the distribution of the fine aggregate sizes shall be such that the difference between the total percentage passing the No. 16 sieve and the total percentage passing the No. 30 sieve shall be between 10 and 40, and the difference between the percentage passing the No. 30 and No. 50 sieves shall be between 10 and 40.

• Fine aggregate may be separated into 2 or more sizes and stored separately, provided that the combined material conforms to the grading requirements specified in this Section 90-3.03.

## 90-3.04 COMBINED AGGREGATE GRADINGS

• Combined aggregate grading limits shall be used only for the design of concrete mixes. Concrete mixes shall be designed so that aggregates are combined in proportions that shall produce a mixture within the grading limits for combined aggregates as specified herein.

• The combined aggregate grading, except when otherwise specified in these specifications or the special provisions, shall be either the  $1 \frac{1}{2}$  inch, maximum grading, or the 1 inch, maximum grading, at the option of the Contractor.

Grading Limits of Combined Aggregates				
	Percentage Passing			
Sieve Sizes	1 1/2" Max.	1" Max.	1/2" Max.	3/8" Max.
2"	100	—	—	—
1 1/2"	90 - 100	100	—	—
1"	50 - 86	90 - 100	—	—
3/4"	45 - 75	55 - 100	100	—
1/2"	—	—	90 - 100	100
3/8"	38 - 55	45 - 75	55 - 86	50 - 100
No. 4	30 - 45	35 - 60	45 - 63	45 - 63
No. 8	23 - 38	27 - 45	35 - 49	35 - 49
No. 16	17 - 33	20 - 35	25 - 37	25 - 37
No. 30	10 - 22	12 - 25	15 - 25	15 - 25
No. 50	4 - 10	5 - 15	5 - 15	5 - 15
No. 100	1 - 6	1 - 8	1 - 8	1 - 8
No. 200	0 - 3	0 - 4	0 - 4	0 - 4

Grading Limits of Combined Aggregates

• Changes from one grading to another shall not be made during the progress of the work unless permitted by the Engineer.

#### 90-4 ADMIXTURES

## 90-4.01 GENERAL

• Admixtures used in portland cement concrete shall conform to and be used in conformance with the provisions in this Section 90-4 and the special provisions. Admixtures shall be used when specified or ordered by the Engineer and may be used at the Contractor's option as provided herein.

• Chemical admixtures and air-entraining admixtures containing chlorides as Cl in excess of one percent by weight of admixture, as determined by California Test 415, shall not be used.

• Admixtures shall be uniform in properties throughout their use in the work. Should it be found that an admixture as furnished is not uniform in properties, its use shall be discontinued.

• If more than one admixture is used, the admixtures shall be compatible with each other so that the desirable effects of all admixtures used will be realized.

• Chemical admixtures shall be used in conformance with the manufacturer's written recommendations.

## 90-4.02 MATERIALS

• Admixture materials shall conform to the provisions in Section 90-2.04, "Admixture Materials."

## 90-4.03 ADMIXTURE APPROVAL

• No admixture brand shall be used in the work unless it is on the Department's current list of approved brands for the type of admixture involved.

• Admixture brands will be considered for addition to the approved list if the manufacturer of the admixture submits to the Transportation Laboratory a sample of the admixture accompanied by certified test results demonstrating that the admixture complies with the requirements in the appropriate ASTM Designation and these specifications. The sample shall be sufficient to permit performance of all required tests. Approval of admixture brands will be dependent upon a determination as to compliance with the requirements, based on the certified test results submitted, together with tests the Department may elect to perform.

• If the Contractor proposes to use an admixture of a brand and type on the current list of approved admixture brands, the Contractor shall furnish a Certificate of Compliance from the manufacturer, as provided in Section 6-1.07, "Certificates of Compliance," certifying that the admixture furnished is the same as that previously approved. If a previously approved admixture is not accompanied by a Certificate of Compliance, the admixture shall not be used in the work until the Engineer has had sufficient time to make the appropriate tests and has approved the admixture for use. The Engineer may take samples for testing at any time, whether or not the admixture has been accompanied by a Certificate of Compliance.

## 90-4.04 REQUIRED USE OF CHEMICAL ADMIXTURES

• If the use of a chemical admixture is specified, the admixture shall be used at the dosage specified, except that if no dosage is specified, the admixture shall be used at the dosage normally recommended by the manufacturer of the admixture.

## 90-4.05 OPTIONAL USE OF CHEMICAL ADMIXTURES

• The Contractor may use Type A or F, water-reducing; Type B, retarding; or Type D or G, water-reducing and retarding admixtures as described in ASTM Designation: C 494 to conserve cementitious material or to facilitate any concrete construction application subject to the following conditions:

- A. If a water-reducing admixture or a water-reducing and retarding admixture is used, the cementitious material content specified or ordered may be reduced by a maximum of 5 percent by weight, except that the resultant cementitious material content shall be not less than 505 pounds per cubic yard; and
- B. When a reduction in cementitious material content is made, the dosage of admixture used shall be the dosage used in determining approval of the admixture.

• Unless otherwise specified, a Type C accelerating chemical admixture conforming to the requirements in ASTM Designation: C 494, may be used in portland cement concrete. Inclusion in the mix design submitted for approval will not be required provided that the admixture is added to counteract changing conditions that contribute to delayed setting of the portland cement concrete, and the use or change in dosage of the admixture is approved in writing by the Engineer.

## 90-4.06 REQUIRED USE OF AIR-ENTRAINING ADMIXTURES

• When air-entrainment is specified or ordered by the Engineer, the air-entraining admixture shall be used in amounts to produce a concrete having the specified air content as determined by California Test 504.

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#### 90-4.07 OPTIONAL USE OF AIR-ENTRAINING ADMIXTURES

• When air-entrainment has not been specified or ordered by the Engineer, the Contractor will be permitted to use an air-entraining admixture to facilitate the use of any construction procedure or equipment provided that the average air content, as determined by California Test 504, of 3 successive tests does not exceed 4 percent, and no single test value exceeds 5.5 percent. If the Contractor elects to use an air-entraining admixture in concrete for pavement, the Contractor shall so indicate at the time the Contractor designates the source of aggregate.

## 90-4.08 BLANK

## 90-4.09 BLANK

## 90-4.10 PROPORTIONING AND DISPENSING LIQUID ADMIXTURES

• Chemical admixtures and air-entraining admixtures shall be dispensed in liquid form. Dispensers for liquid admixtures shall have sufficient capacity to measure at one time the prescribed quantity required for each batch of concrete. Each dispenser shall include a graduated measuring unit into which liquid admixtures are measured to within  $\pm 5$  percent of the prescribed quantity for each batch. Dispensers shall be located and maintained so that the graduations can be accurately read from the point at which proportioning operations are controlled to permit a visual check of batching accuracy prior to discharge. Each measuring unit shall be clearly marked for the type and quantity of admixture.

• Each liquid admixture dispensing system shall be equipped with a sampling device consisting of a valve located in a safe and readily accessible position such that a sample of the admixture may be withdrawn slowly by the Engineer.

• If more than one liquid admixture is used in the concrete mix, each liquid admixture shall have a separate measuring unit and shall be dispensed by injecting equipment located in such a manner that the admixtures are not mixed at high concentrations and do not interfere with the effectiveness of each other. When air-entraining admixtures are used in conjunction with other liquid admixtures, the air-entraining admixture shall be the first to be incorporated into the mix, unless it is demonstrated that a different sequence improves performance.

• When automatic proportioning devices are required for concrete pavement, dispensers for liquid admixtures shall operate automatically with the batching control equipment. The dispensers shall be equipped with an automatic warning system in good operating condition that will provide a visible or audible signal at the point at which proportioning operations are controlled when the quantity of admixture measured for each batch of concrete varies from the preselected dosage by more than 5 percent, or when the entire contents of the measuring unit are not emptied from the dispenser into each batch of concrete.

• Unless liquid admixtures are added to premeasured water for the batch, their discharge into the batch shall be arranged to flow into the stream of water so that the admixtures are well dispersed throughout the batch, except that air-entraining admixtures may be dispensed directly into moist sand in the batching bins provided that adequate control of the air content of the concrete can be maintained.

• Liquid admixtures requiring dosages greater than one-half gallon per cubic yard shall be considered to be water when determining the total amount of free water as specified in Section 90-6.06, "Amount of Water and Penetration."

## 90-4.11 BLANK

## 90-5 PROPORTIONING

## 90-5.01 STORAGE OF AGGREGATES

• Aggregates shall be stored or stockpiled in such a manner that separation of coarse and fine particles of each size shall be avoided and the various sizes shall not become intermixed before proportioning.

• Aggregates shall be stored or stockpiled and handled in a manner that prevent contamination by foreign materials. In addition, storage of aggregates at batching or mixing facilities that are erected subsequent to the award of the contract and that furnish concrete to the project shall conform to the following:

- A. Intermingling of the different sizes of aggregates shall be positively prevented. The Contractor shall take the necessary measures to prevent intermingling. The preventive measures may include, but are not necessarily limited to, physical separation of stockpiles or construction of bulkheads of adequate length and height; and
- B. Contamination of aggregates by contact with the ground shall be positively prevented. The Contractor shall take the necessary measures to prevent contamination. The preventive measures shall include, but are not necessarily limited to, placing aggregates on wooden platforms or on hardened surfaces consisting of portland cement concrete, asphalt concrete, or cement treated material.

• In placing aggregates in storage or in moving the aggregates from storage to the weigh hopper of the batching plant, any method that may cause segregation, degradation, or the combining of materials of different gradings that will result in any size of aggregate at the weigh hopper failing to meet the grading requirements, shall be discontinued. Any method of handling aggregates that results in excessive breakage of particles shall be discontinued. The use of suitable devices to reduce impact of falling aggregates may be required by the Engineer.

## 90-5.02 PROPORTIONING DEVICES

• Weighing, measuring, or metering devices used for proportioning materials shall conform to the requirements in Section 9-1.01, "Measurement of Quantities," and this Section 90-5.02. In addition, automatic weighing systems shall comply with the requirements for automatic proportioning devices in Section 90-5.03A, "Proportioning for Pavement." Automatic devices shall be automatic to the extent that the only manual operation required for proportioning the aggregates, cement, and supplementary cementitious material for one batch of concrete is a single operation of a switch or starter.

• Proportioning devices shall be tested as frequently as the Engineer may deem necessary to ensure their accuracy.

• Weighing equipment shall be insulated against vibration or movement of other operating equipment in the plant. When the plant is in operation, the weight of each batch of material shall not vary from the weight designated by the Engineer by more than the tolerances specified herein.

• Equipment for cumulative weighing of aggregate shall have a zero tolerance of  $\pm 0.5$  percent of the designated total batch weight of the aggregate. For systems with individual weigh hoppers for the various sizes of aggregate, the zero tolerance shall be  $\pm 0.5$  percent of the individual batch weight designated for each size of aggregate. Equipment for cumulative weighing of cement and supplementary cementitious material shall have a zero tolerance of  $\pm 0.5$  percent of the designated total batch weight of the cement and supplementary cementitious material. Equipment for weighing cement or supplementary cementitious material shall have a zero tolerance of  $\pm 0.5$  percent of their designated individual batch weights. Equipment for measuring water shall have a zero tolerance of  $\pm 0.5$  percent of its designated weight or volume.

• The weight indicated for any batch of material shall not vary from the preselected scale setting by more than the following:

- A. Aggregate weighed cumulatively shall be within 1.0 percent of the designated total batch weight of the aggregate. Aggregates weighed individually shall be within 1.5 percent of their respective designated batch weights; and
- B. Cement shall be 99 to 102 percent of its designated batch weight. When weighed individually, supplementary cementitious material shall be 99 to 102 percent of its designated batch weight. When supplementary cementitious material and cement are permitted to be weighed cumulatively, cement shall be weighed first to 99 to 102 percent of its designated batch weight, and the total for cement and supplementary cementitious material shall be 99 to 102 percent of the sum of their designated batch weights; and
- C. Water shall be within 1.5 percent of its designated weight or volume.

• Each scale graduation shall be approximately 0.001 of the total capacity of the scale. The capacity of scales for weighing cement, supplementary cementitious material, or cement plus supplementary cementitious material and aggregates shall not exceed that of commercially available scales having single graduations indicating a weight not exceeding the maximum permissible weight variation above, except that no scale shall be required having a capacity of less than 1,000 pounds, with one pound graduations.

#### 90-5.03 PROPORTIONING

• Proportioning shall consist of dividing the aggregates into the specified sizes, each stored in a separate bin, and combining them with cementitious material and water as provided in these specifications. Aggregates shall be proportioned by weight.

• At the time of batching, aggregates shall have been dried or drained sufficiently to result in a stable moisture content such that no visible separation of water from aggregate will take place during transportation from the proportioning plant to the point of mixing. In no event shall the free moisture content of the fine aggregate at the time of batching exceed 8 percent of its saturated, surface-dry weight.

• Should separate supplies of aggregate material of the same size group, but of different moisture content or specific gravity or surface characteristics affecting workability, be available at the proportioning plant, withdrawals shall be made from one supply exclusively and the materials therein completely exhausted before starting upon another.

• Bulk Type IP (MS) cement shall be weighed in an individual hopper and shall be kept separate from the aggregates until the ingredients are released for discharge into the mixer.

• Bulk cement and supplementary cementitious material may be weighed in separate, individual weigh hoppers or may be weighed in the same weigh hopper and shall be kept separate from the aggregates until the ingredients are released

County of El Dorado, DOT Appendix A-Specification Amendments Page AA-54 for discharge into the mixer. If the cement and supplementary cementitious material are weighed cumulatively, the cement shall be weighed first.

• If cement and supplementary cementitious material are weighed in separate weigh hoppers, the weigh systems for the proportioning of the aggregate, the cement, and the supplementary cementitious material shall be individual and distinct from all other weigh systems. Each weigh system shall be equipped with a hopper, a lever system, and an indicator to constitute an individual and independent material-weighing device. The cement and the supplementary cementitious material shall be discharged into the mixer simultaneously with the aggregate.

• The scales and weigh hoppers for bulk weighing cement, supplementary cementitious material, or cement plus supplementary cementitious material shall be separate and distinct from the aggregate weighing equipment.

- For batches of one cubic yard or more, the batching equipment shall conform to one of the following combinations:
- A. Separate boxes and separate scale and indicator for weighing each size of aggregate.
- B. Single box and scale indicator for all aggregates.
- C. Single box or separate boxes and automatic weighing mechanism for all aggregates.

• In order to check the accuracy of batch weights, the gross weight and tare weight of batch trucks, truck mixers, truck agitators, and non-agitating hauling equipment shall be determined when ordered by the Engineer. The equipment shall be weighed on scales designated by the Engineer.

## 90-5.03A PROPORTIONING FOR PAVEMENT

• Aggregates and bulk supplementary cementitious material for use in pavement shall be proportioned by weight by means of automatic proportioning devices of approved type conforming to these specifications.

• The Contractor shall install and maintain in operating condition an electronically actuated moisture meter that will indicate, on a readily visible scale, changes in the moisture content of the fine aggregate as it is batched within a sensitivity of 0.5 percent by weight of the fine aggregate.

• The batching of cement, supplementary cementitious material, or cement plus supplementary cementitious material and aggregate shall be interlocked so that a new batch cannot be started until all weigh hoppers are empty, the proportioning devices are within zero tolerance, and the discharge gates are closed. The interlock shall permit no part of the batch to be discharged until all aggregate hoppers and the cement and supplementary cementitious material hoppers or the cement plus supplementary cementitious material hopper are charged with weights that are within the tolerances specified in Section 90-5.02, "Proportioning Devices."

• If interlocks are required for cement and supplementary cementitious material charging mechanisms and cement and supplementary cementitious material are weighed cumulatively, their charging mechanisms shall be interlocked to prevent the introduction of mineral admixture until the weight of cement in the cement weigh hopper is within the tolerances specified in Section 90-5.02, "Proportioning Devices."

• If concrete is completely mixed in stationary paving mixers, the supplementary cementitious materials shall be weighed in a separate weigh hopper and the supplementary cementitious material and cement shall be introduced simultaneously into the mixer proportionately with the aggregate. If the Contractor provides certification that the stationary mixer is capable of mixing the cement, supplementary cementitious material, aggregates, and water uniformly before discharge, weighing the supplementary cementitious material cumulatively with the cement is permitted. Certification shall contain the following:

- A. Test results for 2 compressive strength test cylinders of concrete taken within the first one-third and 2 compressive strength test cylinders of concrete taken within the last one-third of the concrete discharged from a single batch from the stationary paving mixer. Strength tests and cylinder preparation will be in conformance with the provisions of Section 90-9, "Compressive Strength";
- B. Calculations demonstrating that the difference in the averages of 2 compressive strengths taken in the first one-third is no greater than 7.5 percent different than the averages of 2 compressive strengths taken in the last one-third of the concrete discharged from a single batch from the stationary paving mixer. Strength tests and cylinder preparation will be in conformance with the provisions of Section 90-9, "Compressive Strength;" and
- C. The mixer rotation speed and time of mixing before discharge that are required to produce a mix that meets the requirements above.

• The discharge gate on the cement and supplementary cementitious material hoppers or the cement plus supplementary cementitious material hopper shall be designed to permit regulating the flow of cement, supplementary cementitious material, or cement plus supplementary cementitious material into the aggregate as directed by the Engineer.

• If separate weigh boxes are used for each size of aggregate, the discharge gates shall permit regulating the flow of each size of aggregate as directed by the Engineer.

• Material discharged from the several bins shall be controlled by gates or by mechanical conveyors. The means of withdrawal from the several bins, and of discharge from the weigh box, shall be interlocked so that not more than one bin can discharge at a time, and so that the weigh box cannot be tripped until the required quantity from each of the several bins has been deposited therein. Should a separate weigh box be used for each size of aggregate, all may be operated and discharged simultaneously.

• If the discharge from the several bins is controlled by gates, each gate shall be actuated automatically so that the required mass is discharged into the weigh box, after which the gate shall automatically close and lock.

• The automatic weighing system shall be designed so that all proportions required may be set on the weighing controller at the same time.

## 90-6 MIXING AND TRANSPORTING

#### **90-6.01 GENERAL**

• Concrete shall be mixed in mechanically operated mixers, except that when permitted by the Engineer, batches not exceeding 1/3 cubic yard may be mixed by hand methods in conformance with the provisions in Section 90-6.05, "Hand-Mixing."

• Equipment having components made of aluminum or magnesium alloys that would have contact with plastic concrete during mixing, transporting, or pumping of portland cement concrete shall not be used.

• Concrete shall be homogeneous and thoroughly mixed, and there shall be no lumps or evidence of undispersed cementitious material.

• Uniformity of concrete mixtures will be determined by differences in penetration as determined by California Test 533, or slump as determined by ASTM Designation: C 143, and by variations in the proportion of coarse aggregate as determined by California Test 529.

• When the mix design specifies a penetration value, the difference in penetration, determined by comparing penetration tests on 2 samples of mixed concrete from the same batch or truck mixer load, shall not exceed 1/2-inch. When the mix design specifies a slump value, the difference in slump, determined by comparing slump tests on 2 samples of mixed concrete from the same batch or truck mixer load, shall not exceed the values given in the table below. Variation in the proportion of coarse aggregate will be determined by comparing the results of tests of 2 samples of mixed concrete from the same batch or truck mixer load and the difference between the 2 results shall not exceed 170 pounds per cubic yard of concrete.

Average Slump	Maximum Permissible Difference
Less than 4"	1"
4" to 6"	1 1/2"
Greater than 6" to 9"	2"

• The Contractor shall furnish samples of the freshly mixed concrete and provide satisfactory facilities for obtaining the samples.

#### 90-6.02 MACHINE MIXING

• Concrete mixers may be of the revolving drum or the revolving blade type, and the mixing drum or blades shall be operated uniformly at the mixing speed recommended by the manufacturer. Mixers and agitators that have an accumulation of hard concrete or mortar shall not be used.

• The temperature of mixed concrete, immediately before placing, shall be not less than  $50^{\circ}$  F or more than  $90^{\circ}$  F. Aggregates and water shall be heated or cooled as necessary to produce concrete within these temperature limits. Neither aggregates nor mixing water shall be heated to exceed  $150^{\circ}$  F. If ice is used to cool the concrete, discharge of the mixer will not be permitted until all ice is melted.

• The batch shall be so charged into the mixer that some water will enter in advance of cementitious materials and aggregates. All water shall be in the drum by the end of the first one-fourth of the specified mixing time.

• Cementitious materials shall be batched and charged into the mixer by means that will not result either in loss of cementitious materials due to the effect of wind, in accumulation of cementitious materials on surfaces of conveyors or hoppers, or in other conditions that reduce or vary the required quantity of cementitious material in the concrete mixture.

• Paving and stationary mixers shall be operated with an automatic timing device. The timing device and discharge mechanism shall be interlocked so that during normal operation no part of the batch will be discharged until the specified mixing time has elapsed.

• The total elapsed time between the intermingling of damp aggregates and all cementitious materials and the start of mixing shall not exceed 30 minutes.

• The size of batch shall not exceed the manufacturer's guaranteed capacity.

• When producing concrete for pavement or base, suitable batch counters shall be installed and maintained in good operating condition at job site batching plants and stationary mixers. The batch counters shall indicate the exact number of batches proportioned and mixed.

- Concrete shall be mixed and delivered to the job site by means of one of the following combinations of operations:
- A. Mixed completely in a stationary mixer and the mixed concrete transported to the point of delivery in truck agitators or in nonagitating hauling equipment (central-mixed concrete).
- B. Mixed partially in a stationary mixer, and the mixing completed in a truck mixer (shrink-mixed concrete).
- C. Mixed completely in a truck mixer (transit-mixed concrete).
- D. Mixed completely in a paving mixer.

• Agitators may be truck mixers operating at agitating speed or truck agitators. Each mixer and agitator shall have attached thereto in a prominent place a metal plate or plates on which is plainly marked the various uses for which the equipment is designed, the manufacturer's guaranteed capacity of the drum or container in terms of the volume of mixed concrete and the speed of rotation of the mixing drum or blades.

• Truck mixers shall be equipped with electrically or mechanically actuated revolution counters by which the number of revolutions of the drum or blades may readily be verified.

• When shrink-mixed concrete is furnished, concrete that has been partially mixed at a central plant shall be transferred to a truck mixer and all requirements for transit-mixed concrete shall apply. No credit in the number of revolutions at mixing speed will be allowed for partial mixing in a central plant.

#### 90-6.03 TRANSPORTING MIXED CONCRETE

• Mixed concrete may be transported to the delivery point in truck agitators or truck mixers operating at the speed designated by the manufacturer of the equipment as agitating speed, or in non-agitating hauling equipment, provided the consistency and workability of the mixed concrete upon discharge at the delivery point is suitable for adequate placement and consolidation in place, and provided the mixed concrete after hauling to the delivery point conforms to the provisions in Section 90-6.01, "General."

• Truck agitators shall be loaded not to exceed the manufacturer's guaranteed capacity and shall maintain the mixed concrete in a thoroughly mixed and uniform mass during hauling.

• Bodies of nonagitating hauling equipment shall be constructed so that leakage of the concrete mix, or any part thereof, will not occur at any time.

• Concrete hauled in open-top vehicles shall be protected during hauling against rain or against exposure to the sun for more than 20 minutes when the ambient temperature exceeds  $75^{\circ}$  F.

