



# COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

## AGREEMENT FOR CONSTRUCTION SERVICES

**THIS AGREEMENT** made and entered into by and between the **COUNTY OF EL DORADO**, a political subdivision of the State of California, acting through the governing body or board thereof (hereinafter referred to as "County"), and **DOUG VEERKAMP GENERAL ENGINEERING, INC.**, duly qualified to conduct business in the State of California, whose principal place of business is (hereinafter referred to as "Contractor");

### RECITALS

**WHEREAS**, Contractor has duly submitted a bid proposal for the captioned project upon which County has awarded this contract;

That for and in consideration of the mutual promises, covenants, agreements, and conditions herein contained, the parties hereto agree with each other as follows:

#### 1. Contract Documents

The complete Agreement between the parties consists of and is set forth in the Contract Documents. The Contract Documents consist of: (a) the Notice to Bidders; (b) the bid forms which include the accepted Proposal, Bid Price Schedule and Total Bid, Subcontractor List, Section 10285.1 Statement, Section 10162 Questionnaire, Section 10232 Statement, Noncollusion Affidavit, Iran Contracting Act Certification, the Contract which includes this Agreement with all Exhibits thereto, including, the Bidders' Bond, Performance Bond, and Payment Bond; (c) the State of California Department of Transportation (Caltrans) Standard Plans 2018, and Standard Specifications 2018, Revised Standard Specifications dated 11/19/2020, the Manual of Uniform Traffic Control Devices (MUTCD), 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; (d) 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; (e) the prevailing Labor Surcharge And Equipment Rental Rates (when required) as determined by Caltrans to be in effect on the date the Work is accomplished; (f) executed Certificate of Insurance forms; (g) an executed Department of the Treasury Internal Revenue Service Form W-9 or County Payee Data Record Form, whichever is applicable; (h) 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. In case of conflict between any contract documents other than this Agreement, the documents shall take precedence in the order identified above, beginning with (a) and ending with (h).

#### 2. Execution of Contract

The successful Bidder must sign the *Agreement*.

Deliver to Office Engineer:

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- 1) Two Original Signed *Agreements*
  - 2) Contract Bonds
  - 3) Documents identified in Article 1
  - 4) Documents identified in the Notice of Award letter.

Office Engineer must receive these documents within 10 business days of the date of the Notice of Award of Contract letter.

The Bidder's security may be forfeited for failure to execute the Contract, furnish any bond, or provide the required insurance documents within the time specified.

The Department does not provide hard copies of the Contract Documents, including the Project Plans to the successful bidder.

**3. The Work**

Contractor is engaged in the business of doing the services and tasks required by this Agreement. Contractor agrees to furnish, at Contractor's own cost and expense, all tools, equipment, vehicles, apparatus, facilities, labor, materials, supplies, and all utility and transportation services to perform and complete in a good and workmanlike manner, furnished and installed, and complete and ready for use. Services shall include, but not limited to, those tasks as identified in Exhibit B, marked "Project Scope and Specifications," incorporated herein and made by reference a part hereof.

Contractor's signature on the Proposal certifies that they have visited the Site and examined thoroughly and understands the nature and extent of the Work, site, locality, actual conditions, as-built conditions, and all local conditions and federal, state, and local laws and regulations that in any manner may affect cost, time, progress, performance, or furnishing of the Work or which relate to any aspect of the design and the means, methods, techniques, sequences, or procedures of construction to be employed by Contractor and safety precautions and programs incident thereto. Contractor will construct all curb ramps in compliance with the Contract Documents and all applicable requirements of Titles II and III of the Americans with Disabilities Act (42 USC §§ 12131 – 12189) (ADA) for the construction of curb ramps, including all implementing regulations (28 CFR 35.151(e)) and the Americans with Disabilities Act Guidelines (<https://www.access-board.gov/ada/>).

**4. Location of Work**

Said work is to be performed as described in Exhibits A, B, C, and D.

**5. Contract Price**

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 award of Contract, if it will be awarded, will be to the lowest responsive, responsible Bidder whose proposal complies with all the requirements prescribed. The lowest responsive, responsible Bidder will be the Bidder submitting the lowest total of all the bid items. In the event of a discrepancy between the unit price bid and the extended unit total as stated on the Proposal, the County uses the amount bid for the unit price in calculating the additive total of the bid items for purposes of award, including revisions by Addenda, and as specified in the Proposal instructions.

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

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funds the Contract Prices named in Contractor's Bid and Bid Price Schedule, a copy of which is attached hereto as Exhibit A.

**6. Time of Completion**

Time is of the essence. The Work under the Contract shall be completed within FORTY (40) Working Days from the date specified in the official Notice to Proceed, unless an extension of time or suspension of Work is authorized in writing in accordance with a Contract Change Order. The contract working days begin on the date stated in the Notice to Proceed. The County will issue Notice to Proceed after Contract approval. Contract working hours are between the hours of 7:00 a.m. to 7:00 p.m. unless otherwise authorized.

The County may suspend Work due to environmental permit restrictions and/or inclement weather. During the suspension, the County pays for winterization costs or costs associated with water pollution control within the County's project area, as applicable. The County pays for any other Contract Work required to be performed within the County's project area during the suspension under Exhibit B – Project Scope and Specifications.

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 the Notice to Bidders annexed hereto, and stated above plus any extensions thereof. 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 **THREE THOUSAND FIVE HUNDRED DOLLARS (\$3,500)**, as liquidated damages and not as a penalty, for each and every calendar days delay in finishing the Work in excess of the Contract time prescribed herein.

**7. Measurement and Payment**

**Payment**

The Department pays you for furnishing the resources and activities required to complete the work. The Department's payment is full compensation for furnishing the resources and activities, including:

1. Risk, loss, damage repair, or cost of whatever character arising from or relating to the work and performance of the work
2. PLACs and taxes
3. Any royalties and costs arising from patents, trademarks, and copyrights involved in the work

The Department does not pay for your loss, damage, repair, or extra costs of whatever character arising from or relating to the work that is a direct or indirect result of your choice of construction methods, materials, equipment, or manpower, unless specifically mandated by the Contract. Payment is:

1. Full compensation for all work involved in each bid item shown on the Bid Item List by the unit of measure shown for that bid item
2. For the price bid for each bid item shown on the Bid Item List or as changed by change order with a specified price adjustment

Full compensation for work specified in the Contract Documents is included in the payment for the bid items involved unless:

1. Bid item for the work is shown on the Bid Item List
2. Work is specified as change order work

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Work paid for under one bid item is not paid for under any other bid item. Payment for a bid item includes payment for all work associated with that bid item.

No payment adjustments for price index fluctuations will be allowed.

The Department pays for change order work based on one or a combination of the following:

1. Bid item prices
2. Force account
3. Agreed price
4. Specialist billing

If the Engineer chooses to pay for change order work based on an agreed price, but you and the Engineer cannot agree on the price, the Department pays by force account. If a portion of extra work is covered by bid items, the Department pays for this work as changed quantities in those items. The Department pays for the remaining portion of the extra work by force account or agreed price.

Pay your subcontractors within 7 days of receipt of each progress payment unless otherwise agreed to in writing under Bus & Prof Code §7108.5.

#### **Changed Quantity Payment Adjustments**

If the total bid item quantity exceeds 125 percent of the quantity shown on the Bid Item List and if no approved Change Order addresses payment for the quantity exceeding 125 percent, the Engineer may adjust the unit price for the excess quantity under force account or the following:

1. The adjustment is the difference between the unit price and the unit cost of the total item pay quantity.
2. In determining the unit cost, the Engineer excludes the item's fixed costs. You have recovered the fixed costs in the payment for 125 percent shown on the Bid Item List.
3. After excluding fixed costs, the Engineer determines the item unit cost under force account.

If the payment for the number of units of a bid item in excess of 125 percent of the Bid Item List is less than \$5,000 at the unit price, the Engineer may not adjust the unit price unless you request it.

If the total item pay quantity is less than 75 percent of the quantity shown on the Bid Item List and if no approved Change Order addresses payment for the quantity less than 75 percent, you may request a unit price adjustment. The Engineer may adjust the unit price for the decreased quantity under force account or the following:

1. The adjustment is the difference between the unit price and the unit cost of the total pay quantity.
2. In determining the unit cost, the Engineer includes the item's fixed costs.
3. After including fixed costs, the Engineer determines the item unit cost under force account.

The Department does not pay more than 75 percent of the item total in the Bid Item List.

#### **Force Account**

For work paid by force account, the Engineer compares the County's records to your daily force-account work report. When you and the Engineer agree on the contents of the daily force-account work reports, the Engineer accepts the report and the County pays for the work. If the records differ, the County pays for the work based only on the information shown on the Department's records.

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If a subcontractor performs work at force account, accept an additional 10 percent markup to the total cost of that work paid at force account, including markups, as reimbursement for additional administrative costs. The markups specified for labor, materials, and equipment includes compensation for all delay costs, overhead costs, and profit.

If an item's unit price is adjusted for work-character changes, the County excludes your cost of determining the adjustment.

Payment for owner-operated labor and equipment is made at the market-priced invoice submitted.

### **Progress Payments**

The County pays you based on Engineer-prepared monthly progress estimates. Each estimate reflects:

1. Total work completed during the pay period
2. Change order bills if:
  - 2.1. Submitted by the 15th day of a month
  - 2.2. Approved by the 20th day of a month
3. Amount for materials on hand
4. Amount earned for mobilization
5. Deductions
6. Withholds
7. Resolved potential claims
8. Payment adjustments

Submit certification stating the work complies with the QC procedures. The Engineer does not process a progress estimate without a signed certification.

### **Final Payment**

After Contract acceptance, the Department pays you based on the Engineer-prepared estimate that includes withholds and the balance due after the deduction of previous payments.

The Engineer estimates the amount of work completed and shows the amount payable in a proposed final estimate based on:

1. Contract items
2. Payment adjustments
3. Work paid by force account or agreed price
4. Extra work
5. Deductions

Submit either a written acceptance of the proposed final estimate or a claim statement postmarked or hand delivered before the 31st day after receiving the proposed final estimate. If you claim that the proposed final estimate is less than 90 percent of your total bid, the Department adjusts the final payment to cover your overhead. The adjustment is 10 percent of the difference between the total bid and the final estimate. The Department does not make this adjustment on a terminated contract. If you accept the proposed final estimate or do not submit a claim statement within 30 days of receiving the estimate, the Engineer provides you the final estimate and the Department pays the amount due within 30 days.

If you submit a claim statement within 30 days of receiving the Engineer's proposed final estimate, the Engineer provides you a semifinal estimate and the Department pays the amount due within 30 days. The semifinal estimate is conclusive as to the amount of work completed and the amount payable except as affected by any claims.

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## Payment Withholds

The County may withhold payment for noncompliance.

The County returns the noncompliance withhold in the progress payment following the correction of noncompliance except as specified below. Withholds are not retentions under Pub Cont Code § 7107 and do not accrue interest under Pub Cont Code § 10261.5. Withholds are cumulative and independent of deductions. This section does not include all withholds that may be taken; the Department may withhold other payments as specified.

The County withholds 10 percent of a progress payment for noncompliant progress. Noncompliant progress occurs when:

1. Total days to date exceed 75 percent of the contract time
2. Percent of the contract time elapsed exceeds the percent of value of the work completed by more than 15 percent

The Engineer determines the percent of the contract time elapsed by dividing the total days to date by the amount of days remaining and converting the quotient to a percentage.

The Engineer determines the percent value of the 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 Pay Estimate.

When the percent of the contract time elapsed minus the percent value of work completed is less than or equal to 15 percent, the County returns the withhold in the next progress payment.

During each estimate period you fail to comply with a Contract part, including the submittal of a document as specified, the County withholds a part of the progress payment except as specified below for the failure to submit a document during the last estimate period. The documents include QC plans, required forms, schedules, traffic control plans, water pollution control submittals, and dust control submittals. If you fail to comply with water pollution control or dust control requirements, the Department withholds part of the progress payment.

For 1 performance failure, the County withholds 25 percent of the progress payment but does not withhold more than 10 percent of the total bid.

For multiple performance failures, the County withholds 100 percent of the progress payment but does not withhold more than 10 percent of the total bid.

During the last estimate period, if you fail to submit a document as specified, the County withholds \$10,000 for each document. The Department returns the withhold within 30 days after receipt of the document.

The Department may withhold payments to cover claims filed under Civ Code § 9000 et seq. Stop notice information may be obtained from the Engineer.

Penalties include fines and damages that are proposed, assessed, or levied against you or the County by a governmental agency or private lawsuit. Penalties are also payments made or costs incurred in settling alleged violations of federal, State, or local laws, regulations, requirements, or PLACs. The cost incurred may include the amount spent for mitigation or correcting a violation.

If the County is assessed a penalty, the County may withhold the penalty amount until the penalty disposition has been resolved. The County may withhold penalty amounts without notifying you.

Instead of the withhold, you may provide a bond equal to the highest estimated liability for any disputed penalties proposed except you may not provide a bond for withholds related to labor compliance violations.

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## Retentions

The Department will retain 5% of the value of each progress payment (excluding mobilization payments) from each progress payment. After the Engineer determines that the Project is substantially complete, the Department may, at the Engineer's sole discretion, release half of all retention previously withheld and reduce any subsequent retentions withheld from subsequent progress payments to 2.5% of the value of any subsequent progress payments (excluding mobilization payments). The retained funds will be returned within thirty five (35) days after recordation of the Notice of Acceptance.

You 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 (Pub Cont Code 22300). Securities eligible for deposit hereunder are limited to those listed in Section 16430 of the Government Code, or bank or savings and loan certificates of deposit.

Funds retained 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 your failure to fulfill a contract requirement.

You and/or your subcontractor must return all monies withheld in retention from subcontractors within 30 days after receiving payment of retainage. Violation of this section subjects you to the penalties, sanctions, and other remedies of Bus & Prof Code § 7108.5. This section must not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you in the event of a dispute involving late payment or nonpayment by you, deficient subcontract performance, or noncompliance by a subcontractor.

## Measurement

The Department determines bid item quantities under US customary units. Except for final pay item quantities, the Engineer measures quantities for payment. Measure material quantities for payment with devices that comply with:

1. 4 CA Code of Regs § 4000 et seq.
2. Bus & Prof Code § 12001 et seq.

The County shows a bid item quantity as a final pay item for payment purposes only. For a final pay item, accept payment based on the Bid Item List quantity, regardless of the actual quantity used unless dimensions are changed by the Engineer.

The Engineer determines the weights of aggregate and other roadway material that are being paid for by weight as shown in the following table and does not include the deducted weight of water in their payment quantities:

Material	Quantity Determination
Aggregate or other roadway material except as otherwise shown in this table	By deducting the weight of water in the material <sup>a</sup> in excess of 3 percent of the dry weight of the material from the weight of the material
Imported borrow, imported topsoil, AB	By deducting the weight of water in the material <sup>a</sup> in excess of 6 percent of the dry weight of the material from the weight of the material
Straw	By deducting the weight of water in the material <sup>a</sup> in excess of 15 percent of the dry weight of the material from the weight of the material
Fiber <sup>b</sup>	Engineer does not deduct the weight of water
AB and aggregate for CTBs	By Volume: determined from dimensions shown

	By Weight: by deducting the weight of water at the time of weighing in excess of the optimum moisture content (CA Test 216) plus 1 percent from the weight of the aggregate base.
<p>NOTE: Percentage of water is determined by California Test 226.</p> <p><sup>a</sup>At the time of weighing</p> <p><sup>b</sup>Weight of water in the fiber<sup>a</sup> must not exceed 15 percent of the dry weight of the fiber.</p>	

The County may make a payment adjustment for an excusable delay that affects your costs. Only losses for idle equipment, idle workers, and moving or transporting equipment are eligible for delay related payment adjustments. The Engineer determines payment for idle time of equipment in the same manner as determinations are made for equipment used in the performance of force account work with the following exceptions:

1. Delay factor in the Labor Surcharge and Equipment Rental Rates applies to each equipment rental rate.
2. Daily number of payable hours equals the normal working hours during the delay, not to exceed 8 hours per day.
3. Delay days exclude non-working days.
4. Markups are not added.

The Engineer determines payment adjustment for the idle workers as force account, but does not add markups. The Engineer includes costs due to necessary extra moving or transporting of equipment. The Department does not make a payment adjustment for overhead incurred during non-working days of additional construction seasons experienced because of delay.

**8. Performance Bond**

As a part of the execution of this Agreement, Contractor shall furnish a bond of a surety company authorized to do business in the State of California, conditioned upon the faithful performance of all covenants and stipulations under this Agreement. The amount of this bond shall be one hundred percent (100%) of the total Contract Price and shall be executed upon the form provided by County.

