

**C O U N T Y   O F   N E V A D A**

**S T A T E   O F   C A L I F O R N I A**

**D E P A R T M E N T   O F   P U B L I C   W O R K S**

**N O T I C E   T O   B I D D E R S ,   S P E C I A L   P R O V I S I O N S   A N D  
C O N T R A C T   D O C U M E N T S**

**F O R**

**E M E R G E N C Y   V E H I C L E   P R E E M P T I O N   S A F E T Y   S Y S T E M   P R O J E C T   2 0 1 7**

---

**For use in Connection with Standard Specifications and Standard Plans  
Dated**

**May 2015 of the California Department of Transportation, and the  
Labor Surcharge and Equipment Rental Rates  
in effect on the date the work is accomplished.**

---

**C O U N T Y   C O N T R A C T   N O . :   4 4 0 8 1 5**

**Sealed bids will be received at the office of:**

**Diana Wilburn  
County of Nevada  
Purchasing Division  
c/o Auditor Controller Office  
950 Maidu Avenue, 2<sup>nd</sup> Floor, Suite 230  
Nevada City, CA 95959**

**BID TIME, DATE AND LOCATION:**

**3:00 P.M., March 30, 2017  
Providence Room A, 2<sup>nd</sup> Floor  
Eric Rood Administrative Center  
950 Maidu Ave.  
Nevada City, CA**

(Standard Public Works Contract)

# IMPORTANT SPECIAL NOTICE

- Attention is directed to Section 1-1.01, “General,” of the Amendments to the Standard Specifications, Dated May 2015, regarding plain language specifications.
- The “Proposal and Contract” book has been retitled and is now the “Bid” book.
- The “Notice to Contractors” has been retitled and is now the “Notice to Bidders.”

**PROFESSIONAL ENGINEERS SIGNATURE PAGE**

**THE SPECIAL PROVISIONS CONTAINED HEREIN HAVE BEEN PREPARED BY OR UNDER THE DIRECTION OF THE FOLLOWING REGISTERED PERSON.**



REGISTERED CIVIL ENGINEER

## Table of Contents

CONTRACT TIME LINE .....	12
INVITATION TO BID .....	13
INSTRUCTIONS TO BIDDERS .....	16
BID FORM .....	27
BIDDER'S BOND .....	31
EXPERIENCE STATEMENT .....	33
SUBCONTRACTOR LISTING .....	34
BIDDER'S REPRESENTATIONS .....	35
SECTION 1. GENERAL PROVISIONS .....	36
SECTION 2. BIDDING.....	37
2-1.01 GENERAL.....	37
SECTION 3. BLANK.....	37
SECTION 4.....	37
START OF JOB SITE ACTIVITIES, TIME AND LIQUIDATED DAMAGES .....	37
SECTION 5. CONTROL OF WORK .....	37
5-1.01 CONSTRUCTION SURVEYS:.....	37
5-1.02 AREAS FOR USE:.....	38
5-1.03 LABOR NONDISCRIMINATION.....	39
5-1.04 PUBLIC SAFETY.....	39
5-1.05 BUY AMERICA REQUIREMENTS.....	40
5-1.06 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES.....	41
5-1.07 SUBCONTRACTING.....	41
5-1.08 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS.....	42
5-1.09 PROMPT PAYMENT OF WITHHELD FUNDS TO SUBCONTRACTORS.....	42
5-1.10 PAYMENTS.....	42
5-1.11 NOISE CONTROL REQUIREMENTS.....	43
5-1.12 TRAFFIC CONTROL.....	43
5-1.13 DIFFERING SITE CONDITIONS.....	44
5-1.14 PRESERVATION OF PROPERTY.....	45
5-1.15 PROTECTION OF ARCHAEOLOGICAL ARTIFACTS.....	45
5-1.16 PUBLIC SAFETY .....	46
5-1.17 COORDINATION WITH PUBLIC UTILITIES.....	47
5-1.18 ENVIRONMENTAL STEWARDSHIP .....	47
5-1.19 QUALITY ASSURANCE.....	47
5-1.20 NATURALLY OCCURRING ASBESTOS (NOA) .....	47
SECTION 6. BLANK.....	48
SECTION 7. BLANK.....	48
SECTION 8. MATERIALS.....	49

SECTION 8-1. MISCELLANEOUS .....	49
8-1.01 TESTING.....	49
8-1.02 PREQUALIFIED AND TESTED SIGNING AND DELINEATION MATERIALS. ..	49
SECTION 9. DESCRIPTION OF WORK .....	56
9-1.01 DESCRIPTION OF ROAD .....	57
SECTION 10. CONSTRUCTION DETAILS .....	58
SECTION 10-1. GENERAL.....	58
10-1.01 ORDER OF WORK.....	58
10-1.02 PROGRESS SCHEDULE. ....	58
10-1.03 OBSTRUCTIONS.....	58
10-1.04 DUST CONTROL .....	59
10-1.05 MAINTAINING TRAFFIC.....	59
10-1.06 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE.....	60
10-1.07 PROJECT MOBILIZATION .....	63
10-1.08 EXISTING FACILITIES.....	63
10-1.09 EXISTING COUNTY ROAD FACILITIES .....	63
10-1.10 EMERGENCY VEHICLE PREEMPTION SYSTEM.....	63
10-1.11 CLEAN-UP.....	64
SECTION 11. UPDATED STANDARD SPECIFICATIONS AS OF JANUARY 11, 2017 ....	65
SECTION 12. DRAWINGS .....	77
SECTION 13. EXISTING AS-BUILT & OPTICOM INFORMATION .....	79
CONTRACT.....	99
BOND OF FAITHFUL PERFORMANCE .....	101
BOND FOR LABOR AND MATERIAL.....	102
CONTRACT.....	103
ARTICLE I: DEFINITIONS .....	103
ACT OF GOD .....	103
ADDENDA.....	103
APPLICATION FOR PAYMENT .....	103
CALENDAR DAYS .....	103
CHANGE ORDER .....	103
CONTRACT DOCUMENTS .....	103
CONTRACT PRICE .....	104
CONTRACTOR .....	104
CONTRACTOR'S PLANT AND EQUIPMENT .....	104
DAY.....	104
DEFECTIVE .....	104
DIRECTED.....	104
DIRECTOR.....	104
DRAWINGS.....	104
EFFECTIVE DATE OF THE CONTRACT .....	104
ENGINEER.....	104
EQUAL .....	105
FIELD ORDER.....	105

FINAL ACCEPTANCE, DATE OF.....	105
LABORATORY .....	105
LIEN .....	105
NOTICE OF AWARD.....	105
NOTICE TO PROCEED .....	105
PARTIAL COMPLETION.....	105
PERSON.....	105
PROJECT .....	105
SCHEDULE OF VALUES .....	105
SHALL.....	105
SHOP DRAWINGS .....	106
SPECIFICATIONS.....	106
STANDARD SPECIFICATIONS .....	106
SUBCONTRACTOR .....	106
SUBSTITUTE.....	106
SUFFICIENT:.....	106
SUPPLEMENTARY CONDITIONS.....	106
UNDERGROUND FACILITIES .....	106
UNIT PRICE WORK.....	106
WORK.....	106
WORKING DAY.....	107
ARTICLE II: SCOPE OF WORK.....	107
ARTICLE III: CONTRACT TIME .....	107
ARTICLE IV: CHANGE OF CONTRACT TIME .....	107
CHANGE BY CHANGE ORDER.....	107
CONTRACT TIME MAY BE EXTENDED .....	107
DELAY AND PRICE CHANGE .....	107
DELAYS IN COMPLETION OF THE WORK .....	107
1. Notice of Delays.....	108
2. Avoidable Delays .....	108
3. Unavoidable Delays .....	108
EXTENSION OF TIME .....	108
1. Avoidable Delays .....	108
2. Unavoidable Delays .....	108
LIQUIDATED DAMAGES .....	108
ARTICLE V: CONTRACT PRICE.....	109
ARTICLE VI: CHANGE OF CONTRACT PRICE.....	109
CONTRACT PRICE .....	109
CHANGE BY CHANGE ORDER.....	109
DETERMINATION OF CHANGE IN CONTRACT PRICE .....	109
COST OF THE WORK.....	109
NOT INCLUDED IN COST OF THE WORK .....	111
CONTRACTOR'S FEE.....	111
COST BREAKDOWN.....	112
CASH ALLOWANCES .....	112
UNIT PRICE WORK.....	112
FINAL PAY QUANTITIES.....	112

ARTICLE VII: PAYMENTS TO CONTRACTOR .....	113
SOURCE OF FUNDS .....	113
SCHEDULE OF VALUES .....	113
INVOICES .....	113
PROGRESS PAYMENT .....	113
AMOUNTS OF PROGRESS PAYMENTS.....	113
CONTRACTOR'S WARRANTY OF TITLE.....	114
PAYMENT OF PROGRESS PAYMENT.....	114
COUNTY'S RECOMMENDATION OF PAYMENT.....	114
COUNTY MAY REFUSE TO MAKE PAYMENT.....	114
COMPLETION AND FINAL INSPECTION .....	115
ACCEPTANCE AND FINAL APPLICATION FOR PAYMENT.....	115
FINAL PAYMENT.....	115
DELAY IN COMPLETION THROUGH NO FAULT OF CONTRACTOR .....	115
CONTRACTOR'S CONTINUING OBLIGATION.....	115
WAIVER OF CLAIMS.....	116
BOOKS OF ACCOUNT AND AUDIT PROVISION .....	116
ARTICLE VIII: PRELIMINARY MATTERS.....	116
DELIVERY OF CERTIFICATES OF INSURANCE.....	116
DELIVERY OF BONDS.....	116
PRE-CONSTRUCTION CONFERENCE.....	116
DELIVERY OF SCHEDULES .....	116
FINALIZING SCHEDULES .....	117
BEFORE STARTING CONSTRUCTION.....	117
CONTRACTOR'S REPRESENTATIONS.....	117
ARTICLE IX: CHANGES IN THE WORK .....	117
COUNTY MAY ORDER CHANGES .....	117
FAILURE TO AGREE TO A PRICE OR TIME CHANGE; CLAIMS.....	118
NO CHANGE IN TIME OR PRICE FOR WORK NOT REQUIRED .....	118
CHANGES IN TIME OR PRICE .....	118
NOTICE TO SURETIES .....	118
ARTICLE X: CONTRACT DOCUMENTS .....	118
INTENT .....	118
CONTRACT INTERPRETATION.....	118
CONFLICTS, ERRORS AND DISCREPANCIES .....	119
AMENDING CONTRACT DOCUMENTS.....	119
SUPPLEMENTARY CONTRACT DOCUMENTS .....	119
REUSE OF DOCUMENTS.....	119
CONTRACT DOCUMENTS .....	119
ARTICLE XI: THE PROJECT SITE .....	119
AVAILABILITY OF LANDS .....	119
PHYSICAL CONDITIONS.....	120
COUNTY'S REVIEW .....	120
POSSIBLE DOCUMENT CHANGE .....	120
POSSIBLE PRICE AND TIME ADJUSTMENTS .....	120
PRESERVATION OF PROPERTY.....	121

REFERENCE POINTS .....	121
POWER.....	121
WATER .....	121
SANITARY FACILITIES.....	121
<b>ARTICLE XII: LABOR, MATERIAL AND PERFORMANCE BONDS.....</b>	<b>122</b>
BONDS TO BE PROVIDED.....	122
INSOLVENCY OR TERMINATION OF RIGHT TO DO BUSINESS .....	122
<b>ARTICLE XIII: CONTRACTOR LIABILITY AND INSURANCE .....</b>	<b>122</b>
LIABILITY OF CONTRACTOR .....	122
CONTRACTOR'S LIABILITY INSURANCE.....	122
CONTRACTUAL LIABILITY INSURANCE.....	123
PROPERTY INSURANCE .....	123
AMOUNT OF PROPERTY INSURANCE .....	123
SCHEDULE OF REQUIRED INSURANCE.....	123
NOTICE REQUIREMENT .....	123
DEDUCTIBLES AND SELF-INSURED RETENTIONS .....	124
RISK OF LOSS.....	124
WAIVER OF RIGHTS .....	124
NO RIGHT OF RECOVERY .....	124
RECEIPT AND APPLICATION OF PROCEEDS.....	124
COUNTY'S DUTIES AS TRUSTEE .....	124
ACCEPTANCE OF INSURANCE.....	124
VERIFICATION OF COVERAGE .....	125
SUBCONTRACTORS .....	125
<b>ARTICLE XIV: MATERIALS AND EQUIPMENT.....</b>	<b>125</b>
MATERIAL AND EQUIPMENT.....	125
QUALITY OF MATERIALS AND EQUIPMENT.....	125
STORAGE OF MATERIALS AND EQUIPMENT .....	125
SUBSTITUTE ITEMS .....	125
OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUFACTURER'S WARRANTIES .....	126
PATENT FEES AND ROYALTIES .....	126
CONTRACTOR'S EQUIPMENT .....	127
<b>ARTICLE XV: PLANS AND SPECIFICATIONS.....</b>	<b>127</b>
INTERPRETATION OF PLANS, SPECIFICATIONS AND DRAWINGS .....	127
OWNERSHIP .....	127
HANDICAPPED ACCESS .....	127
<b>ARTICLE XVI: SHOP DRAWINGS AND SAMPLES .....</b>	<b>128</b>
SHOP DRAWINGS .....	128
SAMPLES .....	128
CONTRACTOR'S REVIEW .....	128
NOTICE OF VARIATION .....	128
COUNTY'S REVIEW .....	128
CONTRACTOR'S RESPONSIBILITY FOR VARIATION .....	129
WORK PERFORMED PRIOR TO SHOP DRAWING OR SAMPLE REVIEW .....	129
<b>ARTICLE XVII: SUBCONTRACTORS, SUPPLIERS AND OTHERS.....</b>	<b>129</b>



OBJECTIONABLE PARTIES .....	129
RESPONSIBILITY FOR SUBCONTRACTORS .....	129
DIVISION OF WORK .....	129
SUBCONTRACTS .....	130
<b>ARTICLE XVIII: PERFORMANCE OF THE WORK .....</b>	<b>130</b>
SUPERVISION .....	130
SUPERINTENDENCE .....	130
PERSONNEL .....	130
ORDER OF WORK .....	130
SAFETY AND PROTECTION .....	130
DETOURS .....	131
SAFETY REPRESENTATIVE .....	131
VEHICLE CODE .....	131
TRENCH SAFETY .....	131
NOTICE PRIOR TO TRENCHING .....	132
ALCOHOLIC BEVERAGES .....	132
EMERGENCIES .....	132
WARRANTY AND GUARANTEE .....	132
ENVIRONMENTAL AND TOXICS WARRANTY .....	133
ACCESS TO WORK .....	133
COUNTY MAY STOP THE WORK .....	133
ALTERNATIVE METHODS OF CONSTRUCTION .....	133
CORRECTION OR REMOVAL OF DEFECTIVE WORK .....	133
ACCEPTANCE OF DEFECTIVE WORK .....	133
COUNTY MAY CORRECT DEFECTIVE WORK .....	134
ADJUSTING PROGRESS SCHEDULE .....	134
SUBSTITUTE METHOD OF CONSTRUCTION .....	134
SUGGESTIONS TO CONTRACTOR .....	134
PERMITS .....	135
LAWS AND REGULATIONS .....	135
TAXES .....	135
USE OF PREMISES .....	135
SITE CLEAN-UP .....	135
PROTECTION OF STRUCTURES .....	136
RESTORATION OF STRUCTURES .....	136
DRAINAGE .....	136
ENVIRONMENTAL CONTROL .....	136
RECORD DOCUMENTS .....	137
AS-BUILT DRAWINGS .....	137
CONTINUING THE WORK .....	137
INDEMNIFICATION .....	137
STATUTORY LIMITATIONS .....	137
RELATED WORK AT SITE .....	137
ACCESS TO SITE .....	138
ACCEPTANCE OF WORK BY OTHERS .....	138
<b>ARTICLE XIX: TESTS AND INSPECTIONS .....</b>	<b>138</b>
TESTS AND INSPECTIONS REQUIRED BY LAWS OR REGULATIONS .....	138
OTHER INSPECTIONS AND TESTS .....	138

GENERAL REQUIREMENTS .....	138
CERTIFICATES OF COMPLIANCE.....	139
DELIVERY ACCEPTANCE TESTS AND INSPECTION.....	139
INSTALLED TESTS AND INSPECTION.....	139
QUALITY CONTROL .....	140
WORK REQUIRING TESTING .....	140
CONTRACTOR'S OBLIGATION.....	140
UNCOVERING WORK COVERED CONTRARY TO COUNTY'S REQUEST.....	140
UNCOVERING WORK FOR INSPECTION OR TESTING .....	141
ARTICLE XX: SUSPENSION OF WORK AND TERMINATION.....	141
COUNTY MAY SUSPEND WORK .....	141
COUNTY MAY TERMINATE.....	141
COUNTY MAY ABANDON .....	142
CONTRACTOR MAY STOP WORK OR TERMINATE .....	142
ARTICLE XXI COUNTY'S AGENT'S STATUS DURING CONSTRUCTION.....	142
COUNTY'S REPRESENTATIVE .....	142
AGENT'S AUTHORITY.....	142
REPLACEMENT OF REPRESENTATIVE .....	142
VISITS TO SITE.....	142
OBSERVATION OF WORK .....	143
CLARIFICATIONS AND INTERPRETATIONS .....	143
AUTHORIZED VARIATIONS IN WORK .....	143
REJECTING DEFECTIVE WORK.....	143
DETERMINATIONS FOR UNIT PRICES.....	143
CLAIMS AND DISPUTES.....	143
REPRESENTATIVE'S DECISION.....	144
LIMITATIONS ON REPRESENTATIVE'S RESPONSIBILITIES.....	144
CONSTRUCTION METHODS AND SAFETY .....	145
ACTS AND OMISSIONS OF CONTRACTOR.....	145
ARTICLE XXII: PARTIAL COMPLETION .....	145
PARTIAL COMPLETION (COMPLETION OF A PORTION OF THE WORK) .....	145
ARTICLE XXIII: ARBITRATION.....	146
ARBITRATION .....	146
TIME TO REQUEST ARBITRATION .....	146
ARTICLE XXIV: LABOR AND EMPLOYMENT.....	146
WORKER'S COMPENSATION CERTIFICATION.....	146
PREVAILING WAGE RATES .....	146
COLLECTIVE BARGAINING AGREEMENTS .....	146
PAYROLL RECORDS .....	147
LIMITATIONS ON HOURS WORKED .....	147
EQUAL EMPLOYMENT OPPORTUNITY AND NONDISCRIMINATION .....	147
EMPLOYMENT OF APPRENTICE LABOR .....	147
PREFERENCE FOR RESIDENT LABOR .....	147
INCOMPETENT WORKERS.....	147
LABOR CLASS SUBSTITUTIONS .....	148

ARTICLE XXV: ASSIGNMENT ..... 148  
ARTICLE XXVI: CONFLICT OF INTEREST RESTRICTIONS..... 148  
ARTICLE XXVII: WAIVER OF RIGHTS..... 148  
ARTICLE XXVIII: SUCCESSORS IN INTEREST..... 148  
ARTICLE XXIX: NOTICE..... 148  
    GIVING NOTICE ..... 148  
    JOINT VENTURE CONTRACTOR ..... 148  
ARTICLE XXX: VENUE AND JURISDICTION..... 149

## CONTRACT TIME LINE

1. BIDS DUE: **March 30, 2017, at 3:00 p.m.**
2. BID OPENING: **MARCH 30, 2017, at 3:00 p.m.**
3. BIDS TO REMAIN OPEN FOR **60 DAYS** FROM DATE OF OPENING OF BIDS.
4. NOTICE OF AWARD DUE WITHIN **60 DAYS** OF OPENING OF BIDS.
5. ALL DAYS ARE CALENDAR DAYS UNLESS OTHERWISE NOTED BELOW.
6. BID BONDS OF UNSUCCESSFUL BIDDERS TO BE RETURNED WITHIN **10 DAYS** OF AWARD BY COUNTY.
7. CONTRACT SIGNING AND BONDS DUE WITHIN **14 DAYS** OF NOTICE OF AWARD.
8. NOTICE TO PROCEED WITH WORK DUE WITHIN **14 DAYS** OF CONTRACT SIGNING.
9. CONSTRUCTION MUST BEGIN WITHIN **7 DAYS** AFTER MAILING OF NOTICE TO PROCEED.
10. CONTRACTOR MUST GIVE 72 HOURS WRITTEN NOTICE OF DATE WORK WILL COMMENCE.
11. PRECONSTRUCTION CONFERENCE WITHIN **7 DAYS** OF NOTICE TO PROCEED.
12. SCHEDULES AND BREAKDOWN OF PHASES OF CONSTRUCTION DUE IN **5 DAYS** AFTER RECEIPT OF NOTICE TO PROCEED.
13. WORK MUST BE COMPLETED WITHIN **25 WORKING DAYS**

## **INVITATION TO BID**

FOR: **Emergency Vehicle Preemption Safety System Project- 2017 - Contract 440815**

LOCATED AT: 3 locations;

- Intersection of Highway 49 with Alta Sierra Drive
- Intersection of Highway 49 with Lime Kiln Road
- Intersection of Highway 49 with Combie Road/Wolf Road

Sealed bids will be received at the office of:

Diana Wilburn  
County of Nevada  
Purchasing Division  
c/o Auditor Controller's Office  
950 Maidu Avenue, 2<sup>nd</sup> Floor, Suite 230  
Nevada City, CA 95959

Phone Number (530) 265-1766 or [Diana.wilburn@co.nevada.ca.us](mailto:Diana.wilburn@co.nevada.ca.us)

Until **3:00 p.m.** local time on **March 30, 2017**, for the above-referenced project.