• No additional mixing water shall be incorporated into the concrete during hauling or after arrival at the delivery point, unless authorized by the Engineer. If the Engineer authorizes additional water to be incorporated into the concrete, the drum shall be revolved not less than 30 revolutions at mixing speed after the water is added and before discharge is commenced.

• The rate of discharge of mixed concrete from truck mixer-agitators shall be controlled by the speed of rotation of the drum in the discharge direction with the discharge gate fully open.

• If a truck mixer or agitator is used for transporting concrete to the delivery point, discharge shall be completed within 1.5 hours or before 250 revolutions of the drum or blades, whichever occurs first, after the introduction of the cement to the aggregates. Under conditions contributing to quick stiffening of the concrete, or if the temperature of the concrete is 85° F or above, the time allowed may be less than 1.5 hours. If an admixture is used to retard the set time, the temperature of the concrete shall not exceed 85° F, the time limit shall be 2 hours, and the revolution limitation shall be 300.

• If nonagitating hauling equipment is used for transporting concrete to the delivery point, discharge shall be completed within one hour after the addition of the cement to the aggregates. Under conditions contributing to quick stiffening of the concrete, or when the temperature of the concrete is 85° F or above, the time between the introduction of cement to the aggregates and discharge shall not exceed 45 minutes.

• Each load of concrete delivered at the job site shall be accompanied by a weighmaster certificate showing the mix identification number, nonrepeating load number, date and time at which the materials were batched, the total amount of water added to the load, and for transit-mixed concrete, the reading of the revolution counter at the time the truck mixer is charged with cement. This weighmaster certificate shall also show the actual scale weights (pounds) for the ingredients batched. Theoretical or target batch weights shall not be used as a substitute for actual scale weights.

• Weighmaster certificates shall be provided in printed form, or if approved by the Engineer, the data may be submitted in electronic media. Electronic media shall be presented in a tab-delimited format on a 3 1/2-inch diskette with a capacity of at least 1.4 megabytes. Captured data, for the ingredients represented by each batch shall be "line feed, carriage return" (LFCR) and "one line, separate record" with allowances for sufficient fields to satisfy the amount of data required by these specifications.

• The Contractor may furnish a weighmaster certificate accompanied by a separate certificate that lists the actual batch weights or measurements for a load of concrete provided that both certificates are imprinted with the same nonrepeating load number that is unique to the contract and delivered to the jobsite with the load.

• Weighmaster certificates furnished by the Contractor shall conform to the provisions in Section 9-1.01, "Measurement of Quantities."

#### 90-6.04 TIME OR AMOUNT OF MIXING

• Mixing of concrete in paving or stationary mixers shall continue for the required mixing time after all ingredients, except water and admixture, if added with the water, are in the mixing compartment of the mixer before any part of the batch is released. Transfer time in multiple drum mixers shall not be counted as part of the required mixing time.

• The required mixing time, in paving or stationary mixers, of concrete used for concrete structures, except minor structures, shall be not less than 90 seconds or more than 5 minutes, except that when directed by the Engineer in writing, the requirements of the following paragraph shall apply.

• The required mixing time, in paving or stationary mixers, except as provided in the preceding paragraph, shall be not less than 50 seconds or more than 5 minutes.

• The minimum required revolutions at the mixing speed for transit-mixed concrete shall not be less than that recommended by the mixer manufacturer, but in no case shall the number of revolutions be less than that required to consistently produce concrete conforming to the provisions for uniformity in Section 90-6.01, "General."

• When a high range water-reducing admixture is added to the concrete at the job site, the total number of revolutions shall not exceed 300.

#### 90-6.05 HAND-MIXING

• Hand-mixed concrete shall be made in batches of not more than 1/3 cubic yard and shall be mixed on a watertight, level platform. The proper amount of coarse aggregate shall be measured in measuring boxes and spread on the platform and the fine aggregate shall be spread on this layer, the 2 layers being not more than one foot in total depth. On this mixture shall be spread the dry cementitious materials and the whole mass turned no fewer than 2 times dry; then sufficient clean water shall be added, evenly distributed, and the whole mass again turned no fewer than 3 times, not including placing in the carriers or forms.

## 90-6.06 AMOUNT OF WATER AND PENETRATION

• The amount of water used in concrete mixes shall be regulated so that the penetration of the concrete as determined by California Test 533 or the slump of the concrete as determined by ASTM Designation: C 143 is within the nominal values shown in the following table. When the penetration or slump of the concrete is found to exceed the nominal values listed, the mixture of subsequent batches shall be adjusted to reduce the penetration or slump to a value within the nominal range shown. Batches of concrete with a penetration or slump exceeding the maximum values listed shall not be used in the work. If Type F or Type G chemical admixtures are added to the mix, the penetration requirements shall not apply and the slump shall not exceed 9 inches after the chemical admixtures are added.

Type of Work	Nominal		Maximum	
	Penetration Slump		Penetration	Slump
	(inches)	(inches)	(inches)	(inches)
Concrete Pavement	0 - 1	_	1 1/2	—
Non-reinforced concrete facilities	0 - 1 1/2		2	—
Reinforced concrete structures				
Sections over 12 inches thick	0 - 1 1/2	—	2 1/2	—
Sections 12 inches thick or less	0 - 2		3	—
Concrete placed under water		6 - 8		9
Cast-in-place concrete piles	2 1/2 - 3 1/2	5 - 7	4	8

• The amount of free water used in concrete shall not exceed 310 pounds per cubic yard, plus 20 pounds for each required 100 pounds of cementitious material in excess of 550 pounds per cubic yard.

• The term free water is defined as the total water in the mixture minus the water absorbed by the aggregates in reaching a saturated surface-dry condition.

• If there are adverse or difficult conditions that affect the placing of concrete, the above specified penetration and free water content limitations may be exceeded providing the Contractor is granted permission by the Engineer in writing to increase the cementitious material content per cubic yard of concrete. The increase in water and cementitious material shall be at a ratio not to exceed 30 pounds of water per added 100 pounds of cementitious material per cubic yard. Full compensation for additional cementitious material and water added under these conditions shall be considered as included in the contract price paid for the concrete work involved and no additional compensation will be allowed therefor.

• The equipment for supplying water to the mixer shall be constructed and arranged so that the amount of water added can be measured accurately. Any method of discharging water into the mixer for a batch shall be accurate within 1.5 percent of the quantity of water required to be added to the mix for any position of the mixer. Tanks used to measure water shall be designed so that water cannot enter while water is being discharged into the mixer and discharge into the mixer shall be made rapidly in one operation without dribbling. All equipment shall be arranged so as to permit checking the amount of water delivered by discharging into measured containers.

## 90-7 CURING CONCRETE

#### 90-7.01 METHODS OF CURING

• Newly placed concrete shall be cured by the methods specified in this Section 90-7.01 and the special provisions.

#### 90-7.01A WATER METHOD

• The concrete shall be kept continuously wet by the application of water for a minimum curing period of 7 days after the concrete has been placed.

• Cotton mats, rugs, carpets, or earth or sand blankets may be used as a curing medium to retain the moisture during the curing period.

• If a curing medium consisting of cotton mats, rugs, carpets, polyethylene sheeting, polyethylene sheeting on burlap, or earth or sand blankets is to be used to retain the moisture, the entire surface of the concrete shall be kept damp by applying water with a nozzle that so atomizes the flow that a mist and not a spray is formed, until the surface of the concrete is covered with the curing medium. The moisture from the nozzle shall not be applied under pressure directly upon the concrete and shall not be allowed to accumulate on the concrete in a quantity sufficient to cause a flow or wash the surface. At the expiration of the curing period, the concrete surfaces shall be cleared of all curing media.

• At the option of the Contractor, a curing medium consisting of white opaque polyethylene sheeting extruded onto burlap may be used to cure concrete structures. The polyethylene sheeting shall have a minimum thickness of 4-mil, and shall be extruded onto 10-ounce burlap.

• At the option of the Contractor, a curing medium consisting of polyethylene sheeting may be used to cure concrete columns. The polyethylene sheeting shall have a minimum thickness of 10-mil achieved in a single layer of material.

• If the Contractor chooses to use polyethylene sheeting or polyethylene sheeting on burlap as a curing medium, these media and any joints therein shall be secured as necessary to provide moisture retention and shall be within 3 inches of the concrete at all points along the surface being cured. When these media are used, the temperature of the concrete shall be monitored during curing. If the temperature of the concrete cannot be maintained below 140° F, use of these curing media shall be disallowed.

• When concrete bridge decks and flat slabs are to be cured without the use of a curing medium, the entire surface of the bridge deck or slab shall be kept damp by the application of water with an atomizing nozzle as specified above, until the concrete has set, after which the entire surface of the concrete shall be sprinkled continuously with water for a period of not less than 7 days.

#### 90-7.01B CURING COMPOUND METHOD

- Surfaces of the concrete that are exposed to the air shall be sprayed uniformly with a curing compound.
- Curing compounds to be used shall be as follows:
- 1. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class B, except the resin type shall be poly-alpha-methylstyrene.
- 2. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class B.
- 3. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class A.
- 4. Nonpigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 1, Class B.
- 5. Nonpigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 1, Class A.
- 6. Nonpigmented curing compound with fugitive dye conforming to the requirements in ASTM Designation: C 309, Type 1-D, Class A.

• The infrared scan for the dried vehicle from curing compound (1) shall match the infrared scan on file at the Transportation Laboratory.

• The loss of water for each type of curing compound, when tested in conformance with the requirements in California Test 534, shall not be more than 0.28-pounds per square yard in 24 hours.

• The curing compound to be used will be specified elsewhere in these specifications or in the special provisions.

• If the use of curing compound is required or permitted elsewhere in these specifications or in the special provisions and no specific kind is specified, any of the curing compounds listed above may be used.

• Curing compound shall be applied at a nominal rate of one gallon per 150 square feet, unless otherwise specified.

• At any point, the application rate shall be within  $\pm 50$  square feet per gallon of the nominal rate specified, and the average application rate shall be within  $\pm 25$  square feet per gallon of the nominal rate specified when tested in conformance with the requirements in California Test 535. Runs, sags, thin areas, skips, or holidays in the applied curing compound shall be evidence that the application is not satisfactory.

• Curing compounds shall be applied using power operated spray equipment. The power operated spraying equipment shall be equipped with an operational pressure gage and a means of controlling the pressure. Hand spraying of small and irregular areas that are not reasonably accessible to mechanical spraying equipment, in the opinion of the Engineer, may be permitted.

• The curing compound shall be applied to the concrete following the surface finishing operation, immediately before the moisture sheen disappears from the surface, but before any drying shrinkage or craze cracks begin to appear. In the event of any drying or cracking of the surface, application of water with an atomizing nozzle as specified in Section 90-7.01A, "Water Method," shall be started immediately and shall be continued until application of the compound is resumed or started; however, the compound shall not be applied over any resulting freestanding water. Should the film of compound be damaged from any cause before the expiration of 7 days after the concrete is placed in the case of structures and 72 hours in the case of pavement, the damaged portion shall be repaired immediately with additional compound.

• At the time of use, compounds containing pigments shall be in a thoroughly mixed condition with the pigment uniformly dispersed throughout the vehicle. A paddle shall be used to loosen all settled pigment from the bottom of the container, and a power driven agitator shall be used to disperse the pigment uniformly throughout the vehicle.

• Agitation shall not introduce air or other foreign substance into the curing compound.

• The manufacturer shall include in the curing compound the necessary additives for control of sagging, pigment settling, leveling, de-emulsification, or other requisite qualities of a satisfactory working material. Pigmented curing compounds shall be manufactured so that the pigment does not settle badly, does not cake or thicken in the container, and does not become granular or curdled. Settlement of pigment shall be a thoroughly wetted, soft, mushy mass permitting the complete and easy vertical penetration of a paddle. Settled pigment shall be easily redispersed, with minimum resistance to the sideways manual motion of the paddle across the bottom of the container, to form a smooth uniform product of the proper consistency.

• Curing compounds shall remain sprayable at temperatures above 40° F and shall not be diluted or altered after manufacture.

• The curing compound shall be packaged in clean 274-gallon totes, 55-gallon barrels or 5-gallon pails shall be supplied from a suitable storage tank located at the jobsite. The containers shall comply with "Title 49, Code of Federal Regulations, Hazardous Materials Regulations." The 274-gallon totes and the 55-gallon barrels shall have removable lids and airtight fasteners. The 5-gallon pails shall be round and have standard full open head and bail. Lids with bungholes will not be permitted. Settling or separation of solids in containers, except tanks, must be completely redispersed with low speed mixing prior to use, in conformance with these specifications and the manufacturer's recommendations. Mixing shall be accomplished either manually by use of a paddle or by use of a mixing blade driven by a drill motor, at low speed. Mixing blades shall be the type used for mixing paint. On-site storage tanks shall be kept clean and free of contaminants. Each tank shall have a permanent system designed to completely redisperse settled material without introducing air or other foreign substances.

• Steel containers and lids shall be lined with a coating that will prevent destructive action by the compound or chemical agents in the air space above the compound. The coating shall not come off the container or lid as skins. Containers shall be filled in a manner that will prevent skinning. Plastic containers shall not react with the compound.

• Each container shall be labeled with the manufacturer's name, kind of curing compound, batch number, volume, date of manufacture, and volatile organic compound (VOC) content. The label shall also warn that the curing compound containing pigment shall be well stirred before use. Precautions concerning the handling and the application of curing compound shall be shown on the label of the curing compound containers in conformance with the Construction Safety Orders and General Industry Safety Orders of the State.

• Containers of curing compound shall be labeled to indicate that the contents fully comply with the rules and regulations concerning air pollution control in the State.

• When the curing compound is shipped in tanks or tank trucks, a shipping invoice shall accompany each load. The invoice shall contain the same information as that required herein for container labels.

• Curing compound will be sampled by the Engineer at the source of supply, at the job site, or at both locations.

• Curing compound shall be formulated so as to maintain the specified properties for a minimum of one year. The Engineer may require additional testing before use to determine compliance with these specifications if the compound has not been used within one year or whenever the Engineer has reason to believe the compound is no longer satisfactory.

• Tests will be conducted in conformance with the latest ASTM test methods and methods in use by the Transportation Laboratory.

## 90-7.01C WATERPROOF MEMBRANE METHOD

• The exposed finished surfaces of concrete shall be sprayed with water, using a nozzle that so atomizes the flow that a mist and not a spray is formed, until the concrete has set, after which the curing membrane, shall be placed. The curing membrane shall remain in place for a period of not less than 72 hours.

• Sheeting material for curing concrete shall conform to the requirements in AASHTO Designation: M 171 for white reflective materials.

• The sheeting material shall be fabricated into sheets of such width as to provide a complete cover for the entire concrete surface. Joints in the sheets shall be securely cemented together in such a manner as to provide a waterproof joint. The joint seams shall have a minimum lap of 0.33-foot.

• The sheets shall be securely weighted down by placing a bank of earth on the edges of the sheets or by other means satisfactory to the Engineer.

• Should any portion of the sheets be broken or damaged before the expiration of 72 hours after being placed, the broken or damaged portions shall be immediately repaired with new sheets properly cemented into place.

• Sections of membrane that have lost their waterproof qualities or have been damaged to such an extent as to render them unfit for curing the concrete shall not be used.

#### 90-7.01D FORMS-IN-PLACE METHOD

• Formed surfaces of concrete may be cured by retaining the forms in place. The forms shall remain in place for a minimum period of 7 days after the concrete has been placed, except that for members over 20 inches in least dimension the forms shall remain in place for a minimum period of 5 days.

• Joints in the forms and the joints between the end of forms and concrete shall be kept moisture tight during the curing period. Cracks in the forms and cracks between the forms and the concrete shall be resealed by methods subject to the approval of the Engineer.

#### 90-7.02 CURING PAVEMENT

• The entire exposed area of the pavement, including edges, shall be cured by the waterproof membrane method, or curing compound method using curing compound (1) or (2) as the Contractor may elect. Should the side forms be removed before the expiration of 72 hours following the start of curing, the exposed pavement edges shall also be cured. If the pavement is cured by means of the curing compound method, the sawcut and all portions of the curing compound that have been disturbed by sawing operations shall be restored by spraying with additional curing compound.

• Curing shall commence as soon as the finishing process provided in Section 40-1.10, "Final Finishing," has been completed. The method selected shall conform to the provisions in Section 90-7.01, "Methods of Curing."

• When the curing compound method is used, the compound shall be applied to the entire pavement surface by mechanical sprayers. Spraying equipment shall be of the fully atomizing type equipped with a tank agitator that provides for continual agitation of the curing compound during the time of application. The spray shall be adequately protected against wind, and the nozzles shall be so oriented or moved mechanically transversely as to result in the minimum specified rate of coverage being applied uniformly on exposed faces. Hand spraying of small and irregular areas, and areas inaccessible to mechanical spraying equipment, in the opinion of the Engineer, will be permitted. When the ambient air temperature is above 60° F, the Contractor shall fog the surface of the concrete with a fine spray of water as specified in Section 90-7.01A, "Water Method." The surface of the pavement shall be kept moist between the hours of 10:00 a.m. and 4:30 p.m. on the day the concrete is placed. However, the fogging done after the curing compound has been applied shall not begin until the compound has set sufficiently to prevent displacement. Fogging shall be discontinued if ordered in writing by the Engineer.

#### 90-7.03 CURING STRUCTURES

• Newly placed concrete for cast-in-place structures, other than highway bridge decks, shall be cured by the water method, the forms-in-place method, or, as permitted herein, by the curing compound method, in conformance with the provisions in Section 90-7.01, "Methods of Curing."

• The curing compound method using a pigmented curing compound may be used on concrete surfaces of construction joints, surfaces that are to be buried underground, and surfaces where only ordinary surface finish is to be applied and on which a uniform color is not required and that will not be visible from a public traveled way. If the Contractor elects to use the curing compound method on the bottom slab of box girder spans, the curing compound shall be curing compound (1).

• The top surface of highway bridge decks shall be cured by both the curing compound method and the water method. The curing compound shall be curing compound (1).

• Concrete surfaces of minor structures, as defined in Section 51-1.02, "Minor Structures," shall be cured by the water method, the forms-in-place method or the curing compound method.

• When deemed necessary by the Engineer during periods of hot weather, water shall be applied to concrete surfaces being cured by the curing compound method or by the forms-in-place method, until the Engineer determines that a cooling effect is no longer required. Application of water for this purpose will be paid for as extra work as provided in Section 4-1.03D, "Extra Work."

## 90-7.04 CURING PRECAST CONCRETE MEMBERS

• Precast concrete members shall be cured in conformance with any of the methods specified in Section 90-7.01, "Methods of Curing." Curing shall be provided for the minimum time specified for each method or until the concrete reaches its design strength, whichever is less. Steam curing may also be used for precast members and shall conform to the following provisions:

- A. After placement of the concrete, members shall be held for a minimum 4-hour presteaming period. If the ambient air temperature is below 50° F, steam shall be applied during the presteaming period to hold the air surrounding the member at a temperature between 50° F and 90° F.
- B. To prevent moisture loss on exposed surfaces during the presteaming period, members shall be covered as soon as possible after casting or the exposed surfaces shall be kept wet by fog spray or wet blankets.
- C. Enclosures for steam curing shall allow free circulation of steam about the member and shall be constructed to contain the live steam with a minimum moisture loss. The use of tarpaulins or similar flexible covers will be permitted, provided they are kept in good repair and secured in such a manner as to prevent the loss of steam and moisture.
- D. Steam at the jets shall be at low pressure and in a saturated condition. Steam jets shall not impinge directly on the concrete, test cylinders, or forms. During application of the steam, the temperature rise within the enclosure shall not exceed 40° F per hour. The curing temperature throughout the enclosure shall not exceed 150° F and shall be maintained at a constant level for a sufficient time necessary to develop the required transfer strength. Control cylinders shall be covered to prevent moisture loss and shall be placed in a location where temperature is representative of the average temperature of the enclosure.
- E. Temperature recording devices that will provide an accurate, continuous, permanent record of the curing temperature shall be provided. A minimum of one temperature recording device per 200 feet of continuous bed length will be required for checking temperature.
- F. Members in pretension beds shall be detensioned immediately after the termination of steam curing while the concrete and forms are still warm, or the temperature under the enclosure shall be maintained above 60° F until the stress is transferred to the concrete.
- G. Curing of precast concrete will be considered completed after termination of the steam curing cycle.

#### 90-7.05 CURING PRECAST PRESTRESSED CONCRETE PILES

• Newly placed concrete for precast prestressed concrete piles shall be cured in conformance with the provisions in Section 90-7.04, "Curing Precast Concrete Members," except that piles in a corrosive environment shall be cured as follows:

- A. Piles shall be either steam cured or water cured. If water curing is used, the piles shall be kept continuously wet by the application of water in conformance with the provisions in Section 90-7.01A, "Water Method."
- B. If steam curing is used, the steam curing provisions in Section 90-7.04, "Curing Precast Concrete Members," shall apply except that the piles shall be kept continuously wet for their entire length for a period of not less than 3 days, including the holding and steam curing periods.

## 90-7.06 CURING SLOPE PROTECTION

• Concrete slope protection shall be cured in conformance with any of the methods specified in Section 90-7.01, "Methods of Curing."

• Concreted-rock slope protection shall be cured in conformance with any of the methods specified in Section 90-7.01, "Methods of Curing," with a blanket of earth kept wet for 72 hours, or by sprinkling with a fine spray of water every 2 hours during the daytime for a period of 3 days.

## 90-7.07 CURING MISCELLANEOUS CONCRETE WORK

• Exposed surfaces of curbs shall be cured by pigmented curing compounds as specified in Section 90-7.01B, "Curing Compound Method."

• Concrete sidewalks, gutter depressions, island paving, curb ramps, driveways, and other miscellaneous concrete areas shall be cured in conformance with any of the methods specified in Section 90-7.01, "Methods of Curing."

• Shotcrete shall be cured for at least 72 hours by spraying with water, by a moist earth blanket, or by any of the methods provided in Section 90-7.01, "Methods of Curing."

Mortar and grout shall be cured by keeping the surface damp for 3 days.

• After placing, the exposed surfaces of sign structure foundations, including pedestal portions, if constructed, shall be cured for at least 72 hours by spraying with water, by a moist earth blanket, or by any of the methods provided in Section 90-7.01, "Methods of Curing."

## 90-8 PROTECTING CONCRETE

## 90-8.01 GENERAL

• In addition to the provisions in Section 7-1.16, "Contractor's Responsibility for the Work and Materials," the Contractor shall protect concrete as provided in this Section 90-8. If required by the Engineer, the Contractor shall submit a written outline of the proposed methods for protecting the concrete.

• The Contractor shall protect concrete from damage from any cause, which shall include, but not be limited to: rain, heat, cold, wind, Contractor's actions, and actions of others.

• Concrete shall not be placed on frozen or ice-coated ground or subgrade nor on ice-coated forms, reinforcing steel, structural steel, conduits, precast members, or construction joints.

• Under rainy conditions, placing of concrete shall be stopped before the quantity of surface water is sufficient to damage surface mortar or cause a flow or wash of the concrete surface, unless the Contractor provides adequate protection against damage.

• Concrete that has been frozen or damaged by other causes, as determined by the Engineer, shall be removed and replaced by the Contractor at the Contractor's expense.

#### 90-8.02 PROTECTING CONCRETE STRUCTURES

• Structure concrete and shotcrete used as structure concrete shall be maintained at a temperature of not less than 45° F for 72 hours after placing and at not less than 40° F for an additional 4 days.