**9. Payment Bond**

As a part of the execution of this Agreement, Contractor shall furnish a bond of a surety company authorized to do business in the State of California, conditioned upon the payment in full of all claims for labor and materials in accordance with the provisions of the law of the State of California. The amount of this bond shall be one hundred percent (100%) of the total Contract Price and shall be executed upon the form provided by County.

**10. Notification of Surety Company**

The surety company shall familiarize itself with all of the conditions and provisions of this Agreement, and shall waive the right of special notification of any change or modifications of this Agreement or extension of time, or of decreased or increased work, or of the cancellation of the Agreement, or of any other act or acts by County or its authorized agents, under the terms of this Agreement; and failure to so notify the aforesaid surety company of changes shall in no way relieve the surety company of its obligation under this Agreement.

**11. 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



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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.

**12. Payment of Prevailing Wages**

Contractor shall pay and require payment of wages according to a scale of prevailing wage rates determined by California law, which scale is on file at County's Community Development Agency, Transportation Division's principal office and shall comply with all applicable wage requirements, as set forth in Labor Code Sections 1770 et seq., 1773.2, 1775, 1776, 1810, and 1813. 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. 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/OPRL/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.

**13. 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 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.

**14. Certified Payroll**

As required under the provisions of Labor Code Section 1776, 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 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 Contractor as follows:

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- 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 County, the State Division 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 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 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 Contractor.
  - d. All contractors and subcontractors must furnish electronic certified payroll records directly to the Department of Industrial Relations.

**15. Registration of Contractors**

No contractor or subcontractor may bid on any public works project, be listed in a bid proposal for any public works project, or engage in the performance of any contract for public work unless registered with the Department of Industrial Relations pursuant to Labor Code sections 1725.5 and 1771.1.

Contractor shall post job site notices as prescribed by Title 8 of California Code of Regulations Section 16451.

**16. Records Examination and Audit Requirements**

Contractor and its subcontractors, if any are authorized hereunder, shall maintain all books, documents, papers, accounting records, and other evidence pertaining to the performance of the Agreement, including but not limited to, the costs of administering the various aspects of the Agreement. In accordance with Government Code Section 8546.7, all of the above-referenced parties shall make such materials available at their respective offices at all reasonable times during the contract period and for four (4) years from the date that final payment by County and all other pending matters are closed. Representatives of County, the State Auditor, and any duly authorized representative of other government agencies shall have access to any books, documents, papers, and records that are pertinent to the Agreement for audit, examination, excerpts, and transactions and copies thereof shall be furnished upon request.

**17. Payment of all Federal, State, or City Taxes**

Any federal, state, or city tax payable on the articles furnished by Contractor under the Agreement shall be included in the Contract Price and paid by Contractor.

**18. Compliance with all Applicable Laws**

Contractor shall conform to and abide by all Federal, State, and local building, labor and safety laws, ordinances, rules and regulations. All Work and materials shall be in full accordance with the latest rules and regulations of the State Fire Marshal, safety orders of the Division of Industrial Safety, California Electrical Code, California Building Code, California Plumbing Code, and any and all other applicable laws and regulations. Nothing in the Contract Documents, including but not limited to the plans and specifications, is to be construed to permit work not conforming to these codes, laws, and regulations.

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19. **Nondiscrimination**

- A. County may require Contractor's services on projects involving funding from various state and/or federal agencies, and as a consequence, Contractor shall comply with all applicable nondiscrimination statutes and regulations during the performance of this Agreement including but not limited to the following: Contractor and its employees and representatives shall not unlawfully discriminate against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age, genetic information, gender, gender identity, gender expression, sexual orientation, or military or veteran status; 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 11000 et seq.); the applicable regulations of the Fair Employment and Housing Commission implementing Government Code, Section 12990, set forth in Subchapter 5 of Chapter 5 of Division 4.1 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 and its employees 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 agreements that affect or are related to the services performed herein.
- C. Contractor's signature shall provide any certifications necessary under the federal laws, the laws of the State of California, including but not limited to Government Code Section 12990 and Title 2, California Code of Regulations, Section 11002.

20. **Reporting Accidents**

Contractor shall prepare and submit (within 24 hours of such incidents) reports of accidents at the site and anywhere else the work is in progress in which bodily injury is sustained or property loss in excess of Five Hundred Dollars (\$500.00) occurs.

21. **Workers' Compensation**

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 the work of this Agreement.

Signed: Daylan B. Veeravang Date: 6/9/2021

22. **Emissions Reduction**

Contractor shall comply with emission reduction regulations mandated by the California Air Resources Board, and sign a certification of knowledge thereof:

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**CERTIFICATE OF KNOWLEDGE – EMISSIONS REDUCTION REGULATIONS**

I am aware of the emissions reduction regulations being mandated by the California Air Resources Board. I will comply with such regulations before commencing the performance of the Work, maintain compliance throughout the duration of this Contract, and provide County a Certificate of Reported Compliance.

Signed: Doyle B Neerburg Date: 6/9/2021

**23. Deviation from Plans and Specifications**

No deviation shall be made from the Contract Documents, if any, without the prior written approval of Contract Administrator.

**24. Unity of Plans and Specifications**

The plans and specifications, if any, are one document, and any work shown or mentioned, in one and not in the other, or vice versa, shall be furnished or performed as though mentioned or shown in both.

**25. Utilities**

At least 48 hours before beginning any Work involving trenching or digging, Contractor shall notify Underground Service Alert (USA) at 811 or at 800-642-2444 with the specifics of the intended Work on the job site. Contractor shall follow and comply with all USA policies and procedures. Contractor shall obtain a USA ticket number and wait for USA to mark the location of underground utilities in conflict with the Project, or for USA to advise Contractor of the absence of underground utilities in the Project area.

As required by Section 4215 of the California Government Code, County will assume responsibility for the removal, relocation, and protection of main or trunk-line utility facilities existing on the Work site, if such facilities are not shown in the Contract Documents, and County shall compensate Contractor for the costs of locating and repairing damage to such facilities not due to the failure of Contractor to exercise reasonable care.

Nothing herein shall be deemed to require County to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the site of the Project can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, on or adjacent to the site of the Work.

If Contractor, while performing the Work under the Contract, discovers utility facilities not identified in the Contract Documents, including the plans or specifications, Contractor shall immediately notify County's Contract Administrator or Project Manager. County shall not be liable for Contractor's performance of unauthorized Work.

**26. Pre-Construction Conference**

At the Construction Division Office, 2441 Headington Road, Placerville attend a pre-construction conference with key personnel, including all major superintendents for the Work and major subcontractors. The pre-construction conference will be scheduled after the project is awarded and prior to the issuance of the Notice to Proceed. At this conference, submit in writing, signed by the officers of the corporation, if applicable, the names of two employees who will be the superintendents on the project. The second name serves as an alternate in the absence of the first designee. The superintendent must be on the site at all times that Work is in progress.

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27. **Notice of Discovery of Hazardous Waste or Unusual Conditions**

- A. Contractor shall promptly, and before the following conditions are disturbed, notify County in writing, in the event Contractor encounters, after excavating to a depth of greater than four (4) feet, any of the following:
1. Material that Contractor believes may be hazardous waste, as defined in section 25117 of the Health and Safety Code, which is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law;
  2. Subsurface or latent physical conditions at the site differing materially from those indicated in the Contract Documents; or
  3. Unknown physical conditions at the site of any unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the Work provided for in the Agreement.
- B. County shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, involve hazardous waste, or cause a decrease or increase in Contractor's cost of or time required for performance of any part of the Work, an adjustment, excluding loss of anticipated profits, will be made and the Contract Documents will be modified by a Change Order. County will notify Contractor of County's determination as to whether or not an adjustment of the Contract Documents is warranted.
- C. In the event a dispute arises between County and Contractor as to whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in Contractor's cost of or time required for performance of any part of the Work, Contractor shall not be excused from any scheduled completion date provided for by the Agreement, but shall proceed with all Work to be performed under the Agreement. Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between Contractor and County.

28. **Subcontracting**

The provisions of Sections 4100-4114, inclusive, of the Public Contract Code regarding sub-contracting shall apply to this Contract, and Contractor represents that it will comply with all provisions therein.

The Subcontractor List in the Proposal must show the name, contractor's license number, DIR number and address and Work portions in excess of 0.5% or \$10,000, whichever is greater, to be performed by each subcontractor listed. The Work portion to be performed must 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 (not to exceed 100%) 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 completed Subcontractor Listing Form in the Proposal must be submitted at time of bid.**

An inadvertent error in listing the California Contractor license number on the Subcontractor List will not be grounds for filing a bid protest or grounds for considering the bid non-responsive if the Bidder submits the corrected contractor's license number to Jennifer Rimoldi via fax (530) 626-0387 or email Jennifer.Rimoldi@edcgov.us within 24 hours after the bid opening, provided the corrected contractor's license number corresponds to the submitted name and location for that subcontractor.

29. **Additional Work**

County reserves the right to make such alterations, deviations, or additions to or deletions from the plans and specifications, including the right to increase or decrease the quantity of any item or portion of work or to delete any items or portion of work, as may be deemed by the Contract Administrator or Project Manager to be necessary

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or advisable, and to require such additional work to be required for the proper completion of the whole Work contemplated.

Any such changes will be set forth in a Contract Change Order (Change Order) which will specify the additional work, adjustment of performance time, if any, and basis for additional or reduced compensation, if any. Any Change Order shall not become effective until approved by the Director of Transportation, or where required, by the Board of Supervisors.

**30. Termination by County for Convenience**

County reserves the right to terminate the Agreement at any time upon determination by County's representative that termination of the Agreement is in the best interest of County. County shall issue Contractor a written notice specifying that the Agreement is to be terminated.

Upon receipt of said written notice, Contractor shall stop all work under the Agreement 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 Agreement 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.

**31. Termination by County for Cause**

If Contractor is adjudged as bankrupt or insolvent or makes a general assignment for the benefit of its creditors, 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 County's representative, or the Engineer, if one is appointed, or otherwise violates any provision of the Contract Documents, then County may, without prejudice to any other right or remedy and after giving Contractor 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 Agreement, an Inspector's written notice may be served upon Contractor demanding satisfactory compliance with the Agreement. If Contractor 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.

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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 Agreement are insufficient for completion, Contractor 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 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 Agreement shall be equitably adjusted to compensate for such termination.

**32. Successors and Assigns**

This Agreement shall bind and inure to the heirs, devisees, assignees, and successors in interest of Contractor and to the successors in interest of County in the same manner as if such parties had been expressly named herein.

**33. Assignment of Contract**

Neither the Contract nor any part thereof, or any monies due or to become due hereunder, may be assigned by Contractor without the written approval of County. County may assign this Contract to a lender, or any third party that assumes the obligations of County hereunder.

**34. Amendments**

This Agreement may be amended by mutual consent of the parties hereto. Said amendment shall become effective only when in writing and fully executed by duly authorized officers of the parties hereto.

**35. Separate Contracts**

County reserves the right to let other contracts in connection with the Work. Contractor shall afford all other such contractors reasonable opportunity for storage of their materials, shall provide that the execution of its work properly connects and coordinates with theirs, and shall cooperate with them to the end of facilitating the Work.

**36. Indemnity**

To the fullest extent allowed by law, Contractor shall defend, indemnify, and hold County, its (their) officers, directors, and employees, and the State of California (State), its officers, directors, agents (excluding agents who are design professionals), 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, 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, 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 their officers and employees, or where expressly prescribed by statute.

The duty to indemnify and hold harmless the County, the State, and any Federal government agencies associated with this Contract specifically includes the duties to 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

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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.

This indemnification will remain in effect until terminated or modified in writing by mutual agreement.

**37. Insurance**

GENERAL INSURANCE REQUIREMENTS: Contractor shall provide proof of a policy of insurance satisfactory to County's Risk Management Division and documentation evidencing that Contractor maintains insurance that meets the following requirements:

1. Full Workers' Compensation and Employers' Liability Insurance covering all employees of 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 and a \$4,000,000 aggregate limit.
3. Automobile Liability Insurance of not less than One Million Dollars (\$1,000,000) is required in the event motor vehicles are used by Contractor in performance of the Contract.
4. In the event Contractor is a licensed professional and is performing professional services under this Agreement, 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 purposes of this Contract, XCU coverage is not required.

PROOF OF INSURANCE REQUIREMENTS:

1. Contractor shall furnish proof of coverage satisfactory to County's Risk Management Division as evidence that the insurance required herein is being maintained. The insurance will be issued by an insurance company acceptable to County's 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 insured, but only insofar as the operations under this Agreement are concerned. This provision shall apply to all general and excess liability insurance policies. Proof that 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 County as 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 Agreement for not less than three (3) years following completion of performance of this Agreement.
4. Any deductibles or self-insured retentions must be declared to and approved by County. At the option of County, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects County, its officers, officials, employees, and volunteers; or 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



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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 the County of El Dorado as additional insureds on each subcontractor's general and excess liability insurance policies. Upon request by County Contractor shall furnish proof of coverage satisfactory to County as evidence that the subcontractor insurance required herein is being maintained.

**INSURANCE NOTIFICATION REQUIREMENTS:**

1. Contractor agrees that no cancellation or material change in any policy shall become effective except upon prior written notice to Community Development Agency, Contract Services Unit, 2850 Fairlane Court, Placerville, California 95667.
2. Contractor agrees that the insurance required herein shall be in effect at all times during the term of this Agreement, inclusive of the guarantee/warranty period specified herein below. In the event said insurance coverage expires at any time or times during the term of this Agreement, 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 Agreement upon the occurrence of such event. New certificates of insurance are subject to the approval of County's Risk Management Division.

**ADDITIONAL STANDARDS:** Certificates shall meet such additional standards as may be determined by County's Department of Transportation either independently or in consultation with County's Risk Management Division, as essential for protection of County.

**COMMENCEMENT OF PERFORMANCE:** Contractor shall not commence performance of this Agreement unless and until compliance with each and every requirement of the insurance provisions is achieved.

**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 Agreement.

**REPORTING PROVISIONS:** Any failure to comply with the reporting provisions of the policies shall not affect the coverage provided to County, its officers, officials, employees or volunteers.

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

**PREMIUM PAYMENTS:** The insurance companies shall have no recourse against County, its officers, agents, employees, or volunteers, or any of them for payment of any premiums or assessments under any policy issued by any insurance company.

**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 Agreement.

**38. Independent Contractor**

It is understood that the services provided under this Agreement shall be prepared in and with cooperation from County and its staff. It is further understood that this Agreement does not create an exclusive relationship between County and Contractor, and Contractor may perform similar work or services for others. However, Contractor shall not enter into any agreement with any other party, or provide any information in any manner to any other party, that would conflict with Contractor's responsibilities or hinder Contractor's performance of services hereunder, unless County's Contract Administrator, in writing, authorizes that agreement or sharing of information.

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The parties intend that an independent contractor relationship will be created by this contract. Contractor is, and shall be at all times, deemed independent and shall be wholly responsible for the manner in which it performs services required by the terms of this Agreement. Contractor exclusively assumes responsibility for acts of its employees, agents, affiliates, and subcontractors, if any are authorized herein, as they relate to the services or work to be performed under this Agreement during the course and scope of their employment by Contractor. Those persons will be entirely and exclusively under the direction, supervision, and control of Contractor.

County may designate the tasks to be performed and the results to be accomplished under this Agreement, provide information concerning the work or services, approve or disapprove the final work product and/or services provided, and set deadlines for the completion of the work or services, but County will not control or direct the manner, means, methods, or sequence in which Contractor performs the work or services for accomplishing the results. Contractor understands and agrees that Contractor lacks the authority to bind County or incur any obligations on behalf of County.

Contractor, including any subcontractor or employees of Contractor, shall not receive, nor be eligible for, any benefits County provides for its employees, including, but not limited to, vacation pay, paid holidays, life insurance, health insurance, social security, disability insurance, pension, or 457 plans. Contractor shall not receive, nor be eligible for, workers' compensation, including medical and indemnity payments. County is not responsible for withholding, and shall not withhold, Federal Income Contribution Act amounts or taxes of any kind from any payments which it owes Contractor. Contractor shall not be subject to the work schedules or vacation periods that apply to County employees.

Contractor shall be solely responsible for paying its employees, and for withholding Federal Income Contribution Act amounts and other taxes, workers' compensation, unemployment compensation, medical insurance, life insurance, or any other benefit that Contractor provides for its employees.

**39. Force Majeure**

Neither party will be liable for any delay, failure to perform, or omission under this Agreement that is due to any cause that it is beyond its control, not due to its own negligence, and cannot be overcome by the exercise of due diligence. In that event, the affected party will:

1. Promptly give written notice to the other of the fact that it is unable to so perform and the cause(s) that is beyond its control.
2. Once the cause(s) has ceased, provide written notice to the other party and immediately resume its performance under this Agreement.