Bids received after said time will not be accepted and will be returned unopened.

**Any inquiries or questions submitted after ten (10) calendar days prior to the bid opening date after 5:00 p.m. will not be accepted or treated as a bid protest.**

At said place and time, and promptly thereafter, all bids that have been properly submitted will be publicly opened and read aloud. All interested parties are invited to attend.

The work to be performed includes the following:

**Installation of emergency vehicle preemption safety systems along State Highway 49 at three locations; Alta Sierra Drive, Lime Kiln Road, and Combie Road/Wolf Road.**

Bids shall be **UNIT PRICES**

Bids must be for all of the work described herein unless the bid form specifically indicates a bid item is optional.

Plans, specifications, proposal forms, project manuals and all documents relating to this project may be downloaded from [www.mynevadacounty.com/nc/igs/purchasing/Pages/Home.aspx](http://www.mynevadacounty.com/nc/igs/purchasing/Pages/Home.aspx). Potential bidders must register as a plan holder with the County in order to be notified of addenda and other notices. To register, please send an email to [diana.wilburn@co.nevada.ca.us](mailto:diana.wilburn@co.nevada.ca.us), indicating "Vehicle Preemption Safety System" in the subject field. If you do not receive a reply to this email indicating that you have been registered, please call 530-265-1766. Project documents may also be reviewed or purchased at:

County of Nevada  
Department of Public Works  
950 Maidu Avenue, 1<sup>st</sup> Floor  
Nevada City, CA 95959

Contractor will be required to possess a **CLASS A** contractor's license or a combination of classes required by the categories and types of work included in this contract at the time the bid is submitted.

**DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION.** The Department of Industrial Relations (DIR) has launched an online application at <https://efiling.dir.ca.gov/PWCR/ActionServlet?action=displayPWCRegistrationForm> for public works contractors to meet the requirements of Senate Bill 854. Contractors must register and meet requirements using the new online application before bidding on public works contracts in California.

In accordance with California Labor Code Section 1771.1, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. Bids cannot be accepted from unregistered contractors except as provided in Section 1771.1.

Contractor and all subcontractors must comply with the requirements of labor code section 1771.1(a), pertaining to registration of contractors pursuant to section 1725.5 Registration and all related requirements of those section must be maintained throughout the performance of the contract.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. Each contractor and subcontractor must furnish certified payroll records to the Labor Commissioner at least monthly.

The County is required to provide notice to the Department of Industrial Relations of any public work contract subject to prevailing wages within five (5) days of the award.

The County of Nevada encourages its contractors and subcontractors to use the US. Citizenship and Immigration Services E-Verify system to verify that employees are eligible to work in the United States. Information about the E-Verify system is available at [www.dhs.gov/e-verify](http://www.dhs.gov/e-verify).

A non-refundable charge of **\$25.00** will be made for each set of documents, and an additional charge of **\$5.00** will be made if those documents are mailed.

All written requests, correspondence and/or communications of any kind regarding the project, including any sealed bids which are submitted by mail, shall be addressed to:

Diana Wilburn  
County of Nevada  
Purchasing Division  
c/o Auditor Controller's Office  
950 Maidu Avenue, 2<sup>nd</sup> Floor, Suite 230  
Nevada City, CA 95959

Phone Number (530) 265-1766 or [diana.wilburn@co.nevada.ca.us](mailto:diana.wilburn@co.nevada.ca.us)

A pre-bid conference or walk-through will **NOT** be held.

Each bidder must submit a cashier's check, certified check or a bidder's bond in an amount equal to 10% of the total amount of the bid. The bidder to whom a contract is awarded will be

required to furnish a performance bond and a labor and materials bond guaranteeing faithful performance and payment of all debts related to this contract.

The County of Nevada, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the regulations of the Department of Commerce (15 C.F.R., Part 8), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

This is a public works project. Pursuant to Sections 1770 and 1773 of the Labor Code of the State of California, the County of Nevada has ascertained that prevailing wage rates are applicable to the work to be done and are available at the State of California Department of Industrial Relations website <http://www.dir.ca.gov/dlsr/PWD/index.htm>. Contractor shall not pay less than the prevailing rate of wages.

No bid will be considered unless it is made on a blank form furnished by the County of Nevada and is made in accordance with the provisions of the proposal requirements and conditions set forth in the contract documents.

DATED: \_\_\_\_\_

COUNTY OF NEVADA  
STATE OF CALIFORNIA

By \_\_\_\_\_  
Chair, Board of Supervisors

## **INSTRUCTIONS TO BIDDERS**

FOR:       **EMERGENCY VEHICLE PREEMPTION SAFETY SYSTEM PROJECT 2017**

LOCATED AT:   3 Locations:

- Intersection of Highway 49 and Alta Sierra Drive
- Intersection of Highway 49 and Lime Kiln Road
- Intersection of Highway 49 and Combie Drive/Wolf Road

### **1.       DEFINITIONS:**

Bidder: One who submits a bid directly to County as distinct from a sub-bidder who submits a bid to a bidder.

Successful Bidder: The lowest, qualified, responsive, responsible bidder to whom County makes an award.

Bidding Documents:

Invitation to Bid  
Instruction to Bidders  
Bid Form  
Bidder's Bond or other security  
Experience Statement  
Subcontractor Listing  
Bidder's Representations  
Proposed Contract Documents  
Any and all Addenda

### **2.       COPIES OF BIDDING DOCUMENTS**

Complete copies of the drawings and project manual for use in preparing bids may be obtained in accordance with the Invitation to Bid.

Partial sets of bidding documents will not be issued. Complete sets of bidding documents shall be used in preparing bids. County assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of bidding documents. If bidder believes its set of bidding documents is incomplete, it shall be the responsibility of bidder to contact County to confirm that Bidder has a complete set.

County, in making copies of bidding documents available on the above terms, does so only for the purpose of obtaining bids on the work and does not confer a license or grant for any other use.

### **3.       QUALIFICATIONS OF BIDDERS**

Each bidder must submit, with their bid, written evidence of bidder's qualifications to perform the work. Bidders will be required to submit evidence that they have a practical knowledge



of the particular work bid upon, and that they have the financial resources to complete the proposed work. In determining the bidder's qualifications, the following factors will be considered: work previously completed by the bidder and whether the bidder (a) maintains a permanent place of business; (b) has adequate plant and equipment to do the work properly and expeditiously; (c) has the financial resources to meet all obligations incident to the work; and (d) has appropriate technical experience. Each bidder will be required to show that he or she has handled former work so that no just claims are pending against such work. No bid will be accepted without submittal of a completed experience statement form or from a bidder who is engaged on any work which would impair his or her ability to perform or finance this work.

Each bidder must hold a current valid contractor's license at the time of bidding or the bid will be rejected.

#### **4. INSPECTION OF SITE OF WORK**

Bidders are required to inspect the site of the work in order to satisfy themselves, by personal examination or by such other means as they may prefer, of the location of the proposed work and as to the actual conditions of and at the site of work. If, during the course of the examination, bidder finds facts or conditions that appear confusing to bidder, bidder shall apply to County for additional information and explanation before submitting the bid. However, no such supplemental information so requested or furnished shall vary the terms of the specifications or the Contractor's sole responsibility to satisfy himself or herself as to the conditions of the work to be performed, unless an addendum has been issued.

The submission of a bid by the bidder shall constitute the acknowledgement that, if awarded the contract, bidder has relied and is relying on bidder's examination of (a) the site of the work, (b) the access to the site, and (c) all other data, matters, and things requisite to the fulfillment of the work and on bidder's own knowledge of existing conditions on and in the vicinity of the site of the work to be constructed under the contract, and not on any representation or warranty of County. No claim for additional compensation will be allowed which is based upon a lack of knowledge of the above items.

Where technical reports or data have been utilized in the preparation of the contract documents, bidder may rely upon the accuracy of the technical data contained in such reports but not upon the interpretations or opinions contained therein for the completeness thereof for the purpose of bidding or construction.

Where plans and specifications contain drawings of physical conditions in or relating to existing surface conditions, including underground facilities, which are at or contiguous to the site, bidder may rely upon the accuracy of the data contained in such drawings but not upon the completeness thereof for the purposes of bidding or construction. If a mass diagram has been prepared for a project, it is for design purposes only. If it is made available to bidders, County assumes no responsibility whatever for the information contained therein and makes no guarantees with respect to reliance thereon.

Before submitting a bid, each bidder will, at bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the work and which bidder deems necessary to determine its bid for performing and furnishing the work in accordance with the time, price and other terms and conditions of the contract documents.

On request in advance, County will provide each bidder access to the site to conduct such explorations and tests, as each bidder deems necessary for the submission of a bid. Bidder shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.

The lands upon which the work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by Contractor in performing the work are identified in the contract documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by Contractor. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by County unless otherwise provided in the contract documents.

## 5. EXAMINATION OF CONTRACT DOCUMENTS

The contract documents shall consist of the following:

1. Invitation to Bid;
2. Instructions to Bidders;
3. Contractor's Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award);
4. Contract;
5. Addenda which pertain to the Contract;
6. The Bonds or other security;
7. Any supplementary conditions or any and all written agreements amending or extending the work, time or price contemplated;
8. The Plans and Specifications and Drawings as identified in the Contract;
9. Certificates of Insurance;
10. Other: \_\_\_\_\_

Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings and addenda (if any). The submission of a bid shall constitute an acknowledgement upon which County may rely that the bidder has thoroughly examined and is familiar with the contract documents. The failure or neglect of a bidder to receive or examine any of the contract documents shall in no way relieve that bidder from any obligation with respect to that bidder's bid or to the contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any contract documents.

## 6. INTERPRETATION OF CONTRACT DOCUMENTS

No oral representations or interpretations will be made to any bidder as to the meaning of the contract documents. Any ambiguities, inconsistencies in the plans and specifications or other contract documents, or problems which are visible by an inspection of the site or review of the contract documents shall be resolved prior to bidding. Request for an interpretation shall be made in writing and delivered to County at least **ten (10) days** before the time announced for opening of the proposals. Interpretations by County will be in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practical to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract. County reserves the right to amend any contract language, which it determines, is ambiguous prior to award of the bid.

## **7. ADDENDA**

Each bid shall include specific acknowledgment, in the space provided, of receipt of all addenda issued during the bidding period. Failure to so acknowledge will result in the bid being rejected as not responsive. The Contractor is responsible for verifying that all addenda have been received and for obtaining all addenda prior to submitting bids for the work.

Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify the bidding documents as deemed advisable by County.

Addenda will be mailed or delivered to all parties recorded as having received the bidding documents. No addenda will be issued later than four (4) days prior to the date for receipt of bids except an addendum, if necessary, postponing the date for receipt of bids or withdrawing the request for bids.

## **8. BIDS**

Bids shall be made on the blank forms prepared by County and included herein. Bidders may extract these pages from the book of specifications or submit the entire book. All bids shall give prices, both in writing and in figures, and shall be signed by the bidder or bidder's authorized representative with bidder's address and shall provide all other information requested on the bid form. If the bid is made by an individual, his or her name, signature and post office address must be shown; if made by a firm or partnership, the name and post office address of the firm or partnership must be shown; if made by a corporation, the bid shall show the name of the state under the laws of which the corporation is chartered, the name and post office address of the corporation, and the title of the person who signs on behalf of the corporation.

## **9. SUBMISSION OF BIDS**

Bids shall be submitted at the time and place indicated in the Invitation to Bid and shall be included in a sealed envelope addressed to the Nevada County, Purchasing Division. If mailed or hand carried, the bids shall be addressed to:

County of Nevada  
Purchasing Division  
c/o Auditor Controller's Office  
950 Maidu Avenue, 2<sup>nd</sup> Floor, Suite 230  
Nevada City, CA 95959

The bid shall be identified on the outside with the bidder's name, license number and address and with the project title.

Each bid shall be accompanied by the bid security and other required documents.

If the bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof.

Bids shall be deposited at the designated location prior to the time and date for receipt of bids indicated in the Invitation to Bid, or the modified time and date indicated by addendum. Bids received after the time and date for receipt of bids will be returned unopened. Bidder

shall assume full responsibility for timely delivery at the location designated for receipt of bids.

Oral, telephone, or fax bids are invalid and will not receive consideration. No bidder may submit more than one bid. Multiple bids under different names will not be accepted from one firm or association.

**10. PRE-BID CONFERENCE OR WALK-THOUGH will NOT be held.**

**11. BID PRICE**

The bid price shall include everything necessary for the completion of construction and fulfillment of the contract including, but not limited to, furnishing all materials, equipment, tools, plant and other facilities and all management, superintendence, labor and services, except as may be provided otherwise in the contract documents.

In the event of a difference between the price quoted in words and a price quoted in figures for the same quotation, the words shall be considered the amount bid. Discrepancies between the indicated sum or total of figures and the correct sum or total will be resolved in favor of the correct sum or total.

**12. BASIS OF BIDS**

The bidder shall submit both a lump sum price and prices for all unit cost items and alternatives shown on the bid form. Failure to comply may be cause for rejection.

Where specific quantities are given, they are approximate only, being given as a basis for the comparison of bids, and the County of Nevada does not, expressly or by implication, warrant that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or advisable by County. The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

The bidder shall set forth for each item of work in clearly legible figures, an item price and a total for the item in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail; however, if the amount set forth as an item price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or in the case of unit basis items is the same amount as the entry in the "Total" column, then the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- a. As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.
- b. As to the lump sum items, the amount set forth in the "Total" column shall be the item price.

In accordance with the provision of Section 6707 of the State Labor Code, each bidder shall list, in any bid item calling for trenching of five (5) feet or more in depth, the amount contained in the proposal for adequate trench and excavation sheeting, shoring, and bracing or equivalent method for the protection of life and limb which shall conform to applicable Safety Orders.

### **13. TAXES**

Bid prices shall include allowance for all federal, state and local taxes.

### **14. CONTRACT TIME**

The date by which the work is to be completed (the contract time) is set forth in the contract documents.

### **15. SUBSTITUTE MATERIAL AND EQUIPMENT**

The contract, if awarded, will be on the basis of material and equipment described in the drawings or specified in the specifications without consideration of possible substitute or "co-equal" items. Whenever it is indicated in the drawings or specified in the specifications that a substitute or "co-equal" item of material or equipment may be furnished or used by Contractor if acceptable to County, application for such acceptance will not be considered by County until after the effective date of the contract unless an addendum is issued to all bidders authorizing the use of a specified substitute. The procedure for submittal of any such application by Contractor and consideration by County is set forth in the contract documents.

### **16. LIST OF SUBCONTRACTORS**

Each bid shall have listed on the form provided herewith the name and address of each subcontractor to whom the bidder proposes to sublet portions of the work in excess of one-half of one percent of the total amount of the bid or \$10,000, whichever is greater, per Public Contracts Code Sections 4104. For the purpose of this paragraph, a subcontractor is defined as one who contracts with the Contractor to furnish materials and labor, or labor only for the performance of work at the site of the work.

County has the right to review the suitability and qualifications of any subcontractor or supplier proposed by the Contractor. As part of this review County may request an experience statement with pertinent information as to similar projects and other evidence of qualification for each subcontractor, person and organization. If County, after due investigation, has reasonable objection to any proposed subcontractor, County may, before giving the notice of award, request the apparent successful bidder to submit an acceptable substitute without an increase in bid price. If the apparent successful bidder does not make such substitution, the contract shall not be awarded to such bidder, but Contractor's failure to make such substitution will not constitute grounds for sacrificing the bid security. Any subcontractor, other person or organization so listed and to whom County does not make written objection prior to the giving of the notice of award will be deemed acceptable to County subject to revocation of such acceptance after the effective date of the agreement as provided in the contract documents.

No Contractor shall be required to employ any subcontractor, other person or organization against whom Contractor has reasonable objection.

The Contractor may not change any subcontractor listed on its bid without written approval from County after a determination that the requirements of Public Contracts Code Section 4107 have been met.

#### **17. BID GUARANTY (BID BOND)**

The bid shall be accompanied by a bid guaranty bond (bid bond) duly completed on the form provided herewith or a form which is substantially similar, by a guaranty company authorized to carry on business in the State of California, for payment to County in the sum of at least ten (10%) percent of the total amount of the bid, or alternatively by a certified or cashier's check, payable to County in the sum of at least ten (10%) percent of the total amount of the bid. A bid bond form which provides further payment of attorney's fees or which contains a termination date will not be considered to be "substantially similar". The amount payable to County under the guaranty bond, or the certified or cashier's check and the amount thereof, as the case may be, shall be forfeited to County as liquidated damages in case of a failure or neglect of the bidder to furnish, execute and deliver to County the required performance and payment bonds, evidence of insurance, and to enter into, execute and deliver to County the contract on the form provided herewith, within **14 days** after being notified in writing by County that the award has been made and the agreement is ready for execution.

All bonds shall have a power of attorney authorizing the signature of the person authorized to sign on behalf of the Surety attached to the bond. The power of attorney signature and the principal's signature shall each (both) be notarized.

The bid bond shall name County as beneficiary and shall specify that the bond is valid for the bid opening of this project as scheduled in the Invitation to Bid.

#### **18. RETURN OF BID GUARANTEES**

Within **ten (10) days** after the bids are awarded, County will return the bid guarantees (other than bid bonds) accompanying the bids for bids not considered in making the award. All other bid guaranties will be held until the contract has been fully executed, after which they will be returned to the respective bidders whose bids they accompany.

#### **19. MODIFICATION OR WITHDRAWAL OF BIDS**

Bids submitted early may be modified or withdrawn by notice to the party receiving bids at the place and prior to the time designated for receipt of bids. Such notice shall be in writing over the signature of the bidder or be by fax; if by fax, written confirmation over the signature of bidder must have been mailed and postmarked on or before the date and time set for receipt of bids; it shall be so worded as not to reveal the amount of original bid. Bids may also be modified or withdrawn in person by the bidder or an authorized representative provided bidder can prove bidder's identity and authority. Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these instructions to bidders.

If, within 24 hours after bids are opened, any bidder files a duly signed written notice with County and promptly thereafter demonstrates to the reasonable satisfaction of County that there was a material and substantial mistake in the preparation of the bid, that bidder may withdraw his or her bid and the bid security will be returned. Thereafter, that bidder will be disqualified from further bidding on the work.

## 20. OPENING OF BIDS

Bids will be opened publicly and read aloud. An abstract of the amounts of the base bids and major alternates (if any) will be made available after the opening of the bids.

## 21. BIDS TO REMAIN OPEN

All bids shall remain open and subject to acceptance for a period of **60 days** from the date of opening, but County may, in County's discretion, release any bid and return the bid security prior to that date.

## 22. POSTPONEMENT OF OPENING

County reserves the right to postpone the date and time for opening of bids at any time prior to the date and time announced in the advertisement.

## 23. AWARD OF CONTRACT

The award of the contract, if awarded, will be made to the lowest responsive, responsible bidder whose bid complies with all the requirements stated herein. Within **60 days** after the time of opening the bids, County will act either to accept a proposal or to reject all proposals. The acceptance of a proposal will be evidenced by a notice of award of contract in writing, delivered in person or by mail to the bidder whose proposal is accepted. No other act of County shall constitute acceptance of a bid. The award of contract shall obligate the bidder whose bid is accepted to furnish a performance bond, payment bond and evidence of insurance (certificates of insurance and endorsements specified in the contract) and execute the agreement set forth in the contract documents

**County reserves the right to reject any and all bids and to waive any and all formalities, and the right to disregard all non-conforming, non-responsive, or conditional bids.** County reserves the right to reject the bid of any bidder if County believes that it would not be in the best interest of the project to make an award to that bidder, whether because the bid is not responsive or the bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by County. County reserves the right to reject any bids which omit a bid on any one or more items on which bids are required; any bids which omit unit prices if unit prices are required; any bids in which unit prices are unbalanced in the opinion of County; any bid accompanied by insufficient or irregular bid security; and any bids from bidders who have previously failed to perform properly or to complete on time contracts of any nature.

It is County's intent to accept alternates (if any are accepted) in the order in which they are listed in the bid form, but County may accept them in any order or combination.

County may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of subcontractors and other persons and organizations must be submitted as provided herein. Operating costs, maintenance considerations, performance data and guarantees of materials and equipment may also be considered by County.

If there is reason to believe that collusion exists among the bidders, none of the bids of the participants in such collusion will be considered, and County may likewise elect to reject all bids received.

County may conduct such investigations as County deems necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications and financial ability of the bidders, proposed subcontractors and other persons and organizations to do the work in accordance with the contract documents to County's satisfaction within the prescribed time. County reserves the right to reject the bid of any bidder who does not pass any such evaluation to County's satisfaction.