#### 90-8.03 PROTECTING CONCRETE PAVEMENT

• Pavement concrete shall be maintained at a temperature of not less than 40° F for 72 hours.

• Except as provided in Section 7-1.08, "Public Convenience," the Contractor shall protect concrete pavement against construction and other activities that abrade, scar, discolor, reduce texture depth, lower coefficient of friction, or otherwise damage the surface. Stockpiling, drifting, or excessive spillage of soil, gravel, petroleum products, and concrete or asphalt mixes on the surface of concrete pavement is prohibited unless otherwise specified in these specifications, the special provisions or permitted by the Engineer.

• If ordered by the Engineer or shown on the plans or specified in the special provisions, pavement crossings shall be constructed for the convenience of public traffic. The material and work necessary for the construction of the crossings, and their subsequent removal and disposal, will be paid for at the contract unit prices for the items of work involved and if there are no contract items for the work involved, payment for pavement crossings will be made by extra work as provided in Section 4-1.03D, "Extra Work.". Where public traffic will be required to cross over the new pavement, Type III portland cement may be used in concrete, if permitted in writing by the Engineer. The pavement may be opened to traffic as soon as the concrete has developed a modulus of rupture of 550 pounds per square inch. The modulus of rupture will be determined by California Test 523.

• No traffic or Contractor's equipment, except as hereinafter provided, will be permitted on the pavement before a period of 10 days has elapsed after the concrete has been placed, nor before the concrete has developed a modulus of rupture of at least 550 pounds per square inch. Concrete that fails to attain a modulus of rupture of 550 pounds per square inch within 10 days shall not be opened to traffic until directed by the Engineer.

• Equipment for sawing weakened plane joints will be permitted on the pavement as specified in Section 40-1.08B, "Weakened Plane Joints."

County of El Dorado, DOT Appendix A-Specification Amendments Page AA-63

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• When requested in writing by the Contractor, the tracks on one side of paving equipment will be permitted on the pavement after a modulus of rupture of 350 pounds per square inch has been attained, provided that:

- A. Unit pressure exerted on the pavement by the paver shall not exceed 20 pounds per square inch;
- B. Tracks with cleats, grousers, or similar protuberances shall be modified or shall travel on planks or equivalent protective material, so that the pavement is not damaged; and
- C. No part of the track shall be closer than one foot from the edge of pavement.

• In case of visible cracking of, or other damage to the pavement, operation of the paving equipment on the pavement shall be immediately discontinued.

• Damage to the pavement resulting from early use of pavement by the Contractor's equipment as provided above shall be repaired by the Contractor.

• The State will furnish the molds and machines for testing the concrete for modulus of rupture, and the Contractor, at the Contractor's expense, shall furnish the material and whatever labor the Engineer may require.

#### 90-9 COMPRESSIVE STRENGTH

#### 90-9.01 GENERAL

• Concrete compressive strength requirements consist of a minimum strength that shall be attained before various loads or stresses are applied to the concrete and, for concrete designated by strength, a minimum strength at the age of 28 days or at the age otherwise allowed in Section 90-1.01, "Description." The various strengths required are specified in these specifications or the special provisions or are shown on the plans.

• The compressive strength of concrete will be determined from test cylinders that have been fabricated from concrete sampled in conformance with the requirements of California Test 539. Test cylinders will be molded and initially field cured in conformance with California Test 540. Test cylinders will be cured and tested after receipt at the testing laboratory in conformance with the requirements of California Test 521. A strength test shall consist of the average strength of 2 cylinders fabricated from material taken from a single load of concrete, except that, if any cylinder should show evidence of improper sampling, molding, or testing, that cylinder shall be discarded and the strength test shall consist of the strength of the remaining cylinder.

• When concrete compressive strength is specified as a prerequisite to applying loads or stresses to a concrete structure or member, test cylinders for other than steam cured concrete will be cured in conformance with Method 1 of California Test 540. The compressive strength of concrete determined for these purposes will be evaluated on the basis of individual tests.

• When concrete is designated by 28-day compressive strength rather than by cementitious material content, the concrete strength to be used as a basis for acceptance of other than steam cured concrete will be determined from cylinders cured in conformance with Method 1 of California Test 540. If the result of a single compressive strength test at the maximum age specified or allowed is below the specified strength but is 95 percent or more of the specified strength, the Contractor shall make corrective changes, subject to approval of the Engineer, in the mix proportions or in the concrete fabrication procedures, before placing additional concrete, and shall pay to the State \$10 for each in-place cubic yard of concrete represented by the deficient test. If the result of a single compressive strength test at the maximum age specified above, and shall pay to the State \$15 for each in-place cubic yard of concrete represented by the deficient test. In addition, such corrective changes shall be made when the compressive strength of concrete tested at 7 days indicates, in the judgment of the Engineer, that the concrete will not attain the required compressive strength at the maximum age specified or allowed. Concrete represented by a single test that indicates a compressive strength of less than 85 percent of the specified 28-day compressive strength will be rejected in conformance with the provisions in Section 6-1.04, "Defective Materials."

• If the test result indicates that the compressive strength at the maximum curing age specified or allowed is below the specified strength, but is 85 percent or more of the specified strength, payments to the State as required above shall be made, unless the Contractor, at the Contractor's expense, obtains and submits evidence acceptable to the Engineer that the strength of the concrete placed in the work meets or exceeds the specified 28-day compressive strength. If the test result indicates a compressive strength at the maximum curing age specified or allowed below 85 percent, the concrete represented by that test will be rejected, unless the Contractor, at the Contractor's expense, obtains and submits evidence acceptable to the Engineer that the strength and quality of the concrete placed in the work are acceptable. If the evidence consists of tests made on cores taken from the work, the cores shall be obtained and tested in conformance with the requirements in ASTM Designation: C 42.

• No single compressive strength test shall represent more than 320 cubic yards.

• If a precast concrete member is steam cured, the compressive strength of the concrete will be determined from test cylinders that have been handled and stored in conformance with Method 3 of California Test 540. The compressive strength of steam cured concrete will be evaluated on the basis of individual tests representing specific portions of production. If the concrete is designated by 28-day compressive strength rather than by cementitious material content, the concrete shall be considered to be acceptable whenever its compressive strength reaches the specified 28-day compressive strength provided that strength is reached in not more than the maximum number of days specified or allowed after the member is cast.

• When concrete is specified by compressive strength, prequalification of materials, mix proportions, mixing equipment, and procedures proposed for use will be required prior to placement of the concrete. Prequalification shall be accomplished by the submission of acceptable certified test data or trial batch reports by the Contractor. Prequalification data shall be based on the use of materials, mix proportions, mixing equipment, procedures, and size of batch proposed for use in the work.

• Certified test data, in order to be acceptable, shall indicate that not less than 90 percent of at least 20 consecutive tests exceed the specified strength at the maximum number of cure days specified or allowed, and none of those tests are less than 95 percent of specified strength. Strength tests included in the data shall be the most recent tests made on concrete of the proposed mix design and all shall have been made within one year of the proposed use of the concrete.

• Trial batch test reports, in order to be acceptable, shall indicate that the average compressive strength of 5 consecutive concrete cylinders, taken from a single batch, at not more than 28 days (or the maximum age allowed) after molding shall be at least 580 pounds per square inch greater than the specified 28-day compressive strength, and no individual cylinder shall have a strength less than the specified strength at the maximum age specified or allowed. Data contained in the report shall be from trial batches that were produced within one year of the proposed use of specified strength concrete in the project. Whenever air-entrainment is required, the air content of trial batches shall be equal to or greater than the air content specified for the concrete without reduction due to tolerances.

• Tests shall be performed in conformance with either the appropriate California Test methods or the comparable ASTM test methods. Equipment employed in testing shall be in good condition and shall be properly calibrated. If the tests are performed during the life of the contract, the Engineer shall be notified sufficiently in advance of performing the tests in order to witness the test procedures.

- The certified test data and trial batch test reports shall include the following information:
- A. Date of mixing.
- B. Mixing equipment and procedures used.
- C. The size of batch in cubic yards and the weight, type, and source of all ingredients used.
- D. Penetration or slump (if the concrete will be placed under water or placed in cast-in-place concrete piles) of the concrete.
- E. The air content of the concrete if an air-entraining admixture is used.
- F. The age at time of testing and strength of all concrete cylinders tested.
- Certified test data and trial batch test reports shall be signed by an official of the firm that performed the tests.

• When approved by the Engineer, concrete from trial batches may be used in the work at locations where concrete of a lower quality is required and the concrete will be paid for as the type or class of concrete required at that location.

• After materials, mix proportions, mixing equipment, and procedures for concrete have been prequalified for use, additional prequalification by testing of trial batches will be required prior to making changes that, in the judgment of the Engineer, could result in a strength of concrete below that specified.

• The Contractor's attention is directed to the time required to test trial batches and the Contractor shall be responsible for production of trial batches at a sufficiently early date so that the progress of the work is not delayed.

• When precast concrete members are manufactured at the plant of an established manufacturer of precast concrete members, the mix proportions of the concrete shall be determined by the Contractor, and a trial batch and prequalification of the materials, mix proportions, mixing equipment, and procedures will not be required.

#### 90-10 MINOR CONCRETE

#### 90-10.01 GENERAL

• Concrete for minor structures, slope paving, curbs, sidewalks and other concrete work, when designated as minor concrete on the plans, in the specifications, or in the contract item, shall conform to the provisions specified herein.

• The Engineer, at the Engineer's discretion, will inspect and test the facilities, materials and methods for producing the concrete to ensure that minor concrete of the quality suitable for use in the work is obtained.

#### 90-10.02 MATERIALS

Minor concrete shall conform to the following requirements:

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#### 90-10.02A CEMENTITIOUS MATERIAL

• Cementitious material shall conform to the provisions in Section 90-1.01, "Description."

#### 90-10.02B AGGREGATE

• Aggregate shall be clean and free from deleterious coatings, clay balls, roots, and other extraneous materials.

• Use of crushed concrete or reclaimed aggregate is acceptable only if the aggregate satisfies all aggregate requirements.

• The Contractor shall submit to the Engineer for approval, a grading of the combined aggregate proposed for use in the minor concrete. After acceptance of the grading, aggregate furnished for minor concrete shall conform to that grading, unless a change is authorized in writing by the Engineer.

• The Engineer may require the Contractor to furnish periodic test reports of the aggregate grading furnished. The maximum size of aggregate used shall be at the option of the Contractor, but in no case shall the maximum size be larger than  $1 \frac{1}{2}$ -inch or smaller than 3/4-inch.

• The Engineer may waive, in writing, the gradation requirements in this Section 90-10.02B, if, in the Engineer's opinion, the furnishing of the gradation is not necessary for the type or amount of concrete work to be constructed.

## 90-10.02C WATER

• Water used for washing, mixing, and curing shall be free from oil, salts, and other impurities that would discolor or etch the surface or have an adverse affect on the quality of the concrete.

#### 90-10.02D ADMIXTURES

• The use of admixtures shall conform to the provisions in Section 90-4, "Admixtures."

## 90-10.03 PRODUCTION

• Cementitious material, water, aggregate, and admixtures shall be stored, proportioned, mixed, transported, and discharged in conformance with recognized standards of good practice that will result in concrete that is thoroughly and uniformly mixed, that is suitable for the use intended, and that conforms to requirements specified herein. Recognized standards of good practice are outlined in various industry publications such as are issued by American Concrete Institute, AASHTO, or the Department.

• The cementitious material content of minor concrete shall conform to the provisions in Section 90-1.01, "Description."

• The amount of water used shall result in a consistency of concrete conforming to the provisions in Section 90-6.06, "Amount of Water and Penetration." Additional mixing water shall not be incorporated into the concrete during hauling or after arrival at the delivery point, unless authorized by the Engineer.

• Discharge of ready-mixed concrete from the transporting vehicle shall be made while the concrete is still plastic and before stiffening occurs. An elapsed time of 1.5 hours (one hour in non-agitating hauling equipment), or more than 250 revolutions of the drum or blades, after the introduction of the cementitious material to the aggregates, or a temperature of concrete of more than 90° F will be considered conditions contributing to the quick stiffening of concrete. The Contractor shall take whatever action is necessary to eliminate quick stiffening, except that the addition of water will not be permitted.

• The required mixing time in stationary mixers shall be not less than 50 seconds or more than 5 minutes.

• The minimum required revolutions at mixing speed for transit-mixed concrete shall be not less than that recommended by the mixer manufacturer, and shall be increased, if necessary, to produce thoroughly and uniformly mixed concrete.

• When a high range water-reducing admixture is added to the concrete at the job site, the total number of revolutions shall not exceed 300.

• Each load of ready-mixed concrete shall be accompanied by a weighmaster certificate that shall be delivered to the Engineer at the discharge location of the concrete, unless otherwise directed by the Engineer. The weighmaster certificate shall be clearly marked with the date and time of day when the load left the batching plant and, if hauled in truck mixers or agitators, the time the mixing cycle started.

• A Certificate of Compliance conforming to the provisions in Section 6–1.07, "Certificates of Compliance," shall be furnished to the Engineer, prior to placing minor concrete from a source not previously used on the contract, stating that minor concrete to be furnished meets contract requirements, including minimum cementitious material content specified.

## 90-10.04 CURING MINOR CONCRETE

• Curing minor concrete shall conform to the provisions in Section 90-7, "Curing Concrete."

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#### 90-10.05 PROTECTING MINOR CONCRETE

• Protecting minor concrete shall conform to the provisions in Section 90-8, "Protecting Concrete," except the concrete shall be maintained at a temperature of not less than 40° F for 72 hours after placing.

#### 90-10.06 MEASUREMENT AND PAYMENT

• Minor concrete will be measured and paid for in conformance with the provisions specified in the various sections of these specifications covering concrete construction when minor concrete is specified in the specifications, shown on the plans, or indicated by contract item in the Engineer's Estimate.

#### 90-11 MEASUREMENT AND PAYMENT

#### 90-11.01 MEASUREMENT

• Portland cement concrete will be measured in conformance with the provisions specified in the various sections of these specifications covering construction requiring concrete.

• For concrete measured at the mixer, the volume in cubic feet shall be computed as the total weight of the batch in pounds divided by the density of the concrete in pounds per cubic foot. The total weight of the batch shall be calculated as the sum of all materials, including water, entering the batch. The density of the concrete will be determined in conformance with the requirements in California Test 518.

#### 90-11.02 PAYMENT

• Portland cement concrete will be paid for in conformance with the provisions specified in the various sections of these specifications covering construction requiring concrete.

• Full compensation for furnishing and incorporating admixtures required by these specifications or the special provisions will be considered as included in the contract prices paid for the concrete involved and no additional compensation will be allowed therefor.

• Should the Engineer order the Contractor to incorporate any admixtures in the concrete when their use is not required by these specifications or the special provisions, furnishing the admixtures and adding them to the concrete will be paid for as extra work as provided in Section 4-1.03D, "Extra Work."

• Should the Contractor use admixtures in conformance with the provisions in Section 90-4.05, "Optional Use of Chemical Admixtures," or Section 90-4.07, "Optional Use of Air-entraining Admixtures," or should the Contractor request and obtain permission to use other admixtures for the Contractor's benefit, the Contractor shall furnish those admixtures and incorporate them into the concrete at the Contractor's expense and no additional compensation will be allowed therefor.

## END OF AMENDMENTS

APPENDIX B to the contract documents for Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

# FEDERAL WAGE RATES

## FEDERAL WAGE RATES

General Decision Number: CA120009 01/27/2012 CA9

Superseded General Decision Number: CA20100009

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Marin, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo and Yuba Counties in California.

BUILDING CONSTRUCTION PROJECTS (excluding Amador County only); DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/06/2012
1	01/13/2012
2	01/20/2012
3	01/27/2012

ASBE0016-001 08/01/2011

AREA 1: ALAMEDA, CONTRA COSTA, LAKE, MARIN, MENDOCINO, MONTEREY, NAPA, SAN BENITO, SAN FRANCISCO, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LASSEN, MADERA, MARIPOSA, MERCED, MODOC, MONO, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN JOAQUIN, SHASTA, SIERRA, SISKIYOU, STANISLAU, SUTTER, TEHEMA, TRINITY, TULARE, TUOLUMNE, YOLO, & YUBA COUNTIES

Rates Fringes Asbestos Workers/Insulator (Includes the application of all insulating materials, Protective Coverings, Coatings, and Finishes to all types of mechanical systems) Area 1.....\$ 53.05 17.25 Area 2.....\$ 41.40 17.25 \_\_\_\_\_

ASBE0016-007 01/01/2010

Rates Fringes

Asbestos Removal worker/hazardous material Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

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handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....\$ 15.18 2.80 \_\_\_\_\_ BOIL0549-002 01/01/2009 Rates Fringes BOILERMAKER (1) Marin & Solano Counties.\$ 40.17 22.32 (2) Remaining Counties.....\$ 37.01 22.25 \_\_\_\_\_ BRCA0003-001 06/01/2011 Rates Fringes MARBLE FINISHER.....\$ 28.02 12.22 \_\_\_\_\_ BRCA0003-004 05/01/2011 AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES AREA 2: MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY COUNTIES Rates Fringes BRICKLAYER AREA 1.....\$ 35.11 18.99 AREA 2.....\$ 39.85 22.00 SPECIALTY PAY: (A) Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid \$1.25 per hour above the regular rate. Work in direct contact with raw sewage shall receive \$1.25 per hour in addition to the above. (B) Operating a saw or grinder shall receive \$1.25 per hour above the regular rate. (C) Gunite nozzle person shall receive \$1.25 per hour above the regular rate. \_\_\_\_\_ BRCA0003-008 06/01/2011 Rates Fringes TERRAZZO FINISHER.....\$ 30.30 13.77 TERRAZZO WORKER/SETTER.....\$ 39.30 21.20 \_\_\_\_\_ BRCA0003-010 01/01/2011 Rates Fringes Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

March 13, 2012

County of El Dorado, DOT Appendix B – Federal Wage Rates Page AB-2

TILE FINISHER	
Area 1\$ 21.	21 10.01
Area 2\$ 21.	26 12.44
Area 3\$ 21.	44 12.31
Area 4\$ 20.	93 11.79
Tile Layer	
Area 1\$ 36.	
Area 2\$ 34.	
Area 3\$ 38.	
Area 4\$ 35.	45 13.68
AREA 1: Butte, Colusa, El Dorado, Gl Nevada, Placer, Plumas, Sacramento, Tehema, Yolo, Yuba AREA 2: Alpine, Amador AREA 3: Marin, Napa, Solano, Siskiyo AREA 4: Sonoma	Shasta, Sierra, Sutter, Mu
BRCA0003-014 06/01/2011	
Rate	s Fringes
MARBLE MASON\$ 39.	22 18.68
CARP0034-001 07/01/2011	
Rate	s Fringes
Diver	
Assistant Tender, ROV	
Tender/Technician\$ 36.	75 28.04
Diver standby\$ 41.	
Diver Tender\$ 40.	
Diver wet\$ 82.	
Manifold Operator (mixed	
gas)\$ 45.	
Manifold Operator (Standby).\$ 40.	43 28.04
DEPTH PAY (Surface Diving):	
050 to 100 ft \$2.00 per foot	
101 to 150 ft \$3.00 per foot	
151 to 220 ft \$4.00 per foot	
· · · · ·	
SATURATION DIVING: The standby rate shall apply until s saturation diving rate applies when pressure continuously until work tas complete. The diver rate shall be pa	divers are under k and decompression are
hours.	
DIVING IN ENCLOSURES:	
Where it is necessary for Divers to or other enclosures where there is r following premium shall be paid: Di entrance 26 feet to 300 feet: \$1.00 necessary for a diver to enter any p enclosure less than 48" in height, t \$1.00 per foot.	o vertical ascent, the stance traveled from per foot. When it is pipe, tunnel or other
WORK IN COMBINATION OF CLASSIFICATIONS	:
Employees working in any combination	
Wentworth Springs Road at Gerle Creek – Bridge Replacement Projec Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012	

11-0005.2B.181

within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift. \_\_\_\_\_ \_\_\_\_\_ CARP0034-003 07/01/2011 Rates Fringes Piledriver.....\$ 36.75 28.04 \_\_\_\_\_ CARP0035-001 08/01/2011 AREA 1: MARIN, NAPA, SOLANO & SONOMA AREA 3: SACRAMENTO AREA 4: ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO & YUBA Rates Fringes Drywall Installers/Lathers: Area 1.....\$ 37.50 25.28 Area 3.....\$ 32.12 25.28 Area 4....\$ 30.77 25.28 Drywall Stocker/Scrapper Area 1.....\$ 18.75 14.44 Area 3.....\$ 16.06 14.44 Area 4.....\$ 15.39 14.44 \_\_\_\_\_ CARP0035-009 07/01/2011 Marin County Rates Fringes CARPENTER Bridge Builder/Highway Carpenter.....\$ 37.50 24.84 Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....\$ 37.65 24.84 Journeyman Carpenter.....\$ 37.50 24.84 Millwright.....\$ 37.60 26.43 \_\_\_\_\_ CARP0035-010 07/01/2010 AREA 1: Marin, Napa, Solano & Sonoma Counties AREA 2: Alpine, San Benito and Santa Cruz AREA 3: Alpine, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, Yolo & Yuba counties Rates Fringes

Wentworth Springs Road at Gerle Creek – Bridge Replacement ProjectCounty of El Dorado, DOTContract No. PW 11-30573 / CIP No. 77118Appendix B – Federal Wage RatesMarch 13, 2012Page AB-4

Modular Furniture Installer Area 1 14.98 14.98 Installer I.....\$ 22.11 Installer II.....\$ 18.68 Lead Installer....\$ 25.56 15.48 Master Installer.....\$ 29.78 15.48 Area 2 Installer I.....\$ 19.46 14.98 Installer II.....\$ 16.51 14.98 Lead Installer....\$ 22.43 15.48 Master Installer.....\$ 26.06 15.48 Area 3 Installer I.....\$ 18.51 Installer II.....\$ 15.74 14.98 14.98 Lead Installer.....\$ 21.31 15.48 Master Installer.....\$ 24.73 15.48 \_\_\_\_\_ CARP0046-001 07/01/2011 El Dorado (West), Placer (West), Sacramento and Yolo Counties Rates Fringes Carpenters Bridge Builder/Highway Carpenter....\$ 37.50 24.84 Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....\$ 31.77 24.84 24.84 Journeyman Carpenter.....\$ 31.62 Millwright.....\$ 34.12 26.43 Footnote: Placer County (West) includes territory West of and including Highway 49 and El Dorado County (West) includes territory West of and including Highway 49 and territory inside the city limits of Placerville. \_\_\_\_\_ CARP0046-002 07/01/2011 Alpine, Colusa, El Dorado (East), Nevada, Placer (East), Sierra, Sutter and Yuba Counties Rates Fringes Carpenters Bridge Builder/Highway Carpenter.....\$ 37.50 24.84 Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....\$ 30.42 24.84 Journeyman Carpenter.....\$ 30.27 24.84 Millwright.....\$ 32.77 26.43 \_\_\_\_\_ CARP0152-003 07/01/2011

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

	Rates	Fringes
Carpenters Bridge Builder/Highway Carpenter Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &		24.84
Steel Shoring Erector, Saw Filer Journeyman Carpenter Millwright	\$ 30.42 \$ 30.27	24.84 24.84 26.43
CARP0180-001 07/01/2011		
Solano County		
	Rates	Fringes
Carpenters Bridge Builder/Highway Carpenter Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold &		24.84
Steel Shoring Erector, Saw Filer Journeyman Carpenter Millwright CARP0751-001 07/01/2011	\$ 37.65 \$ 37.50 \$ 37.60	24.84 24.84 26.43
Napa and Sonoma Counties		
	Rates	Fringes
Carpenters Bridge Builder/Highway Carpenter Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer Journeyman Carpenter Millwright	\$ 37.65 \$ 37.50	24.84 24.84 24.84 26.43
CARP1599-001 07/01/2011		
Butte, Glenn, Lassen, Modoc, Pl and Trinity Counties	umas, Shasta	, Siskiyou, Tehama
	Rates	Fringes
Carpenters Bridge Builder/Highway Carpenter Hardwood Floorlayer,	\$ 37.50	24.84
Wentworth Springs Road at Gerle Creek – Bridge Replace Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012	ment Project	County o Appendix B – Fed

Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....\$ 30.42 Journeyman Carpenter.....\$ 30.27 24.84 24.84 Millwright.....\$ 32.77 26.43 \_\_\_\_\_ ELEC0006-002 12/01/2010 MARIN, NAPA, SOLANO & SONOMA COUNTIES Rates Fringes Sound & Communications Installer.....\$ 29.87 3%+12.95 Technician.....\$ 34.01 3%+12.95 SCOPE OF WORK INCLUDES-SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above. EXCLUDES-Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems. \_\_\_\_\_ ELEC0180-001 06/01/2011 NAPA AND SOLANO COUNTIES Rates Fringes CABLE SPLICER.....\$ 48.16 3%+19.88 ELECTRICIAN.....\$ 42.81 3%+19.88 \_\_\_\_\_ ELEC0340-002 12/01/2010 ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, NEVADA, PLACER, PLUMAS, SACRAMENTO, TRINITY, YOLO, YUBA COUNTIES Rates Fringes Communications System Sound & Communications Installer.....\$ 24.13 3%+10.65 Sound & Communications Technician.....\$ 27.75 3%+10.65 SCOPE OF WORK

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS Background foreground music Intercom and telephone interconnect systems, Telephone systems, Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide.