For purposes of this Article, "cause that is beyond its control" includes labor disturbances, riots, fires, earthquakes, floods, storms, lightning, epidemics, war, disorders, hostilities, expropriation or confiscation of properties, failure of and delays by carriers, interference by civil or military authorities, whether legal or de facto, and whether purporting to act under some constitution, decree, or law, or otherwise, or acts of God.

**40. Waiver**

No failure on the part of the parties to exercise any rights under this Agreement, and no course of dealing with respect to any right hereunder, shall operate as a waiver of that right, nor shall any single or partial exercise of any right preclude the exercise of any other right. The remedies herein provided are cumulative and are not exclusive of any other remedies provided by law.

**41. Conflict of Interest**

The parties to this Agreement have read and are aware of the provisions of Government Code Section 1090 et seq. and the Political Reform Act of 1974 (Section 87100 et seq.), relating to conflict of interest of public officers and employees. Individuals who are working for Contractor and performing work for County and who are considered to be consultant within the meaning of Title 2, California Code of Regulations, Section 18700.3, as it now reads

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or may thereafter be amended, are required to file a statement of economic interest in accordance with County's Conflict of Interest Code. County's Contract Administrator shall at the time this Agreement is executed make an initial determination whether or not the individuals who will provide services or perform work pursuant to this Agreement are consultants within the meaning of the Political Reform Act and County's Conflict of Interest Code. Statements of economic interests are public records subject to disclosure under the California Public Records Act.

Contractor covenants that during the term of this Agreement neither it, or any officer or employee of the Contractor, has or shall acquire any interest, directly or indirectly, in any of the following:

1. Any other contract connected with, or directly affected by, the services to be performed by this Agreement.
2. Any other entities connected with, or directly affected by, the services to be performed by this Agreement.
3. Any officer or employee of County that are involved in this Agreement.

If Contractor becomes aware of a conflict of interest related to this Agreement, Contractor shall promptly notify County of the existence of that conflict, and County may, in its sole discretion, immediately terminate this Agreement by giving written notice of termination specified in Article 31.

**42. Licenses**

Contractor warrants and represents that it holds a valid California license pursuant to the Contractors' State License Law (Business and Professions Code Sections 7000, et seq.), that its license is in good standing and that it possesses a Class A – General Contractor License as required by the categories and type of the Work. Copies of Contractor's State Contractors' license must be provided with this Agreement.

**43. Business License**

County's 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 County of El Dorado 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 County's Business License Ordinance, where applicable, prior to beginning work under this Agreement and at all times during the term of this Agreement.

**44. Cleaning Up**

Contractor shall not allow the site of the Work to become littered with trash, rubbish, or waste material, and shall maintain the site of Work in a neat and orderly condition throughout the performance of the Work. At the end of each work day, Contractor shall clean up all debris and waste materials generated by the Work and shall properly dispose of all trash, rubbish, and waste materials off site at no additional cost to County.

**45. Access to the Work**

County, and any state or local authorities having jurisdiction over the Project, shall at all times have access to the Work. Contractor shall maintain at least one lane of traffic at all times unless prior authorization is given by County. Roads cannot be closed without prior approval by County.

**46. Acceptance of Work**

The Work will be accepted by County in writing when the whole is completed satisfactorily, as determined by County or its duly authorized representative. Acceptance of the Work shall not constitute an acceptance of latent defects nor relieve Contractor of responsibility for any act or omission which is a violation of the Contract.

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47. **Resolution of Claims**

As permitted by Public Contract Code section 20104, the County has elected to resolve any claims between you and the County pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2 of the Public Contract Code. This Article describes the contract claim procedure. The provisions of this Article 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 Article 43. Step two is the filing of a timely Government Code Section 910 et seq. claim in accordance with the California Government Code. Any such claim shall affirmatively indicate your prior compliance with the contract claim procedure and previous dispositions under this Article. 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 is non-binding and the services of a mediator mutually acceptable to the parties must be used and, if the parties cannot agree, a mediator will be 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.

Your attention is directed to California Public Contract Code section 9204, which describes procedures for the resolution of claims on public works projects. Among other things, section 9204 requires the claimant to furnish reasonable documentation to support a claim, requires the public entity to respond to the claim within 45 days of receipt of the claim, and allows for the claimant to demand an informal meet and confer conference for settlement of the issues in dispute. For any portion of a claim that remains in dispute, section 9204 requires submission of the claim to nonbinding mediation. Additionally, section 9204 requires the public entity to make any payment due on an undisputed portion of the claim within 60 days of the public entity's written response and to pay interest at the rate of 7 percent per annum on any amounts not paid in a timely manner. The claims procedures described within the Contract Documents (including, but not limited to, this article) are in addition to the procedures required by section 9204 and, in the event of a conflict between those various procedures, the more stringent procedures will control.

The County's costs in reviewing or auditing a claim not supported by the Contractor's accounting or other records are damages incurred by the County within the meaning of the California False Claims Act.

If the Engineer determines that a claim requires additional analysis, the Engineer schedules a review board meeting. Meet with the board of review and make a presentation supporting the claim. After the Engineer or review board finishes reviewing the claim, the County makes the final determination of claims and provides it to you. The Engineer provides you a final estimate and the Department pays the amount due within 30 days. The final estimate is conclusive as to the amount of work completed and the amount payable. Your failure to comply with the claim procedures is a bar to arbitration under Pub Cont Code § 10240.2

If you fail to comply with these claim procedures as to any claim, then you waive your rights to this claim. County must not be deemed to waive or alter any provision of this Article if, at County's sole discretion, County administers a claim in a manner not in accord with those provisions.

Minimize and mitigate the impacts of work or events for which you will make a potential claim.

**Claim Procedure**

For each potential claim, assign an identification number determined by chronological sequencing and the 1st date of the potential claim.

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Submit a declaration that includes the following language with each claim statement:

I declare under penalty of perjury, according to the laws of the State of California, that the foregoing claims, with specific reference to the California False Claims Act (Govt Code § 12650 et seq.) and to the extent the project contains federal funding, the US False Claims Act (31 USC § 3729 et seq.), are true and correct, and that this declaration was signed on \_\_\_\_\_ (date) \_\_\_\_\_, 20\_\_ at \_\_\_\_\_, California.

Use the identification number for each potential claim on the:

1. Initial Potential Claim Record form
2. Supplemental Potential Claim Record form
3. Full and Final Potential Claim Record form

Failure to comply with this procedure is:

1. Waiver of the potential claim and a waiver of the right to a corresponding claim for the disputed work in the administrative claim procedure
2. Bar to arbitration (Pub Cont Code § 10240.2)

Submit an Initial Potential Claim Record form within 5 business days of the Engineer's response to the Request for Information (RFI) or within 5 business days from the date when a dispute arises due to an act or failure to act by the Engineer. The Initial Potential Claim Record form establishes the claim's nature and circumstances. The nature and circumstances must remain consistent.

The Engineer responds within 5 business days of receiving the form. Proceed with the work for which you will make a potential claim unless otherwise ordered.

Within 20 days of a request, provide access to the project records determined necessary by the Engineer to evaluate the potential claim.

Within 15 days of submitting the Initial Potential Claim Record form, submit a Supplemental Potential Claim Record form including:

1. Complete nature and circumstances causing the potential claim
2. Contract specifications supporting the basis of a claim
3. Estimated claim cost and an itemized breakdown of the individual costs stating how the estimate was determined
4. TIA

The Engineer evaluates the Supplemental Potential Claim Record form and responds within 20 days of receiving the submittal. To pursue a potential claim, comply with this Article.

If the estimated cost or effect on the scheduled completion date changes, update the Supplemental Potential Claim Record form information as soon as the change is recognized and submit this information.

Notify the Engineer within 10 days of the completion date of the potentially claimed work. The Engineer authorizes this completion date or notifies you of a revised date.

Within 30 days of the completion of the potentially claimed work, submit a Full and Final Potential Claim Record form including:

1. Detailed factual account of the events causing the potential claim, including:

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- 1.1. Pertinent dates
  - 1.2. Locations
  - 1.3. Work items affected by the potential claim
  2. Contract documents supporting the potential claim and a statement of the reasons these parts support entitlement
  3. Itemized cost breakdown if a payment adjustment is requested. Segregate costs into the following categories:
    - 3.1. Labor, including:
      - 3.1.1. Individuals
      - 3.1.2. Classifications
      - 3.1.3. Regular and overtime hours worked
      - 3.1.4. Dates worked
    - 3.2. Materials, including:
      - 3.2.1. Invoices
      - 3.2.2. Purchase orders
      - 3.2.3. Location of materials either stored or incorporated into the work
      - 3.2.4. Dates materials were transported to the job site or incorporated into the work
    - 3.3. Equipment, including:
      - 3.3.1. Detailed descriptions, including make, model, and serial number
      - 3.3.2. Hours of use
      - 3.3.3. Dates of use
      - 3.3.4. Equipment rates at the rental rate listed in Labor Surcharge and Equipment Rental Rates in effect when the affected work related to the claim was performed
  4. Detailed account of the time impact if a time adjustment is requested:
    - 4.1. Dates for the requested time.
    - 4.2. Reasons for a time adjustment.
    - 4.3. Contract documentation supporting the requested time adjustment.
    - 4.4. TIA. The TIA must demonstrate entitlement to a time adjustment.
  5. Identification and copies of your documents and copies of communications supporting the potential claim, including certified payrolls, bills, canceled checks, job cost reports, payment records, and rental agreements
  6. Relevant information, references, and arguments that support the potential claim

The Department does not consider a Full and Final Potential Claim Record form that does not have the same nature, circumstances, and basis of claim as those specified on the Initial Potential Claim Record form and Supplemental Potential Claim Record form.

The Engineer evaluates the information presented in the Full and Final Potential Claim Record form and responds within 30 days of its receipt unless the Full and Final Potential Claim Record form is submitted after Contract acceptance, in which case, a response may not be provided. The Engineer's receipt of the Full and Final Potential Claim Record form must be evidenced by postal return receipt or the Engineer's written receipt if delivered by hand.

A claim is waived if:

1. Claim does not have a corresponding Full and Final Potential Claim Record form identification number
2. Claim does not have the same nature, circumstances, and basis of the claim as the corresponding Full and Final Potential Claim Record form
3. Claim is not included in the claim statement
4. You do not comply with the claim procedures
5. You do not submit the declaration stated above
6. Failure to allow timely access to the supporting data for a claim when requested

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48. **Environmental and Toxic Warranty**

Contractor warrants that its operations concerning the Project are not and will not be in violation of any applicable federal, state, or local environmental statute, law, or regulation dealing with hazardous materials substances or toxic substances.

49. **Guarantee**

**Final Guarantee:** Contractor shall guarantee all materials and equipment furnished and work performed for a period of one (1) year. Contractor warrants and guarantees for a period of one (1) year from the date of Acceptance of the Work that the Work is free from all defects due to faulty materials or workmanship and Contractor shall promptly make such corrections as may be necessary, including repairs of any damage to other parts of the Work resulting from such defects. County will give notice of observed defects with reasonable promptness. In the event that Contractor should fail to make such repairs, adjustments, or other work that may be made necessary by such defects, County may do so and charge Contractor the cost thereby incurred.

**Extended Guarantees:** If a guaranty exceeding one (1) year is provided by the supplier or manufacturer of any equipment or materials used in this Project, 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.

**Warranty:** Contractor warrants to County that materials and equipment furnished under the Contract will be of good quality and new, unless otherwise required or permitted by the Contract, 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 of the Contract. Work not conforming to these requirements, including substitutions not properly approved and authorized, shall be considered defective.

If within one (1) year from the date of the Acceptance of the Work or such longer period of time as may be prescribed by law or regulations or by the terms of any applicable special guarantee required by the contract documents, any work is found to be defective, Contractor shall promptly, without cost to County and in accordance with County's written instruction, correct such defective work. If work is rejected by County, defective material or work will be removed from site and replaced with non-defective materials or work. If Contractor is unable to promptly and properly correct any defective work, County may at its option have the work corrected by such other means as County deems appropriate and hold Contractor liable for all direct, indirect and consequential costs caused by such defective work. Said warranty shall apply to all work found to be "defective" which is attributable to the quality or quantity of the materials used, the quality of the workmanship or for performance of the Contract.

50. **Notice**

Any notice or other correspondence required to be given under this Agreement by either party to the other may be affected by personal delivery in writing or by mail, postage prepaid. Notices personally delivered during normal business hours shall be deemed received on the actual date of delivery; mailed notices shall be deemed received one (1) day after affixed postmark. Notices and correspondence to County shall be in duplicate and shall be delivered to it as follows:

To County:

County of El Dorado  
Department of Transportation  
2441 Headington Road  
Placerville, California 95667

With a Copy To:

County of El Dorado  
Chief Administrative Office  
2850 Fairlane Court  
Placerville, California 95667

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Attn.: Brian Mullens, Deputy Director-  
Maintenance and Operations Unit

Attn.: Michele Weimer  
Purchasing Agent  
Contracts and Procurement Unit

Notices and correspondence to Contractor shall be delivered when personally delivered to, or if mailed, addressed to Contractor at:

Doug Veerkamp General Engineering, Inc.  
2585 Cold Springs Road  
Placerville, CA 95667

Either party may change its address for notices or for its principal place of business by giving written notice pursuant to this Article.

**51. Change of Address**

In the event of a change in address for Contractor's principal place of business, Contractor's Agent for Service of Process, or Notices to Contractor, Contractor shall notify County in writing as provided in Article 47, Notice. Said notice shall become part of this Agreement upon acknowledgment in writing by County's Contract Administrator, and no further amendment of the Agreement shall be necessary provided that such change of address does not conflict with any other provisions of this Agreement.

**52. Drug-Free Workplace**

Contractor shall comply with Government Code section 8355.

**53. California Residency (Form 590)**

All independent Contractors providing services to County must file a State of California Form 590, certifying their California residency or, in the case of a corporation, certifying that they have a permanent place of business in California. Contractor will be required to submit a Form 590. This requirement applies to any Agreement/Contract exceeding \$1,500.00.

**54. Nonresident Withholding**

If Contractor is not a California resident, Contractor shall provide documentation that the State of California has granted a withholding exemption or authorized reduced withholding prior to execution of this Agreement or County shall withhold seven (7%) percent of each payment made to the Contractor during term of the Agreement as required by law. This requirement applies to any agreement/contract exceeding \$1,500.00. Contractor shall indemnify and hold County harmless for any action taken by the California Franchise Tax Board.

**55. County Payee Data Record Form**

All independent contractors or corporations providing services to County must file a County Payee Data Record Form with County.

**56. Taxes**

Contractor certifies that as of today's date, it is not in default on any unsecured property taxes or other taxes or fees owed by Consultant to County. Contractor agrees that it shall not default on any obligations to County during the term of this Agreement.



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**57. Venue**

The Contract Documents and all provisions thereto shall be governed by the laws of the State of California. Any litigation arising herein shall be brought in the County of El Dorado.

**58. Contract Administrator**

The County Officer or employee with responsibility for administering this Agreement is Brian Mullens, Deputy Director, Department of Transportation, or successor.

**59. Authorized Signatures**

The parties to this Agreement warrant and represent that the undersigned individuals executing this Agreement on their respective behalves are fully authorized to do so by law or other appropriate instrument and to bind upon said parties the obligations set forth herein.

**60. Partial Invalidity**

If any provision, part of a provision, sentence, or word of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions, parts of provisions, sentences, and words will continue in full force and effect without being impaired or invalidated in any way.

**61. No Third Party Beneficiaries**

Nothing in this Agreement is intended, nor will be deemed, to confer rights or remedies upon any person or legal entity not a party to this Agreement.

**62. Counterparts**

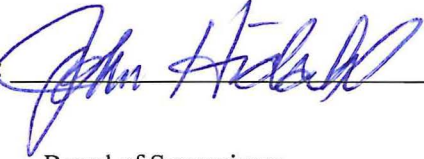
This Agreement may be executed in one or more counterparts, each of which shall be an original and all of which together shall constitute one and the same instrument.

**63. Entire Agreement**

This document and the documents referred to herein or exhibits hereto are the entire Agreement between the parties and they incorporate or supersede all prior written or oral agreements or understandings.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the dates indicated below, the latest of which shall be deemed to be the effective date of this Agreement.

-- COUNTY OF EL DORADO --

By:   
Board of Supervisors  
"County"

Dated: 6/22/21

Attest:

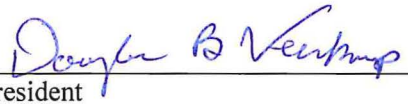
Clerk of the Board of Supervisors

By: 

Dated: 6/22/21

-- CONTRACTOR --

Dated: 6/9/2021      440233      68-0462256  
License No.      Federal Employee Identification Number

By:   
President

By:   
Corporate Secretary

NOTE: If Contractor is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officer or officers authorized to sign Contracts on behalf of the corporation; if Contractor is a co-partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign Contracts on behalf of the co-partnership; and if Contractor is an individual, his/her signature shall be placed above. Contractor executing this document on behalf of a corporation or partnership shall be prepared to demonstrate by resolution, article, or otherwise that it is appropriately authorized to act in these regards. For such corporation or partnership, such authority shall be demonstrated to the satisfaction of County. If signature is by an agent, other than officer of a corporation or a member of a partnership, an appropriate Power of Attorney shall be on file with the County prior to signing this document.