If the contract is to be awarded, it will be awarded to the lowest bidder whose evaluation by County indicates to County that the award will be in the best interests of the project.

#### **24. SIGNING OF AGREEMENT**

When County gives a Notice of Award to the successful bidder, it will be accompanied by unsigned counterparts of the agreement and all other contract documents.

**Two copies** of the contract documents will be prepared by County. All copies will be submitted to Contractor, and Contractor shall execute the contract, insert executed copies of the required bonds and power of attorney, and submit all copies to County within **14 days**. The date of execution of the contract shall be left blank for filling in by County.

County will execute all copies, insert the date of signing the contract on the contract and bond forms and on the power-of-attorney and distribute one copy each to County and Contractor. Contractor shall be responsible for distribution of copies to the Surety(ies).

Notwithstanding any action by County to the contrary or by the Board of Supervisors in accepting a bid, there shall be no contract between bidder and County until the contract documents are signed by County.

Failure of the Contractor to execute the contract within the specified time shall be just cause for withdrawal of the contract award by the County and forfeiture by the Contractor of the bid guaranty bond.

#### **25. NOTICE TO PROCEED**

County shall give the successful bidder written notice to proceed with the work within **14 days** of the execution of the contract. Notwithstanding any other provision of the contract, County shall not be obligated to accept or to pay for any work furnished by the Contractor prior to delivery of notice to proceed whether or not County has knowledge of the furnishing of such work.

#### **26. PERFORMANCE AND OTHER BONDS**

The contract documents set forth County's requirements as to performance and other bonds. When the successful bidder delivers the executed contract to County, it shall be accompanied by the required contract security. The bonds shall be provided on County's forms or on forms which are substantially similar. Notwithstanding any language contained in the bonds, County shall not be liable for attorney's fees either for the enforcement of the bond or for any other action under this Contract. Bonds shall not contain any date of termination.

#### **27. CONTRACTUAL RESTRICTIONS**

No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or



approving any architectural, engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County who is in any legislative, executive, supervisory, or other similar function in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

## **28. POSTING SECURITY IN LIEU OF RETENTION**

The Contractor may elect to receive one hundred percent (100%) of payments due under this contract from time to time, without retention of any portion of the payment by the public agency, by depositing securities of equivalent value with County in accordance with the provisions of Section 22300 of the California Public Contract Code; except that no such substitution shall be allowed where federal money is funding the project and federal regulations or policies would prohibit such substitution of securities for the retention. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code, or bank or savings and loan certificates of deposits. Such securities, if deposited by the bidder, shall be valued by County whose decision on the valuation of the securities shall be final. The bidder shall be the beneficial owner of any securities substituted for money withheld and shall receive any interest thereon.

## **29. LIQUIDATED DAMAGES**

The County is authorized by Government Code Section 53069.85 to assess liquidated damages for delay. County refers bidders to the Contract for review of the liquidated damages provision to be included in this contract.

**CHECKLIST OF DOCUMENTS ENCLOSED BY BIDDER**

Bidder shall acknowledge he or she has enclosed all required Bidding Documents listed herein by signing his or her initials in "Bidder" column, after each item.

DOCUMENT	SIGNATURES	
	BIDDER	COUNTY REP.
1. BID FORM (signed)		
2. ACKNOWLEDGMENT OF ADDENDA		
3. BID SECURITY: Bid Bond (must be signed by corporate surety); or Cashier's check; or Certified Check; or Cash		
4. EXPERIENCE STATEMENT FORM (signed)		
5. SUBCONTRACTOR LISTING (signed)		
6. BIDDER'S REPRESENTATIONS: (BIDDER'S QUALIFICATIONS, WORKER'S COMPENSATION CERTIFICATE NON-COLLUSION DECLARATION)		

**BID FORM**

(Nevada County Standard Form Bid Document)

BID TO THE COUNTY OF NEVADA FOR: \_\_\_\_\_

Name of Bidder: \_\_\_\_\_

The work to be done and referred to herein is in Nevada County, State of California, and shall be constructed in accordance with the Plans, Specifications (including the payment of not less than the wage rates set forth therein) and the Contract annexed hereto.

The work to be done is shown on project documents entitled:

**Emergency Vehicle Preemption Safety System Project 2017**

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named herein; that this bid is made without collusion with any other person, firm, or corporation, and in submitting this bid, the undersigned bidder agrees that he or she has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to and all other documents listed or incorporated in the bidding documents and contract documents; and bidder proposes, and agrees if this bid is accepted, that bidder will contract with the County of Nevada in the form of the copy of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of County as therein set forth, and that bidder will take in full payment therefor the following:

**Base Bid Package**

Item No.	Item	Unit of Measure	Estimated Quantity	Item Price	Total
1	Mobilization	LS	1		
2	Traffic Control	LS	1		
3	Emergency Vehicle Preemption System Installation	LS	1		

\* Bidders (or their selected subcontractor) MUST submit separate experience statement detailing recent experience. Failure to complete the experience statement (page 32) will result in bid disqualification.

TOTAL OF BID (in figures): \_\_\_\_\_

TOTAL OF BID (in words): \_\_\_\_\_

**Contract shall be awarded based upon the Base Bid Package (Items 1 - 3)**

The undersigned bidder agrees to furnish the required bonds or other security and to enter into a contract within the time specified in the Instructions to Bidders, and further agrees to complete all work by the bid, in accordance with all requirements the contract.

Receipt of copies of the following addenda is hereby acknowledged.

<u>Addendum No.</u>	<u>Bidder's Signature</u>	<u>Date Acknowledged</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

All addenda received have been considered in preparation of this bid.

Enclosed herewith are the Bid Form, Bid Bond or other security, Experience Statement, Subcontractor Listing and Bidder's Representations form.

In submitting this bid it is understood that the right is reserved by County to reject any and all bids, and it is understood that this bid may not be withdrawn during the period set forth in the Instructions to Bidders.

Envelopes containing bids must be marked as required by the Instructions to Bidders.

County reserves the right to reject any and all bids and to waive any irregularities in bids.

The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

Prices bid shall include overhead, profit and all applicable taxes.

By submission of this bid, each bidder certified, and in the case of a joint bid each party thereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

A bid bond will accompany this bid in a sum of not less than ten percent (10%) of the total amount of the bid and shall be on a form approved by County or a form which is substantially similar, which is attached thereto.

If this bid shall be accepted and the undersigned shall fail to contract as aforesaid, and to give the performance bond and labor and material bond as required in the contract with a surety satisfactory to County within the number of days set forth in the Instructions to Bidders after receipt of notice that the contract has been awarded to the undersigned, County may, at its option, determine that the bidder has abandoned the contract and thereupon the award of the contract shall be null and void and the bidder and surety shall forfeit the security accompanying this bid to the County of Nevada.

Accompanying this bid is \_\_\_\_\_

\_\_\_\_\_  
("Bidder's Bond", "Cashier's Check", "Certified Check" or "Cash")

for \$\_\_\_\_\_ an amount equal to ten percent (10%) of the total bid.

The names of individuals who are principals in any partnership, joint venture, business association or corporation in the foregoing bid are as follows:

\_\_\_\_\_  
\_\_\_\_\_

Licensed in accordance with an act providing for the registration of contractors, License No. \_\_\_\_\_.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Authorized Signature of Bidder

BUSINESS ADDRESS: \_\_\_\_\_

PLACE OF RESIDENCE: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

CLASSIFICATION OF CONTRACTOR'S LICENSE: \_\_\_\_\_

EXPIRATION DATE OF CONTRACTOR'S LICENSE: \_\_\_\_\_

FEDERAL TAX ID. NO.: \_\_\_\_\_

**NOTE:** If bidder 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 bidder 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 bidder is an individual, his or her signature shall be placed above. If a bidder is a joint venture, the documents must be signed by an authorized officer of each firm to the joint venture and shall include the California Contractor's License number of each partner to the joint venture. The signature of any attorney-in-fact must be notarized.

**BIDDER'S BOND**

STATE OF CALIFORNIA

COUNTY OF NEVADA

KNOW ALL PERSONS BY THESE PRESENT,

That we \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_, as principal, and

\_\_\_\_\_

\_\_\_\_\_

as surety, are held and firmly bound unto the County of Nevada in the sum of ten percent (10%) of the total amount of the bid of the principal above named, submitted by said principal to the County of Nevada for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, to the County of Nevada, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$\_\_\_\_\_.

The condition of this obligation is such that whereas the principal has submitted the above-mentioned bid to the County of Nevada, as aforesaid, for certain construction specifically described as follows, for which bids are to be opened at Nevada City, California, on \_\_\_\_\_, for:

\_\_\_\_\_

NOW, THEREFORE, if the aforesaid principal is awarded the contract, and within the time and manner required by the contract documents, after the prescribed forms are presented to him or her for signature, enters into a written Contract, in the prescribed form, in accordance with the bid, and files two bonds with the County of Nevada, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect.

Notice to Surety shall be provided at:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this \_\_\_\_\_  
day of \_\_\_\_\_ A. D. 20\_\_\_\_\_.

\_\_\_\_\_ Seal

\_\_\_\_\_ Seal

\_\_\_\_\_ Seal  
Principal

\_\_\_\_\_ Seal

\_\_\_\_\_ Seal

\_\_\_\_\_ Seal  
Surety

**NOTE:** Signature of Surety shall be notarized. Power of attorney for surety with corporate seal affixed must be attached.



**EXPERIENCE STATEMENT**

The following outline is a record of the bidder's or subcontractor's recent experience in construction of a type similar in magnitude and character to that contemplated under this contract. Additional numbered pages shall be attached to this page as required. Each page shall be headed "Experience Statement" and signed.

**FAILURE TO COMPLETE WILL RESULT IN BID DISQUALIFICATION**

**Vehicle Preemption Systems**

1.) **PROJCET NAME:**

**DATE:**

**INSPECTOR NAME**

**PHONE #**

**CONTRACT AMOUNT:**

**WORK PERFORMED:**

---

---

---

---

---

---

**Vehicle Preemption Systems**

2.) **PROJCET NAME:**

**DATE:**

**INSPECTOR NAME**

**PHONE #**

**CONTRACT AMOUNT:**

**WORK PERFORMED:**

---

---

---

---

---

---

\_\_\_\_\_  
Signature of Contractor

### **SUBCONTRACTOR LISTING**

The following information is submitted which gives the name, business address, and portion of the work for each subcontractor that will be used for a portion of the work equal to or exceeding the amount specified in the Instructions to Bidders if the bidder is awarded the contract. Additional numbered pages shall be attached to this page as required. Each page shall be headed "SUBCONTRACTOR LISTING" and signed.

<u>Name</u>	<u>Business Address</u>	<u>Description of Portion of Work to be Performed</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Subcontractor experience must be listed on "Experience Statement" (page 28) or Bid will be Disqualified.

\_\_\_\_\_  
Signature of Contractor

## **BIDDER'S REPRESENTATIONS**

I, the undersigned, declare as follows:

1. **BIDDER'S QUALIFICATIONS:** That neither I nor a company of which I am more than 50% owner have been disqualified from bidding, removed from a public works construction project or otherwise been prevented from bidding because of a violation of law or a safety regulation.

Further, I declare under penalty of perjury that neither I nor a company of which I am more than a 50% owner, have had more than one final, unappealable finding of contempt of court by a federal court within the immediately preceding two year period because of failure to comply with an order of the Federal court (Public Contract Code Section 10232), which orders the Contractor to comply with an order of the National Labor Relations Board.

Further, I declare under penalty of perjury that I have not been convicted by any court of any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of state or federal antitrust law in connection with the bidding upon, award of, or performance of any public works contract.

2. **WORKER'S COMPENSATION CERTIFICATION (LABOR CODE SECTION 1861):** That I am aware of the provisions of Section 3700 of the Labor Code of the State of California, which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract.

3. **NONCOLLUSION DECLARATION:** I, the undersigned, declare that I am the \_\_\_\_\_ of \_\_\_\_\_, the party making the foregoing bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: \_\_\_\_\_

BIDDER:

By: \_\_\_\_\_

**C O U N T Y O F N E V A D A**

**S T A T E O F C A L I F O R N I A**

**Special Provisions**

for

**Emergency Vehicle Preemption Safety System Project 2017**

County Contract No. 440815

**SECTION 1. GENERAL PROVISIONS**

The work embraced herein shall be done in accordance with the Standard Specifications dated May 2015 and the Standard Plans dated May 2015, of the Department of Transportation insofar as the same may apply and these special provisions. In case of conflict between the Standard Specifications and these special provisions, the special provisions shall take precedence over and be used in lieu of the conflicting portions.

Amendments to the Standard Specifications set forth in these special provisions shall be considered as part of the Standard Specifications for the purposes set forth in Section 5-1.02, "Contract components," of the Standard Specifications. Whenever either the term "Standard Specifications is amended" or the term "Standard Specifications are amended" is used in the special provisions, the indented text or table following the term shall be considered an amendment to the Standard Specifications. In case of conflict between such amendments and the Standard Specifications, the amendments shall take precedence over and be used in lieu of the conflicting portions.

Wherever in the Standard Specifications, Special Provisions, Notice to Contractors, Proposal, Contract, or other Contract documents the following terms are used, the intent and meaning shall be interpreted as follows:

STATE OR COUNTY OR STATE OF CALIFORNIA	County of Nevada
DEPARTMENT OR DEPARTMENT OF TRANSPORTATION	County of Nevada Department of Public Works
DIRECTOR OR DIRECTOR OF TRANSPORTATION	Board of Supervisors County of Nevada
ENGINEER OR CHIEF ENGINEER	Director of Public Works County of Nevada acting either directly or through properly authorized agent and consultants

The following sections of the State of California Standard Specifications dated May 2006 are specifically incorporated herein:

1. Section 1,4,5,6,7,8,9
2. Sections 10 through 96, inclusive

## **SECTION 2. BIDDING**

### **2-1.01 GENERAL**

The Bidder's attention is directed to the bidding documents preceding these Special Provisions and the Standard Form Contract following these Special Provisions.

There is no DBE or DVBE goal for this project.  
This is not a federal aid project.  
There is no Small Business requirement.

## **SECTION 3. BLANK**

## **SECTION 4.**

### **START OF JOB SITE ACTIVITIES, TIME AND LIQUIDATED DAMAGES**

Attention is directed to the provisions in Section 8-1.04, "Start of Job Site Activities;" in Section 8-1.05 "Time;" and in Section 8-1.10, "Liquidated Damages;" of the Standard Specifications and these special provisions.

County shall not be obligated to accept or to pay for any work furnished by the Contractor prior to delivery of notice to proceed whether or not County has knowledge of the furnishing of such work.

The Contractor shall begin work within **7 calendar days** after the Notice to Proceed has been issued by the authorized person to represent the County of Nevada.

This work shall be diligently prosecuted to completion before the expiration of **25 WORKING DAYS** beginning on the fifteenth calendar day after approval of the contract.

The Contractor shall pay to the County of Nevada the sum of **\$750.00 per day**, for each and every calendar day delay in finishing the work in excess of the number of working days prescribed above.

## **SECTION 5. CONTROL OF WORK**

**5-1.01 CONSTRUCTION SURVEYS:** Section 5-1.26 of the State Standard Specifications is amended to read as follows:

“This project will require construction staking to establish the lines and grades required for the completion of the work specified in the Standard Specifications, on the Plans, and in these Special Provisions.

The Contractor shall be responsible to provide all constructions staking as necessary to control lines and grades in conformance with the plans and shall be adequate to accurately locate all design elements of contract work within tolerances set forth in the State Standard Specifications.

Any deviation from lines and grades shall require prior approval from Engineer. All construction staking shall be performed by or under direction of a California licensed Land Surveyor. Construction staking shall include the following, as applicable:

1. Clearing limits (as required for demolition, vegetation removal, and other construction staking)
2. Slope and rough grading
3. Finish grading
4. Curbing and flatwork
5. Storm drains and culverts
6. Utilities (electrical, sanitary, water, etc.)
7. Right of way and fencing
8. Any buildings or structures
9. Any other item of work requiring precise location, either horizontally and/or vertically

“Working stakes” or fill-in staking may be set by contractor’s forces.

Contractor shall be responsible for maintenance and integrity of stakes while required for construction during both work and non-work hours. Construction staking lost or damaged off hours shall be replaced by contractor at no expense to County.

Contractor shall supply county for review any Construction Survey data as requested. Such data typically may include: cut sheets, point plots, electronic files and field notes. County reserves right to review and approve said data prior to placement and/or construction, and my confirm accuracy of construction elements with own forces.

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

**5-1.02 AREAS FOR USE:** Section 5-1.32 of the State Standard Specifications is amended to read as follows:

“The highway right-of-way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right-of-way, or allow others to occupy the right-of-way, for purposes which are not necessary to perform the required work except as provided below.

No area is available within the contract limits for the exclusive use of the Contractor. However, where available temporary storage of equipment and materials on County Property may be arranged with the Engineer but space may be limited. Use of the Contractor's work areas and other County-owned property shall be at the Contractor's own risk, and the County shall not be held liable for any damage to or loss of materials or equipment located within such areas.

The Contractor shall obtain encroachment permits prior to occupying County-owned parcels outside the contract limits. The required encroachment permits may be obtained from the Department of Public Works, Permit Engineer, Dave Borchert.

Residence trailers will not be allowed within the highway right-of-way, except that one trailer may be placed in the County right-of-way at a location to be designated by the Engineer.

The Contractor shall remove all equipment, materials and rubbish from the work areas and other County-owned property which it occupies and shall leave the areas in a presentable condition.

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

### **5-1.03 LABOR NONDISCRIMINATION.**

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

#### **NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM (GOV. CODE, SECTION 12990)**

Your attention is called to the "Nondiscrimination Clause", set forth in Section 7-1.02I (2), "Nondiscrimination," of the Standard Specifications, which is applicable to all nonexempt state contracts and subcontracts and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The Specifications are applicable to all nonexempt state construction contracts and subcontracts of \$5,000 or more.

### **5-1.04 PUBLIC SAFETY.**

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.04, "Public Safety," of the Standard Specifications and these special provisions.

The Contractor shall install temporary railing (Type K) between a lane open to public traffic and an excavation, obstacle or storage area when the following conditions exist:

- A. Excavations.—The near edge of the excavation is 12 feet or less from the edge of the lane, except:
  - 1. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
  - 2. Excavations less than 1-foot deep.
  - 3. Trenches less than 1-foot wide for irrigation pipe or electrical conduit, or excavations less than 1-foot in diameter.
  - 4. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
  - 5. Excavations in side slopes, where the slope is steeper than 1:4 (vertical: horizontal).
  - 6. Excavations protected by existing barrier or railing.
- B. Temporarily Unprotected Permanent Obstacles.—The work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.
- C. Storage Areas.—Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these special provisions.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this section "Public Safety" and in Section 7-1.04, "Public Safety," of the Standard Specifications, shall be offset a minimum of 15-feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than 1-foot transversely to 10-feet longitudinally with respect to the edge of the

traffic lane. If the 15-foot minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Temporary railing (Type K) shall conform to the provisions in Section 12-3.20, " Type K Temporary Railing ," of the Standard Specifications. Temporary railing (Type K), conforming to the details shown on 2015 Standard Plan T3A, may be used. Temporary railing (Type K) fabricated prior to January 1, 1993, and conforming to 1988 Standard Plan B11-30 may be used, provided the fabrication date is printed on the required Certificate of Compliance.

Temporary crash cushion modules shall conform to the provisions in "Temporary Crash Cushion Module" of these special provisions.

Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane unless otherwise provided in the Standard Specifications and these special provisions:

Approach Speed of Public Traffic (Posted Limit) (Miles Per Hour)	Work Areas
45 Miles Per Hour	Within 6-feet of a traffic lane but not on a traffic lane
35 to 45 Miles Per Hour	Within 3-feet of a traffic lane but not on a traffic lane

The lane closure provisions of this section shall not apply if the work area is protected by permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10-feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the provisions in this section "Public Safety," including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

**5-1.05 BUY AMERICA REQUIREMENTS.**

Steel and iron materials must be melted and manufactured in the United States except:

1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials
2. If the total combined cost of the materials does not exceed the greater of 0.1 percent of the total bid or \$2,500, materials produced outside the United States may be used if authorized



Furnish steel and iron materials to be incorporated into the work with certificates of compliance and certified mill test reports. Mill test reports must indicate where the steel and iron were melted and manufactured.

All melting and manufacturing processes for these materials, including an application of a coating, must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied.

#### **5-1.06 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES.**

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

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

If delay of work in the area delays the current controlling operation, the delay will be considered a right of way delay and the Contractor will be compensated for the delay in conformance with the provisions in Section 8-1.07, "Delays," of the Standard Specifications.

#### **5-1.07 SUBCONTRACTING.**

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

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

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

Each subcontract must comply with the contract.

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

Submit copies of subcontracts upon request by the Engineer.

Before subcontracted work starts, submit a Subcontracting Request form.

Do not use a debarred contractor; a current list of debarred contractors is available at the Department of Industrial Relations' Web site.