B. FIRE ALARM SYSTEMS Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS Television monitoring and surveillance systems, Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS Perimeter security systems Vibration sensor systems Card access systems Access control systems Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC ΤO THE ABOVE LISTED SYSTEMS SCADA (Supervisory Control and Data Acquisition) PCM (Pulse Code Modulation) Inventory Control Systems Digital Data Systems Broadband and Baseband and Carriers Point of Sale SystemsVSAT Data SystemsData CommunicationSystemsRF and Remote Control SystemsFiber Optic Data Systems WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply: 1. The project involves new or major remodel building trades construction. 2. The conductors for the fire alarm system are installed in conduit. \_\_\_\_\_

ELEC0340-003 06/01/2011

ALPINE (West of Sierra Mt. Watershed), AMADOR, BUTTE, COLUSA, EL DORADO (West of Sierra Mt. Watershed), GLENN, LASSEN, NEVADA (West of Sierra Mt. Watershed), PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA (West of Sierra Mt. Watershed), SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES Wentworth Springs Road at Gerle Creek – Bridge Replacement Project **Contract No. PW 11-30573 / CIP No. 77118** Appendi March 13, 2012

	Rates	Fringes
ELECTRICIAN Remaining area Sierra Army Depot, Herlong Tunnel work	\$ 48.66	16.57 3%+13.25 3%+13.25
CABLE SPLICER: Receives 110% rate.	of the Electr	ician basic hourly
ELEC0401-005 12/01/2009		
ALPINE (east of the main watersh the main watershed divide), NEVA watershed), PLACER (east of the SIERRA (east of the main watersh	ADA (east of t main watershe	he main d divide) and
	Rates	Fringes
ELECTRICIAN	\$ 35.40	13.02+3%
ELEC0551-004 06/01/2011		
MARIN AND SONOMA COUNTIES		
	Rates	Fringes
ELECTRICIAN	\$ 46.00	14.38
ELEC0659-006 01/01/2012		
DEL NORTE, MODOC and SISKIYOU CO	DUNTIES	
	Rates	Fringes
ELECTRICIAN	\$ 30.02	14.45
ELEC0659-008 02/01/2010		
DEL NORTE, MODOC & SISKIYOU COUN	NTIES	
	Rates	Fringes
Line Construction (1) Cable Splicer (2) Lineman, Pole Sprayer,	\$ 47.34	13.74
Heavy Line Equipment Man (3) Tree Trimmer		13.54 9.94
(4) Line Equipment Man		10.85
		10.00
(5) Powdermen, Jackhammermen	A 21 00	

ALL COUNTIES EXCEPT DEL NORTE, MODOC & SISKIYOU

R	lates	Fringes	
Wentworth Springs Road at Gerle Creek - Bridge Replacement F	Project		County of El Dorado, DOT
Contract No. PW 11-30573 / CIP No. 77118		Ар	pendix B – Federal Wage Rates
March 13, 2012			Page AB-9

LINE CONSTRUCTION (1) Lineman; Cable splicer. (2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)	.\$ 38.23 .\$ 29.25	13.87 12.80 12.53
(4) Powderman HOLIDAYS: New Year's Day, M.L. Independence Day, Labor Day, V and day after Thanksgiving, Ch	King Day, Veterans Da	y, Thanksgiving Day
ELEV0008-001 01/01/2011		
	Rates	Fringes
ELEVATOR MECHANIC	.\$ 56.14	21.785
FOOTNOTE: PAID VACATION: Employer contr rate as vacation pay credit for years of service, and 6% for 6 PAID HOLIDAYS: New Years Day, Labor Day, Veterans Day, Thank Thanksgiving, and Christmas Da * ENGI0003-008 07/01/2011	r employee months to Memorial D sgiving Da	s with more than 5 5 years of service. Day, Independence Day,
* ENGLOUDS-008 07/01/2011	Patos	Fringes
Dredging: (DREDGING: CLAMSHELL & DIPPER DREDGING; HYDRAULIC SUCTION DREDGING:) AREA 1: (1) Leverman	Rates .\$ 38.94	24.43
(2) Dredge Dozer; Heavy		24.43
duty repairman (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch		24.43
Operator	.\$ 32.86	24.43
Fireman; Leveehand; Oiler. AREA 2:	.\$ 29.56	24.43
(1) Leverman	.\$ 40.94	24.43
<pre>(2) Dredge Dozer; Heavy duty repairman (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch</pre>		24.43
Operator		24.43
Fireman; Leveehand; Oiler. Wentworth Springs Road at Gerle Creek – Bridge Replacen Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012		24.43 County of E <b>Appendix B – Feder</b>

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES AREA 2: MODOC COUNTY THE REMAINGING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW: ALPINE COUNTY: Area 1: Northernmost part Area 2: Remainder CALAVERAS COUNTY: Area 1: Remainder Area 2: Eastern part COLUSA COUNTY: Area 1: Eastern part Area 2: Remainder ELDORADO COUNTY: Area 1: North Central part Area 2: Remainder FRESNO COUNTY: Area 1: Remainder Area 2: Eastern part GLENN COUNTY: Area 1: Eastern part Area 2: Remainder LASSEN COUNTY: Area 1: Western part along the Southern portion of border with Shasta County Area 2: Remainder MADERA COUNTY: Area 1: Except Eastern part Area 2: Eastern part MARIPOSA COUNTY Area 1: Except Eastern part Area 2: Eastern part MONTERREY COUNTY Area 1: Except Southwestern part Area 2: Southwestern part NEVADA COUNTY: Area 1: All but the Northern portion along the border of Sierra County Area 2: Remainder PLACER COUNTY: Area 1: Al but the Central portion Wentworth Springs Road at Gerle Creek - Bridge Replacement Project County of El Dorado, DOT Contract No. PW 11-30573 / CIP No. 77118 Appendix B – Federal Wage Rates March 13, 2012

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Area 2: Remainder PLUMAS COUNTY: Area 1: Western portion Area 2: Remainder SHASTA COUNTY: Area 1: All but the Northeastern corner Area 2: Remainder SIERRA COUNTY: Area 1: Western part Area 2: Remainder SISKIYOU COUNTY: Area 1: Central part Area 2: Remainder SONOMA COUNTY: Area 1: All but the Northwestern corner Area 2: Remainder TEHAMA COUNTY: Area 1: All but the Western border with Mendocino & Trinity Counties Area 2: Remainder TRINITY COUNTY: Area 1: East Central part and the Northeastern border with Shasta County Area 2: Remainder TUOLUMNE COUNTY: Area 1: Except Eastern part Area 2: Eastern part \_\_\_\_\_ ENGI0003-018 06/27/2011 "AREA 1" WAGE RATES ARE LISTED BELOW "AREA 2" RECEIVES AN ADDITIONAL \$2.00 PER HOUR ABOVE AREA 1 RATES. SEE AREA DEFINITIONS BELOW Rates Fringes OPERATOR: Power Equipment (AREA 1:) GROUP 1.....\$ 37.77 27.52 GROUP 2.....\$ 36.24 27.52 GROUP 3.....\$ 34.76 27.52 GROUP 4.....\$ 33.38 27.52 GROUP 5.....\$ 32.11 27.52 GROUP 6.....\$ 30.79 27.52 GROUP 7.....\$ 29.65 27.52 GROUP 8.....\$ 28.51 27.52 GROUP 8-A....\$ 28.30 27.52 Power Equipment OPERATOR: (Cranes and Attachments -Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

AREA 1:)		
GROUP 1		
Cranes\$		27.52
Oiler\$		27.52
Truck crane oiler\$	31.68	27.52
GROUP 2 Cranes\$	36 89	27.52
Oiler\$		27.52
Truck crane oiler\$		27.52
GROUP 3		
Cranes\$		27.52
Hydraulic\$		27.52
Oiler\$ Truck Crane Oiler\$		27.52 27.52
OPERATOR: Power Equipment	51.10	27.52
(Piledriving - AREA 1:)		
GROUP 1		
Lifting devices\$		27.52
Oiler\$		27.52
Truck crane oiler\$	32.01	27.52
GROUP 2 Lifting devices\$	37 17	27.52
0iler\$		27.52
Truck Crane Oiler\$		27.52
GROUP 3		
Lifting devices\$		27.52
Oiler\$		27.52
Truck Crane Oiler\$		27.52
GROUP 4\$ GROUP 5\$		27.52 27.52
GROUP 6\$		27.52
OPERATOR: Power Equipment	20100	27.02
(Steel Erection - AREA 1:)		
GROUP 1		
Cranes\$		27.52
Oiler\$ Truck Crane Oiler\$		27.52 27.52
GROUP 2	52.50	27.52
Cranes\$	37.85	27.52
0iler\$		27.52
Truck Crane Oiler\$	32.08	27.52
GROUP 3		
Cranes\$		27.52
Hydraulic\$ Oiler\$		27.52 27.52
Truck Crane Oiler\$		27.52
GROUP 4\$		27.52
GROUP 5\$	33.05	27.52
OPERATOR: Power Equipment		
(Tunnel and Underground Work		
- AREA 1:) SHAFTS, STOPES, RAISES:		
GROUP 1\$	33.87	27.52
GROUP 1-A\$		27.52
GROUP 2\$		27.52
GROUP 3\$		27.52
GROUP 4\$		27.52
GROUP 5\$	29.00	27.52
UNDERGROUND: GROUP 1\$	33 77	27.52
GROUP 1-A\$		27.52
Wentworth Springs Road at Gerle Creek – Bridge Replacement I		
Contract No. PW 11-30573 / CIP No. 77118		Ар
March 13, 2012		

GROUP	2\$	32.51	27.52
GROUP	3\$	31.18	27.52
GROUP	4\$	30.04	27.52
GROUP	5\$	28.90	27.52

FOOTNOTE: Work suspended by ropes or cables, or work on a Yo-Yo Cat: \$.60 per hour additional.

## POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull- type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber- tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed constuction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination
slusher and motor operator; Concrete conveyor or concrete
pump, truck or equipment mounted; Concrete conveyor,
building site; Concrete pump or pumpcrete gun; Drilling
Wentworth Springs Road at Gerle Creek - Bridge Replacement Project
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equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom- type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic concrete paving); Self- propelled pipeline wrapping machine; Soils & materials tester; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck- type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (selfpropelled floating); Ross Carrier (construction site); Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

### ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under; Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons;

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#### PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons; Fundex F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Selfpropelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

STEEL ERECTORS GROUP 1: Crane over 100 tons; Derrick over 100 tons; Selfpropelled boom-type lifting device over 100 tons GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder GROUP 5: Boom cat \_\_\_\_\_ TUNNEL AND UNDERGROUND WORK GROUP 1-A: Tunnel bore machine operator, 20' diameter or more GROUP 1: Heading shield operator; Heavy-duty repairperson; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator GROUP 3: Drill doctor; Mine or shaft hoist GROUP 4: Combination slurry mixer cleaner; Grouting Machine operator; Motorman GROUP 5: Bit Sharpener; Brakeman; Combination mixer and compressor (gunite); Compressor operator; Oiler; Pump operator; Slusher operator \_\_\_\_\_ AREA DESCRIPTIONS: POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS, TUNNEL AND UNDERGROUND [These areas do not apply to Piledrivers and Steel Erectors] AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES AREA 2 - MODOC COUNTY THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW: ALPINE COUNTY:

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Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Area 1: Northernmost part Area 2: Remainder CALAVERAS COUNTY: Area 1: Except Eastern part Area 2: Eastern part COLUSA COUNTY: Area 1: Eastern part Area 2: Remainder DEL NORTE COUNTY: Area 1: Extreme Southwestern corner Area 2: Remainder ELDORADO COUNTY: Area 1: North Central part Area 2: Remainder FRESNO COUNTY Area 1: Except Eastern part Area 2: Eastern part GLENN COUNTY: Area 1: Eastern part Area 2: Remainder HUMBOLDT COUNTY: Area 1: Except Eastern and Southwestern parts Area 2: Remainder LAKE COUNTY: Area 1: Southern part Area 2: Remainder LASSEN COUNTY: Area 1: Western part along the Southern portion of border with Shasta County Area 2: Remainder MADERA COUNTY Area 1: Remainder Area 2: Eastern part MARIPOSA COUNTY Area 1: Remainder Area 2: Eastern part MENDOCINO COUNTY: Area 1: Central and Southeastern parts Area 2: Remainder MONTEREY COUNTY Area 1: Remainder Area 2: Southwestern part NEVADA COUNTY: Area 1: All but the Northern portion along the border of Sierra County Area 2: Remainder Wentworth Springs Road at Gerle Creek - Bridge Replacement Project

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

PLACER COUNTY: Area 1: All but the Central portion Area 2: Remainder PLUMAS COUNTY: Area 1: Western portion Area 2: Remainder SHASTA COUNTY: Area 1: All but the Northeastern corner Area 2: Remainder SIERRA COUNTY: Area 1: Western part Area 2: Remainder SISKIYOU COUNTY: Area 1: Central part Area 2: Remainder SONOMA COUNTY: Area 1: All but the Northwestern corner Area 2: Reaminder TEHAMA COUNTY: Area 1: All but the Western border with mendocino & Trinity Counties Area 2: Remainder TRINITY COUNTY: Area 1: East Central part and the Northeaster border with Shasta County Area 2: Remainder TULARE COUNTY; Area 1: Remainder Area 2: Eastern part TUOLUMNE COUNTY: Area 1: Remainder Area 2: Eastern Part \_\_\_\_\_ ENGI0003-019 06/27/2011 SEE AREA DESCRIPTIONS BELOW Rates Fringes OPERATOR: Power Equipment (LANDSCAPE WORK ONLY) GROUP 1 AREA 1.....\$ 28.64 19.96 AREA 2.....\$ 30.64 19.96 GROUP 2 AREA 1.....\$ 25.04 19.96 AREA 2....\$ 27.04 19.96 GROUP 3 AREA 1.....\$ 20.43 19.96 AREA 2....\$ 22.43 19.96 GROUP DESCRIPTIONS:

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY: Area 1: Northernmost part Area 2: Remainder

CALAVERAS COUNTY: Area 1: Except Eastern part Area 2: Eastern part

COLUSA COUNTY: Area 1: Eastern part Area 2: Remainder

DEL NORTE COUNTY: Area 1: Extreme Southwestern corner Area 2: Remainder

ELDORADO COUNTY: Area 1: North Central part Area 2: Remainder

FRESNO COUNTY Area 1: Except Eastern part Area 2: Eastern part

GLENN COUNTY: Area 1: Eastern part Area 2: Remainder

HUMBOLDT COUNTY: Area 1: Except Eastern and Southwestern parts Area 2: Remainder Wentworth Springs Road at Gerle Creek – Bridge Replacement Project **Contract No. PW 11-30573 / CIP No. 77118** March 13, 2012

LAKE COUNTY: Area 1: Southern part Area 2: Remainder LASSEN COUNTY: Area 1: Western part along the Southern portion of border with Shasta County Area 2: Remainder MADERA COUNTY Area 1: Remainder Area 2: Eastern part MARIPOSA COUNTY Area 1: Remainder Area 2: Eastern part MENDOCINO COUNTY: Area 1: Central and Southeastern parts Area 2: Remainder MONTEREY COUNTY Area 1: Remainder Area 2: Southwestern part NEVADA COUNTY: Area 1: All but the Northern portion along the border of Sierra County Area 2: Remainder PLACER COUNTY: Area 1: All but the Central portion Area 2: Remainder PLUMAS COUNTY: Area 1: Western portion Area 2: Remainder SHASTA COUNTY: Area 1: All but the Northeastern corner Area 2: Remainder SIERRA COUNTY: Area 1: Western part Area 2: Remainder SISKIYOU COUNTY: Area 1: Central part Area 2: Remainder SONOMA COUNTY: Area 1: All but the Northwestern corner Area 2: Reaminder TEHAMA COUNTY: Area 1: All but the Western border with mendocino & Trinity Counties Area 2: Remainder TRINITY COUNTY: Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

March 13, 2012

Area 1: East Central part and the Northeaster border with Shasta County Area 2: Remainder TULARE COUNTY; Area 1: Remainder Area 2: Eastern part TUOLUMNE COUNTY: Area 1: Remainder Area 2: Eastern Part \_\_\_\_\_ IRON0002-004 07/01/2010 Rates Fringes Ironworkers: Fence Erector.....\$ 26.58 15.26 Ornamental, Reinforcing and Structural.....\$ 33.00 23.73 PREMIUM PAY: \$6.00 additional per hour at the following locations: China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB \$4.00 additional per hour at the following locations: Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center \$2.00 additional per hour at the following locations: Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock \_\_\_\_\_ LAB00067-002 04/01/2010 AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES AREA "B" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES Rates Fringes Asbestos Removal Laborer 5.88 Areas A & B.....\$ 18.68 Wentworth Springs Road at Gerle Creek – Bridge Replacement Project

Contract No. PW 11-30573 / CIP No. 77118

March 13, 2012

LABORER (Lead Removal)	
Area A\$ 36.25	5.94
Area B\$ 35.25	5.94

ASBESTOS REMOVAL-SCOPE OF WORK: Site mobilization; initial site clean-up; site preparation; removal of asbestos-containing materials from walls and ceilings; or from pipes, boilers and mechanical systems only if they are being scrapped; encapsulation, enclosure and disposal of asbestos-containing materials by hand or with equipment or machinery; scaffolding; fabrication of temporary wooden barriers; and assembly of decontamination stations.

LABO0067-003 07/01/2009

AREA A: ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO & SANTA CLARA

AREA B: ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SANCRMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO & YUBA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE		
CLOSURE )		
Escort Driver, Flag Person	L	
Area A	\$ 26.89	14.93
Area B	\$ 25.89	14.93
Traffic Control Person I		
Area A	\$ 27.19	14.93
Area B	\$ 26.19	14.93
Traffic Control Person II		
Area A	\$ 24.69	14.93
Area B	\$ 23.69	14.93

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

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LABO0067-006 06/28/2010

AREA "A" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA "B" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, EL DORADO, FRESNO, GLENN, KINGS, LASSEN, MADERA, MARIPOSA, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, SUTTER, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES

Fringes

Laborers: (CONSTRUCTION CRAFT LABORERS - AREA A:) Construction Specialist Group.....\$ 27.84 15.82 GROUP 1.....\$ 27.14 15.82 15.82 GROUP 1-a....\$ 27.36 GROUP 1-c....\$ 27.19 15.82 GROUP 1-e....\$ 27.69 15.82 GROUP 1-f....\$ 27.72 15.82 GROUP 1-g (Contra Costa County)....\$ 27.34 15.82 GROUP 2.....\$ 26.99 15.82 GROUP 3.....\$ 26.89 15.82 GROUP 4.....\$ 20.58 15.82 See groups 1-b and 1-d under laborer classifications. Laborers: (CONSTRUCTION CRAFT LABORERS - AREA B:) Construction Specialist Group.....\$ 26.84 15.82 GROUP 1.....\$ 26.14 15.82 GROUP 1-a....\$ 26.36 15.82 GROUP 1-c....\$ 26.19 15.82 GROUP 1-e....\$ 26.69 15.82 GROUP 1-f....\$ 26.72 15.82 GROUP 2....\$ 25.99 15.82 GROUP 3.....\$ 25.89 15.82 GROUP 4.....\$ 19.58 15.82 See groups 1-b and 1-d under laborer classifications. Laborers: (GUNITE - AREA A:) GROUP 1.....\$ 28.10 15.82 GROUP 2.....\$ 27.60 15.82 GROUP 3.....\$ 27.60 15.82 GROUP 4.....\$ 27.60 15.82 Laborers: (GUNITE - AREA B:) GROUP 1.....\$ 27.10 15.82 GROUP 2.....\$ 26.60 15.82 GROUP 3.....\$ 26.01 15.82 GROUP 4.....\$ 25.89 15.82 Laborers: (WRECKING - AREA A:) GROUP 1.....\$ 27.14 15.82 GROUP 2....\$ 26.99 15.82 Laborers: (WRECKING - AREA B:) GROUP 1.....\$ 26.14 15.82 GROUP 2.....\$ 25.99 15.82 Landscape Laborer (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS - AREA A:) (1) New Construction.....\$ 26.89 15.82 (2) Establishment Warranty Period.....\$ 20.58 15.82 Landscape Laborer (GARDENERS, HORTICULURAL & LANDSCAPE LABORERS - AREA B:) (1) New Construction.....\$ 25.89 15.82 (2) Establishment Warranty Period.....\$ 19.58 15.82

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging Wentworth Springs Road at Gerle Creek - Bridge Replacement Project County of El Dorado, DOT Contract No. PW 11-30573 / CIP No. 77118 Appendix B – Federal Wage Rates March 13, 2012

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scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

#### \_\_\_\_\_

#### LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder Wentworth Springs Road at Gerle Creek - Bridge Replacement Project

Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$ .25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 1-g, CONTRA COSTA COUNTY: Pipelayer (including grade checking in connection with pipelaying); Caulker; Bander; Pipewrapper; Conduit layer; Plastic pipe layer; Pressure pipe tester; No joint pipe and stripping of same, including repair of voids; Precast manhole setters, cast in place manhole form setters

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

similar; Tool room attendant (jobsite only) GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions: A: at demolition site for the salvage of the material. B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job. C: for the cleaning of salvage material at the jobsite or temporary jobsite yard. The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection". GUNITE LABORER CLASSIFICATIONS GROUP 1: Structural Nozzleman GROUP 2: Nozzleman, Gunman, Potman, Groundman GROUP 3: Reboundman GROUP 4: Gunite laborer \_\_\_\_\_ WRECKING WORK LABORER CLASSIFICATIONS GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials) GROUP 2: Semi-skilled wrecker (salvaging of other building materials) \_\_\_\_\_ LABO0067-010 07/01/2010 Rates Fringes Tunnel and Shaft Laborers: GROUP 1.....\$ 33.35 16.08 GROUP 2.....\$ 33.12 16.08 GROUP 3.....\$ 32.87 16.08 16.08 GROUP 4.....\$ 32.42 GROUP 5....\$ 31.88 16.08 Shotcrete Specialist.....\$ 33.87 16.08 TUNNEL AND SHAFT CLASSIFICATIONS GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level) GROUP 3: Bit grinder; Blaster, driller, powdermen, heading;

 Cherry pickermen – where car is lifted; Concrete finisher

 Wentworth Springs Road at Gerle Creek – Bridge Replacement Project
 County of El Dorado, DOT

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in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house GROUP 4: Vibrator operator, pavement breaker; Bull gang muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method) GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman \_\_\_\_\_ LAB00073-001 07/01/2009 Rates Fringes Plasterer tender.....\$ 28.37 14.14 \_\_\_\_\_ LABO0139-002 07/01/2009 NAPA, SOLANO AND SONOMA COUNTIES Rates Fringes LABORER (Brick) Mason Tender-Brick.....\$ 27.28 14.93 \_\_\_\_\_ LABO0185-002 07/01/2009 ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES Rates Fringes LABORER Mason Tender-Brick.....\$ 27.03 14.93 \_\_\_\_\_ LABO0291-001 07/01/2009 MARIN COUNTY Rates Fringes LABORER Mason Tender-Brick.....\$ 28.28 14.93 \_\_\_\_\_ PAIN0016-004 06/01/2011 MARIN, NAPA, SOLANO & SONOMA COUNTIES Fringes Rates Painters:....\$ 32.71 19.16 PREMIUMS: Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

ALPINE, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Hwy. 395, excluding Honey Lake); MARIN, MODOC, NAPA, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains), PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes
DRYWALL FINISHER/TAPER	\$ 36.24	18.07

PAIN0016-007 01/01/2011

ALPINE, AMADOR, BUTTE, COLUSA. EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Highway 395, excluding Honey Lake), MODOC, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains), PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

SPRAY/SANDBLAST: \$0.50 additional per hour. EXOTIC MATERIALS: \$1.00 additional per hour. HIGH TIME: Over 50 ft above ground or water level \$2.00 additional per hour. 100 to 180 ft above ground or water level \$4.00 additional per hour. Over 180 ft above ground or water level \$6.00 additional per hour.