Mailing Address: 2585 Cold Springs Rd., Placerville, CA 95667

Business Address: 2585 Cold Springs Rd., Placerville, CA 95667

Email Address: eric.wunschel@dougveerkamp.com

Phone: 530-676-0825      Fax: 530-676-0826

EXHIBIT A

2021 VARIOUS WEST SLOPE PAVEMENT REHABILITATION PROJECTS  
CONTRACT NO. 5513

CONTRACTOR'S BID AND BID PRICE SCHEDULE

BASE BID – SCHEDULE A

ITEM NO.		ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (IN FIGURES)	ITEM TOTAL (IN FIGURES)
1	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$9,000.00	\$9,000.00
2	130100	JOB SITE MANAGEMENT	LS	1	\$1,340.00	\$1,340.00
3	390132	HOT MIX ASPHALT (TYPE A)	TON	1,146	\$122.00	\$139,812.00
4	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQFT	91,483	\$0.32	\$29,274.56
TOTAL FOR BASE BID – SCHEDULE A						\$179,426.56

BASE BID – SCHEDULE B

ITEM NO.		ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (IN FIGURES)	ITEM TOTAL (IN FIGURES)
5	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$12,900.00	\$12,900.00
6	130100	JOB SITE MANAGEMENT	LS	1	\$1,340.00	\$1,340.00
7	390132	HOT MIX ASPHALT (TYPE A)	TON	1,264	\$133.00	\$168,112.00
8	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQFT	100,846	\$0.47	\$47,397.62
9	780260	RAISE WATER VALVE	EACH	2	\$556.00	\$1,112.00
10	780260	LOWER WATER VALVE	EACH	2	\$478.00	\$956.00
11	780260	RAISE AT&T MANHOLE	EACH	1	\$989.00	\$989.00
12	780260	LOWER AT&T MANHOLE	EACH	1	\$607.00	\$607.00
TOTAL FOR BASE BID – SCHEDULE B						\$233,413.62

**BASE BID – SCHEDULE C**

ITEM NO.		ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (IN FIGURES)	ITEM TOTAL (IN FIGURES)
13	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$9,040.00	\$9,040.00
14	130100	JOB SITE MANAGEMENT	LS	1	\$1,340.00	\$1,340.00
15	390132	HOT MIX ASPHALT (TYPE A)	TON	813	\$143.00	\$116,259.00
16	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQFT	64,016	\$0.47	\$30,087.52
<b>TOTAL FOR BASE BID – SCHEDULE C</b>						\$156,726.52

**BASE BID – SCHEDULE D**

ITEM NO.		ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (IN FIGURES)	ITEM TOTAL (IN FIGURES)
17	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$7,888.00	\$7,888.00
18	130100	JOB SITE MANAGEMENT	LS	1	\$1,700.00	\$1,700.00
19	390132	HOT MIX ASPHALT (TYPE A)	TON	1,625	\$136.00	\$221,000.00
20	398200	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQFT	129,726	\$0.27	\$35,026.02
<b>TOTAL FOR BASE BID – SCHEDULE D</b>						\$265,602.02

**BASE BID – SCHEDULE E**

ITEM NO.		ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT PRICE (IN FIGURES)	ITEM TOTAL (IN FIGURES)
21	120100	TRAFFIC CONTROL SYSTEM	LS	1	\$2,730.00	\$2,730.00
22	130100	JOB SITE MANAGEMENT	LS	1	\$1,340.00	\$1,340.00
23	731627	ADA CURB RAMPS	EACH	44	\$7,510.00	\$330,440.00
<b>TOTAL FOR BASE BID – SCHEDULE E</b>						\$334,510.00
<b>TOTAL FOR SCHEDULES A, B, C, D AND E</b>						<b>\$1,169,682.72</b>

## **EXHIBIT B PROJECT SCOPE AND SPECIFICATIONS**

### **SCOPE OF WORK**

**The work, in general, includes the following:**

- Contractor must provide all necessary construction services, including, but not limited to procurement, permitting, as-built drawings for ADA curb ramps, and clean-up; and must furnish all necessary materials, equipment, supervision, labor, and services required to complete the project, as provided in the Contract Documents.
- Five (5) day advance notification on each affected roadway. Advance notification includes placing Red and White Standard *No Parking* signs with a description of the work hours on Type II barricades every 50 feet on each affected roadway;
- Coordination with adjacent projects;
- All work required to provide traffic control (reversing controls) in accordance with the most current requirements of the Manual of Uniform Traffic Control Devices (MUTCD);
- All work required to provide for temporary water pollution control;
- All work required to provide for dust control;
- All work required to remove 0.167-feet of existing hot mix asphalt concrete pavement and replace with 0.167-feet of compacted hot mix asphalt (Type A) concrete pavement as described below; and
- All work required to bring intersections up to full ADA standards—as stated in Section 8 – ADA Curb Ramps, below.
- **ORDER OF WORK:** Work must be completed in the following order for the following roads. All other work can be completed in any order.
  1. Sawmill
  2. Carson Road
  3. Greenstone Road/Greenstone Cutoff Road
  4. Mosquito Road

The dimensions of each roadway section are listed in Exhibit B. Exhibit D shows the approximate locations of the roadway sections requiring removal and replacement.

### **PROJECT SPECIFICATIONS**

#### **1 - Control of Work**

##### **1.1 Definitions**

ADA Standards: means all applicable requirements of Titles II and III of the Americans with Disabilities Act (42 USC §§ 12131 – 12189) (ADA) for the construction of curb ramps, including all implementing regulations (28 CFR 35.151(e)) and the Americans with Disabilities Act Guidelines (<https://www.access-board.gov/ada/>).

Meeting: includes a meeting in which some or all of the participants are not physically present but take part by electronic communications such as telephone, closed-circuit television, Internet text, audio, or other audiovisual means.

Signature: includes an electronic or digital signature.

### **1.2 Summary**

Occupy the roadway only for purposes necessary to perform the work.

There is no County-owned property available for Contractor's use for this Contract.

During the progress of the Work under this Contract, other road projects may be in progress at or near the job site of this Contract.

You must coordinate your operations with the adjacent projects such that the requirements of this Contract are maintained.

## **2 - Start of Job Site Activities**

### **2.1 Summary**

Submit a notice to the County five (5) days before starting job site activities. Provide notification to each affected resident as described above. Project working hours are Monday – Friday between 7:00 am and 7:00 pm.

The County may assess liquidated damages in accordance with Government Code Section 53069.85 and Public Contract Code 7203 if the County determines the reason(s) for delay in completion of the Project were within your control. Liquidated damages in the amount of \$3,500 per calendar day for each and every calendar days delay in finishing the work in excess of the number of calendar days prescribed herein; and the Contractor agrees to pay the liquidated damages herein provided for, and further agrees the County may deduct the amount thereof from any moneys dues or that may become due Contractor under the Contract.

## **3 - Temporary Traffic Controls**

### **3.1 Summary**

It is your responsibility to maintain a safe passage for the traveling public and any emergency responders through the Project site.

Perform all temporary traffic controls in accordance with the most current requirements of the Manual of Uniform Traffic Control Devices (MUTCD).

You must submit a Traffic Control Plan for review and approval. Your Traffic Control Plan must address each type of temporary traffic control system that will be used. Your Traffic Control Plan must include detailed controls, including but not limited to flaggers, lane closures, PCMS boards, and signs, as applicable. Your Traffic Control Plan must include signing required on intersecting streets and driveways within the area that will require traffic control as required and must address traffic control related to access to driveways for all residences.

Submit your Traffic Control Plan as early as ten (10) working days after the receipt of the Notice of Award but no later than five (5) working days after notice of Contact approval. No work will start on County roads until the Traffic Control Plan is approved. Violation of the Traffic Control requirements is justification for the Engineer to stop work until the requirements are met.

Contract working hours are between the hours of 7:00 am and 7:00 pm on Mondays - Fridays, unless otherwise authorized. Reversing controls are allowed on local roads between 7:00 am and 7:00 pm on Mondays - Fridays. During reversing controls, provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel.

Minor deviations, including modifications to working hours and days, may be proposed to the County for review and approval. Do not proceed with proposed deviations without first receiving approval from the County.

You must remove the components of the traffic control system for stationary lane closures from the traveled way and shoulder when no work is being performed.

### **3.2 Payment**

Payment for all costs associated with installing, operating, and maintaining temporary traffic controls, including cones, signs, flaggers, the Traffic Control Plan, advance notification, etc. is provided for under the bid item for Traffic Control System.

## **4 - Temporary Water Pollution Controls - Storm Water Pollution Prevention Plan**

### **4.1 Summary**

Discharges of storm water from the project must comply with NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002) as amended by Order No. 2010-0014-DWQ and Order No. 2012 -0006-DWQ referred to herein as "Permit." The Permit may be viewed at the Web site for the State Water Resources Control Board, Board Decisions.

Prepare water pollution control program includes developing, amending, and implementing the WPCP, providing a WPC Manager, conducting WPC training, and installing, monitoring, inspecting, reporting on, maintaining, and removing and disposing of WPC practices at the job site.

Submit your WPCP ten (10) business days after the receipt of the Notice of Award letter.

#### **4.2 Temporary Erosion Control Plan**

You are required to prepare and submit a Temporary Erosion Control Plan (TECP) that includes the locations and descriptions of erosion control measures and daily clean up measures in compliance with federal, state, and local agency regulations, the Plans, the WPCP, and these special provisions.

Your TECP must show specifically where filter fence, weighted fiber rolls or gravel-filled rolls, and gravel bags will be applied and additional temporary erosion controls required due to your method of operation or required to comply with TRPA and Lahontan permits. Your Plan must also detail specifically what temporary erosion control measures will be applied and where the temporary erosion control measures will be placed in areas used to store materials, equipment, and supplies. Temporary erosion control measures, their implementation, and maintenance must conform to the Plans and the provisions of the WPCP. Submit your Plan as early as ten (10) working days after the receipt of the Notice of Award but no later than five (5) working days after Contract approval.

#### **4.3 Construction**

You are required to furnish, install, maintain, and remove temporary water pollution controls to ensure debris, materials, and non-visible pollutants do not enter the existing storm drain systems, surface waters, or waters of the United States.

Throughout the entire construction period you will be responsible for insuring that no material eroded from the work area leaves the job site via the conveyance system. You must provide adequate sediment barriers at storm drain pipe outlets, drainage inlets, and other collection points and provide adequate erosion control at channels and swales. A fine of \$100/day will be levied against you for each day you delay in responding to the County's request to install new temporary sediment control devices and/or maintain existing temporary sediment control devices.

The drainage inlet protection must be Type 2 or Type 3A, as appropriate for the conditions around the drainage inlet. Weighted fiber rolls are a suitable substitute for gravel filled bags. Gravel-filled bags must be repaired or replaced on the same day damage occurs. Damage to the gravel bag resulting from your vehicles, equipment, or activities will be repaired or replaced at your expense. Gravel-filled bags must be replaced if the bag material or roll material is ruptured or if the yarn has failed, allowing the gravel to spill out.

If you choose to place temporary fiber rolls, they must be temporary rice straw fiber rolls. They must be at least eight inches in diameter and be an Earth Savers wattle as manufactured by R.H. Dyck, Inc. or approved equal or Rice Straw Fiber Roll as manufactured by Kristar or approved equal. If an alternate product is proposed, submit product name, manufacturer, and description to Engineer for review and approval within 5 days of Notice of Award. Wood stakes for securing rice straw fiber rolls must be untreated fir, redwood, cedar, or pine, cut from sound timber, and must be straight and free of loose or unsound knots and other defects which would render them unfit for the purpose intended. Temporary rice straw fiber rolls must be repaired or replaced on the same day damage occurs. Damage to the temporary fiber rolls resulting from your vehicles, equipment, or activities will be repaired at your expense.



If replacement of temporary rice straw fiber rolls is required due to your vehicles, equipment, or activities, replacement will be at your expense.

Weighted fiber rolls or alternatively, gravel-filled rolls may be used only in areas of compacted soil, concrete, or paved surfaces. Installation of the weighted fiber rolls or gravel-filled rolls will be per the manufacturer's recommendations.

The configuration for the use of weighted fiber rolls or gravel-filled rolls at drainage inlets is intended to filter sediment from runoff before the runoff enters inlets.

Weighted fiber rolls or gravel-filled rolls must be maintained to disperse concentrated water runoff and to reduce runoff velocities. Split, torn, or unraveling rolls must be repaired or replaced. Locations where rills and other evidence of concentrated runoff have occurred beneath the rolls must be corrected. Weighted fiber rolls or gravel-filled rolls must be repaired or replaced on the same day damage occurs. Damage to the temporary fiber rolls resulting from your vehicles, equipment, or activities will be repaired at your expense. If replacement of weighted fiber rolls or gravel-filled rolls is required due to your vehicles, equipment, or activities, replacement will be at your expense.

Weighted fiber rolls or, gravel-filled rolls must be a minimum length of 5 feet. Weighted fiber rolls must be eight inches in diameter and consist of a machined mat or blanket of shaved aspen wood curled excelsior with a weighted inner core contained in a photodegradable, extruded, high visibility netting tube with a handle on each end. Eighty percent of the excelsior material must consist of fibers at least 6 inches in length. The fiber roll must be contained in a tubular orange-colored netting knotted at each end made from 85% high-density polyethylene and 14% ethyl vinyl acetate with titanium oxide for UV inhibition.

On-site storage of liquid waste containers will not be allowed.

Cleaning of vehicles or construction equipment will not be allowed within the Project.

Disposal of materials removed from the sweeper must comply with the dust control requirements elsewhere in these specifications.

You must submit a Spill Contingency Plan within five (5) working days after receipt of Contract approval.

Your operations may result in trackout of construction materials. You are responsible for tracking controls. Tracking control applies to streets within the Project as well as streets adjacent to the Project that have the potential to be impacted by tracking from the Work.

#### **4.4 Payment**

Payment for all costs associated with preparing and updating WPCP, furnishing, installing, maintaining, and removing temporary water pollution controls will be provided for under the

bid item for Job Site Management. This work includes developing and implementing the Temporary Erosion Control Plan and the Spill Contingency Plan.

## **5 - Dust Control**

### **5.1 Summary**

You must comply with Rules 223, 223-1, and 223-2 (Dust Rules) of the Rules and Regulations of the El Dorado County Air Quality Management District (AQMD). The Dust Rules can be obtained from AQMD at the following:

360 Fair Lane, Placerville, CA 95667

(530) 621-7501

[www.edcgov.us/Government/AirQualityManagement](http://www.edcgov.us/Government/AirQualityManagement)

### **5.2 Submittals**

Provide an acceptable plan for preventing the generation of dust due to your activities in construction zones, along haul or traveled routes, or in equipment parking zones. Your Dust Control Plan and daily dust control activities will not conflict with requirements of any agency having jurisdiction in the project area. You are required to have a water truck at the job site at all times during construction. Submit your Dust Control Plan as early as ten (10) working days after the receipt of the Notice of Award but no later than five (5) working days after Contract approval. Your Dust Control Plan must be approved by AQMD prior to the start of your work.

In the event the control of dust is not satisfactory to the Engineer, the Engineer will take measures as necessary to insure satisfactory salvage and will deduct the cost of those measures from payments due you. Dust control is a temporary erosion control measure or BMP. A fine of \$100/day will be levied against you for each day you delay in responding to the Engineer's request to implement this temporary erosion control measure.

### **5.3 Payment**

The County does not pay for impacts to your productivity from mitigating dust from your activities.

Payment for all costs associated with providing dust control measures, including preparing, obtaining approval, and maintaining all dust control records, will be provided for under the bid item for Job Site Management.

## **6 – Cold Plane Asphalt Concrete**

### **6.1 Summary**

You will cold plane 0.167-feet of existing hot mix asphalt surfacing in each section of roadway as shown in Exhibit B and listed in the bid and bid schedule.

Cold planing asphalt concrete pavement includes the removal of pavement markers, traffic stripes, and pavement markings within the area of cold planing.

All material removed, including grindings, become property of the Contractor and must be completely removed from the Project locations.

## **6.2 Construction**

Do not use a heating device to soften the pavement.