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

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

#### **5-1.08 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS.**

A prime contractor or subcontractor shall pay any subcontractor not later than 7 days of receipt of each progress payment in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 7 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

#### **5-1.09 PROMPT PAYMENT OF WITHHELD FUNDS TO SUBCONTRACTORS.**

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

#### **5-1.10 PAYMENTS.**

Attention is directed to Section 9-1.16, "Progress Payments," and 9-1.17, "Payment After Contract Acceptance," of the Standard Specifications and these special provisions.

Section 9-1.16E, "Progress Withholds" shall be replaced with the following paragraph:

Pursuant to Public Contract Code § 7201, the County shall retain **five percent (5%)** of Progress Payments as part of security for the fulfillment of the contract by the Contractor, and shall monthly pay to the Contractor, while carrying on the work, the balance not retained as aforesaid, after deducting therefrom all previous payments and all sums to be kept or retained under the provision of the contract. The County will release retention proceeds after the "Date of Completion" in accordance with California Civil Code §3260(c). No such estimate or payment

shall be required to be made when, in the judgment of the Engineer, the work is not proceeding in accordance with the provisions of the contract.

For the purpose of making partial payments pursuant to Section 9-1.16, "Progress Payments," of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work, which will be recognized for progress payment purposes.

Clearing and Grubbing 100%

After acceptance of the contract pursuant to the provisions in Section 5-1.46, "Acceptance of Contract," of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for the item, will be included for payment in the first estimate made after acceptance of the contract.

No partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

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

None

#### **5-1.11 NOISE CONTROL REQUIREMENTS.**

Sound control shall conform to the provisions in Section 14-8.02, "Noise Control," of the Standard Specifications and these Special Provisions.

The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 7:00 a.m. shall not exceed 86 dbA at a distance of 50-feet. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

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

Operation of construction equipment or noise generating activities shall be limited to the daytime hours of 7:00 a.m. to 7:00 p.m. All internal combustion engines in use on site must be equipped with the original manufacturer's silencers or their aftermarket equivalents in good working order.

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

#### **5-1.12 TRAFFIC CONTROL**

The Contractor shall prepare and submit to the Engineer a Traffic Control Plan in conformance with these requirements as the first order of work. Said Traffic Control Plan shall be reviewed and approved by the Engineer and implemented by the Contractor prior to the Beginning of work. It may be necessary to amend or supplement this plan. All such modifications shall be as approved or otherwise directed by the Engineer.

All traffic control shall conform to the minimum standards as set forth in the Manual of Traffic Controls for Construction and Maintenance Work Zones published by the California Department

of Transportation as supplemented by the Standard Specifications and these Special Provisions and as directed by the Engineer.

In addition to the minimum standards, 30 inch by 30 inch signs shall be placed at the beginning and end of each road to be striped stating either "Wet Paint" or "Striping Ahead."

Additionally 30 inch by 36 inch signs that read "Wet Paint" shall be mounted on the front of the lead vehicle and the rear of the trail vehicle and striping machine. In addition a 6-inch by 20-inch sign indicating either yellow or white, depending on the operation at the time, shall be mounted to the "Wet Paint" sign. The white shall have a white background with black lettering and the yellow sign shall have a yellow background with black lettering. Signs are to be mounted so they are visible to traffic. All signs shall be black on orange (except the white and yellow plates) be reflective with a minimum of 5-inch Series C lettering.

Full compensation for preparing and submitting the Traffic Control Plan; and for furnishing, installing and maintaining all construction area traffic controls including all signs, lights, flag person, pilot vehicles, temporary railing, barricades and other warning and safety devices in accordance with these Plans and Special Provisions, the Traffic Control Plan, the Standard Specifications (including Sections 7-1.08, "Public Convenience"; 7-1.09, "Public Safety"; and Section 12, "Construction Area Traffic Control Devices") and as directed by the Engineer shall be included in other items of work and no separate payment will be made therefore except as otherwise noted in these special provisions.

### **5-1.13 DIFFERING SITE CONDITIONS.**

Attention is directed to Section 4-1.06, "Differing Site Conditions," of the Standard Specifications.

The following shall be substituted for Section 4-1.06, "Differing Site Conditions," of the Standard Specifications:

#### ***a. Contractor's Notification***

Promptly notify the Agency's Engineer if you find either of the following conditions:

1. Physical conditions differing materially from either of the following:
  - Contract documents
  - Job site examination
2. Physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the Contract

Include details explaining the information you relied on and the material differences you discovered.

If you fail to promptly notify the Engineer, you waive the differing site condition claim for the period between your discovery of the differing site condition and your notification to the Engineer.

If you disturb the site after discovery and before the Engineer's investigation, you waive the differing site condition claim.

#### ***b. Engineer's Investigation and Decision***

Upon your notification, the Engineer investigates job site conditions and:

1. Notifies you whether to resume affected work

2. Decides whether the condition differs materially and is cause for an adjustment of time, payment, or both

The Contractor will be allowed 15 days from the notification of the Engineer's determination of whether or not an adjustment of the contract is warranted, in which to file a notice of potential claim in conformance with the provisions of Section 5-1.43C, "Supplemental Potential Claim Record," of the Standard Specifications and as specified herein; otherwise the decision of the Engineer shall be deemed to have been accepted by the Contractor as correct. The notice of potential claim shall set forth in what respects the Contractor's position differs from the Engineer's determination and provide any additional information obtained by the Contractor, including but not limited to additional geotechnical data. The notice of potential claim shall be accompanied by the Contractor's certification that the following were made in preparation of the bid: a review of the contract, a review of the "Materials Information," a review of the log of test borings and other records of geotechnical data to the extent they were made available to bidders prior to the opening of bids, and an examination of the conditions above ground at the site. Supplementary information, obtained by the Contractor subsequent to the filing of the notice of potential claim, shall be submitted to the Engineer in an expeditious manner.

#### **5-1.14 PRESERVATION OF PROPERTY.**

In addition to Section 5-1.36, "Property and Facility Preservation," of the Standard Specifications, the following shall apply:

Any tree, shrub or plant used to replace an injured or damaged tree, shrub or plant not scheduled for removal shall be the same species as the tree, shrub or plant being replaced or shall be a plant species approved by the Engineer. All such replacement planting shall be completed before the start of the plant establishment period or at least 15 working days prior to acceptance of the contract if there is no plant establishment period. The minimum size of the tree or shrub replacement shall be five (5) gallons. Replacement planting shall conform to the provisions in Section 20-3.02C(3), "Planting Plants," of the Standard Specifications.

#### **5-1.15 PROTECTION OF ARCHAEOLOGICAL ARTIFACTS.**

Attention is directed to Section 14-2.03, "Archaeological Resources," of the Standard Specifications.

In the event that archaeological artifacts or human remains are uncovered during construction activities, the Contractor shall stop work at that location and immediately notify the Engineer.

The Contractor shall dedicate any discovered artifacts, determined as "removable" by a qualified archaeologist, to the appropriate preservation center, or to the County of Nevada.

If buried cultural resources, such as chipped or ground stone, historic debris, building foundations, or human bone, are discovered during ground-disturbing activities, contractors shall stop work within 100 feet of the find.

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

## **5-1.16 PUBLIC SAFETY**

In addition to any other measures taken by the Contractor pursuant to the provisions of Section 7-1.09, "Public Safety," of the Standard Specifications, the Contractor shall install temporary railing (Type K) between any lane carrying public traffic and any excavation, obstacle, or storage area when the following conditions exist:

1. Excavations.--Any excavation the near edge of which is twelve (12) feet or less from the edge of the lane, except:
  - a. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
  - b. Excavations less than one (1) foot deep.
  - c. Trenches less than one (1) foot wide for irrigation pipe or electrical conduit or excavations less than one (1) foot in diameter.
  - d. Excavations parallel to the lane for the purpose of pavement widening or reconstruction.
  - e. Excavations in side slopes where the slope is steeper than 4:1.
  - f. Excavations protected by existing barrier or railing.
2. Temporarily Unprotected Permanent Obstacles.--Whenever the work includes the installation of a fixed obstacle together with a protective system, such as a sign structure together with protective railing and the Contractor elects to install the obstacle prior to installing the protective system; or whenever the Contractor, for its convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.
3. Storage Areas.--Whenever material or equipment is stored within twelve (12) feet of the lane and such storage is not otherwise prohibited by the specifications.

Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas the Contractor shall close the adjacent traffic lane unless otherwise provided in the specifications:

Approach speed of public  
traffic (Posted Limit)

(Miles Per Hour)  
Work Areas

Over 45

Within six (6) feet of a traffic lane but  
not on a traffic lane.

35 to 45

Within three (3) feet of a traffic lane but  
not on a traffic lane.

When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered to be the edge of traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10-feet without written approval from the Engineer. The lane closure provisions of this section shall not apply if the work area is protected by permanent or temporary railing or barrier.

When work is not in progress on a trench or other excavation that required a lane closure, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Full compensation for furnishing, installing and maintaining all construction control equipment shall be included in other items of work and no additional compensation will be allowed.

#### **5-1.17 COORDINATION WITH PUBLIC UTILITIES.**

Attention is directed to Section 5-1.36D, “Non-Highway Facilities,” of the Standard Specifications. During construction of this project, the Contractor will be required to coordinate his work with other utilities occupying the site.

#### **5-1.18 ENVIRONMENTAL STEWARDSHIP**

Attention is directed to Section 14-1.01, “General” of the Standard Specifications.

This section includes general specifications for environmental compliance and environmental resource management.

#### **5-1.19 QUALITY ASSURANCE**

Attention is directed to Section 6-2.01, “Quality Assurance,” of the Standard Specifications.

The Agency uses a Quality Assurance Program (QAP) to ensure a material is produced to comply with the contract. You may examine the records and reports of the tests the Agency performs if they are available at job site. Schedule work to allow time for QAP as needed.

#### **5-1.20 NATURALLY OCCURRING ASBESTOS (NOA)**

In addition to Section 14-11.02, “Discovery of Unanticipated Asbestos and Hazardous Substances,” of Standard Specifications, the following shall apply:

The Northern Sierra Air Quality Management District (NSAQMD) enforces the Statewide Asbestos Airborne Toxic Control Measure (ATCM) for construction and grading operations (California Code of Regulations, Title 17, Section 93105). This ATCM specifies the geologic map (The Chico Quadrangle) to be used in determining its applicability.

The geologic map indicates the presence of ultramafic rock in the project area, so the likelihood of encountering naturally occurring Asbestos (NOA) is high. The ATCM applies to this area, as well as to any other area where ultramafic rock or serpentine is discovered during grading.

The following requirements shall apply to this project:

1. No person shall conduct any road construction or maintenance activities that disturb any area that meet any criterion listed in subsections (b) (1) or (b) (2) unless all of the following conditions are met.

- (A) The Air Pollution Control Office (APCO) is notified in writing at least fourteen (14) days before the beginning of the activity or in accordance with a procedure approved by the district.
- (B) All of the following dust control measures are implemented during any road construction or maintenance activity:
1. Unpaved areas subject to vehicle traffic must be stabilized by being kept adequately wetted, treated with a chemical dust suppressant, or covered with material that contains less than 0.25 percent asbestos.
  2. The speed of any vehicles and equipment traveling across unpaved areas must be no more than fifteen (15) miles per hour unless the road surface and surrounding area is sufficiently stabilized to prevent vehicles and equipment traveling more than 15 miles per hour from emitting dust that is visible crossing the project boundaries.
  3. Storage piles and disturbed areas not subject to vehicular traffic must be stabilized by being kept adequately wetted, treated with a chemical dust suppressant, or covered with material that contains less than 0.25 percent asbestos; and
  4. Activities must be conducted so that no track-out from any road construction project is visible on any paved roadway open to the public.
- (C) Equipment and operations must not cause the emission of any dust that is visible crossing the project boundaries,

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

**SECTION 6. BLANK**

**SECTION 7. BLANK**



## SECTION 8. MATERIALS

### SECTION 8-1. MISCELLANEOUS

#### **8-1.01 TESTING.**

Whenever a reference is made in the specifications to any of the California Test numbers specified below the corresponding ASTM Designation or AASHTO Designation or AASHTO Designation test numbers may be used to determine the quality of materials.

California Test	ASTM Designation	AASHTO Designation
216	D 1557	T 180
231	D 2922	T 238
203	D 422	T 88
204	D 4318	T 89 (a)
		T 90 (b)
504	C 231	T 152
518	C 138	T 121
521	C 39	T 22
523	C 293 (c)	T 177 (c)
	C 78 (d)	T 97 (d)
533	C 360	--
211	C 131 (e)	T 96 (f)
	C 535 (g)	--

Notes:

- (a) Determining the liquid limit of soils
- (b) Determining the plastic limit of plasticity index of soils
- (c) Flexural strength of concrete (using simple beam with center point loading)
- (d) Flexural strength of concrete (using simple beam with third point loading)
- (e) Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine
- (f) Resistance to abrasion of small-size coarse aggregate by use of the Los Angeles machine
- (g) Resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles machine

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

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

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-2.03C, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

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

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

### **PAVEMENT MARKERS, PERMANENT TYPE**

Retroreflective With Abrasion Resistant Surface (ARS)

- A. Apex, Model 921AR (4" x 4")
- B. Avery Dennison, Models C88 (4" x 4"), 911 (4" x 4") and 953 (2.75" x 4.5")
- C. Ray-O-Lite, Model "AA" ARS (4" x 4")
- D. 3M Series 290 (3.5" x 4")
- E. 3M Series 290 PSA, with pressure sensitive adhesive pad (3.5" x 4")

Retroreflective With Abrasion Resistant Surface (ARS)

(for recessed applications only)

- A. Avery Dennison, Model 948 (2.3" x 4.7")
  - B. Avery Dennison, Model 944SB (2" x 4")\*
  - C. Ray-O-Lite, Model 2002 (2.3" x 4.6")
  - D. Ray-O-Lite, Model 2004 ARS (2" x 4")\*
- \*For use only in 4.5 inch wide (older) recessed slots

Non-Reflective, 4 inches Round

- A. Apex Universal (Ceramic)
- B. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
- C. Glowlite, Inc. (Ceramic)
- D. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
- E. Interstate Sales, "Diamond Back" (Polypropylene)
- F. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
- G. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
- H. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)

### **PAVEMENT MARKERS, TEMPORARY TYPE**

Temporary Markers For Long Term Day/Night Use (6 months or less)

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

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

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

- A. Apex Universal, Model 932
- B. Bunzl Extrusion, Models T.O.M., T.R.P.M., and "HH" (High Heat)
- C. Hi-Way Safety, Inc., Model 1280/1281
- D. Glowlite, Inc., Model 932

### **STRIPING AND PAVEMENT MARKING MATERIAL**

Permanent Traffic Striping and Pavement Marking Tape

- A. Advanced Traffic Marking, Series 300 and 400
- B. Brite-Line, Series 1000
- C. Brite-Line, "DeltaLine XRP"
- D. Swarco Industries, "Director 35" (For transverse application only)
- E. Swarco Industries, "Director 60"
- F. 3M, "Stamark" Series 380 and 5730
- G. 3M, "Stamark" Series 420 (For transverse application only)

Temporary (Removable) Striping and Pavement Marking Tape (6 months or less)

- A. Advanced Traffic Marking, Series 200
- B. Brite-Line, Series 100
- C. Garlock Rubber Technologies, Series 2000
- D. P.B. Laminations, Aztec, Grade 102
- E. Swarco Industries, "Director-2"
- F. Trelleborg Industries, R140 Series
- G. 3M, Series 620 "CR", and Series A750
- H. 3M, Series A145, Removable Black Line Mask  
(Black Tape: for use only on Asphalt Concrete Surfaces)
- I. Advanced Traffic Marking Black "Hide-A-Line"  
(Black Tape: for use only on Asphalt Concrete Surfaces)
- J. Brite-Line "BTR" Black Removable Tape  
(Black Tape: for use only on Asphalt Concrete Surfaces)
- K. Trelleborg Industries, RB-140  
(Black Tape: for use only on Asphalt Concrete Surfaces)

Preformed Thermoplastic (Heated in place)

- A. Avery Dennison, "Hotape"
- B. Flint Trading, "Premark," "Premark 20/20 Flex," and "Premark 20/20 Flex Plus"
- C. Ennis Paint Inc., "Flametape"

Ceramic Surfacing Laminate, 6" x 6"

- A. Highway Ceramics, Inc.

**CLASS 1 DELINEATORS**

One Piece Driveable Flexible Type, 66 inches

- A. Bunzl Extrusion, "Flexi-Guide Models 400 and 566"
- B. Carsonite, Curve-Flex CFRM-400
- C. Carsonite, Roadmarker CRM-375
- D. FlexStake, Model 654 TM
- E. GreenLine Models HWD1-66 and CGD1-66

Special Use Type, 66 inches

- A. Bunzl Extrusion, Model FG 560 (with 18 inches U-Channel base)
- B. Carsonite, "Survivor" (with 18 inches U-Channel base)
- C. Carsonite, Roadmarker CRM-375 (with 18 inches U-Channel base)
- D. FlexStake, Model 604
- E. GreenLine Models HWDU and CGD (with 18 inches U-Channel base)
- F. Impact Recovery Model D36, with #105 Driveable Base
- G. Safe-Hit with 8 inches pavement anchor (SH248-GP1)
- H. Safe-Hit with 15 inches soil anchor (SH248-GP2) and with 18 inches soil anchor (SH248-GP3)

Surface Mount Type, 48 inches

- A. Bent Manufacturing Company, Masterflex Model MF-180EX-48
- B. Carsonite, "Super Duck II"
- C. FlexStake, Surface Mount, Models 704 and 754 TM
- D. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
- E. Three D Traffic Works "Channelflex" ID No. 522248W

**CHANNELIZERS**

Surface Mount Type, 36 inches

- A. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) and MF-180-36 (Flat)
- B. Bunzl Extrusion, Flexi-Guide Models FG300PE and FG300UR
- C. Carsonite, "Super Duck" (Flat SDF-436, Round SDR-336)

- D. Carsonite, "Super Duck II" Model SDCF203601MB "The Channelizer"
- E. FlexStake, Surface Mount, Models 703 and 753 TM
- F. GreenLine, Model SMD-36
- G. Hi-Way Safety, Inc. "Channel Guide Channelizer" Model CGC36
- H. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
- I. Repo, Models 300 and 400
- J. Safe-Hit, Guide Post, Model SH236SMA
- K. Three D Traffic Works "Channelflex" ID No. 522053W

#### Lane Separation System

- A. Bunzl "Flexi-Guide (FG) 300 Curb System"
- B. Qwick Kurb, "Klemmfix Guide System"
- C. Recycled Technology, Inc. "Safe-Lane System"

#### **CONICAL DELINEATORS, 42 inches**

(For 28 inch Traffic Cones, see Standard Specifications)

- A. Bent Manufacturing Company "T-Top"
- B. Plastic Safety Systems "Navigator-42"
- C. Radiator Specialty Company "Enforcer"
- D. Roadmaker Company "Stacker"
- E. Traffix Devices "Grabber"
- F. Three D Traffic Works "Ringtop" TD7000, ID No. 742143

#### **OBJECT MARKERS**

##### Type "K", 18 inches

- A. Bunzl, Model FG318PE
- B. Carsonite, Model SMD 615
- C. FlexStake, Model 701 KM
- D. Repo, Models 300 and 400
- E. Safe-Hit, Model SH718SMA

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

- A. Bent Manufacturing "Masterflex" Model MF-360-24
- B. Bunzl Extrusion, Model FG324PE
- C. Carsonite, Super Duck II
- D. FlexStake, Model 701KM
- E. Repo, Models 300 and 400
- F. Safe-Hit, Models SH8 24SMA\_WA and SH8 24GP3\_WA
- G. The Line Connection, Model DP21-4Q
- H. Three D Traffic Works "Q" Marker, ID No. 531702W

#### **CONCRETE BARRIER MARKERS AND TEMPORARY RAILING (TYPE K) REFLECTORS**

##### Impactable Type

- A. ARTUK, "FB"
- B. Bunzl Extrusion, Models PCBM-12 and PCBM-T12
- C. Duraflex Corp., "Flexx 2020" and "Electriflexx"
- D. Hi-Way Safety, Inc., Model GMKRM100
- E. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
- F. Three D Traffic Works "Roadguide" Model TD 9304

##### Non-Impactable Type

- A. ARTUK, JD Series
- B. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
- C. Vega Molded Products, Models GBM and JD
- D. Plastic Vacuum Forming, "Cap-It C400"

## **METAL BEAM GUARD RAIL POST MARKERS**

(For use to the left of traffic)

- A. Bunzl Extrusion, "Mini" (3" x 10")
- B. Creative Building Products, "Dura-Bull, Model 11201"
- C. Duraflex Corp., "Railrider"
- D. Plastic Vacuum Forming, "Cap-It C300"

## **CONCRETE BARRIER DELINEATORS, 16 inches**

(For use to the right of traffic)

- A. Bunzl Extrusion, Model PCBM T-16
- B. Safe-Hit, Model SH216RBM

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

- A. Stinson Equipment Company "SaddleMarker"

## **SOUND WALL DELINEATOR**

(Applied vertically. Place top of 3" x 12" reflective element at 48 inches above roadway)

- A. Bunzl Extrusion, PCBM S-36

## **GUARD RAILING DELINEATOR**

(Place top of reflective element at 48 inches above plane of roadway) Wood Post Type, 27 inches