PAIN0016-008 07/01/2011

MARIN, NAPA, SOLANO AND SONOMA COUNTIES

Rates

Fringes

SOFT FLOOR LAYER......\$ 44.87 17.11

PAIN0169-004 07/01/2011

MARIN , NAPA & SONOMA COUNTIES; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 Contract No. PW 11-30573 / CIP No. 77118 Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area)

	Rates	Fringes	
GLAZIER	\$ 41.88	18.49	
* PAIN0567-001 01/01/2011			
EL DORADO COUNTY (east of the Sie COUNTY (east of Highway 395, begi Honey Lake); NEVADA COUNTY (east Mountains); PLACER COUNTY (east of Mountains); AND SIERRA COUNTY (ea Mountains)	nning at Stacey of the Sierra N of the Sierra Ne	and including evada vada	
	Rates	Fringes	
Painters: Brush and Roller Spray Painter & Paperhanger.	•	9.06 9.06	
PREMIUMS: Special Coatings (Brush), and San Special Coatings (Spray), and Ste Special Coating Spray Steel = \$1. Swing Stage = \$2.00/hr	eplejack = \$1.0		
*A special coating is a coating or more products.	that requires	the mixing of 2	
PAIN0567-007 07/01/2011			
EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains)			
	Rates	Fringes	

SOFT FLOOR LAYER......\$ 25.69 10.65 PAIN0567-010 07/01/2010

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

Rates

Fringes

9.74 (1) Taper....\$ 26.54 (2) Steeplejack - Taper, over 40 ft with open space below.....\$ 28.04 9.79 \_\_\_\_\_ PAIN0767-004 07/01/2011 ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO (Remainder), SUTTER, TEHAMA, TRINITY, YOLO, YUBA Rates Fringes GLAZIER.....\$ 32.24 20.79 PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Employee rquired to wear a body harness shall receive \$1.50 per hour above the basic hourly rate at any elevation. \_\_\_\_\_ PAIN1176-001 07/01/2011 HIGHWAY IMPROVEMENT Rates Fringes Parking Lot Striping/Highway Marking: 11.65 GROUP 1.....\$ 31.35 11.65 GROUP 2.....\$ 26.65 GROUP 3.....\$ 26.96 11.65 CLASSIFICATIONS GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings GROUP 2: Gamecourt & Playground Installer GROUP 3: Protective Coating, Pavement Sealing \_\_\_\_\_ PAIN1237-001 07/01/2011 ALPINE; COLUSA; EL DORADO (west of the Sierra Nevada Mountains); GLENN; LASSEN (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC; NEVADA (west of the Sierra Nevada Mountains); PLACER (west of the Sierra Nevada Mountains); PLUMAS; SACRAMENTO; SHASTA; SIERRA (west of the Sierra Nevada Mountains); SISKIYOU; SUTTER; TEHAMA; TRINITY; YOLO AND YUBA COUNTIES

	Rates	Fringes	
SOFT FLOOR LAYER	\$ 28.25	16.42	
PLAS0300-003 07/01/2009			
Wentworth Springs Road at Gerle Creek – Bridge Rep Contract No. PW 11-30573 / CIP No. 77118	lacement Project		inty of El Dorado, DOT
	lacement Project		unty of El Dorado, DO – <b>Federal Wage Rat</b> e

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PLASTERER AREA 295: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sutter, Tehema, Trinity, Yolo & Yuba Counties.....\$ 32.82 15.10 AREA 355: Marin, Napa & Sonoma Counties.....\$ 32.82 15.30 \_\_\_\_\_ PLAS0300-005 06/28/2010 Rates Fringes CEMENT MASON/CONCRETE FINISHER...\$ 28.65 18.56 \_\_\_\_\_\_ PLUM0038-002 07/01/2011 MARIN AND SONOMA COUNTIES Fringes Rates PLUMBER (Plumber, Steamfitter, Refrigeration Fitter) (1) Work on wooden frame structures 5 stories or less excluding hgih-rise buildings and commercial work such as hospitals, prisons, hotels, schools, casinos, wastewater treatment plants, and resarch facilities as well as refrigeration pipefitting, service and repair work - MARKET RECOVERY RATE.....\$ 49.09 37.36 (2) All other work - NEW CONSTRUCTION RATE.....\$ 57.75 39.74 \_\_\_\_\_ PLUM0038-006 07/01/2011 MARIN & SONOMA COUNTIES Rates Fringes Landscape/Irrigation Fitter (Underground/Utility Fitter)....\$ 49.09 28.85 \_\_\_\_\_ PLUM0228-001 01/01/2012 BUTTE, COLUSA, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY & YUBA COUNTIES

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Rates Fringes

PLUMBER.....\$ 36.20 22.92

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PLUM0343-001 01/01/2012

NAPA AND SOLANO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER		

Light Comm	ercial\$	30.60	17.85
All Other	Work\$	45.80	24.65

DEFINITION OF LIGHT COMMERICIAL:

Work shall include strip shopping centers, office buildings, schools and other commercial structures which the total plumbing bid does not exceed Two Hundred and Fifty Thousand (\$250,000) and the total heating and cooling does not exceed Two Hundred Fifty Thousand (\$250,000); or Any projects bid in phases shall not qualify unless the total project is less than Two Hundred Fifty Thousand (\$250,000) for the plumbing bid; and Two Hundred Fifty Thousand (\$250,000) for the heating and cooling bid. Excluded are hospitals, jails, institutions and industrial projects, regardless size of the project

FOOTNOTES: While fitting galvanized material: \$.75 per hour additional. Work from trusses, temporary staging, unguarded structures 35' from the ground or water: \$.75 per hour additional. Work from swinging scaffolds, boatswains chairs or similar devices: \$.75 per hour additional.

PLUM0350-001 01/01/2011

March 13, 2012

EL DORADO COUNTY (Lake Tahoe area only); NEVADA COUNTY (Lake Tahoe area only); AND PLACER COUNTY (Lake Tahoe area only)

	Rates	Fringes	
PLUMBER/PIPEFITTER	\$ 34.60	10.50	
PLUM0355-001 07/01/2011			
ALPINE, AMADOR, BUTTE, COLUSA, NAPA, NEVADA, PLACER, PLUMAS, S. SISKIYOU, SOLANO, SUTTER, TEHAM COUNTIES	ACRAMENTO, SHASTA	A, SIERRA,	DOC,
	Rates	Fringes	
Underground Utility Worker /Landscape Fitter	\$ 28.20	7.65	
PLUM0442-003 01/01/2012			
AMADOR (South of San Joaquin Ri	ver) and ALPINE (	COUNTIES	
Wentworth Springs Road at Gerle Creek – Bridge Replace Contract No. PW 11-30573 / CIP No. 77118	Rates ement Project	Fringes	Cou Appendix B

PLUMBER.....\$ 35.95 23.17 PLUM0447-001 01/01/2012 AMADOR (north of San Joaquin River), EL DORADO (excluding Lake Tahoe area), NEVADA (excluding Lake Tahoe area); PLACER

(excluding Lake Tahoe area), SACRAMENTO AND YOLO COUNTIES

Rates Fringes PLUMBER/PIPEFITTER Journeyman.....\$ 40.02 20.70 Light Commercial Work.....\$ 30.48 16.82 \_\_\_\_\_ ROOF0081-006 08/01/2010 MARIN, NAPA, SOLANO AND SONOMA COUNTIES Rates Fringes Roofer....\$ 34.06 9.54 \_\_\_\_\_ ROOF0081-007 08/01/2011 ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES Rates Fringes Roofer.....\$ 31.88 10.90 SFCA0483-003 08/01/2011 MARIN, NAPA, SOLANO AND SONOMA COUNTIES Fringes Rates SPRINKLER FITTER (Fire Sprinklers).....\$ 50.59 23.70 \_\_\_\_\_ SFCA0669-003 04/01/2011 ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES Rates Fringes SPRINKLER FITTER.....\$ 32.65 17.75 \_\_\_\_\_ SHEE0104-006 07/01/2009 MARIN, NAPA, SOLANO SONOMA & TRINITY COUNTIES Rates Fringes

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Sheet Metal Worker Mechanical Contracts \$200,000 or less\$ 43.3 All other work\$ 47.7		
SHEE0104-014 07/01/2009		
MARIN, NAPA, SOLANO, SONOMA AND TRINITY	COUNTIES	
Rates	Fringes	
SHEET METAL WORKER (Metal Decking and Siding only)\$ 33.4	3 24.31	
SHEE0162-006 07/01/2011		
AMADOR, COLUSA, EL DORADO, NEVADA, PLAC YOLO AND YUBA COUNTIES	ER, SACRAMENTO, SUT	TER,
Rates	Fringes	
SHEET METAL WORKER\$ 37.5	1 24.78	
SHEE0162-007 07/01/2011		
Alpine County		
Rates	Fringes	
SHEET METAL WORKER\$ 33.7	1 22.79	
SHEE0162-008 07/01/2011		
BUTTE, COLUSA, EL DORADO, GLENN, LASSEN PLUMAS, SACRAMENTO, SHASTA, SIERRA, SIS YOLO AND YUBA COUNTIES		
Rates	Fringes	
Sheet Metal Worker (Metal decking and siding only)\$ 34.3		
SHEE0162-014 07/01/2011		
BUTTE, GLENN, LASSEN, MODOC, PLUMAS, SH AND TEHAMA COUNTIES	ASTA, SIERRA, SISKI	YOU
Rates	Fringes	
SHEET METAL WORKER Mechanical Jobs \$200,000 &	c 00.4c	
under\$ 28.8 Mechanical Jobs over		
\$200,000\$ 37.7 \$ 37.7 TEAM0094-001 07/01/2009		
Rates	Fringes	
Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012	1111905	County of El Dorado, DOT Appendix B – Federal Wage Rates Page AB-35

## Truck drivers:

GROUP	1\$	27.13	18.99
GROUP	2\$	27.43	18.99
GROUP	3\$	27.73	18.99
GROUP	4\$	28.08	18.99
GROUP	5\$	28.43	18.99

## FOOTNOTES:

Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate. Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

### TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self- propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbedk Heavy Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles \_\_\_\_\_

WELDERS - Receive rate prescribed for craft performing

operation to which welding is incidental.

\_\_\_\_\_

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

# Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

# Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the Wentworth Springs Road at Gerle Creek - Bridge Replacement Project County of El Dorado, DOT Contract No. PW 11-30573 / CIP No. 77118 Appendix B – Federal Wage Rates March 13, 2012

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survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

\_\_\_\_\_

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor Wentworth Springs Road at Gerle Creek – Bridge Replacement Project **Contract No. PW 11-30573 / CIP No. 77118** March 13, 2012

200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

\_\_\_\_\_

END OF GENERAL DECISION

# APPENDIX C to the contract documents for Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

# CALIFORNIA DFG STREAMBED ALTERATION AGREEMENT

CALIFORNIA DEPARTMENT OF FISH AND GAME NORTH CENTRAL REGION 1701 NIMBUS ROAD, SUITE A RANCHO CORDOVA, CA 95670



Streambed Alteration Agreement Notification No. 1600-2011-0085-R2

Wentworth Springs Road at Gerle Creek Bridge Project Gerle Creek El Dorado County

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and El Dorado County – Department of Transportation (Permittee) as represented by James W. Ware.

# RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on May 5, 2011 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

# **PROJECT LOCATION**

The project is located near the El Dorado National Forest along Wentworth Springs Road, in the County of El Dorado, State of California; Section 02, Township 13 North, Range 14 East, "Bunker Hill" U.S. Geological Survey 7.5-minute quadrangle; Latitude N39.0039, Longitude W-120.3836 (See Exhibit A).

# **PROJECT DESCRIPTION**

The proposed alternative is a 16-feet wide, prefabricated steel truss bridge to be located upstream of the existing low-water crossing. The bridge abutments will be located in the uplands outside the ordinary high watermark (OHWM) of Gerle Creek in order to obtain the bridge height and span length necessary to pass 100-year flows. The western abutment will be located within the 100-year floodplain. The new bridge will be 16-feet wide and approximately 125 feet long.

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Rock slope protection (RSP) may be placed around the bridge abutments to prevent scour. The RSP would extend from the bridge abutments to the toe of the Gerle Creek bank below the OHWM. Construction vehicles will access both sides of Gerle Creek using the existing western and eastern road approaches. If construction vehicles need to cross Gerle Creek, they will use the existing low-water crossing until the bridge is constructed. A temporary crossing may be installed if it is deemed necessary. Wentworth Springs Road will be minimally re-aligned to access the new bridge and will conform to the existing overall alignment.

Construction of the bridge may require water diversions on Gerle Creek. The temporary river diversion system shall be constructed, maintained, and later removed at the locations shown on the approved Storm Water Pollution Prevention Plan (SWPPP) in conformance with water pollution control practices for non-storm water management.

If dewatering is required, it is expected that it will only occur at the abutments. The majority of Gerle Creek would be left to flow in its natural alignment. The de-watered area would be blocked off using methods such as water pillows, rock, sandbags, sheet pilling, pipes or coffer dams, or other structural methods approved by the Project Engineer and DFG. Groundwater and seepage in the dewatered area will be removed in accordance with Section 401 of the Clean Water Act (CWA). Best management practices (BMPs) will be implemented during construction to prevent concrete or other materials from entering the channel.

# **PROJECT IMPACTS**

Existing fish or wildlife resources the project could substantially adversely affect include: aquatic and terrestrial riparian species known to occur within the California Wildlife Habitat Relationship (CWHR) habitats of Sierra Mixed Conifer (SMC), and Ponderosa Pine (PPN), as well as those species whose ranges overlap the project area. Specifically species that could be impacted are: northern goshawk, California spotted owl, mountain yellow-legged frogs, Sierra Nevada mountain beaver, other forest amphibians, aquatic terrestrial plant and wildlife species.

The adverse effects the project could have on the fish or wildlife resources identified above include: Loss of natural bed or bank; Change in contour of bed, channel or bank; Soil compaction or other disturbance; Change in Turbidity; Increased sedimentation from adjacent construction; Short-term release (e.g. incidental from construction); Loss or decline of riparian habitat; Decline of vegetative diversity; Loss or decline of instream channel habitat; Loss of or decline instream woody material; Direct impacts from dredging on benthic organisms; construction pits and trenches that can capture terrestrial organisms; Disruption to nesting birds and other wildlife: Disturbance from project activity; Loss or impediment of terrestrial animal species travel routes due to temporary structures such as survey tape, sandbags, erosion protection materials etc.; Change in shading or insulation leading to vegetative change; Dewatering; Flow deflection; Change in fluvial geomorphology; Impediment to migration of aquatic and terrestrial species; and Direct (seasonal) loss of resources for aquatic organisms.

## STREAM ZONE DEFINED

All components of a stream, including the channel, bed, banks, and floodplains. The Stream Zone is the land, including vegetation, that bounds a lake or the channel of a stream and that defines the lateral extent of their waters.

# MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

#### 1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 <u>Documentation at Project Site</u>. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 <u>Providing Agreement to Persons at Project Site</u>. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 <u>Notification of Conflicting Provisions</u>. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.
- 1.4 <u>Project Site Entry</u>. Permittee agrees that DFG personnel may enter the project site to verify compliance with the Agreement.
- 1.5 <u>Authorized Work.</u> The notification, together with all supporting documents submitted with the notification, is hereby incorporated into this agreement to describe the location and features of the proposed project. The Permittee agrees that all work shall be done as described in the notification and supporting documents, incorporating all project modifications, wildlife resource protection features, mitigation measures, and provisions as described in this agreement. Where apparent conflicts exist between the notification and the provisions listed in this agreement, the Permittee shall comply with the provisions listed in this agreement. The Permittee further agrees to notify DFG of any modifications made to the project plans submitted to DFG. At the discretion of DFG, this agreement will be amended to accommodate modifications to the project plans submitted to DFG and/or new project activities.
- 1.6 <u>Does Not Authorize "Take."</u> This agreement does not authorize "take" of any listed species. Take is defined as hunt, pursue, catch, capture or kill or attempt to hunt,

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pursue, catch, capture, or kill. If there is potential for take of any listed species to occur, the Operator shall consult with the Department as outlined in Fish and Game Code Section 2081 and shall obtain the required state and federal threatened and endangered species permits.

#### 2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

- 2.1 <u>Work Period.</u> Work shall be timed with the driest time within the channel. If water is present at the time of construction, water shall be diverted around the work area and work shall begin after the site is dry. The time period for completing the work within the flowing or standing water of the watercourses shall be confined to the period of June 1 to October 15. Work within the dry portion of the stream zone shall be timed with awareness of precipitation forecasts and likely increases in stream flow and river flood stages. Construction activities within the stream zone shall cease until all reasonable erosion control measures, have been implemented prior to all storm events. Construction equipment and material shall be removed from the floodplain if inundation is likely. Revegetation, restoration and erosion control work is not confined to this time period.
- 2.2 Work Period Extensions. At DFG's discretion, the work period may be extended based on the extent of the work remaining, on site conditions and reasonably anticipated future conditions. If the Permittee finds more time is needed to complete the authorized activity, the Permittee shall submit a written request for a work period time extension to DFG. The work period extension request shall provide the following information: 1) Describe the extent of work already completed; 2) Provide specific detail of the activities that remain to be completed within the stream zone; and 3) Detail the actual time required to complete each of the remaining activities within the stream zone. The work period extension request should consider the effects of increased stream conditions, rain delays, increased erosion control measures, limited access due to saturated soil conditions, and limited growth of erosion control grasses due to cool weather. Photographs of the work completed and the proposed work areas are helpful in assisting DFG in its evaluation. Time extensions are issued at the discretion of DFG. DFG will have ten calendar days to approve the proposed work period extension. DFG reserves the right to require additional measures designed to protect natural resources.
- 2.3 <u>Vegetation Removal</u>. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations as noted in the Notification. Except for the trees specifically identified for removal in the notification, no native trees with a trunk diameter at breast height (DBH) in excess of four (4) inches shall be removed or damaged without prior consultation and approval of a DFG representative. Using hand tools (clippers, chain saw, etc.), trees may be trimmed to the extent necessary to gain access to the work sites. All cleared material/vegetation shall be removed out of the riparian/stream zone.

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- 2.4 <u>Tree Removal Timing</u>: If construction or tree falling activities will occur during the breeding season (February 15 through August 31), a qualified wildlife biologist shall conduct two preconstruction surveys to ensure that no nests of migratory birds will be disturbed during construction. The first survey can occur as early as February 1, and the second should occur no more than one week prior to commencement of construction activities. The survey area shall include the construction zone, including all staging areas, and a 500 foot radius surrounding the construction zone to determine whether the activities taking place have the potential to disturb or otherwise harm any nesting raptors (birds of prey) or migratory birds.
- 2.5 <u>Bird Nests</u>. If an active nest is located within the proposed disturbance area, the wildlife biologist shall consult with DFG to establish a suitable buffer zone. If a raptor is located within 250 feet or migratory bird nest is located within the 100-feet of disturbance, and the disturbance must take place during the breeding season, a buffer zone shall be established by the biologist and confirmed by the appropriate resource agency (DFG and/or USFWS). The buffer area requirements will be 250 feet for any active raptor nest and 100 feet for any migratory bird nest or as defined by the DFG and/or USFWS. A qualified wildlife biologist shall monitor the nest to determine when the young have fledged and submit bi-weekly reports throughout the nesting season. The biological monitor shall have the authority to cease construction if there is any sign of distress to any raptor or migratory bird. Reference to this requirement and the Migratory Bird Treaty Act shall be included in the construction specifications.
- 2.6 <u>Raptor Nests.</u> If construction is to occur during the breeding season (March 1 September 1), a pre-construction raptor nest survey shall be conducted within 30 days prior to the beginning of construction activities by a qualified biologist in order to identify active nests in the project site vicinity. The results of the survey shall be submitted to CDFG. If no active nests are found during the pre-construction survey, no further mitigation is required.

If active nests are found within a quarter-mile (1320 feet), an initial temporary nest disturbance buffer shall be established. If project related activities within the temporary nest disturbance buffer are determined to be necessary during the nesting season (approximately March 1 and September 1), then an on-site biologist/monitor experienced with raptor behavior shall be retained by the project proponent to monitor the nest, and shall along with the project proponent, consult with the DFG to determine the best course of action necessary to avoid nest abandonment or take of individuals. Work may be allowed to proceed within the temporary nest disturbance buffer if raptors are not exhibiting agitated behavior such as defensive flights at intruders, getting up from a brooding position, or flying off the nest. The designated on-site biologist/monitor shall be on-site daily while construction related activities are taking place and shall have the authority to stop work if raptors are exhibiting agitated behavior.