The cold planing machine must be:

1. Equipped with a cutter head width that matches the planing width unless a wider cutter head is authorized.
2. Equipped with automatic controls for the longitudinal grade and transverse slope of the cutter head and:
  - 2.1. If a ski device is used, it must be at least 30 feet long, rigid, and a 1-piece unit. The entire length must be used in activating the sensor.
  - 2.2. If referencing from existing pavement, the cold planing machine must be controlled by a self-contained grade reference system. The system must be used at or near the centerline of the roadway. On the adjacent pass with the cold planing machine, a joint-matching shoe may be used.
3. Equipped to effectively control dust generated by the planing operation
4. Operated such that no fumes or smoke is produced.

Replace broken, missing, or worn machine teeth.

If you do not complete placing the HMA surfacing before opening the area to traffic, you must:

1. Construct a temporary HMA taper to the level of the existing pavement.
2. Place HMA during the next work shift.
3. Submit a corrective action plan that shows you will complete cold planing and placement of HMA in the same work shift. Do not restart cold planing activities until the corrective action plan is authorized. The County does not pay you for any delays incurred prior to the corrective action plan being authorized.

### **6.2.1 Grade Control and Surface Smoothness**

Install and maintain grade and transverse slope references.

The final cut must result in a neat and uniform surface.

The completed surface of the planed pavement must not vary more than 0.02 foot when measured with a 12-foot straightedge parallel with the centerline. With the straightedge at right angles to the centerline, the transverse slope of the planed surface must not vary more than 0.03 foot.

Where lanes are open to traffic, the drop-off between adjacent lanes must not be more than 0.15 foot.

### **6.2.2 Planed Material**

Remove cold planed material concurrently with planing activities such that the removal does not lag more than 50 feet behind the planer.

### **6.2.3 Temporary HMA Tapers**

If a drop-off between the existing pavement and the planed area at transverse joints cannot be avoided before opening to traffic, construct a temporary HMA taper. The HMA temporary taper must be:

1. Placed to the level of the existing pavement and tapered on a slope of 30:1 (horizontal:vertical) or flatter to the level of the planed area
2. Compacted by any method that will produce a smooth riding surface

HMA for temporary tapers must be of the same quality that is used for the permanent HMA Type A overlay.

Completely remove temporary tapers before placing permanent surfacing.

### **6.3 Payment**

Full compensation for all work associated with cold planing is provided for under the bid item for Cold Plane Asphalt Concrete.

## **7 – Hot Mix Asphalt (HMA)**

### **7.1 Summary**

You will place 0.167-feet of compacted HMA in each section of roadway that has been cold planed. This Project requires production and placement of HMA Type A under the Method construction process.

All HMA work shall be in accordance with the following general specifications for producing and placing HMA by aggregate and asphalt binder at a mixing plant and spreading and compacting the HMA mixture.

#### **7.1.1 Definitions**

binder replacement: Amount of RAP binder in OBC in percent.

coarse aggregate: Aggregate retained on a no. 4 sieve.

fine aggregate: Aggregate passing the no. 4 sieve.

processed RAP: RAP that has been fractionated.

substitution rate: Amount of RAP aggregate substituted for virgin aggregate in percent.

supplemental fine aggregate: Aggregate passing the no. 30 sieve, including hydrated lime, portland cement, and fines from dust collectors.

### **7.2 Materials**

#### **7.2.1 Tack Coat**

Tack coat must comply with the specifications for asphaltic emulsion or asphalts.

You may choose the type and grade. You must submit the type and grade to the County for review and approval prior to use.

You may not dilute the asphaltic emulsion with water.

### **7.2.2 Asphalt Binder**

Asphalt binder must comply with Caltrans' Certification Program for Suppliers of Asphalt. Program requirements, procedures, and a list of authorized material sources is online at the Caltrans Materials Engineering and Testing Services website: <http://www.dot.ca.gov/hq/esc/Translab>.

Asphalt binder used in HMA Type A must be PG 64-16 for Schedules A, B and C. Asphalt binder used in HMA Type A must be PG 64-28 for Schedule D.

It must comply with the requirements in the following table:

Quality Characteristic	Test Method	PG 64-28
Flash point (min, °C)	AASHTO T 48	230
Solubility <sup>b</sup> (min, %)	AASHTO T 44	99
Viscosity at 135 °C <sup>c</sup> (max, Pa·s)	AASHTO T 316	3.0
Dynamic shear Test temperature at 10 rad/s (°C) G*/sin(delta) (min, kPa) G*/sin(delta) (max, kPa)	AASHTO T 315	64 1.00 2.00
RTFO <sup>f</sup> test <sup>e</sup> mass loss (max, %)	AASHTO T 240	1.00
Dynamic shear Test temperature at 10 rad/s (°C) G*/sin(delta) (min, kPa)	AASHTO T 315	64 2.20
Ductility at 25 °C (min, cm)	AASHTO T 51	75
PAV <sup>g</sup> Test temperature (°C)	AASHTO R 28	100
Dynamic shear, Test temperature at 10 rad/s (°C) G* sin(delta) (max, kPa)	AASHTO T 315	22 <sup>d</sup> 5000
Creep stiffness, Test temperature, °C S-value (max, MPa) M-value (min)	AASHTO T 313	-18 300 0.300

<sup>a</sup>Not Applicable - Use as asphalt rubber base stock for high mountain and high desert area.

<sup>b</sup>The Engineer waives solubility requirements if the supplier is an authorized material source as defined by the Department's *Certification Program for Suppliers of Asphalt*.

<sup>c</sup>The Engineer waives this specification if the supplier provides written certification the asphalt binder can be adequately pumped and mixed at temperatures meeting applicable safety standards.

<sup>d</sup>Test the sample at 3 °C higher if it fails at the specified test temperature. G\* sin(delta) remains 5000 kPa maximum.

<sup>e</sup>The residue from mass change determination may be used for other tests.

<sup>f</sup>RTFO means rolling thin film oven.

<sup>g</sup>PAV means Pressure Aging Vessel.

### 7.2.3 Aggregate

Aggregate must be clean and free from deleterious substances.

The specified aggregate gradation must be determined before the addition of asphalt binder and includes supplemental fine aggregate.

Aggregate used in HMA Type A must comply with 1/2-inch HMA Type A gradation.

The proposed aggregate gradation must be within the TV limits for the specified sieve sizes shown in the following tables:

**Aggregate Gradation  
(Percentage Passing)  
HMA Type A**

1/2-inch HMA Type A		
Sieve sizes	TV limits	Allowable tolerance
3/4"	100	—
1/2"	95–99	TV ± 6
3/8"	75–95	TV ± 6
No. 4	55–66	TV ± 7
No. 8	38–49	TV ± 5
No. 30	15–27	TV ± 4
No. 200	2.0–8.0	TV ± 2

Before the addition of asphalt binder and lime treatment, aggregate must have the values for the quality characteristics shown in the following table:

Quality Characteristic	Test Method	HMA Type A
Percent of crushed particles Coarse aggregate (% min.) One fractured face Two fractured faces	California Test 205	90 75
Fine aggregate (% min) (Passing no. 4 sieve and retained on no. 8 sieve.) One fractured face		70
Los Angeles Rattler (% max.) Loss at 100 rev. Loss at 500 rev.		California Test 211
Sand equivalent (min.) <sup>a</sup>	California Test 217	47
Fine aggregate angularity (% min.) <sup>b</sup>	California Test 234	45
Flat and elongated particles (% max. by weight @ 5:1)	California Test 235	10

<sup>a</sup> Reported value must be the average of 3 tests from a single sample.

<sup>b</sup> The Engineer waives this specification if HMA contains 10 percent or less of nonmanufactured sand by weight of total aggregate. Manufactured sand is fine aggregate produced by crushing rock or gravel.

#### **7.2.4 Reclaimed Asphalt Pavement**

You may produce HMA Type A using RAP. HMA produced using RAP must comply with the specifications for HMA, except aggregate quality specifications do not apply to RAP. You may substitute RAP at a substitution rate not exceeding 15 percent of the aggregate blend.

Assign the substitution rate of RAP aggregate for virgin aggregate with the JMF submittal. The JMF must include the percent of RAP used.

Provide enough space for meeting RAP handling requirements at your facility. Provide a clean, graded, well-drained area for stockpiles. Prevent material contamination and segregation.

If RAP is from multiple sources, blend the RAP thoroughly and completely. RAP stockpiles must be homogeneous.

Isolate the processed RAP stockpiles from other materials. Store processed RAP in conical or longitudinal stockpiles. Processed RAP must not be agglomerated or be allowed to congeal in large stockpiles.

#### **7.3 HMA Mix Design Requirements**

The mix design process consists of performing California Test 367 and laboratory procedures on combinations of aggregate gradations and asphalt binder contents to determine the OBC and HMA mixture qualities. The results become the proposed JMF.

Use the *Contractor Hot Mix Asphalt Design Data* form to record aggregate quality and mix design data. Use the *Contractor Job Mix Formula Proposal* form to present the JMF.

Laboratories testing aggregate qualities and preparing the mix design and JMF must be qualified under the Department's Independent Assurance Program. Take samples under California Test 125.

The Engineer reviews the aggregate qualities, mix design, and authorizes the JMF.

##### **7.3.1 HMA Mix Design**

Perform a mix design that produces HMA with the values for the quality characteristics shown in the following table:



Quality Characteristic	Test Method	HMA Type A
Air void content (%)	California Test 367	4.0
Voids in mineral aggregate (% min.)	California Test 367	17.0
No. 4 grading		15.0
3/8" grading		14.0
1/2" grading		13.0
3/4" grading		
Voids filled with asphalt (%)	California Test 367	65.0–75.0
No. 4 grading		65.0–75.0
3/8" grading		65.0–75.0
1/2" grading		65.0–75.0
3/4" grading		65.0–75.0
Dust proportion	California Test 367	0.6–1.2
No. 4 and 3/8" gradings		0.6–1.2
1/2" and 3/4" gradings		0.6–1.2
Stabilometer value (min.)	California Test 366	30
No. 4 and 3/8" gradings		30
1/2" and 3/4" gradings		37

### 7.3.2 Job Mix Formula Submittal

Each JMF submittal must consist of:

1. Proposed JMF on a *Contractor Job Mix Formula Proposal* form
2. Mix design records on a *Contractor Hot Mix Asphalt Design Data* form dated within 12 months of submittal
3. JMF verification on a *Caltrans Hot Mix Asphalt Verification* form, if applicable
4. MSDS for the following:
  - 4.1. Asphalt binder
  - 4.2. Base asphalt binder used in asphalt rubber binder
  - 4.3. CRM and asphalt modifier used in asphalt rubber binder
  - 4.4. Blended asphalt rubber binder mixture
  - 4.5. Supplemental fine aggregate except fines from dust collectors
  - 4.6. Antistrip additives

If the Engineer requests, sample the following materials in the presence of the Engineer and place in labeled containers weighing no more than 50 lb each:

1. Coarse, fine, and supplemental fine aggregate from stockpiles, cold feed belts, or hot bins. Samples must be at least 120 lb for each coarse aggregate, 80 lb for each fine aggregate, and 10 lb for each type of supplemental fines. The Department combines these aggregate samples to comply with the JMF TVs submitted on a *Contractor Job Mix Formula Proposal* form.
2. RAP from stockpiles or RAP system. Samples must be at least 60 lb.

3. Asphalt binder from the binder supplier. Samples must be in two 1-quart cylindrical-shaped cans with open top and friction lids.
4. Asphalt rubber binder with the components blended in the proportions to be used. Samples must be in four 1-quart cylindrical-shaped cans with open top and friction lids.

Notify the Engineer at least 2 business days before sampling materials. For aggregate and RAP, split the samples into at least 4 parts. Submit 3 parts to the Engineer and use 1 part for your testing.

### 7.3.3 Job Mix Formula Review

The County reviews each mix design and proposed JMF within 5 business days from the complete JMF submittal. The review consists of reviewing the mix design procedures and comparing the proposed JMF with the specifications.

The County will not verify a JMF for this Contract.

### 7.3.4 Job Mix Formula Verification

Submit a pre-verified JMF on a *Caltrans Hot Mix Asphalt Verification* form dated within 12 months before HMA production.

Use the OBC specified on your *Contractor Hot Mix Asphalt Design Data* form. No adjustments to asphalt binder content are allowed. Based on your testing and production experience, you may submit an adjusted aggregate gradation TV on a *Contractor Job Mix Formula Proposal* form before verification testing. Aggregate gradation TV must be within the TV limits specified in the aggregate gradation tables.

Asphalt binder set point for HMA must be the OBC specified on your *Contractor Hot Mix Asphalt Design Data* form. When RAP is used, asphalt binder set point for HMA must be:

$$\text{Asphalt Binder Set Point} = \frac{\frac{BC_{OBC}}{\left(1 - \frac{BC_{OBC}}{100}\right)} - R_{RAP} \left[ \frac{BC_{RAP}}{\left(1 - \frac{BC_{RAP}}{100}\right)} \right]}{100 + \frac{BC_{OBC}}{\left(1 - \frac{BC_{OBC}}{100}\right)}}$$

Where:

$BC_{OBC}$  = optimum asphalt binder content, percent based on total weight of mix

$R_{RAP}$  = RAP ratio by weight of aggregate

$BC_{RAP}$  = asphalt binder content of RAP, percent based on total weight of RAP mix

### 7.3.5 Job Mix Formula Acceptance

You may start HMA production if:

1. The Engineer's review of the JMF shows compliance with the specifications.
2. The JMF has been within 12 months before HMA production.
3. The Engineer accepts the verified JMF.

#### **7.4 Contractor Quality Control**

Establish, maintain, and change a quality control system to ensure materials and work comply with the specifications. Submit quality control test results within 3 business days of a request.

You must identify the HMA sampling location and submit this information to the County. During production, take samples under California Test 125. You may sample HMA from:

1. Plant
2. Truck
3. Windrow
4. Paver hopper
5. Mat behind the paver

##### **7.4.1 Prepaving Conference**

Hold a prepaving conference with the County at a mutually agreed time and place. Discuss methods of performing the production and paving work.

#### **7.5 Production**

##### **7.5.1 Production Start-Up Evaluation**

The County evaluates HMA production and placement at production start-up.

Within the first 750 tons produced on the 1st day of HMA production, in the County's presence and from the same production run, take samples of:

1. Aggregate
2. Asphalt binder
3. RAP
4. HMA

Sample aggregate from cold feed belts or hot bins. Take RAP samples from the RAP system. Sample HMA under California Test 125, except if you request and if authorized, you may sample HMA from any of the following locations:

1. Plant
2. Truck
3. Windrow
4. Paver hopper
5. Mat behind the paver

For aggregate, RAP, and HMA, split the samples into at least 4 parts and label their containers. Submit 3 split parts and keep 1 part.

##### **7.5.2 Production**

Produce HMA in a batch mixing plant or a continuous mixing plant. Proportion aggregate by hot or cold feed control.

HMA plants must be pre-qualified by the Caltrans. Before production, the HMA plant must have current qualification under the Caltran’s Materials Plant Quality Program.

During production, you may adjust hot or cold feed proportion controls for virgin aggregate and RAP.

During production, asphalt binder set point for HMA Type A must be the OBC shown in Contractor Hot Mix Asphalt Design Data form. For OGFC, asphalt binder set point must be the OBC shown on Caltrans Hot Mix Asphalt Verification form.

When RAP is used, asphalt binder set point for HMA must be:

$$\text{Asphalt Binder Set Point} = \frac{\frac{BC_{OBC}}{\left(1 - \frac{BC_{OBC}}{100}\right)} - R_{RAP} \left[ \frac{BC_{RAP}}{\left(1 - \frac{BC_{RAP}}{100}\right)} \right]}{100 + \frac{BC_{OBC}}{\left(1 - \frac{BC_{OBC}}{100}\right)}}$$

Where:

$BC_{OBC}$  = optimum asphalt binder content, percent based on total weight of mix

$R_{RAP}$  = RAP ratio by weight of aggregate

$BC_{RAP}$  = asphalt binder content of RAP, percent based on total weight of RAP mix

For RAP substitution rate of 15 percent or less, you may adjust the RAP by -5 percent.

You must request adjustments to the plant asphalt binder set point based on new RAP stockpiles average asphalt binder content. Do not adjust the HMA plant asphalt binder set point until authorized.

### 7.5.3 Mixing

Mix HMA ingredients into a homogeneous mixture of coated aggregates.

Asphalt binder must be from 275 to 375 degrees F when mixed with aggregate.

Asphalt rubber binder must be from 350 to 425 degrees F when mixed with aggregate.

When mixed with asphalt binder, aggregate must not be more than 325 degrees F, except aggregate for OGFC must be not more than 275 degrees F. These aggregate temperature specifications do not apply if you use RAP.

HMA with or without RAP must not be more than 325 degrees F.

### 7.6 Construction

Do not pave HMA on wet pavement or a frozen surface.