- A. Bunzl Extrusion, FG 427 and FG 527
- B. Carsonite, Model 427
- C. FlexStake, Model 102 GR
- D. GreenLine GRD 27
- E. Safe-Hit, Model SH227GRD
- F. Three D Traffic Works "Guardflex" TD9100

### Steel Post Type

- A. Carsonite, Model CFGR-327 with CFGRBK300 Mounting Bracket

## **RETROREFLECTIVE SHEETING**

### Channelizers, Barrier Markers, and Delineators

- A. Avery Dennison T-6500 Series (For rigid substrate devices only)
- B. Avery Dennison WR-6100 Series
- C. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- D. Reflexite, PC-1000 Metalized Polycarbonate
- E. Reflexite, AC-1000 Acrylic
- F. Reflexite, AP-1000 Metalized Polyester
- G. Reflexite, Conformalight, AR-1000 Abrasion Resistant Coating
- H. 3M, High Intensity

### Traffic Cones, 13 inches Sleeves

- A. Reflexite SB (Polyester), Vinyl or "TR" (Semi-transparent)

### Traffic Cones, 4 inch x 6 inch Sleeves

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

### Barrels and Drums

- A. Avery Dennison WR-6100
- B. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
- C. Reflexite, "Conformalight", "Super High Intensity" or "High Impact Drum Sheeting"

D. 3M Series 3810

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

- A. American Decal, Adcolite
- B. Avery Dennison, T-1500 and T-1600 series
- C. 3M Engineer Grade, Series 3170

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

- A. Avery Dennison, T-2500 Series
- B. Kiwalite Type II
- C. Nikkalite 1800 Series

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

- A. Avery Dennison, T-2500 Series
- B. Kiwalite, Type II
- C. Nikkalite 1800 Series

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

- A. Avery Dennison, T-5500 and T-5500A Series
- B. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
- C. 3M Series 3870

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

- A. Avery Dennison, T-6500 Series
- B. Nippon Carbide Industries, Crystal Grade, 94000 Series
- C. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
- D. Nippon Carbide Industries, Model No. 94844 Fluorescent Yellow Green

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

- A. Avery Dennison, WU-6014
- B. Novabrite LLC, "Econobrite"
- C. Reflexite "Vinyl"
- D. Reflexite "SuperBright"
- E. Reflexite "Marathon"
- F. 3M Series RS34 Orange and RS20 Fluorescent Orange

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

- A. 3M LDP Series 3924 Fluorescent Orange
- B. 3M LDP Series 3970

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

- A. Avery Dennison, T-7500 Series
- B. Avery Dennison, T-7511 Fluorescent Yellow
- C. Avery Dennison, T-7513 Fluorescent Yellow Green
- D. Avery Dennison, W-7514 Fluorescent Orange
- E. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
- F. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92844 Fluorescent Yellow/Green
- G. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange

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

- A. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
- B. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
- C. 3M VIP Series 3990 Diamond Grade

**SPECIALTY SIGNS**

- A. Hallmark Technologies, Inc., All Sign STOP Sign (All Plastic), 30 inches

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

**SIGN SUBSTRATE**

Fiberglass Reinforced Plastic (FRP)

- A. Fiber-Brite
- B. Sequentia, "Polyplate"
- C. Inteplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48 inches or less)

Aluminum Composite

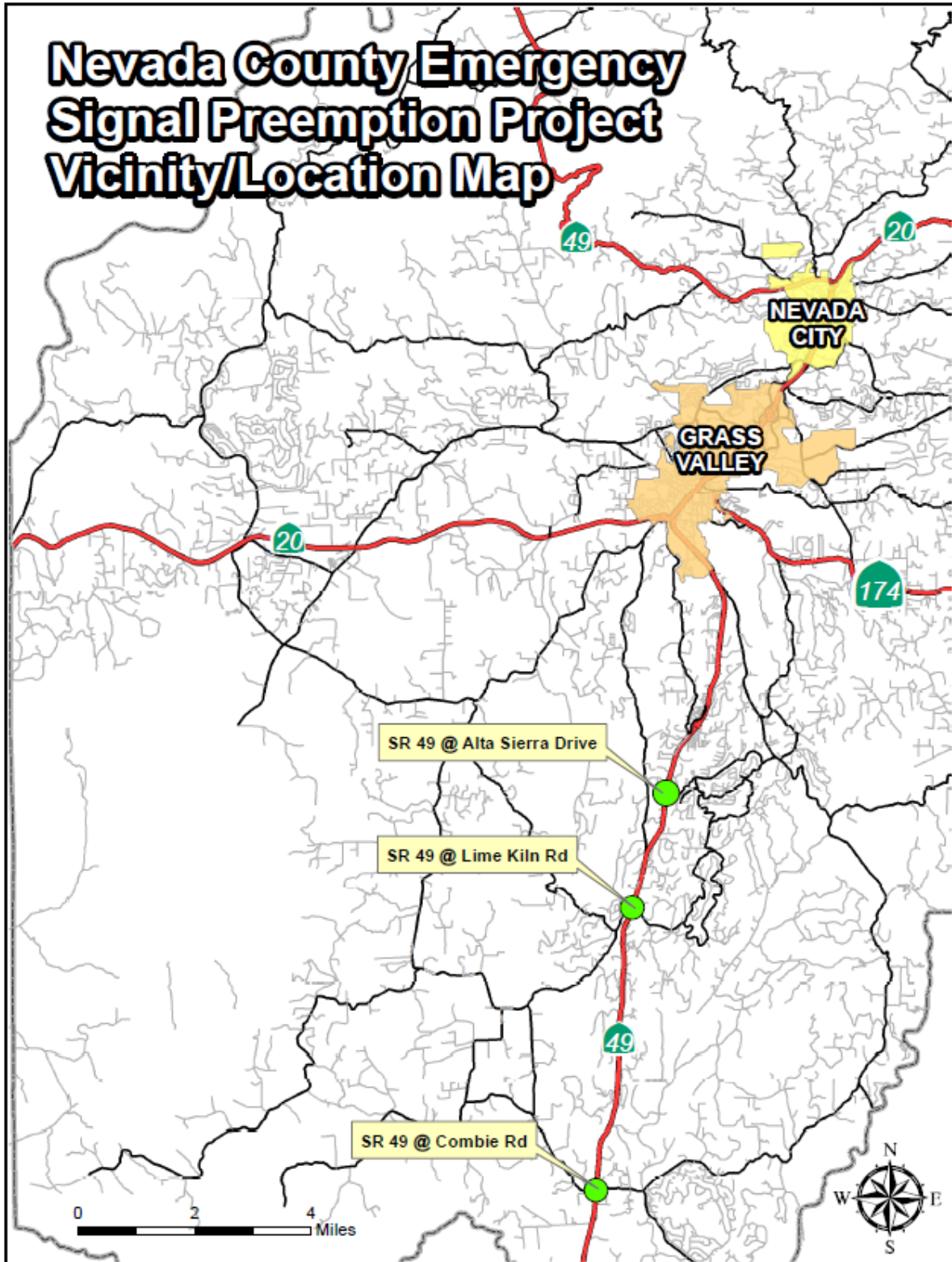
- A. Alcan Composites "Dibond Material, 0.08 inch" (for temporary construction signs only)
- B. Mitsubishi Chemical America, Alpolic 350 (for temporary construction signs only)

## **SECTION 9. DESCRIPTION OF WORK**

The work to be done, in general, consists of installing emergency vehicle preemption safety systems at three existing signalized intersections along State Highway 49, at the intersections of Alta Sierra Drive, Lime Kiln Road, and Combie Road / Wolf Road. Work will be performed on State of California Right of Way and will require a Caltrans Encroachment Permit. The County will be responsible for the Caltrans Encroachment Permit acquisition. However, the Contractor shall coordinate with Caltrans as necessary to perform the work.



**9-1.01 DESCRIPTION OF ROAD**



## **SECTION 10. CONSTRUCTION DETAILS**

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

#### **10-1.01 ORDER OF WORK.**

Order of work shall conform to the provisions in Section 5-1.01, "Control of Work," of the Standard Specifications and these special provisions.

Upon completion of the Contractor's daily operations which obliterate pavement delineation (land lines, either pavement markers or painted lane lines or both), such pavement delineation shall be replaced by temporary delineation. Temporary delineation shall consist of reflective traffic line tape applied in pieces not less than four (4) inches long nor less than four (4) inches wide spaced no more than twelve (12) feet apart on curves nor more than twenty-four (24) feet apart on tangents. Reflective traffic line tape shall be applied in accordance with the manufacturer's instructions. Temporary delineation shall be the same color as the permanent delineation. Full compensation for temporary delineation shall be considered as included in the prices paid for the contract items of work that obliterated the existing delineation and no separate payment will be made therefore.

#### **10-1.02 PROGRESS SCHEDULE.**

A progress schedule shall be submitted to the Engineer in accordance with Section 8-1.02, "Schedule," of the State Standard Specifications. The schedule shall be prepared using the critical path method (CPM) format.

#### **RETENTION**

The Department will retain an amount equal to 5 percent of the estimated value of the work performed during each estimate period in which the Contractor fails to submit an acceptable schedule conforming to the requirements of these special provisions as determined by the Engineer. Schedule retentions will be released for payment on the next monthly estimate for partial payment following the date that acceptable schedules are submitted to the Engineer or as otherwise specified herein. Upon completion of all contract work and submittal of the final update schedule and certification, any remaining retained funds associated with this section, "Progress Schedule (Critical Path Method)", will be released for payment. Retentions held in conformance with this section shall be in addition to other retentions provided for in the contract. No interest will be due the Contractor on retention amounts.

#### **PAYMENT**

Full compensation for the required schedules and software shall be considered as included in the contract prices paid for the various items of work involved, and no additional compensation will be allowed therefor.

#### **10-1.03 OBSTRUCTIONS.**

Attention is directed to Section 5-1.36D, "Non-Highway Facilities," and Section 15, "Existing Facilities," of the Standard Specifications and these special provisions.

The Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least 2 working days, but not more than 14 calendar days, prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire or other structure. Regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Numbers
Underground Service Alert-Northern California (USA)	(800) 642-2444 (800) 227-2600
Underground Service Alert-Southern California (USA)	(800) 422-4133 (800) 227-2600

#### **10-1.04 DUST CONTROL**

Dust control shall conform to the provisions in Section 10-5, "Dust Control," of the Standard Specifications and these special provisions.

Dust control shall be provided by the Contractor on a daily basis including weekends and holidays. Water shall be applied as provided in Section 10-6, "Watering," of the Standard specifications and these Special Provisions.

The application of water shall be subject to control by the Engineer at all times and shall be applied in the amounts at the locations and at the times designated by the Engineer.

Full compensation for applying water will be considered as included in other items of work and no separate payment will be made therefore.

#### **10-1.05 MAINTAINING TRAFFIC**

Attention is directed to Sections 7-1.03, "Public convenience", 7-1.04, "Public Safety", and 12-3, "Temporary Traffic Control Devices", of the Standard Specifications and these special provisions. Nothing in these special provisions shall be construed as relieving the Contractor from its responsibility as provided in said Section 7-1.04.

Illuminated traffic cones when used during the hours of darkness shall be affixed or covered with reflective cone sleeves as specified in Section 12-3.02, "Traffic Cones," of the Standard Specifications, except the sleeves shall be 7-inches long.

Lane closures shall conform to the provisions in the section of these special provisions entitled "Traffic Control System for Lane Closure."

Personal vehicles of the Contractor's employees shall not be parked on the traveled way, including any section closed to public traffic.

The Contractor shall notify County of his/her intent to begin work at least 72 hours before work is begun. The Contractor shall notify all local emergency services at least 10 days prior to any road closure. The Contractor shall cooperate with County relative to handling traffic through the area and shall make his/her own arrangements relative to keeping the working area clear of parked vehicles.

The Contractor shall provide access for emergency vehicles at all times during the construction of this road.

Whenever vehicles or equipment are parked on the shoulder within 6 feet of a traffic lane, the shoulder area shall be closed with fluorescent traffic cones or portable delineators placed on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at 25-foot intervals to a point not less than 25-feet past the last vehicle or piece of equipment. A minimum of 9 cones or portable delineators shall be used for the taper. A C23 (Road Work Ahead) or C24 (Shoulder Work Ahead) sign shall be mounted on a telescoping flag tree with flags. The flag tree shall be placed where directed by the Engineer.

A minimum of one traffic lane, not less than 12 feet wide, shall be open for use by public traffic. When construction operations are not actively in progress, not less than two such lanes shall be open to public traffic.

During hauling and excavation operations, the road may be closed and public traffic stopped for periods not to exceed 20 minutes. During those closure periods, the Contractor shall place signs warning traffic of 20-minute delays. After each closure, all accumulated traffic shall be allowed to pass through the work before another closure is made.

The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays and designated legal holidays after 3:00 p.m. on Fridays and the day preceding designated legal holidays and when construction operations are not actively in progress.

Designated legal holidays are: January 1st, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, November 11th, Thanksgiving Day and December 25th. When a designated legal holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When November 11th falls on a Saturday, the preceding Friday shall be a designated legal holiday.

Minor deviations from the requirements of this section concerning hours of work which do not significantly change the cost of the work may be permitted upon the written request of the Contractor if in the opinion of the Engineer public traffic will be better served and the work expedited. Such deviations shall not be adopted until the Engineer has indicated his/her written approval. All other modifications will be made by contract change order.

#### **10-1.06 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE**

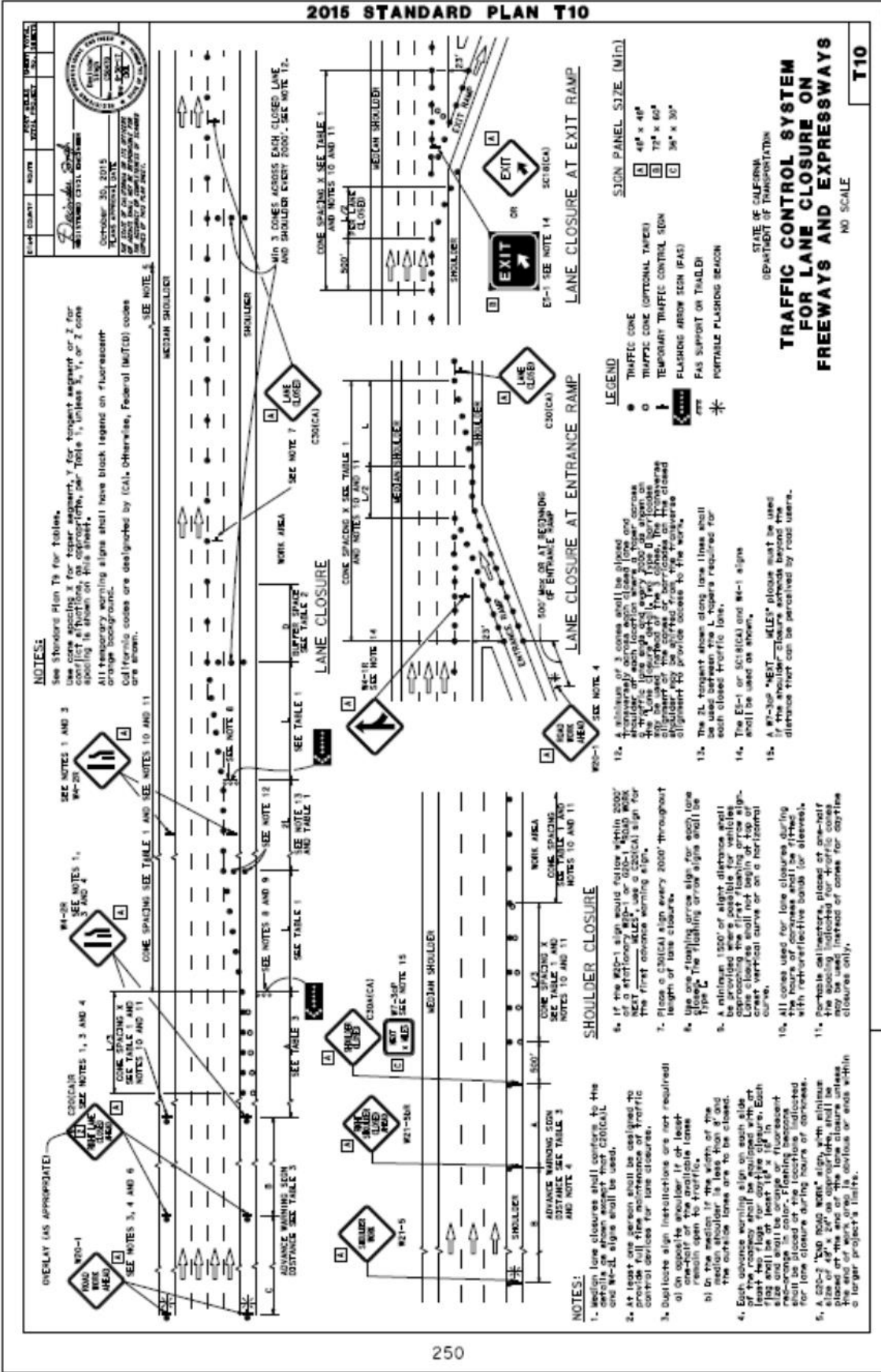
A traffic control system shall consist of closing traffic lanes in accordance with Section 12, "Temporary Traffic Control," of the Standard Specifications, the provisions under Section 12-4, "Maintaining Traffic" elsewhere in these Special Provisions, and these special provisions.

The provisions in this section will not relieve the Contractor from its responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.04, "Public Safety," of the Standard Specifications.

During the hours of darkness, as defined in Division 1, Section 280, of the Vehicle Code, portable signs shall be, at the option of the Contractor, either illuminated signs in conformance with the provisions in Section 12-3.11B(3), "Portable signs", of the Standard Specifications; or Reflexite vinyl microprism reflective sheeting signs; or 3M high intensity reflectorized sheeting on aluminum substrate signs or Seibulite Brand Ultralite Grade Series, encapsulated lens retroreflective sheeting signs; or equal.

If any component in the traffic control system is displaced or ceases to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

When lane closures are made for work periods only at the end of each work period, all components of the traffic control system, except portable delineators placed along open trenches or excavation adjacent to the traveled way, shall be removed from the traveled way and shoulder. If the Contractor so elects, said components may be stored at selected central locations, approved by the Engineer, within the limits of the County road right-of-way. Contractor shall adhere to Caltrans standard Traffic control plans T10, T11 at a minimum and any additional traffic control measures as needed.



**NOTES:**  
 See Standard Plan T9 for Tables.  
 Use cone spacing 2 for taper segments, 3 for tangent segment, 4 for 2 cones spacing, 5 for 1 cone spacing, 6 for 1 cone spacing, 7 for 1 cone spacing, 8 for 1 cone spacing, 9 for 1 cone spacing, 10 for 1 cone spacing, 11 for 1 cone spacing.  
 All temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CAL). Otherwise, Federal (MUTCD) codes are shown.

- NOTES:**
- Median lane closures shall conform to the details shown except that CROCCAL shall be used.
  - At least one person shall be assigned to provide full-time maintenance of traffic control devices for lane closures.
    - Duplicate sign instructions are not required on opposite shoulder. If at least one-half of the available lanes on the median shoulder is less than 8' and the outside lanes are to be closed.
  - Each advance warning sign on each side of the roadway shall be equipped with an arrow pointing in the direction of travel. The sign shall be at least 18" x 18" in size and shall be orange or fluorescent yellow-green. The sign shall be placed at the locations indicated for lane closure during hours of darkness.
  - A 600-3 "ROAD WORK" sign with minimum size of 48" x 24" as appropriate, shall be placed on the shoulder of the lane closure unless the project is within a larger project's limits.

- If the 600-1 sign would follow within 200' of a stationary sign or 600-1 ROAD WORK sign, the 600-1 sign shall be replaced with the first advance warning sign.
- Place a CROCCAL sign every 200' throughout length of lane closure.
- Use one "trailing arrow" sign for each lane type and the following arrow signs and be placed 1500' or slight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. The sign shall be placed on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retro-reflective bands (or sleeves).
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- A minimum of 3 cones shall be placed transversely across each closed lane and 5 traffic cones shall be placed on the shoulder of the closed lane. The cones shall be placed in a staggered alignment of two cones or barricades on the closed alignment to provide access to the work.
- The 2L tangent arrow along lane lines shall be used between the 2L signs required for each closed traffic lane.
- The 600-1 or 600-14 and 600-1 signs shall be used as shown.
- A 600-3 "NEXT" sign shall be used if the shoulder closure extends beyond the distance that can be perceived by road users.