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> In consultation with the DFG and depending on the behavior of the raptors, over time it may be determined that the on-site biologist/monitor may no longer be necessary due to the raptors' acclimation to construction related activities.

2.7 Sediment Control. Precautions to minimize turbidity/siltation shall be taken into account during project planning and implementation. This may require the placement of silt fencing, coir logs, coir rolls, straw bale dikes, or other siltation barriers so that silt and/or other deleterious materials are not allowed to pass to downstream reaches. Passage of sediment beyond the sediment barrier(s) is prohibited. If any sediment barrier fails to retain sediment, corrective measures shall be taken. The sediment barrier(s) shall be maintained in good operating condition throughout the construction period and the following rainy season. Maintenance includes, but is not limited to, removal of accumulated silt and/or replacement of damaged silt fencing, coir logs, coir rolls, and/or straw bale dikes. The Permittee is responsible for the removal of non-biodegradable silt barriers (such as plastic silt fencing) after the disturbed areas have been stabilized with erosion control vegetation (usually after the first growing season). Upon DFG determination that turbidity/siltation levels resulting from project related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation shall be halted until effective DFG approved control devices are installed or abatement procedures are initiated.

Pollution Control. Utilize Best Management Practices (BMPs) to prevent spills and 2.8 leaks into water bodies. If maintenance or refueling of vehicles or equipment must occur on-site, use a designated area and/or a secondary containment, located away from drainage courses to prevent the runoff of storm water and the runoff of spills. Ensure that all vehicles and equipment are in good working order (no leaks). Place drip pans or absorbent materials under vehicles and equipment when not in use. Ensure that all construction areas have proper spill clean up materials (absorbent pads, sealed containers, booms, etc.) to contain the movement of any spilled substances. Any other substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the waters of the state. Any of these materials, placed within or where they may enter a stream or lake by the Applicant or any party working under contract or with the permission of the Permittee, shall be removed immediately. DFG shall be notified immediately by the Permittee of any spills and shall be consulted regarding clean-up procedures.

#### 3. Mitigation Measures

To mitigate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

3.1 <u>Site Restoration</u>. All exposed/disturbed areas and access points within the stream zone left barren of vegetation as a result of the construction activities shall be restored using locally native grass seeds, locally native grass plugs and/or a mix of quick growing sterile non-native grass with locally native grass seeds. Seeded

areas shall be covered with broadcast straw and/or jut netted (monofilament erosion blankets are not authorized).

# 4. Reporting Measures

Permittee shall meet each reporting requirement described below.

- 4.1 The Permittee shall notify DFG within two working days of beginning work within the stream zone. Notification shall be submitted as instructed in Contact Information section below. Email notification is preferred.
- 4.2 Upon completion of the project activities described in this agreement, the work area within the stream zone shall be digitally photographed. Photographs shall be submitted to DFG within 30-days of completion. Photographs and project commencement notification shall be submitted as instructed in Contact Information section below. Email submittal is preferred.

# **CONTACT INFORMATION**

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other. Refer to the project's Notification Number when submitting documents to DFG.

#### To Permittee:

El Dorado County – Department of Transportation James W. Ware, Director of Transportation and Jennifer Maxwell, Senior Civil Engineer 2850 Fairlane Court Placerville, CA 95667 Jennifer.Maxwell@edcgov.us Phone: 530-621-5900

Contact Person for Permittee Jeffery Little Sycamore Environmental Consultants, Inc. 6355 Riverside Blvd, Suite C Sacramento, CA 95831 Jeffery.Little@SycamoreEnv.com Phone: 916-427-0703 Notification #1600-2011-0085-R2 Streambed Alteration Agreement Page 8 of 12

# To DFG:

Department of Fish and Game North Central Region 1701 Nimbus Road, Suite A Rancho Cordova, CA 95670 Attn: Lake and Streambed Alteration Program – Sandra Jacks Notification #1600-2011-0085-R2 Office: 916-358-2916 sjacks@dfg.ca.gov

# LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

# SUSPENSION AND REVOCATION

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

# ENFORCEMENT

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

# **OTHER LEGAL OBLIGATIONS**

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

The Permittee shall notify DFG where conflicts exist between the provisions of this agreement and those imposed by other regulatory agencies. Unless otherwise notified, the Permittee shall comply with the provision that offers the greatest protection to water quality, species of special concern and/or critical habitat.

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

#### AMENDMENT

DFG may amend the Agreement at any time during its term if DFG determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by DFG and Permittee. To request an amendment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

#### TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and

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include with the completed form payment of the minor amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

# **EXTENSIONS**

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to DFG a completed DFG "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

# **EFFECTIVE DATE**

The Agreement becomes effective on the date of DFG's signature, which shall be: 1) after Permittee's signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at <a href="http://www.dfg.ca.gov/habcon/ceqa/ceqa">http://www.dfg.ca.gov/habcon/ceqa/ceqa</a> changes.html.

# TERM

This Agreement shall expire five years from the date signed by DFG, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

#### **EXHIBITS**

The documents listed below are included as exhibits to the Agreement and incorporated herein by reference.

A. Exhibit A: Project Location Map

Notification #1600-2011-0085-R2 Streambed Alteration Agreement Page 11 of 12

# AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

# AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.

### CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

# FOR EL DORADO COUNTY – DEPARTMENT OF TRANSPORTATION

James W. Ware, P.E. Director of Transportation

FOR DEPARTMENT OF FISH AND GAME

Kent Smith **Regional Manager** 

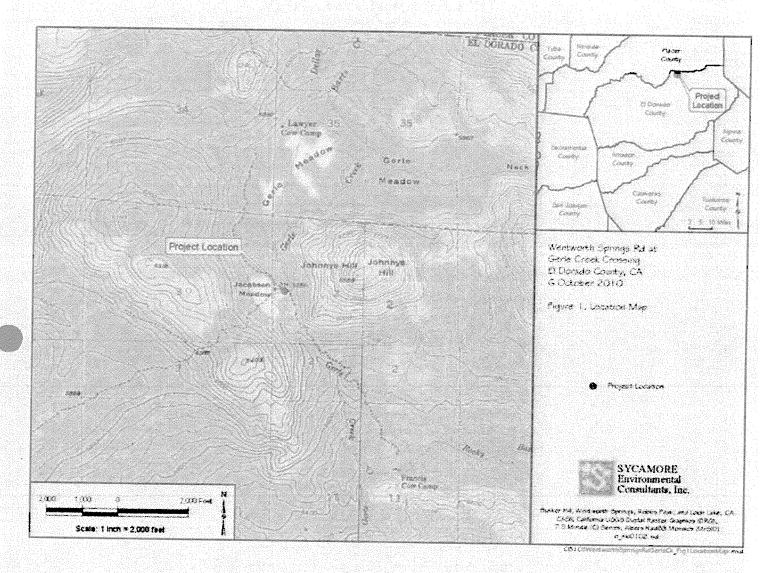
Prepared by: Sandra Jacks Environmental Scientist

11/12

Date

e e Notification #1600-2011-0085-R2 Streambed Alteration Agreement Page 12 of 12

# Exhibit A: Project Location Map



# APPENDIX D to the contract documents for Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118

Tag No.	Diameter Breast Height (inches)	Description
2456	10	Pine
2457	8	Pine
2458	7	Pine
2459	11	Pine
2460	11	Pine
2461	6	Fir
2462	10	Pine
2463	37	Pine
2464	15	Pine
2465	13	Pine
2466	19	Pine
2467	18	Pine
2468	11	Pine
2469	16	Pine
2473	12	Pine
2474	10	Pine
2475	29	Pine
2476	7	Pine
2477	8	Pine
2478	10	Pine
2479	10	Pine
2480	10	Pine
2481	12	Pine
2482	11	Pine
2483	19	Pine
2484	22	Pine
2485	31	Pine
2486	20	Pine
2487	16	Pine

# TREE REMOVAL INVENTORY

County of El Dorado, DOT Appendix D – Tree Removal Inventory Page AD-1

#### County of El Dorado, State of California Department of Transportation

#### Contract No. PW 11-30573 / CIP No. 77118

# WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT

**THIS AGREEMENT** ("Agreement") approved by the Board of Supervisors this \_\_\_\_\_st day of \_\_\_\_\_, in the year of 2011, made and concluded, in duplicate, between the COUNTY OF EL DORADO, a political subdivision of the State of California, by the Department of Transportation thereof, the party of the first part hereinafter called "County," and [contractor], party of the second part hereinafter called "Contractor."

#### **RECITALS:**

WHEREAS, County has caused the above-captioned project to be let to formal bidding process; and

WHEREAS, Contractor has duly submitted a bid response for the captioned project upon which County has awarded this contract;

**NOW, THEREFORE,** the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree, each with the other, as follows:

#### Article 1. THE WORK

The improvement contemplated in the performance of this Contract is an improvement over which the County shall exercise general supervision. The County, therefore, shall have the right to assume full and direct control over this Contract whenever the County, at its sole discretion, shall determine that its responsibility is so required.

Contractor shall complete the Work as specified or indicated under the Bid Schedule(s) of County's Contract Documents entitled:

# WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT

The project is located in El Dorado County north of Loon Lake, in the Eldorado National Forest, California. The Work to be done is shown on the Plans, described in the Special Provisions and generally consists of, but is not limited to:

Construction of a new steel truss bridge over Gerle Creek, including bridge approaches, revegetation work, and other work as specified in the Contract Plans.

#### Article 2. CONTRACT DOCUMENTS

The Contract Documents consist of: the Notice to Bidders; the bid forms which include the accepted Proposal, Bid Price Schedule and Total Bid, Subcontractors Listing, UDBE Information, Equal Employment Opportunity Certification, Section 10285.1 Statement, Section 10162 Questionnaire, Section 10232 Statement, Noncollusion Affidavit, Debarment, Suspension, Ineligibility, and Voluntary Exclusion Certification, Non-lobbying Certification for Federal-Aid Contracts, Disclosure of Lobbying Activities (Standard Form LLL), Certification of Bidder's Prefabricated Bridge Manufacturer's Qualifications, Form FHWA 1273; the Contract which includes this Agreement with all Exhibits thereto, including the Fair Employment Practices Addendum and the Nondiscrimination Assurances, the Performance Bond, and Payment Bond, the LOCAL AGENCY BIDDER – DBE INFORMATION form; the drawings listed and identified as the Project Plans; the Special Provisions which incorporate by reference the Caltrans Standard Plans, dated May 2006, and Standard Specifications, dated May 2006, Amendments to the May 2006 Standard Specifications, and standard drawings from the Design and Improvement Standards Manual of the County of El Dorado, revised March 8, 1994 including Resolution 199-91 and Resolution 58-94 to adopt changes to the Design and Improvement Standards Manual; all Addenda incorporated in those documents before their execution, and

all Contract Change Orders issued in accordance with the Contract Documents which may be delivered or issued after the Effective Date of this Agreement and are not attached hereto; the prevailing Labor Surcharge And Equipment Rental Rates (when required) as determined by the California Department of Transportation to be in effect on the date the Work is accomplished; all the obligations of County and of Contractor which are fully set forth and described therein; and all Contract Documents which are hereby specifically referred to and by such reference made a part hereof. All Contract Documents are intended to cooperate so that any work called for in one and not mentioned in the other is to be executed the same as if mentioned in all Contract Documents. Contractor agrees to perform all of its promises, covenants, and conditions set forth in the Contract Documents, and to abide by and perform all terms and conditions set forth therein. In case of conflict between this Agreement and any other contract document, this Agreement shall take precedence.

#### Article 3. COVENANTS AND CONTRACT PRICE

County hereby promises and agrees with said Contractor to employ, and does hereby employ, said Contractor to provide the material and to do the Work according to the terms and conditions of the Contract Documents herein contained and referred to, for the prices hereinafter set forth, and hereby contracts to pay the same at the time, in the manner and upon the conditions herein set forth; and the said parties for themselves, their heirs, executors, administrators, successors and assigns, do hereby agree to the full performance of the covenants herein contained. County shall pay Contractor for the completion of the Work in accordance with the Contract Documents in current funds the Contract Prices named in Contractor's Bid and Bid Price Schedule, a copy of which is attached hereto as Exhibit A.

#### Article 4. COMMENCEMENT AND COMPLETION

The Work to be performed under this Contract shall commence on the date specified in the Notice to Proceed issued by County, and the Work shall be fully completed within the time specified in the Notice to Proceed pursuant to Section 4 of the Special Provisions.

County and Contractor recognize that time is of the essence of the Agreement and that County will suffer financial loss if the Work is not completed within the time specified in Section 4 of the Special Provisions annexed hereto, plus any extensions thereof allowed in accordance with Section 4 of the Special Provisions. They also recognize the delays, expense, and difficulties involved with proving in a legal proceeding the actual loss suffered by County if the Work is not completed on time. Accordingly, instead of requiring any such proof, County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay County the sum of **One Thousand dollars** (**\$1,000.00**) **per day**, as liquidated damages and not as a penalty, for each and every calendar day's delay in finishing the Work in excess of the contract time prescribed herein.

#### Article 5. INDEMNITY

To the fullest extent allowed by law, Contractor shall defend, indemnify, and hold County and the State of California and its (their) officers, directors, and employees, any property owners from whom the County obtained easements, and any federal government agencies associated with this Contract harmless against and from any and all claims, suits, losses, damages, and liability for damages, including attorney's fees and other costs of defense brought for or on account of injuries to or death of any person, including but not limited to, workers and the public, or on account of injuries to or death of County, State, any property owners from whom the County obtained easements, or federal government agency employees, or damage to property, or any economic, consequential or special damages which are claimed or which shall in any way arise out of or be connected with Contractor's services, operations or performance hereunder, regardless of the existence or degree of fault or negligence on the part of the County, the State of California, or any federal government agencies, any property owners from whom the County has obtained easements, the Contractor, subcontractors or employees of any of these, except for the active, or sole negligence of the County, the State of California or any federal government agencies its (their) officers and employees, or any property owners from whom the County has obtained easements, or where expressly prescribed by statute.

The duty to indemnify and hold harmless the County, the State, any property owners from whom the County obtained easements, and any federal government agencies associated with this Contract specifically includes the duties to Wentworth Springs Road at Gerle Creek – Bridge Replacement Project County of El Dorado, DOT Contract No. PW 11-30573 / CIP No. 77118 Agreement March 13, 2012 Page C-2

defend set forth in Section 2778 of the Civil Code. The insurance obligations of Contractor are separate, independent obligations under the Contract Documents, and the provisions of this defense and indemnity are not intended to modify nor should they be construed as modifying or in any way limiting the insurance obligations set forth in the Contract Documents.

#### Article 6. GUARANTEES

Contractor shall repair or replace any or all work provided hereunder which is defective due to faulty materials, poor workmanship, or defective equipment at no expense to County, ordinary wear or tear and unusual abuse or neglect excepted, during the term of the Contract and for a period of one (1) year after Contract Acceptance.

Contractor shall be required to repair or replace any and all adjacent facilities or areas which have been damaged or displaced due to Contractor's work performed under this Agreement at no expense to County during the term of this Agreement and for a period of one (1) year after Contract Acceptance.

If a warranty or guarantee exceeding one (1) year is provided by the supplier or manufacturer of any equipment or materials used in this Project, or if a warranty or guarantee exceeding one (1) year is required elsewhere in these Contract Documents, then the guarantee for such equipment or materials shall be extended for such term. Contractor expressly agrees to act as co-guarantor of such equipment and materials, and Contractor shall supply County with all warranty and guaranty documents relative to equipment and materials incorporated in the job and guaranteed by its suppliers or manufacturers.

The parties agree that this guarantee and the rights and obligations accruing therefrom shall be in addition to, and not by way of limitation in any manner whatsoever to, the rights, obligations, warranties or remedies otherwise provided for by law.

In the event of Contractor's failure to comply with the above mentioned conditions within ten (10) calendar days after being notified in writing by County, Contractor hereby authorizes County to proceed to have said defects repaired and made good at Contractor's expense, and Contractor will honor and pay all costs and charges therefore upon written demand.

#### Article 7. VENUE

Any litigation arising out of this Contract shall be brought in El Dorado County and governed by California law.

#### Article 8. ASSIGNMENT OF ANTITRUST ACTIONS

In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor offers and agrees and will require all of its subcontractors and suppliers to agree to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to Contractor, without further acknowledgment by the parties.

If an awarding body or public purchasing body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under Government Code Sections 4550-4554, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery. Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under Government Code Sections 4550-4554 if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

#### Article 9. TERMINATION BY COUNTY FOR CONVENIENCE

County reserves the right to terminate the Contract at any time upon determination by County's representative that termination of the Contract is in the best interest of County. County shall issue Contractor a written notice specifying that the Contract is to be terminated.

Upon receipt of said written notice, Contractor shall stop all work under the Contract except: (1) work specifically directed to be completed prior to termination, (2) work the Inspector deems necessary to secure the project for termination, (3) removal of equipment and plant from the site of the Work, (4) action that is necessary to protect materials from damage, (5) disposal of materials not yet used in the Work as directed by County, and (6) clean up of the site.

If the Contract is terminated for County's convenience as provided herein, all finished or unfinished work and materials previously paid for shall, at the option of County, become its property. Contractor shall be paid an amount which reflects costs incurred for work provided to the date of notification of termination. In addition, Contractor shall be paid the reasonable cost, as solely judged by County, and without profit, for all work performed to secure the project for termination.

#### Article 10. TERMINATION BY COUNTY FOR CAUSE

If Contractor is adjudged as bankrupt or insolvent, or makes a general assignment for the benefit of its creditors or if a trustee or receiver is appointed for Contractor or for any of its property, or if Contractor files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or applicable laws, or on more than one occasion fails to supply sufficient skilled workmen or suitable material or equipment, or on more than one occasion fails to make prompt payments to subcontractors for labor, materials, or equipment, or disregards the authority of the County's representative, or the Engineer, if one is appointed, or violates any of the Contract assurances, nondiscrimination provisions or any other federal or state requirements as identified in Section 2-1.06 of the Special Provisions, or otherwise violates any provision of the Contract Documents, then County may, without prejudice to any other right or remedy and after giving Contractor and its Surety a minimum of ten (10) days from delivery of a written termination notice, terminate the services of Contractor and take equipment and machinery thereon owned by Contractor and finish the Work by whatever method County may deem expedient. In such case, Contractor shall not be entitled to receive any further payment until the Work is finished.

Without prejudice to other rights or remedies County may have, if Contractor fails to begin delivery of materials and equipment, to commence Work within the time specified, to maintain the rate of delivery of material, to execute the Work in the manner and at such locations as specified, or fails to maintain a work program which will ensure County's interest, or, if Contractor is not carrying out the intent of the Contract, an Inspector's written notice may be served upon Contractor and the Surety on its faithful performance bond demanding satisfactory compliance with the Contract. If Contractor or its Surety does not comply with such notice within five (5) days after receiving it, or after starting to comply, fails to continue, County may exclude it from the premises and take possession of all material and equipment, and complete the Work by County's own forces, by letting the unfinished Work to another Contractor, or by a combination of such methods.

Where Contractor's services have been so terminated by County, said termination shall not affect any right of County against Contractor then existing or which may thereafter accrue. Any retention or payment of monies by County due Contractor will not release Contractor from compliance with the Contract Documents.

If the unpaid balance of the Contract price exceeds the direct and indirect costs of completing the Work, including compensation for additional professional services, such excess shall be paid to Contractor. If the sums under the Contract are insufficient for completion, Contractor or Surety shall pay to County within five (5) days after the completion, all costs in excess of the Contract price. In any event, the cost of completing the Work shall be charged against Contractor and its Surety and may be deducted from any money due or becoming due from County.

The provisions of this Article shall be in addition to all other rights and remedies available to County under law.

If after notice of termination, it is determined for any reason that Contractor was not in default, the rights and obligations of the parties shall be the same as if the notice of termination had not been issued. The Contract shall be equitably adjusted to compensate for such termination.

#### Article 11. WORKERS' COMPENSATION CERTIFICATION

Contractor shall comply with Labor Code Sections 3700 et seq., requiring it to obtain Workers' Compensation Insurance, and sign a certificate of knowledge thereof.

#### **CERTIFICATE OF KNOWLEDGE - LABOR CODE SECTION 3700**

I am aware of the provisions of Section 3700 of the Labor Code, which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of work of this Contract.

Signed:	Date
<u> </u>	

### Article 12. WARRANTY

Contractor warrants to County that materials and equipment furnished for the Work will be of good quality and new, unless otherwise required or permitted under the Contract Documents, that the Work will be free from defects or flaws and is of the highest quality of workmanship and that the Work will conform with the requirements herein. Work not conforming to these requirements, including substitutions not properly approved and authorized, shall be considered defective.

#### Article 13. RETAINAGE

The retainage from payment is set forth in Section "PAYMENT OF WITHHELD FUNDS" of the Special Provisions. Contractor may elect to receive one hundred percent (100%) of payments due as set forth in the Contract Documents, without retention, by depositing securities of equivalent value with County, in accordance with, and as set forth in Section 22300 of the Public Contract Code. Securities eligible for deposit hereunder shall be limited to those listed in Section 16430 of the Government Code, or bank or savings and loan certificates of deposit.

#### Article 14. DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM

Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy, as County deems appropriate. Contractor shall include this assurance in every subcontract entered into as a result of this Agreement.

# Article 15. PROMPT PAYMENT OF SUBCONTRACTORS

#### Prompt Progress Payment to Subcontractors

A prime Contractor or subcontractor shall pay to any subcontractor not later than ten (10) days of receipt of each progress payment, in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The ten day period is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over thirty (30) days may take place only for good cause and with County's prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or

subcontractor to the penalties, sanctions and other remedies of that Section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor, deficient subcontractor performance, and/or noncompliance by a subcontractor.

#### Prompt Payment of Withheld Funds to Subcontractors

County shall hold retainage from the prime Contractor and shall make prompt and regular incremental acceptances of portions, as determined by the Department of the contract work and pay retainage to the prime Contractor based on these acceptances. The prime Contractor or subcontractor shall return all monies withheld in retention from the subcontractor within thirty (30) days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by County. Any delay or postponement of payment may take place only for good cause and with County's prior written approval. Any violation of these provisions shall subject the violating Contractor or subcontractor to the penalties, sanctions, and remedies specified in Section 7108.5 of the California Business and Professions Code. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by Contractor, deficient subcontract or performance, and/or noncompliance by a subcontractor.

#### Article 16. PREVAILING WAGE REQUIREMENTS

In accordance with the provisions of California Labor Code Sections 1770 et seq., including but not limited to Sections 1773, 1773.1, 1773.2, 1773.6, and 1773.7, the general prevailing rate of wages in the county in which the Work is to be done has been determined by the Director of the California Department of Industrial Relations. These wage rates appear in the California Department of Transportation publication entitled General Prevailing Wage Rates.

Interested parties can obtain the current wage information by submitting requests to the Department of Industrial Relations, Division of Labor Statistics and Research, PO Box 420603, San Francisco CA 94142-0603, Telephone (415) 703-4708 or by referring to the website at http://www.dir.ca.gov/dlsr/PWD. The rates at the time of the bid advertisement date of a project will remain in effect for the life of the project in accordance with the California Code of Regulations, as modified and effective January 27, 1997.

Copies of the general prevailing rate of wages in the County in which the Work is to be done are also on file at the Department of Transportation's principal office, and are available upon request, and in case of projects involving federal funds, federal wage requirements have been included in the Contract Documents.