You may deposit HMA in a windrow and load it in the paver if:

1. Paver is equipped with a hopper that automatically feeds the screed

2. Loading equipment can pick up the windrowed material and deposit it in the paver hopper without damaging base material
3. Activities for deposit, pickup, loading, and paving are continuous
4. HMA temperature in the windrow does not fall below 260 degrees F

You may place HMA in 1 or more layers on areas less than 5 feet wide and outside the traveled way, including shoulders. You may use mechanical equipment other than a paver for these areas. The equipment must produce uniform smoothness and texture.

HMA handled, spread, or windrowed must not stain the finished surface of any improvement, including pavement.

Do not use petroleum products such as kerosene or diesel fuel to release HMA from trucks, spreaders, or compactors.

HMA must be free of:

1. Segregation
2. Coarse or fine aggregate pockets
3. Hardened lumps

Place additional HMA along the pavement's edge to conform to paved private roads and drives. Hand rake, if necessary, and compact the additional HMA to form a smooth conform taper.

#### **7.6.1 Subgrade and Tack Coat**

Prepare subgrade or apply tack coat to surfaces receiving HMA.

##### **7.6.1.1 Subgrade**

Subgrade to receive HMA must comply with the compaction and elevation tolerance specifications in the sections for the material involved. Subgrade must be free of loose and extraneous material. If HMA is paved on existing base or pavement, remove loose paving particles, dirt, and other extraneous material by any means including flushing and sweeping.

##### **7.6.1.2 Tack Coat**

Apply tack coat:

1. To existing pavement, including planed surfaces
2. Between HMA layers
3. To vertical surfaces of:
  - 3.1. Curbs
  - 3.2. Gutters
  - 3.3. Construction joints

Before placing HMA, apply tack coat in 1 application. The application rate must be the minimum residual rate specified for the underlying surface conditions shown in the following tables:

### Tack Coat Application Rates for HMA Type A

HMA overlay over:	Minimum residual rates (gal/sq yd)		
	CSS1/CSS1h, SS1/SS1h and QS1h/CQS1h asphaltic emulsion	CRS1/CRS2, RS1/RS2 and QS1/CQS1 asphaltic emulsion	Asphalt binder and PMRS2/PMCRS2 and PMRS2h/PMCRS2h asphaltic emulsion
New HMA (between layers)	0.02	0.03	0.02
PCC and existing HMA (AC) surfaces	0.03	0.04	0.03
Planed PCC and HMA (AC) surfaces	0.05	0.06	0.04

For vertical surfaces, apply a residual tack coat rate that will thoroughly coat the vertical face without running off.

If you request and if authorized, you may:

1. Change tack coat rates
2. Omit tack coat between layers of new HMA during the same work shift if:
  - 2.1. No dust, dirt, or extraneous material is present
  - 2.2. Surface is at least 140 degrees F

Immediately in advance of placing HMA, apply additional tack coat to damaged areas or where loose or extraneous material is removed.

Close areas receiving tack coat to traffic. Do not track tack coat onto pavement surfaces beyond the job site.

Asphalt binder tack coat must be from 285 to 350 degrees F when applied.

#### 7.6.2 Longitudinal Joints

Longitudinal joints in the top layer must match specified lane edges. Alternate the longitudinal joint offsets in the lower layers at least 0.5 foot from each side of the specified lane edges. You may request other longitudinal joint placement patterns.

A vertical longitudinal joint of more than 0.15 ft is not allowed at any time between adjacent lanes open to traffic.

Place HMA on adjacent traveled way lanes so that at the end of each work shift the distance between the ends of HMA layers on adjacent lanes is from 5 to 10 feet. Place additional HMA along the transverse edge at each lane's end and along the exposed longitudinal edges between adjacent lanes. Hand rake and compact the additional HMA to form temporary conforms. You may place Kraft paper or another authorized bond breaker under the conform tapers to facilitate the taper removal when paving operations resume.

Pave shoulders and median borders adjacent to the lane before opening a lane to traffic.

### **7.6.3 Spreading and Compacting**

Paving equipment for spreading must be:

1. Self-propelled
2. Mechanical
3. Equipped with a screed or strike-off assembly that can distribute HMA the full width of a traffic lane
4. Equipped with a full-width compacting device
5. Equipped with automatic screed controls and sensing devices that control the thickness, longitudinal grade, and transverse screed slope

Install and maintain grade and slope references.

The screed must produce a uniform HMA surface texture without tearing, shoving, or gouging.

The paver must not leave marks such as ridges and indentations, unless you can eliminate them by rolling.

Rollers must be equipped with a system that prevents HMA from sticking to the wheels. You may use a parting agent that does not damage the HMA or impede the bonding of layers.

In areas inaccessible to spreading and compacting equipment:

1. Spread the HMA by any means to obtain the specified lines, grades, and cross sections.
2. Use a pneumatic tamper, plate compactor, or equivalent to achieve thorough compaction.

Each paver spreading HMA Type A must be followed by 3 rollers as follows:

1. One vibratory roller specifically designed to compact HMA. The roller must be capable of at least 2,500 vibrations per minute and must be equipped with amplitude and frequency controls. The roller's gross static weight must be at least 7.5 tons.
2. One oscillating type pneumatic-tired roller at least 4 feet wide. Pneumatic tires must be of equal size, diameter, type, and ply. The tires must be inflated to 60 psi minimum and maintained so that the air pressure does not vary more than 5 psi.
3. One steel-tired, 2-axle tandem roller. The roller's gross static weight must be at least 7.5 tons.

Each roller must have a separate operator. Rollers must be self-propelled and reversible.

### **7.7 Transporting, Spreading, and Compacting**

Pave HMA in maximum 0.25-foot thick and minimum 0.15-foot thick compacted layers.

If the surface to be paved is both in sunlight and shade, pavement surface temperatures must be taken in the shade.

Spread HMA Type A at the atmospheric and surface temperatures shown in the following table:

**Minimum Atmospheric and Surface Temperatures**

Compacted layer thickness, feet	Atmospheric, °F		Surface, °F	
	Unmodified asphalt binder	Modified asphalt binder <sup>a</sup>	Unmodified asphalt binder	Modified asphalt binder <sup>a</sup>
	< 0.15	55	50	60
0.15–0.25	45	45	50	50

<sup>a</sup> Except asphalt rubber binder.

If the asphalt binder for HMA Type A and Type B is unmodified asphalt binder, complete:

1. First coverage of breakdown compaction before the surface temperature drops below 250 degrees F
2. Breakdown and intermediate compaction before the surface temperature drops below 200 degrees F
3. Finish compaction before the surface temperature drops below 150 degrees F

If the asphalt binder for HMA Type A and Type B is modified asphalt binder, complete:

1. First coverage of breakdown compaction before the surface temperature drops below 240 degrees F
2. Breakdown and intermediate compaction before the surface temperature drops below 180 degrees F
3. Finish compaction before the surface temperature drops below 140 degrees F

HMA compaction coverage is the number of passes needed to cover the paving width. A pass is 1 roller's movement parallel to the paving in either direction. Overlapping passes are part of the coverage being made and are not a subsequent coverage. Do not start a coverage until completing the prior coverage.

Start rolling at the lower edge and progress toward the highest part.

Perform breakdown compaction of each layer of HMA Type A with 3 coverages using a vibratory roller. The speed of the vibratory roller in miles per hour must not exceed the vibrations per minute divided by 1,000. If the thickness of the HMA layer is less than 0.08 foot, turn the vibrator off. The Engineer may order fewer coverages if the thickness of the HMA layer is less than 0.15 foot.

Perform intermediate compaction of each layer of HMA Type A with 3 coverages using a pneumatic-tired roller at a speed not exceeding 5 mph.

Perform finish compaction of HMA Type A with 1 coverage using a steel-tired roller.

**7.7.1 Smoothness - Straightedge**

The top layer of HMA pavement must not vary from the lower edge of a 12-foot straightedge:

1. More than 0.01 foot when the straightedge is laid parallel with the centerline
2. More than 0.02 foot when the straightedge is laid perpendicular to the centerline and extends from edge to edge of a traffic lane



3. More than 0.02 foot when the straightedge is laid within 24 feet of a pavement conform

### **7.7.2 Acceptance Criteria**

The County samples materials for testing under California Test 125 and the applicable test method, except samples may be taken:

1. At the plant from a truck or an automatic sampling device
2. From the mat behind the paver

If you request, the Department splits samples and provides you with a part. HMA acceptance is based on:

1. Authorized JMF
2. Compliance with the HMA acceptance (table below)
3. Visual inspection

### **7.7.3 Dispute Resolution**

Work with the County to avoid potential conflicts and to resolve disputes regarding test result discrepancies. Notify the Engineer within 5 business days of receiving a test result if you dispute the test result.

If you or the County dispute each other's test results, submit quality control test results and copies of paperwork including worksheets used to determine the disputed test results. An independent third party performs referee testing. Before the independent third party participates in a dispute resolution, the party must be accredited under the Department's Independent Assurance Program. The independent third party must be independent of the project. By mutual agreement, the independent third party is chosen from:

1. Caltrans laboratory
2. Caltrans laboratory in a district or region not in the district or region the project is located
3. Laboratory not currently employed by you or your HMA producer

If split quality control or acceptance samples are not available, the independent third party uses any available material representing the disputed HMA for evaluation.

The County samples for acceptance testing and tests for the quality characteristics shown in the following table:

Quality Characteristic	Test Method	HMA Type A
Aggregate gradation <sup>a</sup>	California Test 202	JMF ± tolerance <sup>b</sup>
Sand equivalent (min) <sup>c</sup>	California Test 217	47
Asphalt binder content (%)	California Test 379 or 382	JMF±0.40
HMA moisture content (% max)	California Test 226 or 370	1.0
Stabilometer value (min) <sup>c</sup> No. 4 and 3/8" gradings 1/2" and 3/4" gradings	California Test 366	30 37
Percent of crushed particles Coarse aggregate (% min) One fractured face Two fractured faces Fine aggregate (% min) (Passing no. 4 sieve and retained on no. 8 sieve.) One fractured face	California Test 205	90 75  70
Los Angeles Rattler (% max) Loss at 100 rev. Loss at 500 rev.	California Test 211	12 45
Air void content (%) <sup>c, d</sup>	California Test 367	4 ± 2
Fine aggregate angularity (% min) <sup>e</sup>	California Test 234	45
Flat and elongated particles (% max by weight @ 5:1)	California Test 235	Report only
Voids filled with asphalt (%) <sup>f</sup> No. 4 grading 3/8" grading 1/2" grading 3/4" grading	California Test 367	65.0–75.0 65.0–75.0 65.0–75.0 65.0–75.0
Voids in mineral aggregate (% min) <sup>f</sup> No. 4 grading 3/8" grading 1/2" grading 3/4" grading	California Test 367	17.0 15.0 14.0 13.0
Dust proportion <sup>f</sup> No. 4 and 3/8" gradings 1/2" and 3/4" gradings	California Test 367	0.6–1.2 0.6–1.2

Moisture susceptibility (minimum dry strength, psi) <sup>g</sup>	California Test 371	120
Moisture susceptibility (tensile strength ration, %) <sup>g</sup>	California Test 371	70
Smoothness	Section 39-1.12	12-foot straight-edge and must-grind
Asphalt binder	Various	Section 92
Asphalt rubber binder	Various	--
Asphalt modifier	Various	--
CRM	Various	--

a The Engineer determines combined aggregate gradations containing RAP under California Test 367.

b The tolerances must comply with the allowable tolerances in section 39-1.02E.

c The Engineer reports the average of 3 tests from a single split sample.

d The Engineer determines the bulk specific gravity of each lab-compacted briquette under California Test 308, Method A, and theoretical maximum specific gravity under California Test 309.

e The Engineer waives this specification if HMA contains 10 percent or less of non-manufactured sand by weight of total aggregate. Manufactured sand is fine aggregate produced by crushing rock or gravel.

f Report only.

g Applies to RAP substitution rate greater than 15 percent.

No single test result may represent more than 750 tons or 1 day's production, whichever is less.

For any single quality characteristic except smoothness, if 2 consecutive acceptance test results do not comply with the specifications:

1. Stop production.
2. Take corrective action.
3. Take samples and split each sample into 4 parts in the Engineer's presence. Test 1 part for compliance with the specifications and submit 3 parts to the Engineer. The Department tests 1 part for compliance with the specifications and reserves and stores 2 parts.
4. Demonstrate compliance with the specifications before resuming production and placement.

## 7.8 Payment

The weight of each HMA mixture designated in the bid item list must be the combined mixture weight.

If recorded batch weights are printed automatically, the bid item for HMA is measured by using the printed batch weights, provided:

1. Total aggregate and supplemental fine aggregate weight per batch is printed. If supplemental fine aggregate is weighed cumulatively with the aggregate, the total aggregate batch weight must include the supplemental fine aggregate weight.
2. Total asphalt binder weight per batch is printed.
3. Each truckload's zero tolerance weight is printed before weighing the 1st batch and after weighing the last batch.
4. Time, date, mix number, load number, and truck identification is correlated with a load slip.

5. Copy of the recorded batch weights is certified by a licensed weighmaster and submitted to the Engineer.

The Department does not adjust the unit price for an increase or decrease in the tack coat quantity.

If the dispute resolution independent third party determines the Department's test results are correct, the Engineer deducts the independent third party's testing costs from payments. If the independent third party determines your test results are correct, the Department pays the independent third party's testing costs.

Full compensation for all work associated with HMA, including furnishing, placing, testing, etc., is provided for under the bid item for Hot Mix Asphalt (Type A).

### **7.9 – Mobilization**

Payment for mobilization is included in the various items of work and no additional compensation will be allowed.

## **8 – ADA Curb Ramps**

### **8.1 – Summary**

Contractor will be responsible for providing all work necessary to construct curb ramps that are compliant with all applicable ADA standards (ADA curb ramps) at the locations shown in Exhibit D. All ADA curb ramps must comply with the 2018 Caltrans Standard Plans located in Exhibit D. Without limiting the generality of the Contract requirements, Contractor must provide the following work services:

- a. Contractor will provide, install and complete as specified and pay for all labor, materials and equipment, tools, supplies, construction equipment and machinery, construction, start-up and testing, utilities, transportation, and other facilities and services (including any temporary materials, utility relocation, equipment, supplies and facilities) necessary for the proper execution and completion of the Project.
- b. Contractor will supervise and direct the work performed by all its Subcontractors and Sub-consultants and will at all times be fully responsible and liable for the performance and completion of their work to the same extent as if directly performed by Contractor.
- c. Contractor will obtain all jurisdictional agency and private approvals, licenses, and permits required to complete the Work. Contractor will perform the Work in compliance with all applicable laws, codes and standards, both public and private, including but not limited to, the standards included and warranties expressed in the Contract Documents and manufacturer's recommendations pertaining to individual items of equipment or systems.

- d. Contractor agrees to perform additional work on the project arising from changes ordered by the County pursuant to this Contract.
- e. Contractor will provide to County a set of as-built plans for the ADA curb ramps within 10 business days after construction of the ADA curb ramps are complete. Contractor must include an index sheet and organize the drawings in the number order shown on the index sheet. Contractor must show on all as-built plans the final dimensions and grades of each ADA curb ramp.

## **8.2 – Design Standards**

All curb ramps within the Project area must be replaced to current ADA standards. Contractor will field fit all curb ramps to meet the Caltrans Standard Plans included in Exhibit D. All design standards must comply with Caltrans 2018 Standard Plans, included in Exhibit D. If any curb ramps will not meet current ADA standards, Contractor will be responsible for notifying County prior to beginning work on that curb ramp.

## **8.3 – Submittals**

As-built documents must be submitted to County within 10 business days after construction of the curb ramps is complete.

## **8.4 – Construction**

All concrete curb ramp construction must conform to Section 73 and any referenced section of the 2018 Caltrans Standard Specifications.

Removing existing concrete must comply with Sections 15-1.03B and 73 of the 2018 Caltrans Standard Specifications.

Replace curb ramp in its existing location.

Remove existing concrete only as needed for replacement of curb ramp. If limits of removal of existing concrete (including monolithic concrete elements) is less than 5-feet from an existing joint, remove concrete up to nearest joint. If removal of existing concrete is greater than 5-feet to the nearest joint, you may saw cut existing concrete and create a joint. Any new joints must not be less than 5-feet to an existing joint. Saw cut a true line at least 1 inch deep before concrete removal.

## **8.5 – Payment**

Full compensation for the bid item ADA Curb Ramps includes all construction work including all removal, disposal, and installation of new ramps, preparation and submittal of as-builts at the price shown on the Contractor's Bid and Bid Price Schedule (Exhibit A).