- LEGEND**
- TRAFFIC CONE
  - TRAFFIC CONE (OPTIONAL TAPER)
  - TEMPORARY TRAFFIC CONTROL SIGN
  - FLASHING ARROW SIGN (PAS)
  - FAS SUPPORT ON TRIANGLE
  - PORTABLE FLAGGING BEACON

**CONE PANEL SIZE (Min)**

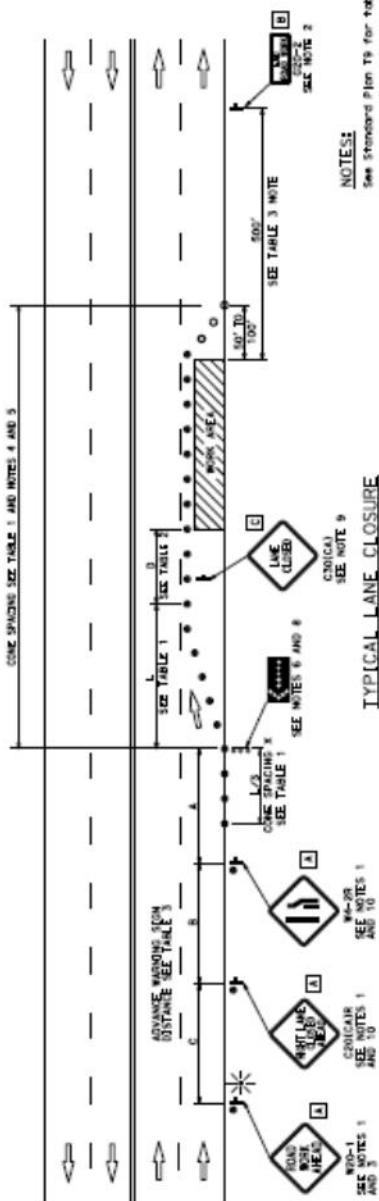
A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE  
**T10**

DATE	COUNTY	ROUTE	SECTION	POST MILE	SHEET NUMBER

*Debra G. Smith*  
CALIFORNIA CIVIL ENGINEER

October 30, 2015  
PROJECT NUMBER: 00000000  
SHEET NUMBER: T11  
OF 0000  
DATE OF ISSUE: 08/20/15  
PROJECT TITLE: [REDACTED]  
SHEET TITLE: TYPICAL LANE CLOSURE



TYPICAL LANE CLOSURE

**NOTES:**  
See Standard Plan T9 for tables.  
Use cone spacing X for taper segment, Y for tangent segment or Z for cone spacing at intersections, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
All temporary warning signs shall have black legend on fluorescent retro-reflective background.  
Sign codes are designated by (CAL) otherwise, Federal (MUTCD) codes are shown.

**LEGEND**

•	TRAFFIC CONE	□	48" x 48"
○	TRAFFIC CONE (OPTIONAL TAPER)	□	36" x 16"
↑	TEMPORARY TRAFFIC CONTROL SIGN	□	30" x 30"
↔	FLASHING ARROW SIGN (FAS)		
⋈	FAS SUPPORT OR TRAILER		
⋆	PORTABLE FLASHING BEACON		

**NOTE 1:**  
For approach speeds over 55 mph, use the Traffic Control System for Lane Closure on Freeways and Expressways plan for lane closure details and requirements.  
A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first advance warning sign and the top of each vertical curve or on a horizontal curve.  
Place a CONICAL sign every 2000' throughout length of lane closure.  
Median lane closures shall conform to the details shown under "CONICAL and W-T" signs and be used.  
At least one person shall be assigned to provide all the advance warning traffic control devices for lane closure areas, otherwise directed by the Engineer.

**NOTE 2:**  
Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be 12" x 18" and shall be orange or fluorescent retro-reflective in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.  
A 600-1 "END ROAD AHEAD" sign, as appropriate, shall be placed at the end of the lane closure where possible and at the beginning, or ends within a larger project's limits.  
If the 600-1 sign would not be within 2000' of a structure, use a 600-2 "ROAD AHEAD" sign for the first advance warning sign.  
All cones used for lane closures during the hours of darkness shall be fitted with retro-reflective bands for sleeves.  
Portable reflectors, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
FOR LANE CLOSURE ON  
MULTILANE CONVENTIONAL  
HIGHWAYS**  
NO SCALE

T11

The first paragraph of Section 12-1.04, "Payment" is deleted.

Full compensation for providing the traffic control system including all flagging costs shall be considered as included in the lump sum price paid under traffic control and no additional compensation will be allowed therefore.

#### **10-1.07 PROJECT MOBILIZATION**

Mobilization shall conform to the provisions in Section 9-1.16D, "Mobilization," of the Standard Specifications.

Full compensation for "Project Mobilization" shall be considered as included in the lump sum price paid under Mobilization for the of work involved and no additional compensation will be allowed therefor.

#### **10-1.08 EXISTING FACILITIES**

The work performed in connection with various existing facilities shall conform to the provisions in Section 15, "Existing Facilities," of the Standard Specifications and these Special Provisions.

#### **10-1.09 EXISTING COUNTY ROAD FACILITIES**

The work performed in connection with various existing facilities shall conform to the provisions in Section 15, "Existing Highway Facilities," of the Standard Specifications and these Special Provisions.

#### **10-1.10 EMERGENCY VEHICLE PREEMPTION SYSTEM**

The vehicle preemption system shall have the ability to detect GPS based signals and the modulated signal detection system shall also be able to interface with variour regional agency "Opticom" detection system as manufactured by GTT / 3M or approved equal. The controllers shall be equipped with internal circuitry to provide programmable channels of emergency vehicle preemption. The detectors shall have a minimum range of 2500 feet.

The system shall consist of 1 GPS radio unit (mast mount) at each intersection, and a modulated infrared signal detection system on each leg of each intersection, all necessary cables, interface panels, Multi mode phase selectors, single channel, two direction detectors and detector cable.

The controller cabinets shall be wired with a "D" connector or special function cable to provide all necessary controller connections for emergency vehicle preemption. The phase selectors or discriminators shall be wired to provide emergency vehicle preemption for the emergency vehicle phases as shown on the Drawings.

Single channel, Two directional detectors shall be an Opticom 721 or an approved equal, the 4 channel Multimode Phase selector shall be an Opticom 764 or an approved equal. All equipment shall be compatible with standard Caltrans 332 cabinet and Model 170 or 2070 series controller.

The Contractor shall provide a qualified person familiar with the Opticom equipment to program and review field installation. The qualified person shall be approved by the Engineer. In addition,

the Contractor is required to coordinate with Caltrans signal maintenance personnel prior to equipment installation.

The use of 'or equal' products is allowed; however, any proposed alternatives must fully meet or exceed the specifications and must include integrated GPS / Infrared functionality. The County will not accept standalone infrared preemption equipment as an or equal.

#### Field Unit Performance Testing:

Contractor shall develop, document, and implement a Field Unit Verification/Validation Performance Test Plan. The Verification portion of the plan will demonstrate system performance to the specifications guaranteed by the equipment provider and insure that the installations are completed per manufacturer documented installation procedures. The Validation portion of the plan will demonstrate that the system meets user expectations as defined in the IFB document(s) and insure that any/all performance issues have been addressed.

Contractor shall work with the user, stakeholders, and installers to finalize, coordinate and implement the Field Unit Verification/Validation Performance Test Plan, document and distribute Verification/Validation Performance Test Plan results in a predetermined and agreed to format.

The Field Unit Performance Test will be completed no later than 60 days after award of contract. The Final Test Plan will specify the number of completed intersections and vehicles required to perform a comprehensive test

The contract item Emergency Vehicle Preemption System shall include full compensation for furnishing all labor, material, tools, installation, equipment and incidentals and for doing all the work involved in installing and testing the system as shown on the plans and outlined in these specifications shall be included in the contract lump sum price paid for Emergency Vehicle Preemption system and no separate payment will be made therefor.

#### **10-1.11 CLEAN-UP**

Attention is directed to Section 14-1.13, "Clean-Up," of the Standard Specifications.

Clean-up shall consist of removing and disposing of all construction materials in connection with work. All parts of the work shall be left in a neat presentable condition.

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



**SECTION 11. Updated Standard Specifications as of January 11, 2017**

<b>SSO No</b>	<b>Effective Date</b>	<b>Description</b>	<b>Update</b>
RSS	A12-02-16		Section 1-1.11. Deleted the row for Bidders' Exchange in the table of section 1-1.11. Section 2. Section replaced. Deleted specifications for paper bids. Incorporated all bid form submittal schedules SSPs into the RSS. Revised the DBE form submittal schedules.
SN-008	A12-02-16		New SN for submittal of DBE forms
2-1.33D(2)(b)	C12-02-16	--	Canceled Incorporated into the RSS for section 2.
2-1.33D(2)(c)	C12-02-16	--	Canceled Incorporated into the RSS for section 2.
2-1.33D(3)(b)	C12-02-16	--	Canceled Incorporated into the RSS for section 2.
2-1.33D(3)(c)	C12-02-16	--	Canceled Incorporated into the RSS for section 2.

RSS	A09-02-16		Section 13-3-3.01D(2). Replaced the expiring General Permit number for the Lake Tahoe Hydrologic Unit with the new permit number that goes into effect in December, 2016. Section 13-3-8.01D(2). Replaced the expiring General Permit number for the Lake Tahoe Hydrologic Unit with the new permit number that goes into effect in December, 2016.
-----	-----------	--	--

StdPln	A07-15-16	Standard Plans List	Revised the Standard Plans List to coincide with the Revised Standard Plans for the 2015 Standard Plans Erratum No. 3.
Canceled_StdPln	A07-15-16	Canceled Standard Plans List	Revised the Canceled Standard Plans List to coincide with the 2015 Standard Plans Erratum No. 3.
RSS	A07-15-16		Section 1-1.06. Added the abbreviations CISS, CSL, and GGL for revised Section 49 specifications.  Section 7-1.03. Added specs for temporary transverse tapers  Section 8-1.10A. Updated rates and bid ranges for liquidated damages.  Section 12-4.02A(3)(a). Corrected mistranslation. Added sentence that was in

			<p>the 2010s to the 2015s (requirement that contractor must submit request for change to work hours at least 15 days before the proposed closure.)</p> <p>Section 12-6.03A. Revised a sentence in the Construction section to clarify that all types of temporary pavement delineation must be removed when the Engineer determines they are no longer needed.</p> <p>Section 2.01C(2). Revised supply line trench depth.</p> <p>Section 20-2.05B. Revised impeller and shaft for flow sensor.</p> <p>Section 20-2.09B. Clarified components for sprinkler assemblies.</p> <p>Section 20-2.10B(3). Clarified requirements for check valve options.</p> <p>Section 20-3. Revised specifications for staking and tying planted trees and vines.</p> <p>Section 20-5. Revised Landscape Elements to specify Inert Ground Covers and Wood Mulch under separate subsections.</p> <p>Section 21-2.02Q. Added 8 inch diameter size for compost sock.</p> <p>Section 23. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 24. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 25. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 26. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 27. Updated to add quality assurance requirements based on the</p>
--	--	--	---

			<p>Department's Material Plant Quality Program.</p> <p>Section 28. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 29. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 30. Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.</p> <p>Section 37. Reorganized section, changed section name to seal coats, and included quality assurance requirements in the specifications.</p> <p>Section 39-3.04A. Update the RSS to require paving cold planned areas in the same work shift.</p> <p>Section 39-3.04C(4). Removed requirement for temporary taper slopes. Temporary taper slope requirements are in section 7-1.03.</p> <p>Section 39. Added warm mix asphalt requirements.</p> <p>Section 39-2.01C. Updated references to section 37.</p> <p>Section 47-2.02A. Revised materials for rock slope protection at drain pipe outlets. This revision was triggered by changes in section 72 and must post concurrently.</p> <p>Section 47-2.02A. Supplemental RSS to complement section 72 RSS revising rock gradation.</p> <p>Section 49-1.01D(4). Revised requirements for dynamically monitored piles.</p> <p>Section 49-2. Corrected reference.</p> <p>Section 49-3. Revisions made to clarify the work and reorganize the section.</p> <p>Section 50-1.01. Revised calibration of</p>
--	--	--	---

			<p>prestressing jacks requirement.</p> <p>Section 51. Revised to include precast drainage inlets.</p> <p>Section 56. Revised to comply with revised standard plans.</p> <p>Section 59-1.02B. Added manufactured abrasives to the list of abrasives allowed for blast cleaning structural steel.</p> <p>Section 59-2.01C(1). Restored the requirement for providing enclosures for cleaning and painting structural steel.</p> <p>Section 60-3.04B(3)(c). Deleted transverse taper requirement.</p> <p>Section 64-3. Added a section for slotted plastic pipe.</p> <p>Section 72. Revised the tables for rock gradation in section 72-2.02B, fabric class in section 72-2.02C, concreted rock gradation in section 72-3.02C, and minimum concrete penetration in section 72-3.03E.</p> <p>Section 73-3.01A. Fixed a typographical error.</p> <p>Section 80-4. Added a section for wildlife exclusion fences.</p> <p>Section 84-8. Specified locations where shoulder rumble strip construction is not allowed. Added tolerances for indentations, noise level requirements for grinding activities, and locations and distances for breaking rumble strips.</p> <p>Section 90-1.01D(5)(a). Revised curing method to correct error.</p> <p>Section 90-9. Added recycled plastic concrete specs.</p>
12-4.02C(3)(a)	A07-15-16	--	Added requirement that work may be performed at only 1 location in each direction of travel at a time. Clarified some instructions and corrected one mistranslation from the 2010s.
12-4.02C(3)(e)	A07-15-16	--	Added requirement restricting work on Halloween night.

12-4.02C(7)	A07-15-16	--	Deleted paragraphs that applied to traffic management for seal coat work, since those paragraphs are now covered in section 37-2.01C(1) of the RSS for section 37.
19-3.02E	A07-15-16		New SSP for slurry cement backfill containing returned plastic concrete.
24-3	A07-15-16	Cement Stabilized Soil	Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.
26-1	A07-15-16	--	Updated to add quality assurance requirements based on the Material Plant Quality Program.
27-1	A07-15-16	--	Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.
28-3	A07-15-16	Rapid Strength Concrete Base	Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.
30-2	A07-15-16	Pulverized Roadbed	Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.
30-4	A07-15-16	Full-Depth Reclamation-Cement	Updated to add quality assurance requirements based on the Department's Material Plant Quality Program.
36-4	A07-15-16	--	Revised to include a missing revision clause
37-1.01D(2)	C07-15-16	--	Canceled. Section 37 was reorganized.
37-2.01C(1)	C07-15-16	--	Canceled. Section 37 was reorganized.
37-2.02	A07-15-16		Due to reorganization, specifies asphaltic emulsion grade and aggregate gradation for asphaltic emulsion chip seals and double asphaltic emulsion chip seals.
37-2.03	A07-15-16		Due to reorganization, specifies the grade of asphaltic emulsion and aggregate gradation for polymer modified asphaltic emulsion chip seals and double polymer modified asphaltic emulsion chip seals.
37-2.04	A07-15-16		Due to reorganization, includes specifications for asphalt rubber binder chip seals.
37-2.04B	C07-15-16	--	Canceled. Section 37 was reorganized.

37-2.04C	C07-15-16	--	Canceled. Section 37 was reorganized.
37-2.05	A07-15-16		Due to reorganization, includes specifications for SAMI when it is opened to traffic.
37-2.05B	C07-15-16	--	Canceled. Section 37 was reorganized.
37-2.06	C07-15-16	--	Canceled. Section 37 was reorganized.
37-3	C07-15-16	--	Canceled. Section 37 was reorganized.
37-3.01	A07-15-16		Due to the reorganization, this specifies aggregate type and specifications for truck mounted mixer spreaders.
37-3.03B(6)	A07-15-16		Due to reorganization, use to specify the grade of asphaltic emulsion for tack coat.
37-4	C07-15-16	--	Canceled. Section 37 was reorganized.
37-4.02B	A07-15-16		Due to the reorganization, use to specify the grade of asphaltic emulsion for fog seals.
37-5	C07-15-16	--	Canceled. Section 37 was reorganized.
37-5.03	A07-15-16		Due to the reorganization, use to specify the application rate of parking area seals.
37-6	A07-15-16		Due to reorganization, use to specify crack treatment type and application.
39-2.02	A07-15-16	--	Deleted WMA requirements that were added into the section 39 RSS.
39-2.03	A07-15-16	--	Deleted WMA requirements that were added into the section 39 RSS.
39-2.04	A07-15-16	--	Deleted WMA requirements that were added into the section 39 RSS.
39-3.04	A07-15-16	--	Updated SSP to only change timeframes and locations when cold planned areas are to not be covered in the same work shift.
49-1.01D(4)	A07-15-16	--	Revised instructions for using dynamic monitoring.
49-3.02C(5)	A07-15-16	--	Rigid cylinder specifications moved to the RSS. Revised vertical inspection pipe requirement.
49-3.02C(7)	A07-15-16	--	Clarified instructions for when optional construction joint is used.
51-1.01A	A07-15-16	--	Corrected typo.

51-4.01A	A07-15-16	--	New SSP to specify PC drainage inlet.
51-7.02	C07-15-16	--	SSP canceled.
59-2.01A	C07-15-16	Bridge Painting Description	SSP canceled.
59-2.01A(1)	A07-15-16	--	New SSP to describe bridge, soldier pile, and other structural steel painting requirements.
59-2.01A(3)(b)	A07-15-16	Mandatory SSPC-QP Certification	Revised instructions
73-1.02A	A07-15-16		Section 73-1.02A. Added a returned plastic concrete section for minor concrete items.
83-3	A07-15-16		Section 83-3. Added specifications for Type 60P, 60AP, and 60PR concrete barriers.
87-1	A07-15-16	--	Revised the instruction for paragraph 20.

RSS	A05-06-16		<p>Section 7-1.02I(2). Updated the specifications to reflect current California law regarding nondiscrimination.</p> <p>Section 7-1.06B. Corrected an error in section 7-1.06B Casualty Insurance. Civ Pro Code shown as § 337.15. should be § 337.1 for a patent deficiency.</p> <p>Section 13-1.01. Replaced the reference to the SWRCB's expired Industrial General Permit with the title and order number of the current permit.</p>
-----	-----------	--	--

RSS	A04-15-16		Section 7-1.02K. New RSS to address AB 219.
-----	-----------	--	---

RSS	A02-12-16		<p>Section 7-1.11A. Added a clause to comply with the Cargo Preference Act.</p> <p>Section 49-3.02C(5). Corrected a typo.</p>
-----	-----------	--	---

SN-290	C01-15-16	--	Canceled.
--------	-----------	----	-----------

			Not required.
StdPIn	A01-15-16	Standard Plans List	Revised the Standard Plans List to coincide with 2010 Standard Plans Erratum No. 16.
RSS	A01-15-16		<p>12-4.02C(2). Added specifications for LCS Mobile web page for updating lane closures from the field using a wireless device.</p> <p>Section 39-2.01A(3)(i) &amp; 39-2.01A(4)(b). Revised sections to remove redundancy from the submittals for JMF verification.</p> <p>Section 39-2.01C(3)(e). Replaced the reference to section 39-2.01A(3)(m)(iv) with the reference to section 36-3.01C for profile data submittal.</p> <p>Section 39-2.03A(4)(e)(i). Revised requirements for "Voids in mineral aggregate on plant produced HMA."</p> <p>Section 39-2.03B(2). Revised requirements for Hamburg wheel track.</p> <p>Section 39-2.05A(3)(b). Revised to include the requirement for the MTV to receive HMA from the truck only.</p> <p>Section 39-3.04A. Replaced the reference to section 39-3.05 with the reference to section 39-3.04.</p> <p>Section 39-3.05A. Replaced the reference to section 39-3.06 with the reference to section 39-3.05.</p> <p>Section 39, 39-2.01A(1), 39-2.02A(3)(b), 39-2.03A(3)(b), &amp; 39-2.05B(2). Revised the Asphalt Institute SP-2 references to MS-2 because the 7th edition of the MS-2 includes the SP-2.</p> <p>Section 49. Added submittal of Pile and Driving Date Form for CISS piles if specified in the special provisions. Deleted para to eliminate the confusion of how the special driving tips are paid. Reorganized to separate the drill hole work from steel soldier pile work to clarify payment. Updated clearance from the pile to the drilled hole to match XS sheets</p> <p>Section 52-6.03B. Added Lap splice requirements for epoxy-coated rebar and</p>



			<p>alternatives to epoxy-coated rebar to be consistent with LRFD Bridge Design specifications.</p> <p>Section 53-1.02. The minimum cementitious content has been increased from 632 to 675 lbs/cy, course aggregate must comply with section 90-1, and combined gradations in section 90-1.02C(4)(b) do not apply.</p> <p>Section 59-1.02A. Revised the specification to allow either Type S (single component) or Type M (Multi-component) sealing compound to be used as recommended by METS chemistry branch.</p> <p>Section 59-2.01(C)(1). Revised the specification to clarify the requirements for use of enclosures and to eliminate redundant specifications. Also revised to separate the use of the terms "enclosure" and containment systems" in the specification. Deleted the specification that restricts blast cleaning and painting to daylight hours. The revised specifications permit blast cleaning and painting during non-daylight hours if the atmospheric conditions in Std Spec 59-1.03 are met.</p> <p>Section 71-3.01. Clarify what work is considered change order work.</p> <p>Section 71-5.03. Revised numbering to correct error in published document.</p> <p>Section 9-1.16E(4). Updated to match 2010 RSS that changed "may withhold" to "withholds"</p> <p>Section 96-1.01D. Updated the manufacturer information printed on the geosynthetics.</p>
2-1.04	A01-15-16	--	Corrected heading numbering.
2-1.09	A01-15-16	--	Deleted redundant modification of PEW value.