In accordance with the provisions of Labor Code Section 1810, eight (8) hours of labor shall constitute a legal day's work upon all work done hereunder, and Contractor and any subcontractor employed under this Contract shall also conform to and be bound by the provisions of Labor Code Sections 1810 through 1815.

In the case of federally funded projects, where federal and state prevailing wage requirements apply, compliance with both is required. This project is funded in whole or part by federal funds. Contractor's attention is directed to Section 14 of the Special Provisions and the requirements of, and compliance with the Copeland Act (18 U.S.C. 874 and 29 CFR Part 3), the Davis-Bacon Act (40 U.S.C. 276a to 276a-7 and 29 CFR Part 5), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330 and 29 CFR Part 5).

If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, Contractor and subcontractors shall pay not less than the higher wage rate. The Department will not accept lower State wage rates not specifically included in the Federal minimum wage determinations. This includes "helper" (or other classifications based on hours of experience) or any other classification not appearing in the Federal wage determinations. Where Federal wage determinations do not contain the State wage rate determination otherwise available for use by Contractor and subcontractors, Contractor and subcontractors shall pay not less than the federal minimum wage rate which most closely approximates the duties of the employees in question.

#### Article 17. NONDISCRIMINATION

- A. In connection with its performance under this Contract, Contractor shall comply with all applicable nondiscrimination statutes and regulations during the performance of this Contract including, but not limited to the following: Contractor, its employees, subcontractors and representatives shall not unlawfully discriminate against any employee or applicant for employment because of race, color, sex, sexual orientation, religion, ancestry or national origin, physical disability, medical condition, marital status, political affiliation, family and medical care leave, pregnancy leave or disability leave. Contractor will take affirmative action to ensure that employees are treated during employment, without regard to their race, color, sex, sexual orientation, religion, ancestry or national origin, physical disability, medical condition, marital status, political affiliation, family and medical care leave, pregnancy leave or disability leave. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall post in conspicuous places, available to employees for employment, notices to be provided by State setting forth the provisions of this Fair Employment section. Contractor shall, unless exempt, comply with the applicable provisions of the Fair Employment and Housing Act (Government Code, Sections 12900 et seq.) and applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Sections 7285.0 et seq.); the applicable regulations of the Fair Employment and Housing Commission implementing Government Code, Section 12990, set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations incorporated into this Agreement by reference and made a part hereof as if set forth in full; and Title VI of the Civil Rights Act of 1964, as amended. Contractor, its employees, subcontractors and representatives shall give written notice of their obligations under this clause as required by law.
- B. Where applicable, Contractor shall include these nondiscrimination and compliance provisions in any of its subcontracts that affect or are related to the Work performed herein.
- C. The Congress of the United States, the Legislature of the State of California and the Governor of the State of California, each within their respective jurisdictions, have prescribed certain nondiscrimination requirements with respect to contract and other work financed with public funds. Contractor agrees to comply with the requirements of Exhibit B, marked "Fair Employment Practices Addendum" and the requirements of Exhibit C, marked "Nondiscrimination Assurances," including Appendices A through D to Exhibit C, both of which exhibits and all of the Appendices to Exhibit C are incorporated herein and made by reference a part hereof. Contractor further agrees that any agreement entered into by Contractor with a third party for the performance of project-related work shall incorporate Exhibits B and C and Appendices A through D to Exhibit C (with third party's name replacing Contractor) as essential parts of such agreement to be enforced by that third party as verified by Contractor.
- D. Contractor's signature executing this Contract shall provide any certifications necessary under the federal laws and the laws of the State of California, including but not limited to Government Code Section 12990 and Title 2, California Code of Regulations, Section 8103.

# Article 18. CONTRACTOR ASSURANCES

By executing this Contract, Contractor certifies that it:

- a. Will abide by all administrative, contractual or legal remedies in instances where Contractor violates or breaches contract terms, and will comply with sanctions and penalties as the Contract Administrator deems appropriate.
- b. Will comply with the termination for cause and termination for convenience provisions of the Contract including the manner by which such termination may be effected and the basis for settlement afforded by those provisions.

- c. Will comply with Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR Chapter 60).
- d. Will comply with the Copeland "Anti-Kickback" Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3).
- e. Will comply with the Davis-Bacon Act (40 U.S.C. 276a to 276a-7) as supplemented in Department of Labor regulations (29 CFR part 3).
- f. Will comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulations (29 CFR Part 5).
- g. Will comply with County, State of California and FHWA requirements and regulations pertaining to: (a) reporting; (b) patent rights with respect to any discovery or invention which arises or is developed in the course of or under this Contract; and (c) copyrights and rights in data.
- h. Will comply with all applicable standards, orders or requirements issued under Section 306 of the Clean Air Act (42 U.S.C. 1857 [h]), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR Part 15).
- i. Will comply with mandatory standards and policies relating to energy efficiency, which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. : 94-163, 89 Stat. 871).
- j. Will comply with: (i) Section 504 of the Rehabilitation Act of 1973 (Rehabilitation Act) which prohibits discrimination on the basis of disability in federally assisted programs; (ii) the Americans with Disabilities Act (ADA) of 1990 which prohibits discrimination on the basis of disability irrespective of funding; and (iii) all applicable regulations and guidelines issued pursuant to both the Rehabilitation Act and the ADA.

Any subcontract entered into as a result of this Contract shall contain all of the provisions of this Article.

#### Article 19. BUSINESS LICENSE

The County Business License Ordinance provides that it is unlawful for any person to furnish supplies or services, or transact any kind of business in the unincorporated territory of El Dorado County without possessing a County business license unless exempt under County Ordinance Code Section 5.08.070. Contractor warrants and represents that it shall comply with all of the requirements of the County Business License Ordinance, where applicable, prior to beginning work under this Contract and at all times during the term of this Contract.

#### Article 20. CONTRACT ADMINISTRATOR

The County Officer or employee with responsibility for administering this Agreement is John Kahling, Deputy Director Engineering, Construction Division, Department of Transportation, or successor.

# Article 21. AUTHORIZED SIGNATURES

The parties hereto represent that the undersigned individuals executing this Agreement on behalf of their respective parties are fully authorized to do so by law or other appropriate instrument and to bind upon said parties the obligations set forth herein.

**IN WITNESS WHEREOF**, the said Department of Transportation of the County of El Dorado, State of California, has caused this Agreement to be executed by County's Board of Supervisors, on its behalf, and the said Contractor has signed this Agreement the day and year written below.

Dated	_	
		Board of Supervisors
		Attest:
		Suzanne Allen de Sanchez
		Clerk of the Board of Supervisors
		1
Dated	_	
		Deputy Clerk
	CONTRACTOR	
Detal		
Dated	_	
D		
By President	License No.	Federal Employer Identification Number
President	License No.	Federal Employer Identification Number
By		
By Corporate Secretary	-	
NOTE: If Contractor is a corporation, the	legal name of the corporation	on shall be set forth above together with the
signature of the officer or officers authorized		
		with the signature of the partner or partners
		tractor is an individual, his/her signature shall
		propration or partnership shall be prepared to
		authorized to act in these regards. For such
		satisfaction of County. If signature is by an
		, an appropriate Power of Attorney shall be on
file with the Department prior to signing the		
Mailing Address:		
Business Address:		
City, Zip:		
	_	
Phone:	Fax: _	
	END OF AGREEMEN	Т
Wentworth Springs Road at Gerle Creek – Bridge Re	Project	County of El Dorado, DO

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

#### EXHIBIT A

#### **CONTRACTOR'S BID AND BID PRICE SCHEDULE** WENTWORTH SPRINGS ROAD AT GERLE CREEK **BRIDGE REPLACEMENT PROJECT**

#### CONTRACT NO. PW 11-30573 / CIP NO. 77118

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price (In Figures)	Item Total (In Figures)
1	071301	Temporary Fence (Type ESA)	LF	540		
2	074016	Construction Site Management	LS	1		
3	074019	Prepare Water Pollution Control Program	LS	1		
4		Water Pollution Control	LS	1		
5	074021	Prepare Fugitive Dust Plan	LS	1		
6	160101	Clearing and Grubbing	LS	1		
7	170101	Develop Water Supply	LS	1		
8	190104A	Trench and Excavation Safety	LS	1		
9		Earthwork (F)	CY	618		
10		Bridge Approach Road Base	CY	130		
11		Revegetation	SY	671		
12		Furnish & Install Pre-Fabricated Bridge	LS	1		
13		Geotextile Fabric	SY	226		
14		Geosynthetic Reinforcement (Structural Geogrid)	SY	500		
15		Geosynthetic Foundation Granular Fill	CY	170		
16	510053	Structural Concrete (Bridge) (F)	CY	45		
17	510053	Structural Concrete (Bridge Footing) (F)	CY	42		
18	520102	Bar Reinforcing Steel (F)	LB	6481		
19	721009	Rock Slope Protection	CY	165		
20	729010	Rock Slope Protection Fabric	SY	300		
21	820134	Object Marker (Type P)	EA	4		
22	999990	Mobilization	LS	1		
		(F) Denotes Final Pay Item				

Wentworth Springs Road at Gerle Creek - Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

#### EXHIBIT B

#### FAIR EMPLOYMENT PRACTICES ADDENDUM

1. In the performance of this Agreement, Contractor will not discriminate against any employee for employment because of race, color, sex, sexual orientation, religion, ancestry or national origin, physical disability, medical condition, marital status, political affiliation, family and medical care leave, pregnancy leave or disability leave. Contractor will take affirmative action to ensure that employees are treated during employment, without regard to their race, color, sex, sexual orientation, religion, ancestry or national origin, physical disability, medical condition, marital status, political affiliation, family and medical care leave, pregnancy leave or disability leave. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall post in conspicuous places, available to employees for employment, notices to be provided by State setting forth the provisions of this Fair Employment section.

2. Contractor and all subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 1290-0 et seq.), and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285.0 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code, Section 12900(a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Each of Contractor's contractors and all subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreements, as appropriate.

3. Contractor shall include the nondiscrimination and compliance provisions of this clause in all contracts and subcontracts to perform work under this Agreement.

4. Contractor will permit access to the records of employment, employment advertisements, application forms and other pertinent data and records by County, State, the State Fair Employment and Housing Commission or any other agency of the State of California designated by State, for the purposes of investigation to ascertain compliance with the Fair Employment section of this Agreement.

5. Remedies for Willful Violation:

- (a) County may determine a willful violation of the Fair Employment provision to have occurred upon receipt of a final judgment to that effect from a court in an action to which Contractor was a party, or upon receipt of a written notice from the Fair Employment and Housing Commission that it has investigated and determined that Contractor has violated the Fair Employment Practices Act and had issued an order under Labor Code Section 1426 which has become final or has obtained an injunction under Labor Code Section 1429.
- (b) For willful violation of this Fair Employment provision, County shall have the right to terminate this Agreement either in whole or in part, and any loss or damage sustained by County in securing the goods or services thereunder shall be borne and paid for by Contractor and by the surety under the performance bond, if any, and County may deduct from any moneys due or thereafter may become due to Contractor, the difference between the price named in the Agreement and the actual cost thereof to County to cure Contractor's breach of this Agreement.

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

#### EXHIBIT C

#### NONDISCRIMINATION ASSURANCES

Contractor hereby agrees that, as a condition to receiving any federal financial assistance from County or the State, acting for the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-42 U.S.C. 2000d-4 (hereinafter referred to as the Act), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, "Nondiscrimination in Federally-Assisted Programs of the Department of Transportation - Effectuation of Title VI of the Civil Rights Act of 1964" (hereinafter referred to as the Regulations), the Federal-aid Highway Act of 1973, and other pertinent directives, to the end that in accordance with the Act, Regulations, and other pertinent directives, no person in the United States shall, on the grounds of race, color, sex, national origin, religion, age or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which County receives federal financial assistance from the Federal Department of Transportation. Contractor hereby gives assurance that Contractor will promptly take any measures necessary to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

More specifically, and without limiting the above general assurance, Contractor hereby gives the following specific assurances with respect to its Federal-aid Program:

1. That Contractor agrees that each "program" and each "facility" as defined in subsections 21.23 (e) and 21.23 (b) of the Regulations, will be (with regard to a "program") conducted, or will be (with regard to a "facility") operated in compliance with all requirements imposed by, or pursuant to, the Regulations.

2. That Contractor shall insert the following notification in all solicitations for bids for work or material subject to the Regulations made in connection with the Federal-aid Program and, in adapted form, in all proposals for negotiated agreements:

Contractor hereby notifies all bidders that it will affirmatively insure that in any agreement entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, national origin, religion, age, or disability in consideration for an award.

3. That Contractor shall insert the clauses of Appendix A of this assurance in every agreement subject to the Act and the Regulations.

4. That the clauses of Appendix B of this Assurance shall be included as a covenant running with the land, in any deed effecting a transfer of real property, structures, or improvements thereon, or interest therein.

5. That where Contractor receives federal financial assistance to construct a facility, or part of a facility, the Assurance shall extend to the entire facility and facilities operated in connection therewith.

6. That where Contractor receives federal financial assistance in the form, or for the acquisition, of real property or an interest in real property, the Assurance shall extend to rights to space on, over, or under such property.

7. That Contractor shall include the appropriate clauses set forth in Appendix C and D of this Assurance, as a covenant running with the land, in any future deeds, leases, permits, licenses, and similar agreements entered into by Contractor with other parties:

Appendix C;

(a) For the subsequent transfer of real property acquired or improved under the Federal-aid Program; and Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 Contract No. PW 11-30573 / CIP No. 77118 Appendix D;

(b) For the construction or use of or access to space on, over, or under real property acquired, or improved under the Federal-aid Program.

8. That this assurance obligates Contractor for the period during which federal financial assistance is extended to the program, except where the federal financial assistance is to provide, or is in the form of, personal property or real property of interest therein, or structures, or improvements thereon, in which case the assurance obligates Contractor or any transferee for the longer of the following periods:

(a) The period during which the property is used for a purpose for which the federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or

(b) The period during which Contractor retains ownership or possession of the property.

9. That Contractor shall provide for such methods of administration for the program as are found by the U.S. Secretary of Transportation, or the official to whom he delegates specific authority, to give reasonable guarantee that Contractor, other recipients, sub-grantees, applicants, sub-applicants, transferees, successors in interest, and other participants of federal financial assistance under such program will comply with all requirements imposed by, or pursuant to, the Act, the Regulations, this Assurance and the Agreement.

10. That Contractor agrees that County, the United States and the State of California have a right to seek judicial enforcement with regard to any matter arising under the Act, the Regulations, and this Assurance.

11. Contractor shall not discriminate on the basis of race, religion, age, disability, color, national origin or sex in the award and performance of any State assisted contract or in the administration of County's DBE Program or the requirements of 49 CFR Part 26. Contractor shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure non discrimination in the award and administration of State assisted contracts. County's DBE Race-Neutral Implementation Agreement is incorporated by reference in this Agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this Agreement. Upon notification to the recipient of its failure to carry out its approved DBE Race-Neutral Implementation Agreement, State may impose sanctions as provided for under 49 CFR Part 26 and may, in appropriate cases, refer the matter for enforcement under 18 USC 1001 and/or the Program Fraud Civil Remedies Act of 1985 (31 USC 3801 et. seq.).

These Assurances are given in consideration of and for the purpose of obtaining any and all federal grants, loans, agreements, property, discounts or other federal financial assistance extended after the date hereof to County by State, acting for the U.S. Department of Transportation, and is binding on Contractor, other recipients, subgrantees, applicants, sub-applicants, transferees, successors in interest and other participants in the Federal-aid Highway Program.



Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

#### APPENDIX A to EXHIBIT C

During the performance of this Agreement, Contractor, for itself, its assignees and successors in interest (hereinafter collectively referred to as "Contractor") agrees as follows:

(1) Compliance with Regulations: Contractor shall comply with the regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this Agreement.

(2) Nondiscrimination: Contractor, with regard to the work performed by it during the Agreement, shall not discriminate on the grounds of race, color, sex, national origin, religion, age, or disability in the selection and retention of sub-applicants, including procurements of materials and leases of equipment. Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the Agreement covers a program set forth in Appendix b of the Regulations.

(3) Solicitations for Sub-agreements, Including procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by Contractor for work performed under s Sub-agreement, including procurements of materials or leases of equipment, each potential sub-applicant or supplier shall be notified by Contractor of the Contractor's obligations under this Agreement and the Regulations relative to nondiscrimination on the grounds of race, color or national origin.

(4) Information and Reports: Contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to Contractor's books, records, accounts, other sources of information, and its facilities as may be determined by County, State or FHWA to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of Contractor is in the exclusive possession of another who fails or refuses to furnish this information, Contractor shall so certify to County, State or the FHWA as appropriate, and shall set forth what efforts Contractor ahs made to obtain the information.

(5) Sanctions for Noncompliance: In the event of Contractor's noncompliance with the nondiscrimination provisions of this Agreement, County shall impose such agreement sanctions as it, the State or the FHWA may determine to be appropriate, including, but not limited to:

- (a) withholding of payments to Contractor under the Agreement within a reasonable period of time, not to exceed 90 days; and/or
- (b) cancellation, termination or suspension of the Agreement, in whole or in part.

(6) Incorporation of Provisions: Contractor shall include the provisions of paragraphs (1) through (6) in every subagreement, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

Contractor shall take such action with respect to and sub-agreement or procurement as County, State or FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance, provided, however, that, in the event Contractor becomes involved in, or is threatened with, litigation with a sub-applicant or supplier as a result of such direction, Contractor may request County or State enter into such litigation to protect the interests of County or State, and, in addition, Contractor may request the United States to enter into such litigation to protect the interests of the United States.

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012

APPENDIX B to EXHIBIT C

(NOT USED)

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT Agreement Page C-15

APPENDIX C to EXHIBIT C (NOT USED)

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT Agreement Page C-16

APPENDIX D to EXHIBIT C

(NOT USED)

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT Agreement Page C-17

#### **COUNTY OF EL DORADO**

#### **PAYMENT BOND**

(Section 3247, Civil Code)

Bond No.

WHEREAS, the County of El Dorado, a political subdivision of the State of California, hereafter referred to as "Obligee", has awarded to Contractor

hereafter referred to as "Principal", a contract for the work described as follows:

# WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT CONTRACT No. PW 11-30573 / CIP No. 77118

AND, WHEREAS, said Principal is required to furnish a bond in connection with said contract, guaranteeing the faithful performance thereof:

NOW, THEREFORE, we the undersigned Principal and Surety are held and firmly bound unto the Obligee, in the sum of

Dollars,

\_\_\_\_\_) to be paid to the Obligee, for which payment we bind ourselves, jointly and severally.

#### THE CONDITION OF THIS OBLIGATION IS SUCH,

That if said Principal or its subcontractors shall fail to pay any of the persons named in Civil Code Section 3181, or amounts due under the Unemployment Insurance Code with respect to work or labor performed by such claimant, or any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the Principal and his subcontractors pursuant to Section 18806 of the Revenue and Taxation Code, with respect to such work and labor, that the Surety herein will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the Surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Dated: \_\_\_\_\_

Correspondence or Claims relating to this bond should be sent to the Surety at the following address:

PRINCIPAL

SURETY

ATTORNEY-IN-FACT

NOTE: Signatures of those executing for the Principal and for the Surety must be properly acknowledged, and a Power of Attorney attached for the Surety.

#### NOTARY ACKNOWLEDGMENTS ATTACHED

# PRINCIPAL

	ACKNOWLEDGMENT
State of Califo	rnia
County of	
On	before me,,
	(here insert name and title of the officer)
personally app	peared
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# SURETY

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Onbefore me,, (here insert name and title of the officer) personally appeared, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed is instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Signature	State of Californi	a	
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#### **COUNTY OF EL DORADO**

#### PERFORMANCE BOND

	Bond No
KNOW ALL MEN BY THESE PRESENTS, that we	
the Contractor in the Contract hereto annexed, as Principal, and	
as Surety, are held firmly bound unto the County of El Dorado, a political subdivision of the State of California,	hereinafter called the "Obligee" in the
sum of	DOLLARS,

\_\_) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, jointly and

severally, firmly by these presents.

(\$

Signed, sealed and dated:

The condition of the above obligation is such that if said Principal as Contractor in the Contract hereto annexed shall faithfully perform each and all of the conditions of said Contract to be performed by him, and shall furnish all tools, equipment, apparatus, facilities, transportation, labor and material, other than material, if any, agreed to be furnished by the Obligee, necessary to perform and complete, and to perform and complete in a good and workmanlike manner, the work of Contract No. PW 11-30573 / CIP No. 77118 for the Wentworth Springs Road at Gerle Creek Bridge Replacement Project in strict conformity with the terms and conditions set forth in the Contract hereto annexed, then this obligation shall be null and void; otherwise this bond shall remain in full force and effect and the said Surety will complete the Contract work under its own supervision, by Contract or otherwise, and pay all costs thereof for the balance due under terms of the Contract, and the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

This guarantee shall insure the Obligee during the work required by any Contract and for a period of one (1) year from the date of acceptance of the work against faulty or improper materials or workmanship that may be discovered during that time.

No right of action shall accrue under this bond to or for the use of any person other than the Obligee named herein.

\_\_\_\_\_, 20\_\_\_ Dated:

Correspondence or Claims relating to this bond should be sent to the Surety at the following address:

PRINCIPAL

SURETY

ATTORNEY-IN-FACT

NOTE: Signatures of those executing for the Principal and the Surety must be properly acknowledged, and a Power of Attorney attached for the Surety.

#### NOTARY ACKNOWLEDGMENTS ATTACHED

# PRINCIPAL

State of Califorr	nio.	
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		(here insert name and title of the officer)
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# SURETY

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State of California		
County of		_
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(Because some colored inks will not reproduce in copy machines, please use black ink to complete this Proposal)

COMPLETING BID IN PENCIL, ERASURES, OVERWRITES, AND USE OF CORRECTION FLUID OR TAPE ARE NOT ACCEPTABLE. BID PROPOSALS WITH PENCIL, ERASURES, OVERWRITES, OR USE OF CORRECTION FLUID OR TAPE WILL BE REJECTED. ALL CHANGES MUST BE LINED OUT AND CORRECTIONS INSERTED ADJACENT TO AND INITIALED BY THE BIDDER'S AUTHORIZED REPRESENTATIVE.

## PROPOSAL

#### (to be attached to and submitted with this bound Contract Document bid package)

## TO: THE DEPARTMENT OF TRANSPORTATION, COUNTY OF EL DORADO, STATE OF CALIFORNIA

for the construction of the

# WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT CONTRACT No. PW 11-30573 / CIP No. 77118

NAME OF BIDDER			
BUSINESS P.O. BOX			
CITY, STATE, ZIP			
BUSINESS STREET A	ADDRESS		(Please include even if P.O. Box used)
CITY, STATE, ZIP _			
TELEPHONE NO:	AREA CODE (	)	
FAX NO:	AREA CODE (	)	

The work for which this Proposal is submitted is for the construction in accordance with these Contract Documents (including the payment of not less than the State general prevailing wage rates or Federal minimum wage rates set forth herein), the Project Plans described below, including any addenda thereto, the Contract annexed hereto, and also in accordance with the California Department of Transportation Standard Plans, dated May 2006, the Standard Specifications, dated May 2006, Amendments to the May 2006 Standard Specifications, standard drawings from the Design and Improvement Standards Manual of the County of El Dorado, revised March 8, 1994 including Resolutions 199-91 and 58-94 to adopt changes to the Design and Improvement Standards Manual; the Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished, and in accordance with the General Prevailing Wage rates. The Project Plans and Contract Documents for the work to be done are entitled:

# WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT CONTRACT No. PW 11-30573 / CIP No. 77118

Bids are to be submitted for the entire work. The amount of the bid for comparison purposes will be the total of all the items.

The Bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Item Total" column shall be the product of the unit price bid and the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for a unit basis item, the unit price shall prevail, except as provided in (a) or (b), as follows:

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the amount as the entry in the item total column, then the amount set forth in the total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc., from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage wise the unit price or item total in the Department's Final Estimate of cost.

If this Proposal is accepted and the undersigned Bidder shall fail to enter into the Contract and furnish the two bonds in the sums required by the State Contract Act, with surety satisfaction to the County of El Dorado and submit escrow bid documents in accordance with the Special Provisions within ten (10) days, not including Saturdays, Sundays, and legal holidays, of the date of the letter notice from the County of El Dorado that the Contract has been awarded, the County of El Dorado may, at its option, determine that the Bidder has abandoned the Contract, and thereupon this Proposal and the acceptance thereof shall be null and void and the forfeiture of such security accompanying this Proposal shall operate and the same shall be the property of the County of El Dorado.

The undersigned, as Bidder, declares under penalty of perjury under the laws of the State of California that the only persons or parties interested in this Proposal, as principals, are those named herein; that this Proposal is made without collusion with any other person, firm, or corporation; that it has carefully examined the location of the proposed work, the annexed proposed form of Contract, and the Plans therein referred to; and that it proposes, and agrees if this Proposal is accepted, that it will contract with the County of El Dorado, in the form of the copy of the Draft Contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that it will take in full payment therefore the following item prices, to wit:

County of El Dorado, DOT Proposal Page P- 2

11-0005.2B.256

#### PROPOSAL PAY ITEMS AND BID PRICE SCHEDULE WENTWORTH SPRINGS ROAD AT GERLE CREEK BRIDGE REPLACEMENT PROJECT CONTRACT NO. PW 11-30573 / CIP NO. 77118

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price (In Figures)	Item Total (In Figures)
1	071301	Temporary Fence (Type ESA)	LF	540		
2	074016	Construction Site Management	LS	1		
3	074019	Prepare Water Pollution Control Program	LS	1		
4		Water Pollution Control	LS	1		
5	074021	Prepare Fugitive Dust Plan	LS	1		
6	160101	Clearing and Grubbing	LS	1		
7	170101	Develop Water Supply	LS	1		
8	190104A	Trench and Excavation Safety	LS	1		
9		Earthwork (F)	CY	618		
10		Bridge Approach Road Base	CY	130		
11		Revegetation	SY	671		
12		Furnish & Install Pre-Fabricated Bridge	LS	1		
13		Geotextile Fabric	SY	226		
14		Geosynthetic Reinforcement (Structural Geogrid)	SY	500		
15		Geosynthetic Foundation Granular Fill	CY	170		
16	510053	Structural Concrete (Bridge) (F)	CY	45		
17	510053	Structural Concrete (Bridge Footing) (F)	CY	42		
18	520102	Bar Reinforcing Steel (F)	LB	6481		
19	721009	Rock Slope Protection	CY	165		
20	729010	Rock Slope Protection Fabric	SY	300		
21	820134	Object Marker (Type P)	EA	4		
22	999990	Mobilization	LS	1		
		(F) Denotes Final Pay Item				

TOTAL BID

(NOTICE: Bidders failure to execute the questionnaires and statements contained in this proposal as required by applicable laws and regulations, or the determinations by El Dorado County based upon those questionnaires and statements, may prohibit award of the subject Contract to the bidder.)

\$

SUBCONTRACTORS LISTING

The Bidder shall list the name, address, and license number, of each subcontractor to whom the Bidder proposes to subcontract portions of the work, as required by the provisions in "Required Listing of Proposed Subcontractors" of the Special Provisions. The Bidder shall also list the work portion to be performed by each subcontractor by listing the bid item number, bid item description, and portion of the work to be performed by the subcontractor in the form of a percentage

	Percentage of Each Bid Item Subcontracted					
em amounu(s) (not by the total bid price).	Bid Item Number and Bid Item Description					
the respective bid it	License No.					
calculated by dividing the work to be performed by the subcontractor by the respective bid item amount(s) (not by the total bid price).	Location of Business					
calculated by dividing the wor	Name					

### (THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

## EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

	<u>Has</u>	<u>Has Not</u>
The Bidder	 	
Proposed Subcontractor(s)	 	

hereby certifies the above information regarding participation in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, 11246, and 11375, and as supplemented by 41 CFR 60, and that, where required he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

**NOTE:** The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b)(1)), and must be submitted by Bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

County of El Dorado, DOT Proposal Page P- 5

11-0005.2B.259

# Public Contract Code Section 10285.1 Statement

In conformance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the Bidder hereby declares under penalty of perjury under the laws of the State of California that the Bidder has \_\_\_\_\_\_, has not \_\_\_\_\_\_been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or Federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "Bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

**Note:** The Bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

# Public Contract Code Section 10162 Questionnaire

In conformance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has a proprietary interest in the Bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes <u>No</u>

If the answer is yes, explain the circumstances in the following space.

# Public Contract Code Section 10232 Statement

In conformance with Public Contract Code Section 10232, the Bidder, hereby states under penalty of perjury under the laws of the State of California, that no more than one final unappealable finding of contempt of court by a Federal Court has been issued against the Bidder within the immediately preceding two year period because of the Bidder's failure to comply with an order of a Federal Court which orders the Bidder to comply with an order of the National Labor Relations Board.

**Note:** The above Statement and Questionnaire are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

# NONCOLLUSION AFFIDAVIT

(Title 23 United States Code Section 112 and Public Contract Code Section 7106)

In conformance with Title 23 United States Code Section 112 and Public Contract Code 7106 the Bidder declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the Contract of anyone interested in the proposed Contract; that all statements contained in the bid are true; and, further, that the Bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

#### NOTE:

The above Noncollusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Noncollusion Affidavit.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

## DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION CERTIFICATION, UNITED STATES DEPARTMENT OF TRANSPORTATION(USDOT) 2 CODE OF FEDERAL REGULATIONS (CFR) 1200 FEDERAL AGENCY REGULATIONS FOR GRANTS AND AGREEMENTS AND EXECUTIVE ORDER 12549

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any other person associated therewith in the capacity of owner, partner, director, officer, or manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will not necessarily result in denial of award, but will be considered in determining Bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Bidder further agrees by submitting this Proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where any lower tier participant is unable to certify to this statement, it shall attach an explanation to its proposal to the prime contractor.

Notes: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

# NON-LOBBYING CERTIFICATION FOR FEDERAL-AID CONTRACTS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No federal or state appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal or state agency, a member of the State Legislature or United States Congress, an officer or employee of the Legislature or Congress, or an employee of a Member of the Legislature or Congress in connection with the awarding of any state or federal contract, including this Contract, the making of any federal grant, the making of any state or federal loan, the entering into of any cooperative contract, and the extension, continuation, renewal, amendment, or modification of any state or federal contract.
- (2) If any funds other than federal appropriated funds have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any federal agency, a member of Congress, an officer or employee of Congress or an employee of a member of Congress in connection with this Contract, grant, local, or cooperative contract, the Bidder shall complete and submit Standard Form-LLL, " Disclosure of Lobbying Activities," in accordance with the form instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Bidder also agrees by submitting its bid or Proposal that it shall require that the language of this certification be included in all of its subcontracts which exceed \$100,000 and that all such subcontractors shall certify and disclose accordingly. If the Bidder is awarded this Contract, it shall ensure that all subcontractors submit certifications regarding federal lobbying activities as required by Section 1352, Title 31, United States Code and that all such certifications are made a part of any subcontracts entered into as a result of this Contract.

	rm to disclose lobbying	activities pursuant to 31	10.5.0.1352
1. Type of Federal Action: a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. Status of Federa a. bid/offer/appl b. initial award c. post-award		3. Report Type: a. initial b. material change For Material Change Only: year quarter date of last report
4. Name and Adress of Reporting Entity:	if known	5. If Reporting Ent Name and Add	tity in No. 4 is Subawardee. Enter Iress of Prime:
Congressional District, if known:		Congressional Di	istrict, <i>if known:</i>
6. Federal Department/Agency:			n Name/Description:
8. Federal Action Number, <i>if known:</i>		9. Award Amount, \$	if known:
10. a. Name and Address of Lobbying Enti (if individual, last name, first name, M	Ŋ;	b. Individuals Perfo different from N (last name, first n Sheet(s) if necessary)	t namé, MI):
11. Amount of Payment (check all that app \$ actu	-		ent (check all that apply)
12. Form of Payment (check all that apply) a. cash b. in-kind: specify: nature	:	a. retain b. one-ti c. comm d. contin e. deferr f. other,	ime fee nission ngent fee
<ol> <li>Brief Description of Services Performe employee(s), or member(s) contacted</li> </ol>		d in Item 11:	, including officer(s),
15. Continuation Sheet(s) attached:	Yes No	-	
16. Commarker on conservences and the servence of the serve	by Title 31 U.S.C. Section al representation of fact this transaction was uant to 31 U.S.C. 1352. annually and will be file the required disclosure	Signature: Print Name: Title:	Date:
Federal Use Only:			Authorized for Local Reproduction Standard Form - 111

## DISCLOSURE OF LOBBYING ACTIVITIES

omplete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

Standard Form LLL Rev. 09-12-97

#### INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of covered Federal action or a material change to previous filing pursuant to title 31 U.S.C. Section 1352. The filing of a form is required for such payment or agreement to make payment to lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress an officer or employee of Congress or an employee of a Member of Congress in connection with a covered Federal action. Attach a continuation sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

- 1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
- 2. Identify the status of the covered Federal action.
- 3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
- 4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
- 5. If the organization filing the report in Item 4 checks "Subawardee" then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
- 6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organization level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
- 7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
- 8. Enter the most appropriate Federal identifying number available for the Federal action identification in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract grant. or loan award number, the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
- 9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
- 10. (a) Enter the full name, address, city, State and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influenced the covered Federal action.
- (b) Enter the full names of the individual(s) performing services and include full address if different from 10 (a). Enter Last Name, First Name and Middle Initial (MI).
- 11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
- 12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
- 13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
- 14. Provide a specific and detailed description of the services that the lobbyist has performed or will be expected to perform and the date(s) of any services rendered. Include all preparatory and related activity not just time spent in actual contact with Federal officials. Identify the Federal officer(s) or employee(s) contacted or the officer(s) employee(s) or Member(s) of Congress that were contacted.
- 15. Check whether or not a continuation sheet(s) is attached.
- 16. The certifying official shall sign and date the form, print his/her name title and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503. SF-LLL-Instructions Rev. 06-04-90

## CERTIFICATION OF BIDDER'S PRE-FABRICATED BRIDGE MANUFACTURER'S QUALIFICATIONS

Bidder certifies that

(insert name of pre-fabricated bridge manufacturer selected by Bidder) meets the following requirements:

### Check the following boxes as applicable:

Prior to and during production of the elements of the proposed bridge system the selected manufacturer:

□ Is/will be certified by the American Institute of Steel Construction (AISC) Certification Program.

## AND

- Has been in the business of designing and fabricating steel truss bridges for a minimum of five (5) years. The selected manufacturer maintains a permanent quality control department or retains an independent testing agency on a continuing basis. The independent testing agency will issue a report, certified by a licensed engineer, detailing the ability of the manufacturer to produce quality products consistent with industry standards.
- **NOTE:** The above Certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

Bidders are cautioned that making a false certification may result in the Bidder's bid being deemed non-responsive.

Accompanying this proposal is \_\_\_\_\_

(NOTICE: INSERT THE WORDS "CASH(\$_	_),"CASHIER'S CHECK," "CERTIFIED CHECK," O	OR "BIDDERS BOND," AS THE CASE MAY BE)
-------------------------------------	--	--

in amount equal to at least ten percent of the total of the bid.

(s)\_\_\_\_

#### The names of all persons interested in the forgoing Proposal as principals are as follows:

**IMPORTANT NOTICE:** If the Bidder or other interested person is a corporation, state legal name of corporation and place of incorporation, also names of the president, secretary, treasurer, and executive officer thereof; if a partnership, state name of partnership, also names of all individual partners; if Bidder or other interested person is an individual, state first and last names in full.

Licensed in accordance with an act providing for the registration of Contractors,

License No.

\_\_\_\_\_Classification(s) \_\_\_\_\_

#### (A Copy of the afore-referenced license must be attached hereto.)

**ADDENDA:** 

This Proposal is submitted with respect to the changes to the Contract included in addenda number

(Fill in addenda numbers if addenda have been received and insert, in this Proposal, any Proposal Pay Items and Bid Price Schedules that were received as part of the addenda)

By my signature on this Proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code Sections 10162, 10232, and 10285.1 are true and correct and that the Bidder has complied with the requirements of Sections 4104 of the Subletting and Subcontracting Fair Practices Act and of Section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5 of Division 4 of Title 2 of the California Code of Regulations). By my signature on this Proposal I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, Section 112 and Public Contract Code Section 7106; and the Equal Employment Opportunity Certification; and the Debarment Suspension, Ineligibility and Voluntary Exclusion Certification; the Non-lobbying Certification for Federal-Aid Contracts and the Disclosure of Lobbying Activities (Standard Form LLL); the Fair Employment Practice Addendum and the Nondiscrimination Assurances are true and correct.

The person or persons executing this Proposal on behalf of a corporation or partnership shall be prepared to demonstrate by resolution, article, or otherwise, that such person is or that such persons are appropriately authorized to act in these regards for such corporation or partnership. Such authority shall be demonstrated to the satisfaction of the County of El Dorado.

If the signature is by an agent other than an officer of a corporation or a member of a partnership, a power of attorney authorizing said act by the agent on behalf of his principal shall be submitted with the bid forms; otherwise, the bid may be disregarded as irregular and unauthorized.

The Bidder's execution on the signature portion of this Proposal shall constitute an endorsement and execution of those affidavits, declarations and certifications which are part of this Proposal.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2012

at \_\_\_\_\_ County, State of \_\_\_\_\_

Date:



Name and Title of Bidder

Name of Firm

#### END OF PROPOSAL

County of El Dorado, DOT Proposal Page P- 14

#### EXHIBIT 15-G1 LOCAL AGENCY BIDDER UDBE COMMITMENT (CONSTRUCTION CONTRACTS)

NOTE: PLEASE REFER TO INSTRUCTIONS ON THE NEXT PAGE OF THIS FORM								
LOCAL AGENC	Y: EL DORADO COUNTY LOG	CATION: WENTWOR	TH SPRINGS ROAD AT GERLE (	CREEK				
PROJECT DESC	PROJECT DESCRIPTION: CONSTRUCT NEW BRIDGE AND RE-ALIGN ROAD							
TOTAL CONTRACT AMOUNT: \$								
BID DATE:	BID DATE:							
BIDDER'S NAM	E:							
CONTRACT UD	BE GOAL: 6.08%							
CONTRACT ITEM NO.	ITEM OF WORK AND DESCRIPTION OR SERVICES TO BE SUBCONTRACTED OR MATERIALS TO BE PROVIDED (or contracted if the bidder is a UDBE)	UDBE CERT NO. AND EXPIRATION DATE	NAME OF EACH UDBE (Must be certified on the date bids are opened - include UDBE address and phone number)	DOLLAR AMOUNT UDBE				
For Local A	Agency to Complete:		Total Claimed UDBE	\$				
Local Agency Co	ntract Number: PW 11-30573, CIP No. 77	/118	Participation	Ψ				
Federal-aid Proje	ct Number: BRLO 5925 (053)			%				
Federal Share: 10	00%			OF TOTAL AMOUNT BID				
Contract Award I	Date:							
Local Agency certifies that all UDBE certifications have been verified and information is complete and accurate.								
			Date (A	rea Code) Tel. No.				
Print Name	Signature	Date	-					
Local Agency Re	presentative		Person to Contact (P	lease Type or Print)				
(Area Code) Telephone Number: Local Agency Bidder UDBE Commitment (Construction Construction Constructin Constructin Construction Construction								

**Distribution**: (1) Original – Local agency files

#### INSTRUCTIONS - LOCAL AGENCY BIDDER UDBE COMMITMENT (CONSTRUCTION CONTRACTS)

ALL BIDDERS:

PLEASE NOTE: It is the bidder's responsibility to verify that the UDBE(s) falls into one of the following groups in order to count towards the UDBE contract goal: 1) African Americans; 2) Asian-Pacific Americans; 3) Native Americans; 4) Women. This information may be submitted with your bid. If it is not, and you are the apparent low bidder or the second or third low bidder, it must submitted and received as specified in the Special Provisions. Failure to submit the required UDBE commitment will be grounds for finding the bid nonresponsive

A UDBE is a firm meeting the definition of a DBE as specified in 49 CFR and is one of the following groups: African Americans, Asian-Pacific Americans, Native Americans, or Women.

The form requires specific information regarding the construction contract: Local Agency, Location, Project Description, Total Contract Amount, Bid Date, Bidder's Name, and Contract UDBE Goal.

The form has a column for the Contract Item Number and Item of Work and Description or Services to be Subcontracted or Materials to be provided by UDBEs. Prime contractors shall indicate all work to be performed by UDBEs including, if the prime is a UDBE, work performed by its own forces, if a UDBE. The UDBE shall provide a certification number to the Contractor and expiration date. Enter the UDBE prime's and subcontractors' certification numbers. The form has a column for the Names of UDBE contractors to perform the work (who must be certified on the date bids are opened and include the UDBE address and phone number).

IMPORTANT: Identify **all** UDBE firms participating in the project regardless of tier. Names of the First-Tier UDBE Subcontractors and their respective item(s) of work listed should be consistent, where applicable, with the names and items of work in the "Subcontractors Listing" submitted with your bid.

There is a column for the UDBE participation dollar amount. (If 100% of item is not to be performed or furnished by the UDBE, describe exact portion of item to be performed or furnished by the UDBE.) See Section "Disadvantaged Business Enterprise (DBE)," of the Special Provisions (construction contracts), to determine how to count the participation of UDBE firms. Enter the Total Claimed UDBE Participation dollars and percentage of the total amount bid that these dollars represent.

Exhibit 15-G1 must be signed and dated by the person bidding. Also list a phone number in the space provided and print the name of the person to contact.

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11-0005.2B.270

## **UDBE INFORMATION – GOOD FAITH EFFORTS, EXHIBIT 15-H**

Federal-Aid Project No. Bid Opening Date

The County of El Dorado established an Under-utilized Disadvantaged Business Enterprise (UDBE) goal of 6.08% for this project. The information provided herein shows that a good faith effort was made.

Lowest, second lowest and third lowest bidders shall submit the following information to document adequate good faith efforts. Bidders should submit the following information even if the "Local Agency Bidder - UDBE Commitment" form indicates that the bidder has met the UDBE goal. This will protect the bidder's eligibility for award of the contract if the administering agency determines that the bidder failed to meet the goal for various reasons, e.g., a UDBE firm was not certified at bid opening, or the bidder made a mathematical error.

Submittal of only the "Local Agency Bidder - UDBE Commitment" form may not provide sufficient documentation to demonstrate that adequate good faith efforts were made.

The following items are listed in the Section entitled "Submission of UDBE Commitment" of the **Special Provisions:** 

A. The names and dates of each publication in which a request for UDBE participation for this project was placed by the bidder (please attach copies of advertisements or proofs of publication):

Publications	Dates of Advertisement

B. The names and dates of written notices sent to certified UDBEs soliciting bids for this project and the dates and methods used for following up initial solicitations to determine with certainty whether the UDBEs were interested (please attach copies of solicitations, telephone records, fax confirmations, etc.):

Names of UDBEs Solicited	Date of Initial Solicitation	Follow Up Methods and Dates

C. The items of work which the bidder made available to UDBE firms, including, where appropriate, any breaking down of the contract work items (including those items normally performed by the bidder with its own forces)

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into economically feasible units to facilitate UDBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate UDBE participation was made available to UDBE firms.

Items of Work	Bidder Normally Performs Item (Y/N)	Breakdown of Items	Amount (\$)	Percentage Of Contract

D. The names, addresses and phone numbers of rejected UDBE firms, the reasons for the bidder's rejection of the UDBEs, the firms selected for that work (please attach copies of quotes from the firms involved), and the price difference for each UDBE if the selected firm is not a UDBE:

Names, addresses and phone numbers of rejected UDBEs and the reasons for the bidder's rejection of the UDBEs:

Names, addresses and phone numbers of firms selected for the work above:

- E. Efforts made to assist interested UDBEs in obtaining bonding, lines of credit or insurance, and any technical assistance or information related to the specifications and requirements for the work which was provided to UDBEs:
- F. Efforts made to assist interested UDBEs in obtaining necessary equipment, supplies, materials, or related assistance or services, excluding supplies and equipment the UDBE subcontractor purchases or leases from the prime contractor or its affiliate:

Wentworth Springs Road at Gerle Creek – Bridge Replacement Project Contract No. PW 11-30573 / CIP No. 77118 March 13, 2012 County of El Dorado, DOT **Proposal** Page P- 18 G. The names of agencies, organizations or groups contacted to provide assistance in contacting, recruiting and using UDBE firms (please attach copies of requests to agencies and any responses received, i.e., lists, Internet page download, etc.):

Name of Agency/Organization	Method/Date of Contact	Results
H. Any additional data to support a dem	nonstration of good faith efforts (use a	dditional sheets if necessary):

NOTE: USE ADDITIONAL SHEETS OF PAPER IF NECESSARY.

## **COUNTY OF EL DORADO**

## **BIDDER'S BOND**

# this form MUST be used

#### KNOW ALL PEOPLE BY THESE PRESENTS, THAT WE

\_\_\_\_\_, as **PRINCIPAL**, and

as Surety are held and firmly bound unto the County of El Dorado, a political subdivision of the State of California (hereinafter referred to as "Obligee"), in the penal sum of **TEN** (10) **PERCENT OF THE AMOUNT OF THE TOTAL BID PRICE** of the Principal above named, submitted by said Principal to the Obligee for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made to the Obligee, we the Principal and Surety bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the Surety hereunder exceed the sum of

#### TEN PERCENT (10%) OF THE AMOUNT OF THE TOTAL BID PRICE

#### THE CONDITION OF THIS OBLIGATION IS SUCH, THAT:

**WHEREAS**, the Principal has submitted the above-mentioned Bid to the Obligee, as aforesaid, for certain construction specifically described as follows, for which bids are to be opened at Placerville, El Dorado County, California, for the construction of the

#### WENTWORTH SPRINGS ROAD AT GERLE CREEK – BRIDGE REPLACEMENT PROJECT CONTRACT No. PW 11-30573 / CIP No. 77118

**NOW, THEREFORE,** if the aforesaid Principal is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented to it for signature, enters into a written contract, in the prescribed form, in accordance with the Bid, and files two bonds with the Obligee, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall remain in full force and virtue.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the Court.

IN WITNESS WHEREOF, we have set our hands and seals on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_

(seal)

Principal

Surety

(seal)

Address:

(NOTE: Signature of those executing for the Surety shall be properly acknowledged, and accompanied by a Certificate of Acknowledgment.)

# **SURETY**

		ACKNOWLEDGMENT
State of Californ	nia	
County of		
On	before m	e,
		(here insert name and title of the officer)
personally appe	eared	
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