**Exhibit C  
Grind and Replace Locations**

Base Bid -							
Schedule A - Mosquito Road							
Item No.	Road	Width (ft)	Length (ft)	Depth (tenths)	Area (SQFT)	Tons	Markers
1	Mosquito Road	352	20	0.167	7040	88.2	
2	Mosquito Road	625	23	0.167	14375	180	
3	Mosquito Road	2513	22	0.167	55286	692.5	
4	Mosquito Road	118	24	0.167	2832	35.5	
5	Mosquito Road	350	20	0.167	7000	87.7	
6	Mosquito Road	225	22	0.167	4950	62	
<b>Schedule A Total</b>					<b>91,483</b>	<b>1,145.90</b>	
Schedule B - Carson Road							
Item No.	Road	Width (ft)	Length (ft)	Depth (tenths)	Area (SQFT)	Tons	Markers
1	Carson	12	48	0.167	576	7.2	Barkley
2	Carson	18	377	0.167	6786	85	Chevron
3	Carson	17	262	0.167	4454	55.8	
4	Carson	17	840	0.167	14280	178.9	
5	Carson	36	200	0.167	7200	90.2	
6	Carson	18	484	0.167	8712	109.1	
7	Carson	17	184	0.167	3128	39.2	
8A	Carson	13	231	0.167	3003	37.6	Hwy 50 @ Carson Intersection has varying widths
8B	Carson	23	113	0.167	2599	32.6	Hwy 50 @ Carson Intersection has varying widths
8C	Carson	17	45	0.167	765	9.6	Hwy 50 @ Carson Intersection has varying widths
9	Carson	12	160	0.167	1920	24	
10	Carson	12	184	0.167	2208	27.7	High Hill
11	Carson	12	40	0.167	480	6	
12	Carson	14	190	0.167	2660	33.3	Carson Ridge Tree Farm
13	Carson	11.5	93	0.167	1069.5	13.4	
14	Carson	12	415	0.167	4980	62.4	
15	Carson	12	71	0.167	852	10.7	Boa Vista
16	Carson	12	231	0.167	2772	34.7	
17	Carson	12	274	0.167	3288	41.2	
18	Carson	29	452	0.167	13108	164.2	Union Ridge
19	Carson	27	462	0.167	12474	156.2	
20	Carson	11	133	0.167	1463	18.3	
21	Carson	11	61	0.167	671	8.4	
22	Carson	11	63	0.167	693	8.7	
23	Carson	11	64	0.167	704	8.8	Jacquier Rd
<b>Schedule B Total</b>					<b>100,846</b>	<b>1,263.20</b>	
Schedule C - Greenstone Area							
Item No.	Road	Width (ft)	Length (ft)	Depth (tenths)	Area (SQFT)	Tons	Markers
1	Greenstone	12.5	66	0.167	825	10.3	Buck Mt Road
2	Greenstone	14	299	0.167	4186	52.4	Grassy Run
3	Greenstone	14	163	0.167	2282	28.6	
4	Greenstone	13.5	299	0.167	4036.5	50.6	Hwy 50
5	Greenstone	14	596	0.167	8344	104.5	
6	Greenstone	12	177	0.167	2124	26.6	
7	Greenstone	13.5	374	0.167	5049	63.2	
8	Greenstone	12.5	216	0.167	2700	33.8	
9	Greenstone	14	276	0.167	3864	48.4	
10	Greenstone	12	113	0.167	1356	17	
11	Greenstone	12	84	0.167	1008	12.6	
12	Greenstone	13.5	34	0.167	459	5.7	
13	Greenstone	13	44	0.167	572	7.2	
14	Greenstone	12	95	0.167	1140	14.3	
15	Greenstone	13	140	0.167	1820	22.8	
16	Greenstone	12	107	0.167	1284	16.1	
17	Greenstone	12	487	0.167	5844	73.2	Studebaker Road
18	Greenstone	12	87	0.167	1044	13.1	
19	Greenstone	13	297	0.167	3861	48.4	
20	Greenstone	12	296	0.167	3552	44.5	
21	Greenstone	12	138	0.167	1656	20.7	
22	Greenstone	12	125	0.167	1500	18.8	
23	Greenstone	13	109	0.167	1417	17.7	
24	Greenstone	13	235	0.167	3055	38.3	
25	Greenstone	13	64	0.167	832	10.4	Motherlode Dr
26	Greenstone Cutoff	21	30	0.167	630	7.9	
27	Greenstone Cutoff	10	40	0.167	400	5	
<b>Schedule C Total</b>					<b>64,016</b>	<b>812.10</b>	
Schedule D - Sawmill Road							

**Exhibit C  
Grind and Replace Locations**

Item No.	Road	Width (ft)	Length (ft)	Depth (tenths)	Area (SQFT)	Tons	Markers
1	Sawmill	25	2925	0.167	73125	915.9	Lake Tahoe Blvd/ Wedge Cut
2	Sawmill	13	331	0.167	4303	53.9	
3	Sawmill	25	164	0.167	4100	51.4	Wedge Cut
4	Sawmill	25	155	0.167	3875	48.5	Wedge Cut
5	Sawmill	13	120	0.167	1560	19.5	
6	Sawmill	12	209	0.167	2508	31.4	
7	Sawmill	25	340	0.167	8500	106.5	Wedge Cut
8A	Sawmill	13	64	0.167	832	10.4	
8B	Sawmill	12	454	0.167	5448	68.2	
8C	Sawmill	12.5	169	0.167	2112.5	26.5	
9	Sawmill	12.5	64	0.167	800	10	
10	Sawmill	12.5	75	0.167	937.5	11.7	
11	Sawmill	12.5	190	0.167	2375	29.7	
12	Sawmill	25	615	0.167	15375	192.6	Wedge Cut
13	Sawmill	25	155	0.167	3875	48.5	Hwy 50/ Wedge Cut
<b>Schedule D Total</b>					<b>129,726</b>	<b>1,624.70</b>	
<b>Contract Total</b>					<b>386,070</b>	<b>4,845.90</b>	