7-1.02K(6)(e)	A01-15-16	--	<p>1. As requested by Bridge Maintenance Design, edits were made to the table for available bridge load capacity in paragraph 9 to improve ease of editing and interpreting of the table. As requested by Structure Construction, for clarity, added a sentence after the table in par. 9 that live load demand used for scaffolding calculations must not be less than the design live load values shown in the table.</p> <p>2. Revised the SSP instructions to fix the conflict between the SSP instructions and par. 1 instructions regarding use of SSP 7-1.02K(6)(e) for soundwalls, retaining walls, or buildings.</p> <p>3. Reorganized pars. 10–12 of the SSP. Previously these paragraphs were organized with one set of editing instructions for cases where scaffolding staging was shown on the plans and another set of editing instructions for cases where scaffolding staging was not shown on the plans. Reorganized the paragraphs to instead have different editing instructions based on whether the bridge is a truss-type bridge or not. This is a better way to organize the specification pars., because the purpose of the different editing instructions for paragraphs 10–12 is that truss bridges require significantly more calculations to be submitted than other types of bridges. If the bridge is a truss bridge, the scaffolding staging must be shown on the plans, and if the contractor chooses to comply with the staging shown the amount of calculations required to be submitted is reduced.</p>
12-4.02C(1)	A01-15-16	--	Corrected the instructions for paragraph 11 to state "0.5% of the estimated cost" instead of "0.5% of the total bid."
12-4.02C(3)(a)	A01-15-16	--	Revised paragraph 4 to clarify that the paragraph is only used for freeways or expressways. Modified the instructions for paragraph 5.
12-	A01-15-16	--	Corrected the telephone number for the

4.02C(3)(c)			Express Lane Operation Center.
46-2.03A	A01-15-16	--	Updated the instructions to specify specific locations where difficult installations occur and updated to parallel 2015 SSP update.
46-3.03A	A01-15-16	--	Updated instructions to specify specific locations where difficult installations occur and updated specifications to parallel 2015 SSP updates.
49-1.03	A01-15-16	--	Updated the instruction to revise the conditions for difficult installations to avoid conflict between the foundation report and the special provisions.
49-2.01A(3)	A01-15-16	--	Added specification in section 49-2.01A(3)(b) to require that the pile and driving date form be submitted for all driven and CISS piling before installing piles.
49-2.01A(3)(b)	C01-15-16	--	Canceled SSP and replaced it with 49-2.01A(3).
49-2.01C(3)	A01-15-16	--	Added missing language in the special provisions to match the standard specification. Added different scenarios for when to use "Do not use drilling to attain the specified tip elevation shown for driven piles," and moved center relief drilling from SSP 49-3.03C(2) to this section to also include steel pipe piles.
49-2.02B(1)(a)	A01-15-16	--	Added instruction to allow editing for piling other than steel pipe piling (e.g. permanent steel casing) to comply with the specifications for Class N steel pipe piling.
49-3.03C(2)	A01-15-16	--	Deleted center relief drilling in SSP 49-3.03C(2) and moved to 49-2.01C(3).
49-5	A01-15-16	--	Deleted difficult micropile installation because SSP 49-1.03 applies to all piles.
52-2.01	A01-15-16	--	Added dual coated reinforcing steel as an alternative to epoxy-coated and epoxy-coated prefabricated reinforcement per industry request, added a certificate of compliance requirement.
52-2.02A(3)(c)	A01-15-16	--	Added a certificate of compliance requirement.
52-2.02B	A01-15-16		Converted NSSP to SSP.

59-2.01A(3)(b)	A01-15-16	Mandatory Certification	SSPC-QP	Moved the waiver clause for the SSPC-QP certifications which were previously separate specifications.
59-2.01A(4)(b)	C01-15-16	SSPC-QP Certification Waiver		Canceled. Moved to SSP 59-2.01A(3)(b).
59-2.01C(4)(d)	A01-15-16	Moisture-Cured Coating	Polyurethane	Revised the moisture-cured specifications as recommended by METS chemistry branch as follows: Modified the coating system to specify that 1 undercoat is required if topcoating existing painted surfaces and 2 undercoats are required if painting existing surfaces cleaned to bare metal.

**SECTION 12. DRAWINGS**

**Highway 49 @ Alta Sierra Drive**



**Highway 49 at Combie Road**



**Highway 49 @ Lime Kiln Road**

# SECTION 13. Existing As-Built & Opticom Information

Alta Sierra

**GENERAL NOTES:**

1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS FOR MEASUREMENT OF LENGTH SHOWN ON THIS PLAN ARE IN METERS.
2. REPLACE DLC AND 2MB FOR FLASHING BEACON. REMOVE SIGNAL CABINET TO LOOPS @ STA 98+10 @ STA 98+40

M

REGISTERS ELECTRONIC ENGINEERS

1015 W. JEFFERSON ST. SUITE 100  
SACRAMENTO, CA 95811  
TEL: (916) 442-2300  
WWW.REGISTERS.COM

DIST. COUNTY	ROUTE	MILE	PLAN	SHEET
031	49	14.9	4	9

FOR SIGNAL WORK  
SEE SHEET E-2

CHECKED BY	DATE	REVISED BY	DATE	REVISED BY
BRAD MILLER				

LOCATION 1  
SIGNAL AND LIGHTING E-1

SCALE 1:1500

(CONTRACT NO. 031-49-14.9-4)

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

1:500 REDUCED PLAN  
ORIGINAL SCALE IN MILLIMETERS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT: 031-49-14.9-4
PROJECT DEVELOPMENT	BRAD MILLER
DATE: 12/15/08	DATE: 12/15/08
REVISED BY: INC	REVISED BY: INC

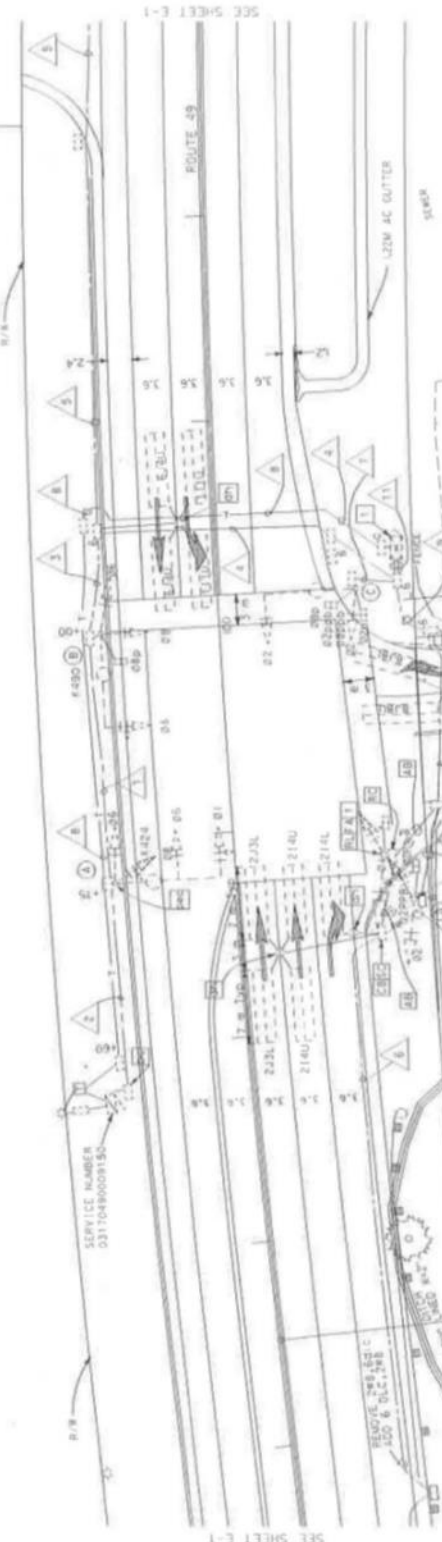


DATE	03 May 14.9	SHEET	5
PROJECT	ROUTE 49	SCALE	1:1200
RESIDENTIAL ELECTRICAL ENGINEER REGISTERED ELECTRICAL ENGINEER No. 12020 State of California			



NOTE FOR THIS PLAN SHEET:

1. RELOCATE COMPLETE POLE, POLE-MOUNTING ADAPTERS, PLUMBING, PED HEAD AND SIGNAL HEADS.



GENERAL NOTES:

1. UNLESS DENOTED OTHERWISE, ALL DIMENSIONS FOR POSITION AND LENGTH SHOWN ON THIS PLAN ARE IN METERS.
2. REPLACE DLC AND TMS FOR FLASHING BEACON FROM CONTROL CABINET TO LOOPS B 51A 58\*10 & 51A 58\*40
3. SEE CONNECTOR & CONSULT SCHEDULE FOR DLC

**AS BUILT PLANS**  
 CONTRACT NO. 03-0290  
 DATE COMPLETED 2-2-00  
 RESIDENT ENGINEER: M. J. ...

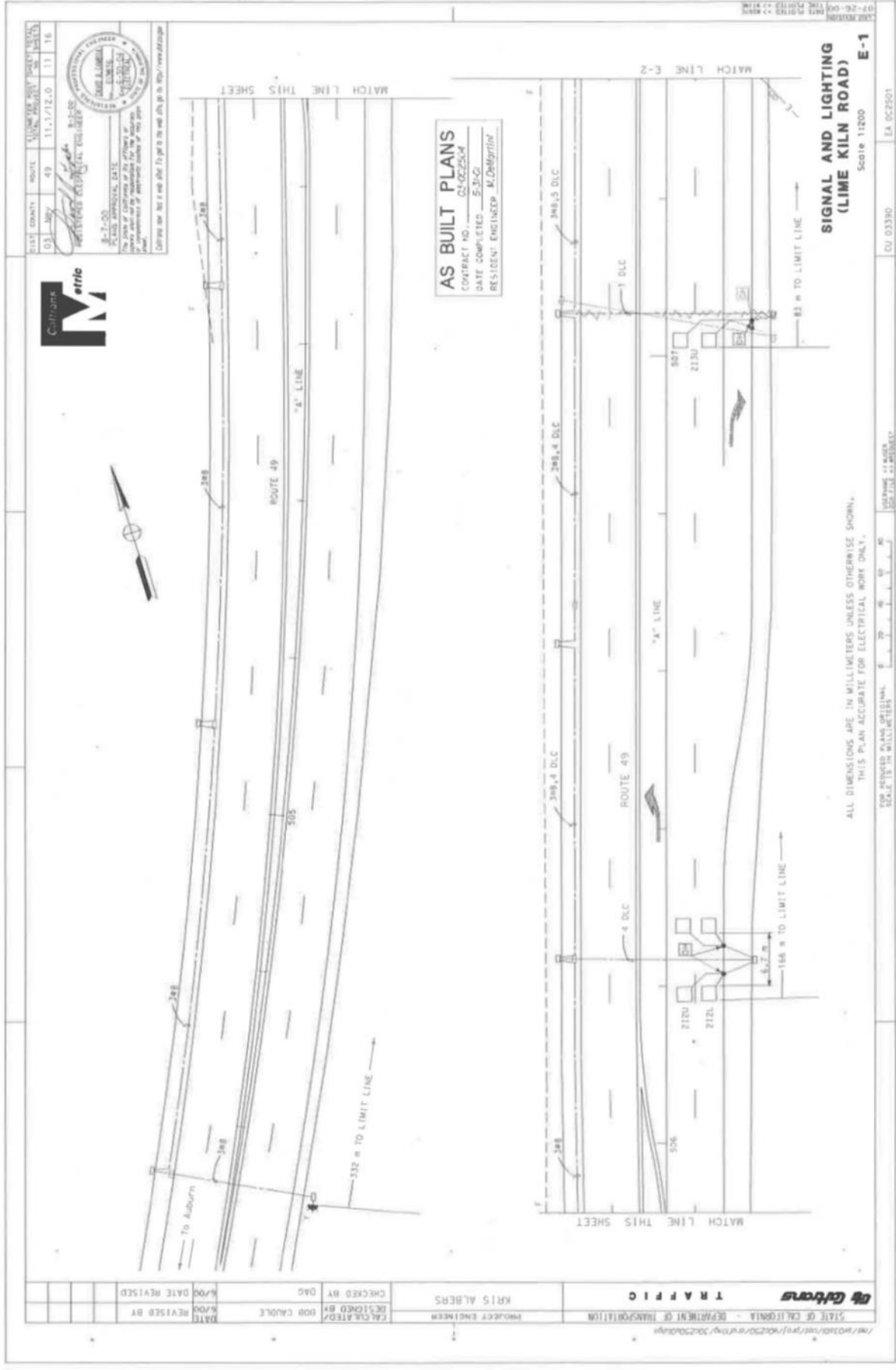
**MODIFY SIGNAL**  
 SCALE 1:1200  
 Contract No. CU 03-390  
 E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER BRAD MILLER
TRAFFIC	CHECKED BY TMC
	DATE REVISID 7/00
	CALCULATED BY TMC
	DATE REVISID BY TMC
	DATE REVISID 7/00

DATE PLOTTED: 08-09-00  
 SHEET NO.: 03-0290-05  
 CONTRACT NO.: CU 03-390  
 SCALE: 1:1200  
 E-2







DATE	DESCRIPTION	BY
03-NOV-04	ISSUED FOR PERMIT	11 16
11-1-12-0		



**AS BUILT PLANS**  
 CONTRACT NO. 03-022504  
 DATE COMPLETED 05-31-02  
 RESIDENT ENGINEER M. DeMaffreit

**SIGNAL AND LIGHTING  
 (LIME KILN ROAD)**  
 Scale 1:1200 E-1

DATE	REVISION	BY

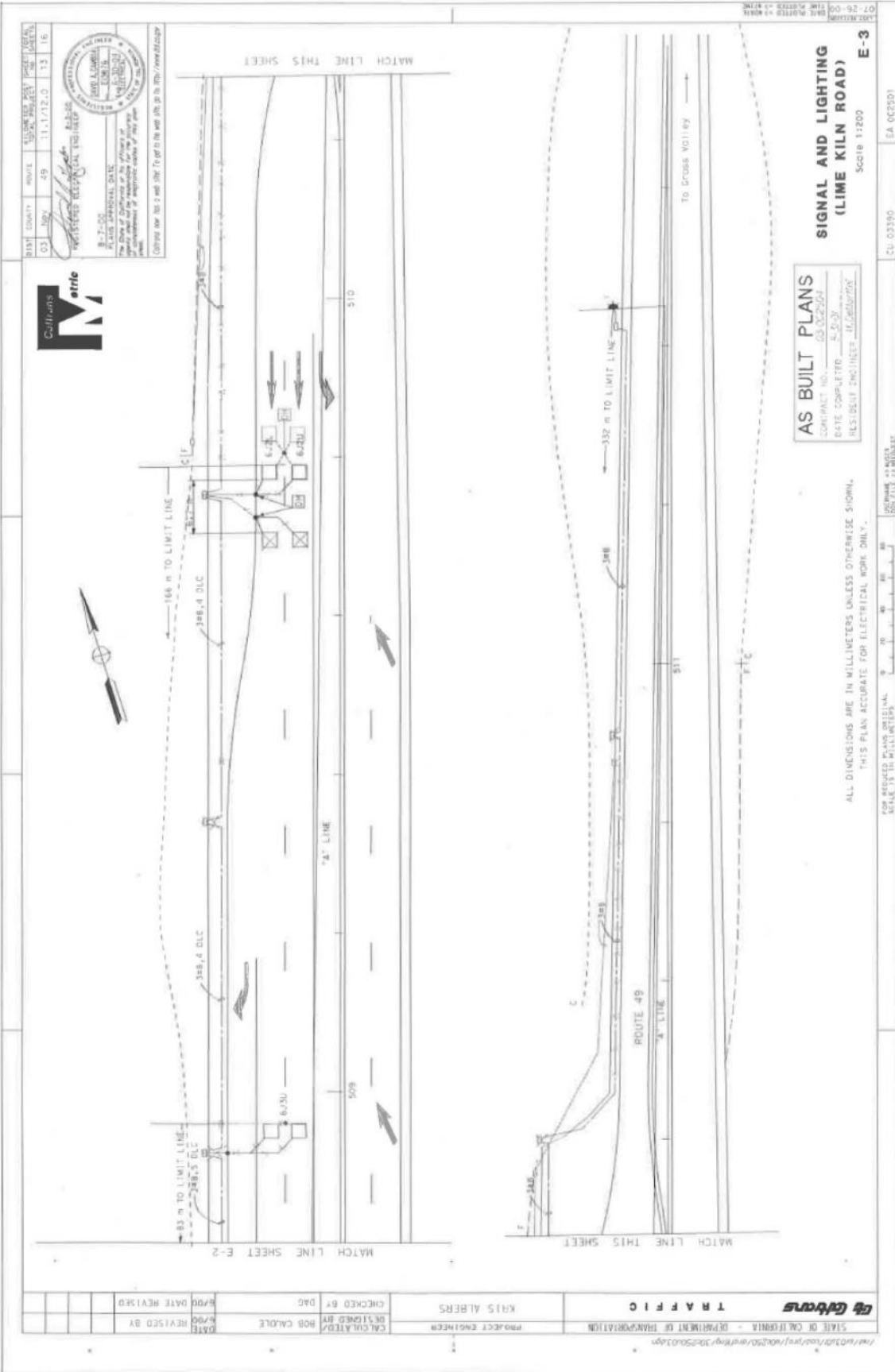
PROJECT ENGINEER KRIS ALBERS  
 DESIGNED BY BOB CAUDLE  
 CHECKED BY DAC

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 TRAFFIC

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.  
 THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

EA 022501  
 DU 03390





CONTRACT NO. 49 11.172.0 13 16  
 DATE 11.17.20  
 PROJECT SIGNAL AND LIGHTING (LIME KILN ROAD)  
 SCALE 1:200  
 E-3  
 CONTRACT NO. 49 11.172.0 13 16  
 DATE 11.17.20  
 PROJECT SIGNAL AND LIGHTING (LIME KILN ROAD)  
 SCALE 1:200  
 E-3

**AS BUILT PLANS**  
 CONTRACT NO. 49 11.172.0 13 16  
 DATE COMPLETED 11.17.20  
 RESIDENT ENGINEER: [Signature]  
 PROJECT ENGINEER: [Signature]

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.  
 THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.  
 FOR REQUESTED PLANS ORIGINAL SCALE 1:20 MILLIMETERS

**CaTronics**  
 PROJECT ENGINEER  
 KRIS ALBERS  
 CHECKED BY  
 DAC  
 DESIGNED BY  
 BOB CAIOLE  
 DATE REVISOR  
 DATE REVISOR  
 DATE REVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 TRAFFIC  
 PROJECT ENGINEER  
 KRIS ALBERS  
 CHECKED BY  
 DAC  
 DESIGNED BY  
 BOB CAIOLE  
 DATE REVISOR  
 DATE REVISOR  
 DATE REVISOR

PROJECT NO. 49  
ROUTE 11.1.12.0  
DATE 11/12/01  
SHEET 14 OF 18

CALIFORNIA REGISTERED ELECTRICAL ENGINEER  
A. L. JAMES  
NO. 21855  
EXPIRES 12/31/05  
PLANS APPROVAL DATE 8-1-00

SCALE 1" = 40'

DATE COMPLETED 5-2-02

DESIGNED BY M. J. JAMES

CHECKED BY M. J. JAMES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
PROJECT ENGINEER

TRAFFIC

DATE REVISIONS BY

NO. 00-90-90-00-00  
PROJECT NO. 031049000710  
SHEET NO. 14 OF 18

### POLE AND EQUIPMENT SCHEDULE

NO.	TYPE	SHA	LMA	VEM SIG MTD	W	PED SIGNAL	RPB	HPS LUMINAIRE REQUIREMENTS	SPECIAL REQUIREMENTS
1	24-3-128	4,6	18-B	4	2000 SV-1-1	2	A	SP-1-T	200 W
2	1-B	7,6		4	2000 SV-1-1	2	A		
3	19-2-128	4,6		4	2000 SV-1-1	4	A	SP-1-T	200 W
4	1-B	7,6		1	1A	2	A	SP-1-T	
5	26-3-128	13,7	4,6	1	1A	6	A	SP-1-T	200 W
6	1-B	10,7	4,6	1	1A	4	A	SP-1-T	
7	1-B			2	2000	2	A		

A = ARROWS  
\* STATE-FURNISHED STANDARDS

### CONDUCTOR AND CONDUIT SCHEDULE

NO.	TYPE	SHA	LMA	VEM SIG MTD	W	PED SIGNAL	RPB	HPS LUMINAIRE REQUIREMENTS	SPECIAL REQUIREMENTS
1	24-3-128	4,6	18-B	4	2000 SV-1-1	2	A	SP-1-T	200 W
2	1-B	7,6		4	2000 SV-1-1	2	A		
3	19-2-128	4,6		4	2000 SV-1-1	4	A	SP-1-T	200 W
4	1-B	7,6		1	1A	2	A	SP-1-T	
5	26-3-128	13,7	4,6	1	1A	6	A	SP-1-T	200 W
6	1-B	10,7	4,6	1	1A	4	A	SP-1-T	
7	1-B			2	2000	2	A		