Exhibit D  
Mosquito Road

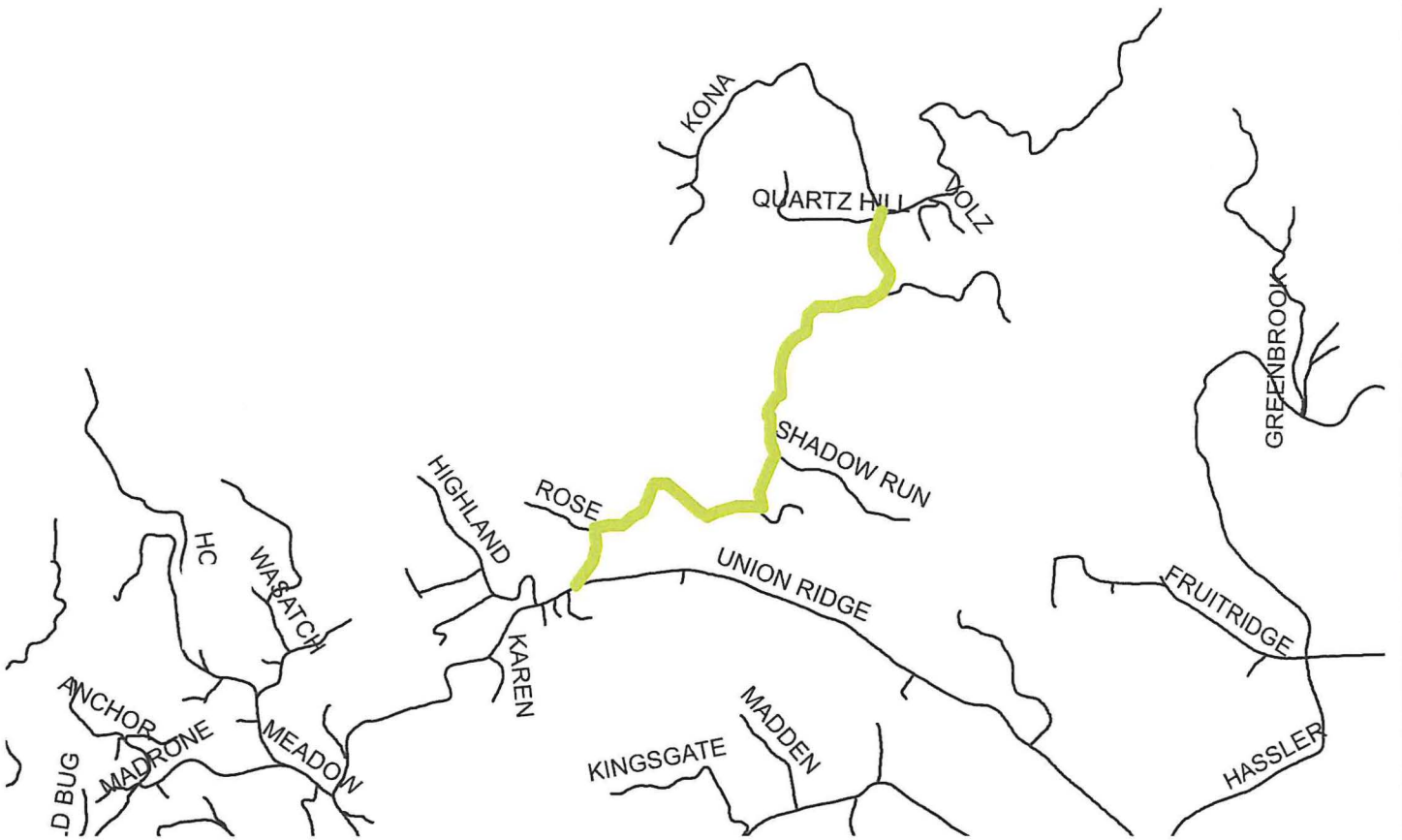




Exhibit D  
Carson Road

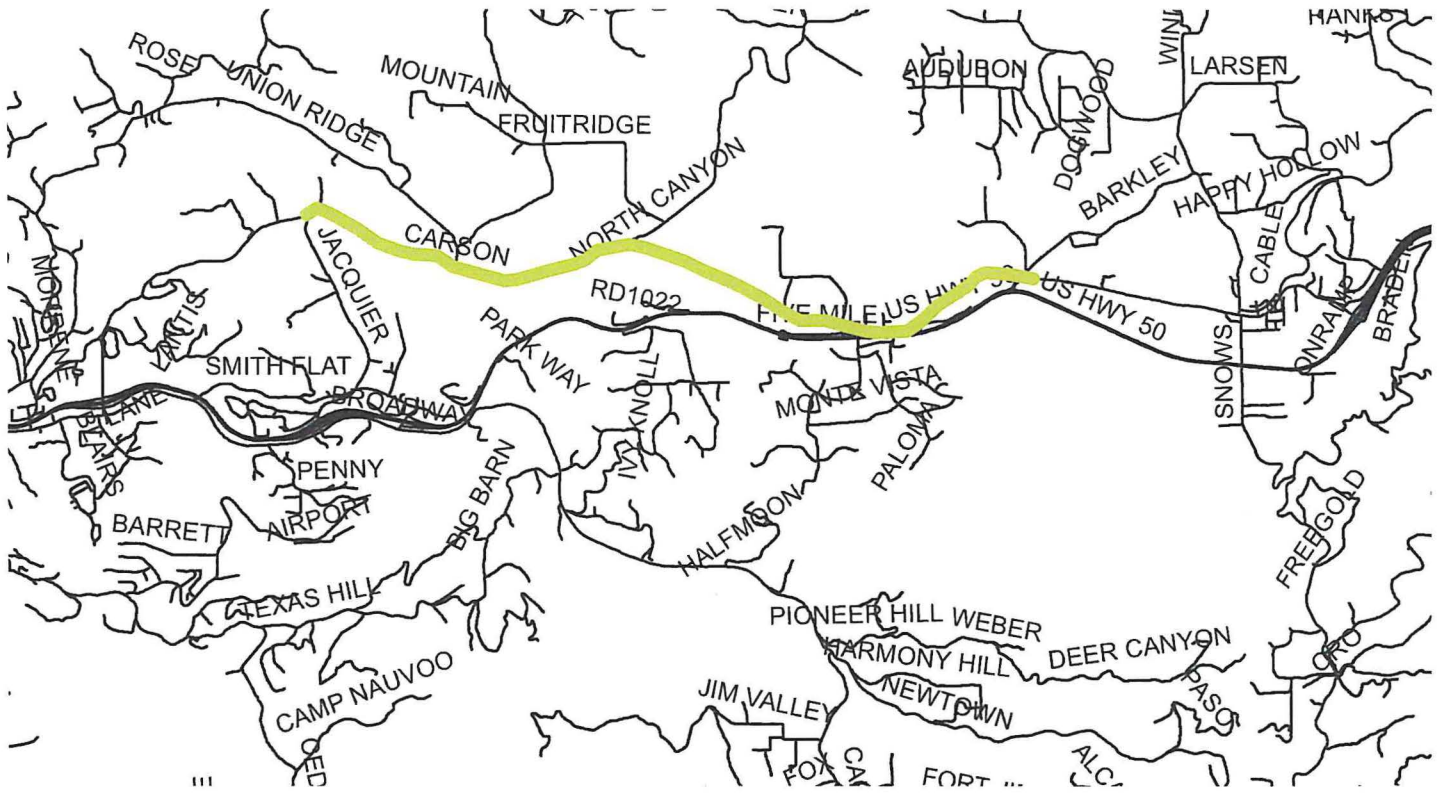


Exhibit D  
Greenstone Area

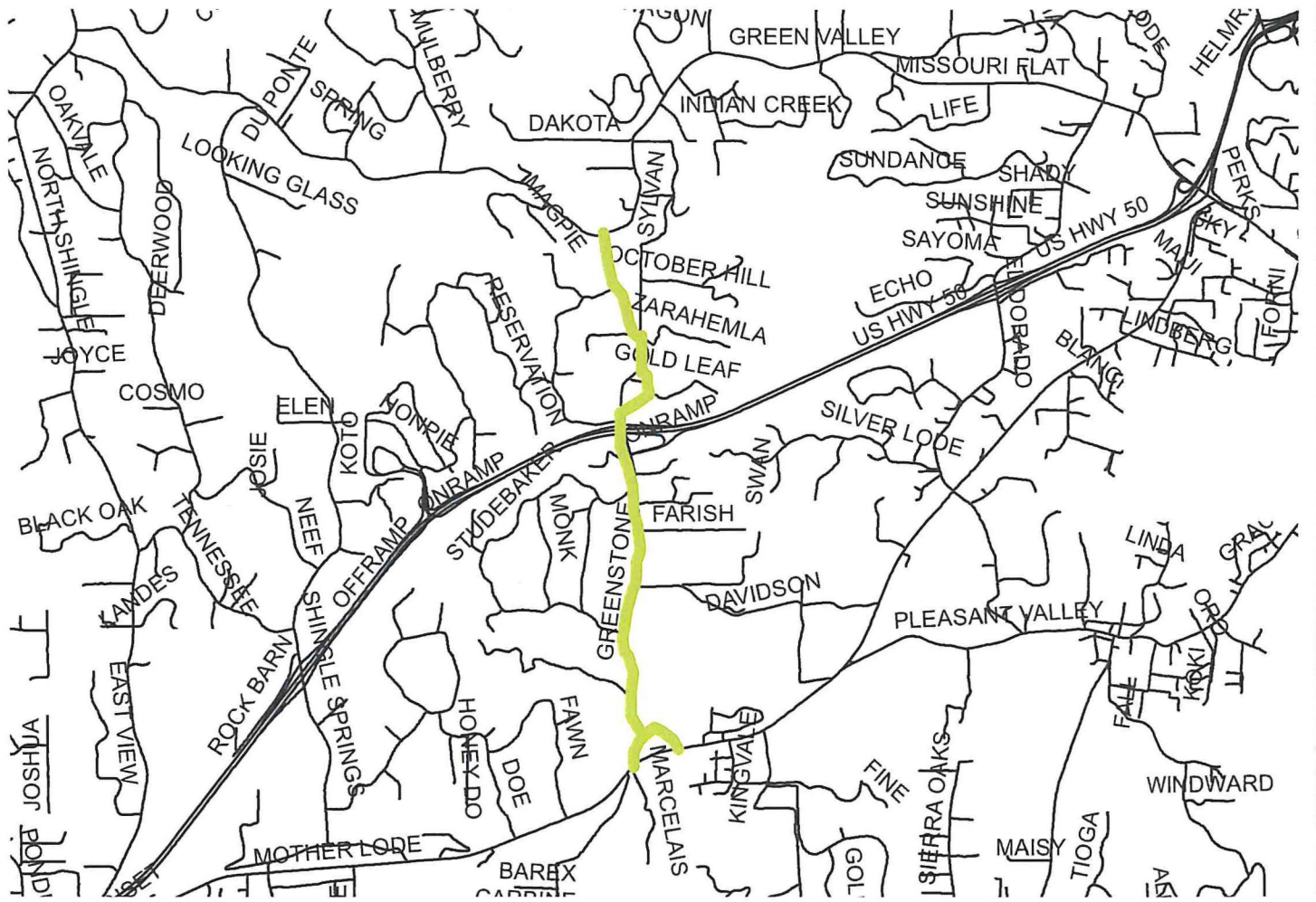


Exhibit D  
Sawmill Road

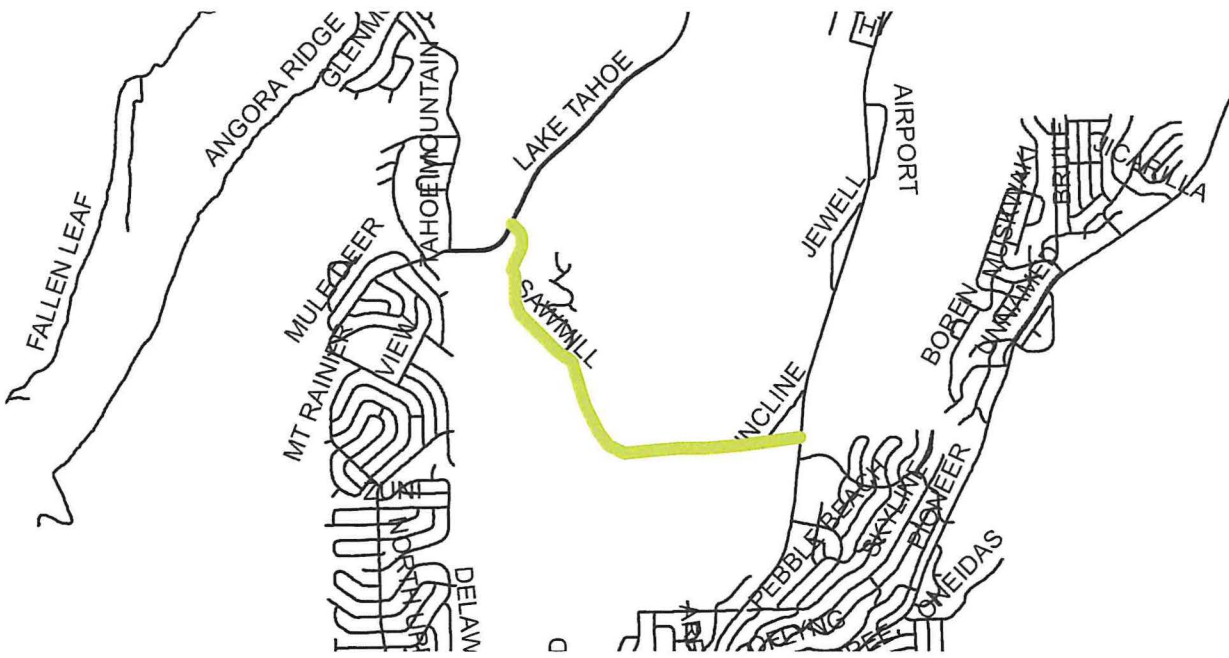
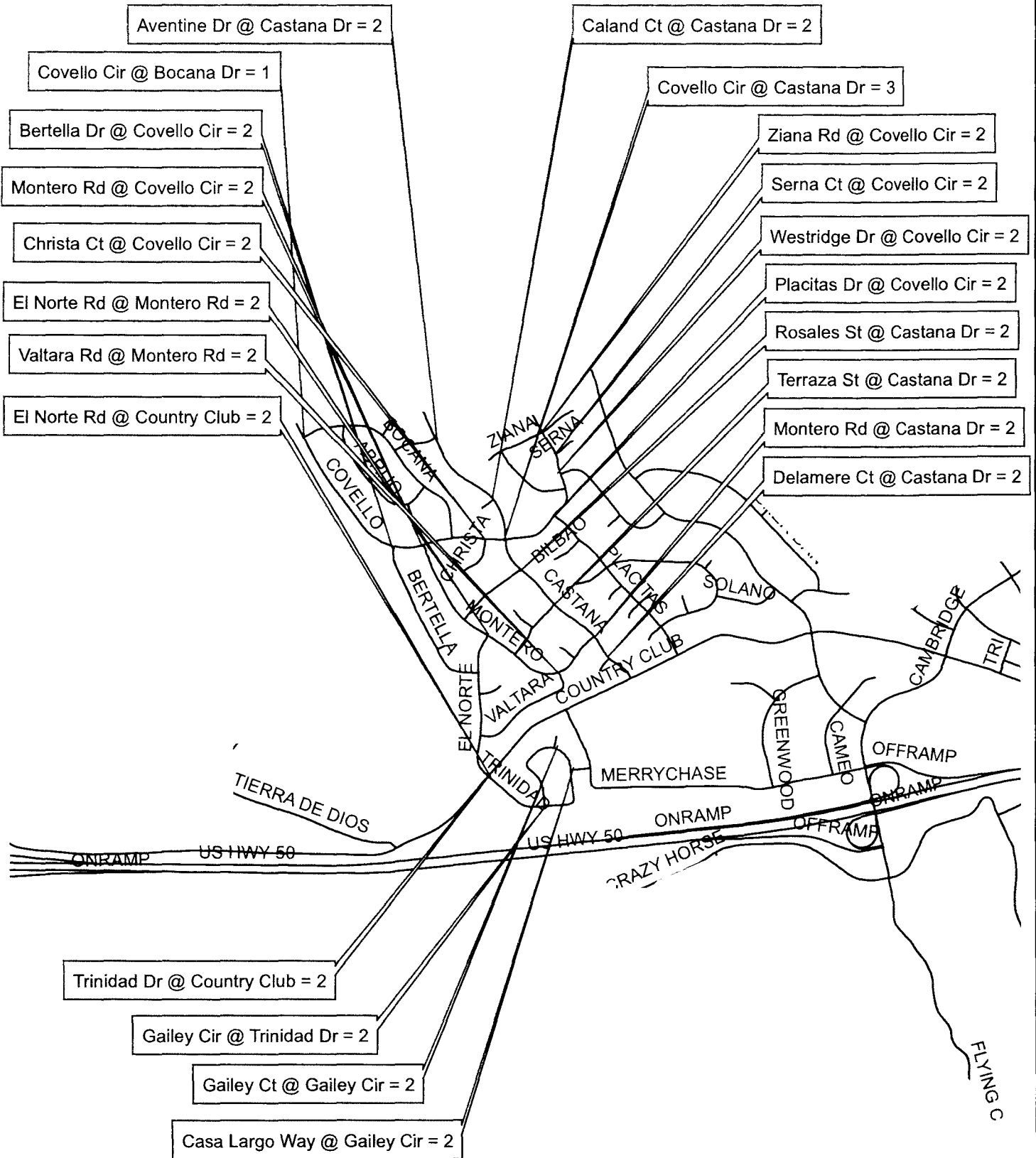
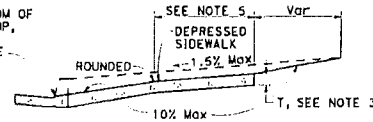
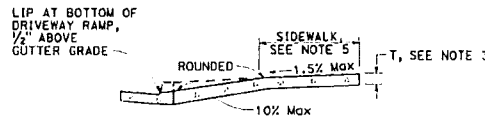
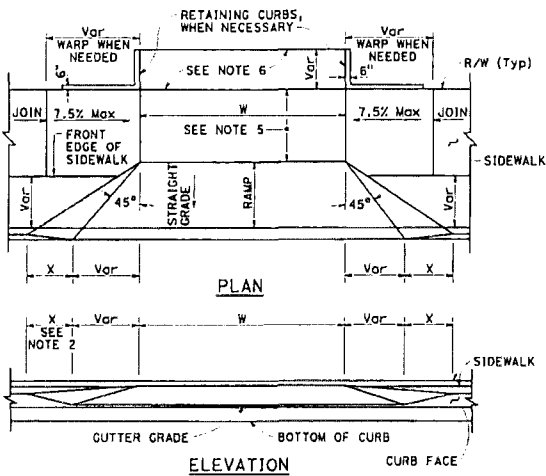


Exhibit D  
Bar J Area ADA





**SECTIONS**

DATE	QUANTITY	PRICE	TOTAL PROJECT	TOTAL SHEETS

*H. David Corbett*  
REGISTERED CIVIL ENGINEER

May 31, 2018  
PLANS APPROVAL DATE

STATE OF CALIFORNIA  
REGISTERED CIVIL ENGINEER  
No. 54195  
Exp. 3-31-20

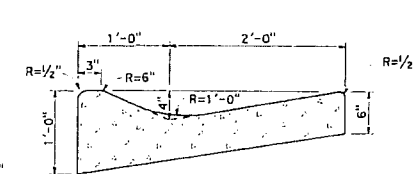
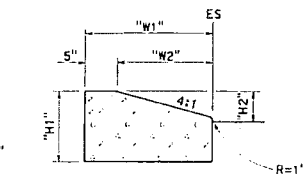
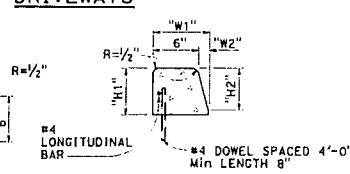
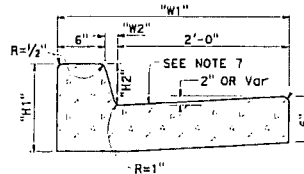
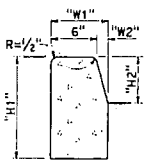
**TABLE A**

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

**CURB QUANTITIES**

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

**DRIVEWAYS**



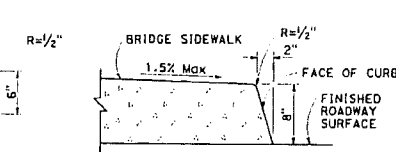
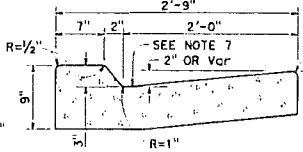
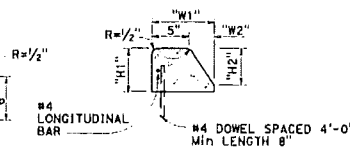
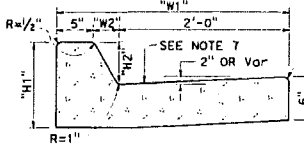
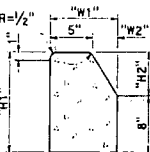
**TYPE A1 CURBS**  
See Table A

**TYPE A2 CURBS**  
See Table A

**TYPE A3 CURBS**  
Superimposed on existing pavement  
See Table A

**TYPE D CURBS**  
See Table A

**TYPE E CURB**



**TYPE B1 CURBS**  
See Table A

**TYPE B2 CURBS**  
See Table A

**TYPE B3 CURBS**  
Superimposed on existing pavement  
See Table A

**TYPE B4 CURBS**

**TYPE H CURB**  
On Bridges

**CURBS**

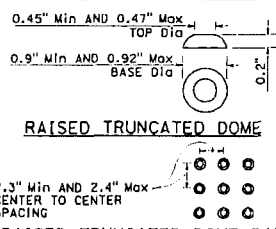
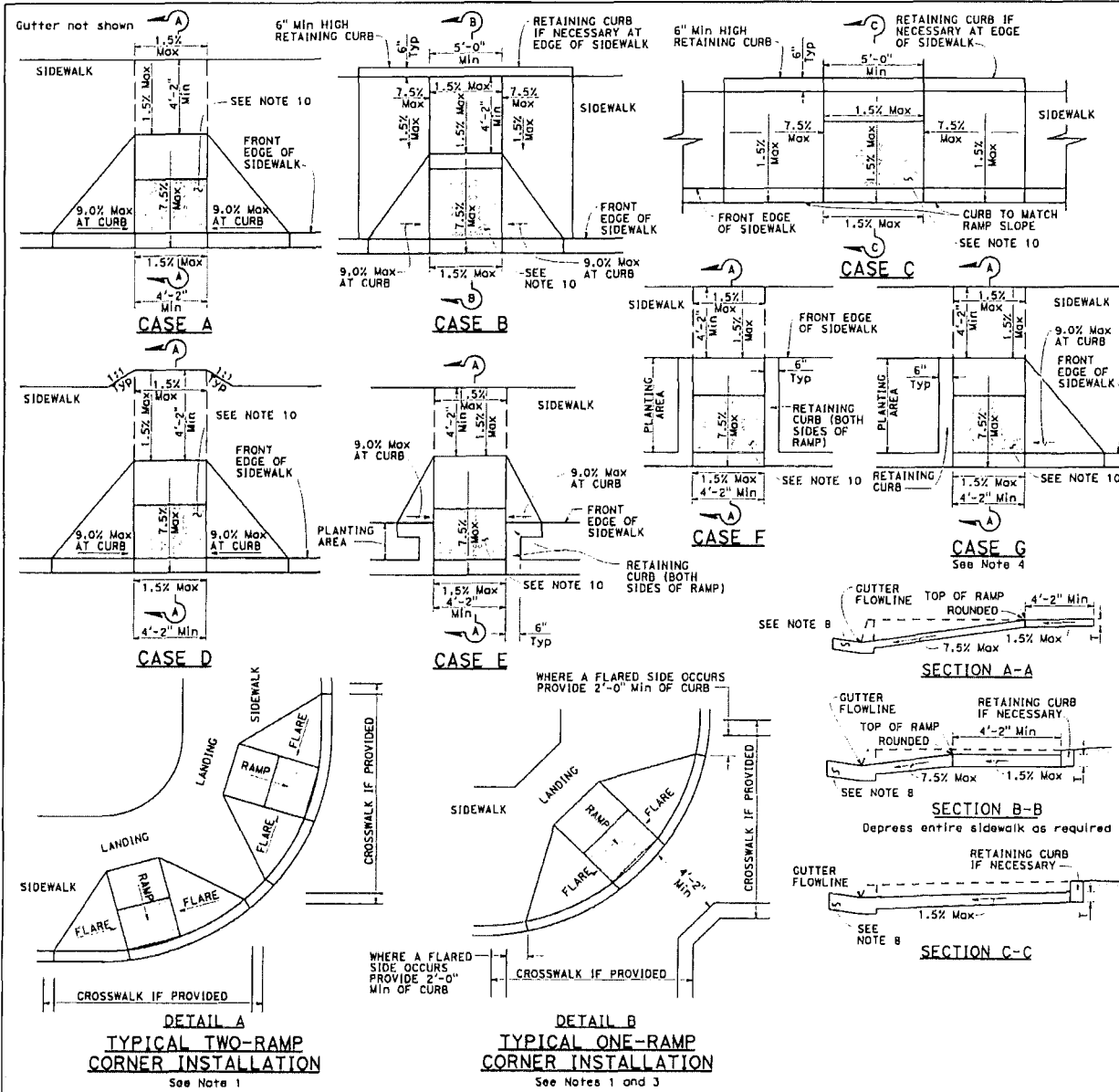
**NOTES:**

- Case A driveway section typically applies.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
- Minimum width of clear passageway for sidewalk shall be 4'-2".
- Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
- Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CURBS AND DRIVEWAYS**

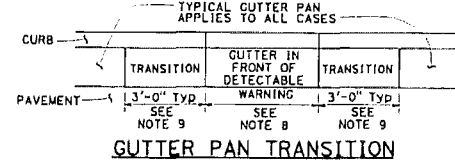
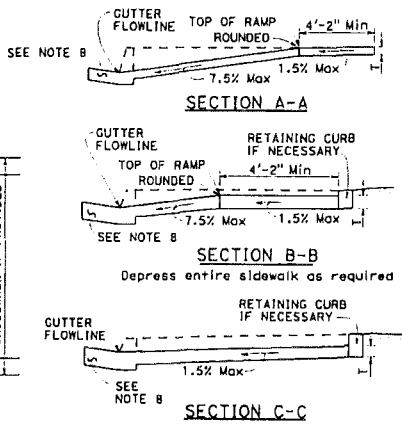
NO SCALE

**A87A**



**RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE**

- NOTES:** See Note 10
- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.
  - If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
  - When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
  - As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
  - The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.
  - Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
  - The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
  - Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1%:20" (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
  - Transition gutter pan slope from 1" of depth for each 2'-0" of width to match typical gutter pan slope per Standard Plan A87A.
  - The detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except a maximum gap of 1 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.
  - Sidewalk and ramp thickness, "T", shall be 3/4" minimum.
  - Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
  - Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.



STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CURB RAMP DETAILS**  
NO SCALE

**A88A**

DATE	COURT	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS

Rebecca Lynn Mowry  
REGISTERED CIVIL ENGINEER  
No. 12-31-19  
CS4415

May 31, 2018  
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA HAS RECEIVED FROM REBECCA LYNN MOWRY THE ABOVE SIGNED AND VERIFIED TRUE AND CORRECT COPIES OF THIS PLAN SHEET.

2018 STANDARD PLAN A88A