### WIRING DIAGRAM SYMBOLS

- (M) METER SOCKET AND SUPPORT
- (FBCA) FLASHING BEACON CONTROL ASSEMBLY
- (C) CONTACTOR
- (SN) SOLID NEUTRAL BUS
- (T) AUTO TEST SWITCH
- (PEU) PHOTOELECTRIC UNIT

### AS BUILT PLANS

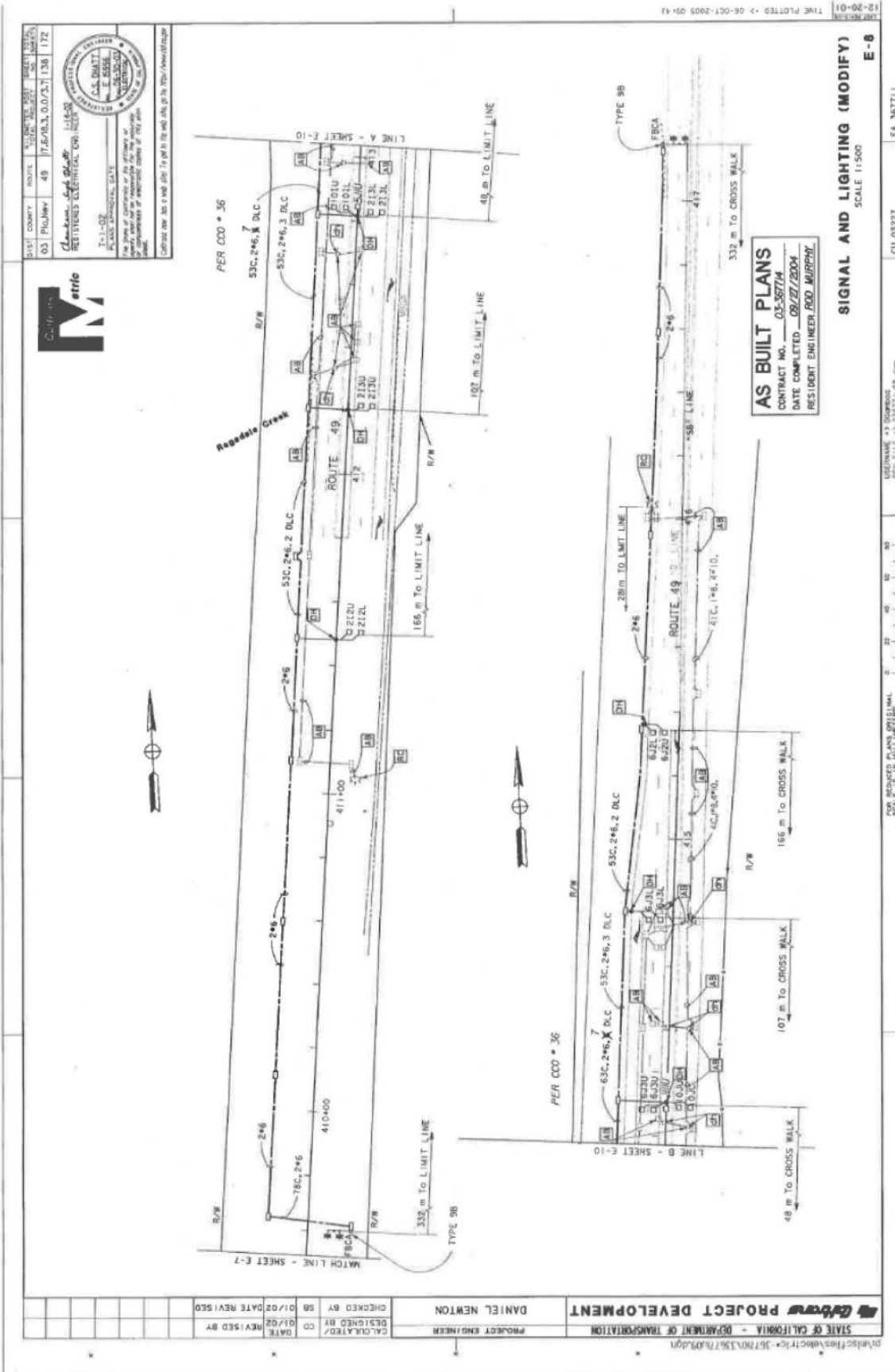
CONTRACT NO. 031049000710  
DATE COMPLETED 5-2-02  
REGISTERED ENGINEER: M. J. JAMES

### SIGNAL AND LIGHTING (LIME KILN ROAD)

NO SCALE

E-4

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.  
SEE DRAWING 031049000710-SIGNAL FOR FULL DETAILS.



SHEET COUNTY INVOICE 49 17.6/PL3, 0.0/3.7 136 172  
 03 Pict/Inv  
 Charles C. DeLoe  
 REGISTERED ELECTRICAL ENGINEER  
 No. 11436  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEERING BOARD  
 7-1-102  
 PLS. SIGN APPROVAL DATE  
 THE STATE OF CALIFORNIA IN THE OFFICE OF  
 THE REGISTERED PROFESSIONAL ENGINEERS  
 CONTRACT NO. 305-0-100-0107-70 (P) IN THE YEAR 2004 (P) IN THE YEAR 2004 (P)

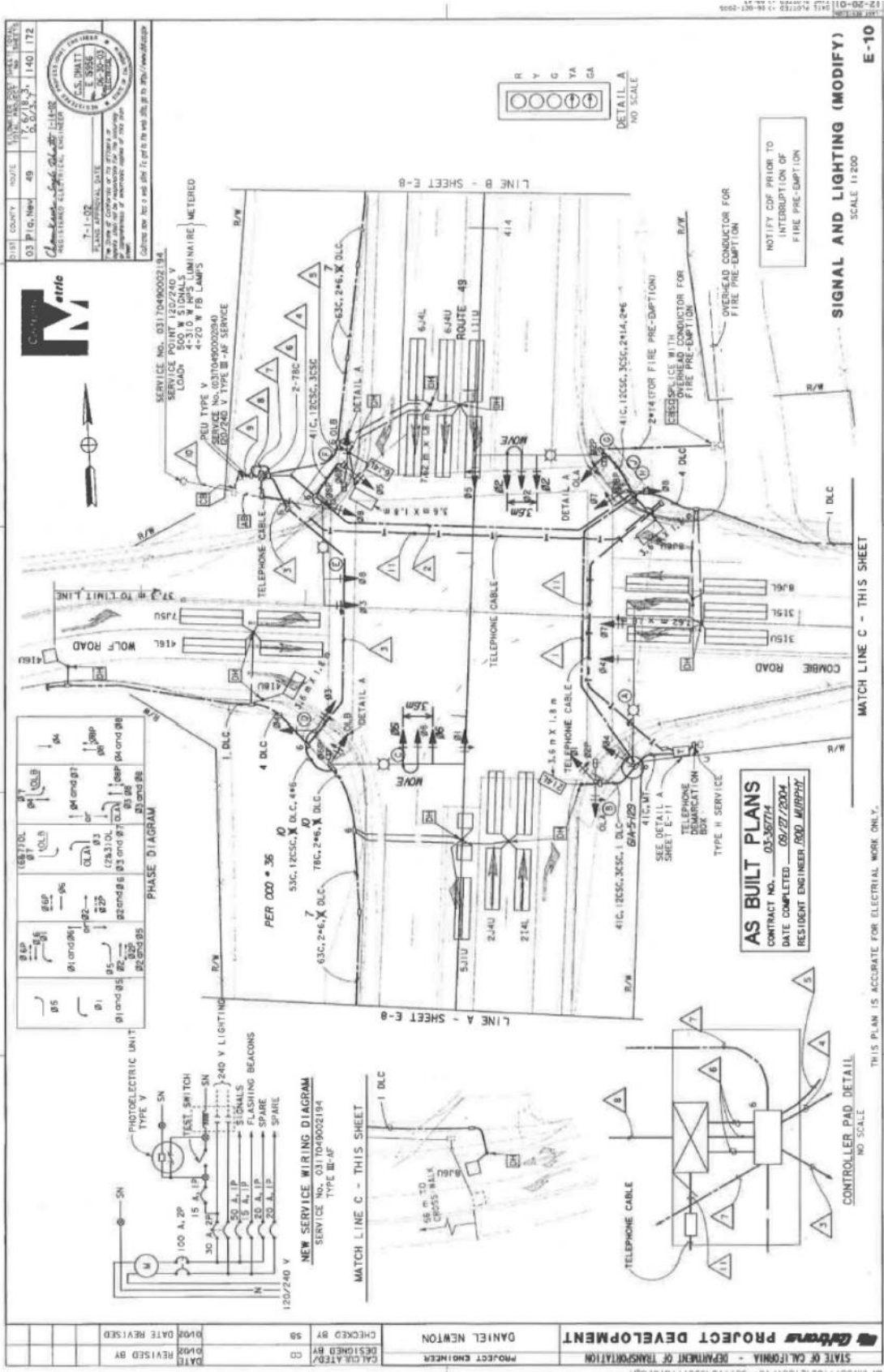


**AS BUILT PLANS**  
 CONTRACT NO. 03-26774  
 DATE COMPLETED 09/27/2004  
 RESIDENT ENGINEER ROD MURPHY

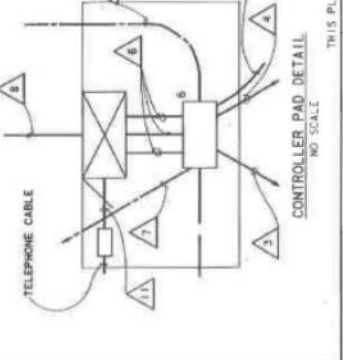
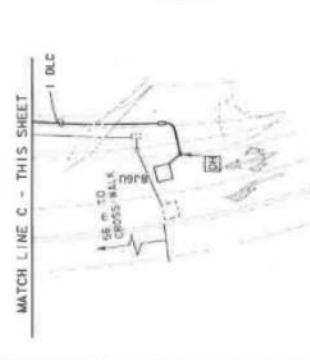
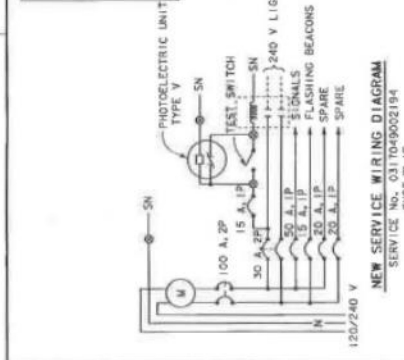
**SIGNAL AND LIGHTING (MODIFY)**  
 SCALE 1:500  
**E-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		PROJECT ENGINEER		DANIEL NEWTON	
PROJECT DEVELOPMENT		CHECKED BY		SB	
CALCULATED/DESIGNED BY		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	
GATE		DATE REVIS		SB	

THE PLOTTED FILE IS 06-OCT-2005 09:43  
 SCALE 1:500  
 SCALE 15 IN MILLIMETERS  
 CON. REVISIONS IN ORIGINAL  
 DATE FILED 03/27/04  
 DGN FILE 33877.JOB.COR  
 CU 03227  
 EA 307711

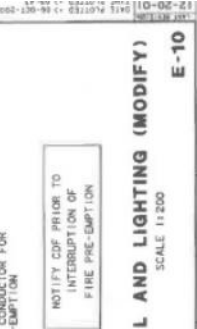
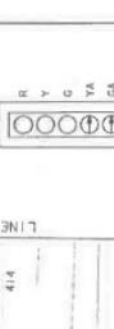


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	CALCULATED BY	CD
AS BUILT PLANS	DANIEL NEWTON	CHECKED BY	SB
CONTRACT NO. 03-38774		DATE	
DATE COMPLETED 09/27/2004		REVISOR	
RESIDENT ENGINEER ROD MURPHY		DATE REVISOR	



COUNTY ROUTE 03 P.G. No. 49 140 172  
 CONTRACT NO. 03-38774  
 DATE COMPLETED 09/27/2004  
 RESIDENT ENGINEER ROD MURPHY

SERVICE NO. 0317049002194  
 SERVICE POINT 120/240 V  
 LOADS 4-31.0 W 10'S LUMINAIRE METERED  
 4-20 W FB LAMPS  
 PRELTYPE V  
 SERVICE NO. 0317049002290  
 60/7240 V TYPE III-AF SERVICE



SIGNAL AND LIGHTING (MODIFY)  
 SCALE 1:1200  
 E-10

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.  
 FOR FINISHED PLANS, ORIGINAL SCALE IS IN MILLIMETERS.

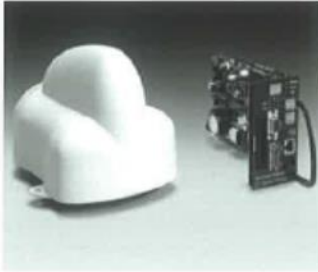
CU 03390 CA 367711





# OPTICOM™ PRIORITY CONTROL SYSTEM OPTICOM™ GPS SYSTEM INTERSECTION EQUIPMENT

OPTICOM™ SYSTEM COMPONENTS FOR ENVIRONMENTS WITH GPS TECHNOLOGY



## Description

The Opticom™ GPS System assists authorized vehicles through signalized intersections by providing temporary right-of-way through the use of common traffic controller functions.

The Opticom™ GPS system consists of the following matched components:

## Intersection Equipment

- Opticom™ Model 1010 GPS Radio Unit containing a GPS receiver with antenna and a 2.4 GHz spread spectrum transceiver with antenna
- Opticom™ Model 764 Multimode Phase Selector
- Opticom™ Model 760 Card Rack
- Opticom™ Model 768 Auxiliary Interface Panel
- Opticom™ Model 1070 GPS Installation Cable

## Vehicle Equipment

- Opticom™ Model 2100 High Priority Radio/GPS Control Unit  
-OR-  
Opticom™ Model 2101 Low Priority Radio/GPS Control Unit
- Opticom™ Model 1050 GPS/Radio Antenna
- Opticom™ Model 2171 Vehicle Interface Cable

Opticom™ GPS system intersection equipment consists of the compact, weather resistant RF-energy-emitting Opticom™ Model 1010 GPS Radio Unit containing a GPS receiver with antenna and a 2.4 GHz spread spectrum transceiver with antenna. The radio unit is connected to an Opticom™ Model 764 Multimode Phase Selector via an 11-conductor radio/GPS cable.

The Opticom™ Model 764 Multimode Phase Selector can be installed directly into a CAVNY Type 33X input file or most NEMA traffic controllers equipped with priority phase selection software, or into virtually any other traffic controller equipped with priority phase selection inputs and related software.

When input file space is not available, an Opticom™ Model 760 Card Rack is required. An external 120 VAC power source provides the power that is required to operate the Opticom™ Model 764 Multimode Phase Selector. The phase selector provides power to the radio unit.

The Opticom™ Model 764 Multimode Phase Selector processes the signal from the Opticom™ Model 1010 GPS Radio Unit and activates outputs, which are connected to the preemption inputs on the traffic controller. There are four channel outputs accessible on the rear connector of the Opticom™ Model 764 Multimode Phase Selector and up to 12 additional channel outputs on the Opticom™ Model 768 Auxiliary Interface Panel.

Each channel output delivers a constant output for high-priority activation, and a pulsed output for low-priority activation. A high-priority signal received on a channel will override any low-priority activation. In certain modes of operation, outputs may be activated that are dependent on the state of the requesting vehicle's turn signal. Another mode provides separate constant outputs for high priority and low priority. The use of an Opticom™ Model 768 Auxiliary Interface Panel is required to access these additional modes and outputs

Global Traffic Technologies, LLC  
(GTT), formed in 2007 from  
3M's pioneering Intelligent  
Transportation Systems business,  
is the manufacturer of Opticom™  
priority control systems and  
Canoga™ traffic sensing systems.



Building critical  
traffic connections™

# OPTICOM™ GPS SYSTEM INTERSECTION EQUIPMENT

OPTICOM™ SYSTEM COMPONENTS FOR ENVIRONMENTS WITH GPS TECHNOLOGY

## Opticom™ GPS System intersection equipment has the following features:

- Four channels of detection
- Radio range of 2,500 feet
- User-settable range setting by ETA and/or distance
- Call bridging
- Precise preemption output pulse
- Optically isolated outputs
- Varied outputs depending on turn signal status of requesting vehicle
- High and low priority as well as probe frequency discrimination
- "First-come, first-served" priority within each priority level
- Low-priority output may be configured for first-come, first-served or all-channel active
- Priority-by-class and priority-by direction setting via the interface software
- 10/100Mb Ethernet and USB 2.0 communication on the front panel
- RS232 communications front port, rear backplane and Auxiliary Interface Panel
- History log of most recent Opticom™ GPS system activities (10,000 entries)
- More than 38 million agency/class/vehicle code combinations
- Customizable ID code validation
- Two character display, LEDs and keypad to enable diagnostics and place test calls to each channel
- Flexible programming options for priority control parameters
- Direct installation into CA/NY Type 33X input files
- Compatible with most traffic controllers
- Tested to NEMA environmental and electrical test specifications

## Physical Dimensions

Opticom™ Model 764 Multimode Phase Selector  
Length: 7.0 in. (17.8 cm) x 8.2 in. (20.8 cm) including handle  
Width: 2.3 in. (5.8 cm)  
Height: 4.5 in. (11.4 cm)  
Weight: 0.60 lbs. (272 g)

Opticom™ Model 1010 GPS Radio Unit  
Length: 9.0 in. (22.9 cm)  
Width: 6.5 in. (16.5 cm)  
Height: 6.0 in. (15.2 cm)  
Weight: 1.8 lbs. (0.816 kg)

Opticom™ Model 766 Auxiliary Interface Panel  
Length: 7.25 in. (18.4 cm)  
Width: 4.5 in. (11.4 cm)  
Height: 1.0 in. (2.5 cm)  
Weight with cable: 1.4 lbs. (635 g)  
Cable: 12 ft (3.6 m)

Opticom™ Model 760 Card Rack  
Length: 8.25 in. (21.0 cm)  
Width: 5.25 in. (13.3 cm)  
Height: 5.1 in. (12.9 cm)  
Weight: 2.3 lbs. (1.043 kg)

Opticom™ Model 1050 GPS/Radio Antenna  
Diameter: 2.85 in. (7.2 cm)  
Height: 1.4 in. (3.5 cm)  
Cable length: 15.0 ft. (4.6 m)  
Weight with cables: 0.6 lbs. (0.30 kg)

## Electrical

Opticom™ Model 764 Multimode Phase Selector  
Voltage: 89 to 135 VAC, 60 Hz at up to 500mA or 24 VDC at up to 1 Amp

## Environmental

Opticom™ Model 764 Multimode Phase Selector  
Temperature: -37°C to +74°C (-34.6°F to +165.2°F)  
Humidity: 5% to 95% relative

*For complete warranty information visit [www.gtt.com](http://www.gtt.com).*



*Building critical  
traffic connections™*

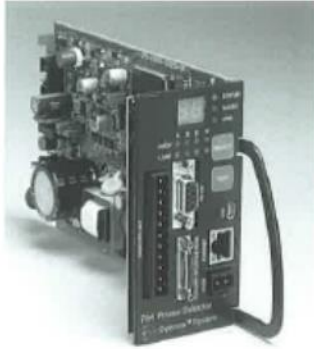
Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
[www.gtt.com](http://www.gtt.com)

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610

Opticom and the GTT logo are trademarks of Global Traffic Technologies, LLC. Used under license in Canada. Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2012. All rights reserved.  
75-0301-1343-7(C)

## OPTICOM™ PRIORITY CONTROL SYSTEM OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR

*OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH INFRARED  
AND GPS TECHNOLOGY*



### Description

The Opticom™ Model 764 Multimode Phase Selector is a plug-in, four-channel, dual-priority, multimode encoded signal device designed for use with both Opticom™ infrared system emitters and detectors and Opticom™ GPS radio/GPS intersection units and vehicle equipment. It can be installed directly into the input files of Type 170 traffic controllers equipped with priority phase selection software and in virtually any other traffic controller equipped with priority phase selection inputs and related software. Phase selectors are powered from AC mains or 24 VDC and contain their own internal power supply to support Opticom™ infrared system detectors and Opticom™ GPS radio/GPS units.

The Opticom™ Model 764 may be used in IR only applications, GPS only applications, or IR and GPS applications simultaneously.

The Opticom™ Model 760 Card Rack is required when input file space is not available. When used in GPS only mode, the Model 1040 card rack may also be used.

Opticom™ Model 764 recognizes and discriminates among three distinct Opticom™ IR emitter frequency rates via Opticom™ detectors: high priority, low priority and probe priority. Within each of these three frequency rates, the phase selectors further discriminate among 10 classes of vehicle identification codes, with 1,000 individual vehicle codes per class — 10,000 total per frequency rate. The Opticom™ Model 764 also recognizes three different priority levels transmitted by Opticom™ GPS vehicle equipment: high priority, low priority and probe priority. Within each of these three priority levels, the phase selectors further discriminate among 254 agency IDs, 15 classes of vehicle identification codes, with 10,000 individual vehicle codes per class — for more than 38 million total per priority level.

Opticom™ Model 764 Phase Selector internally records each system activation. Each entry contains:

- Intersection name
- Date and time of the activity
- Vehicle class code of the activating vehicle
- Activating vehicle's ID number
- Agency ID (GPS only)
- Channel called
- Priority of the activity
- Final green signal indications displayed at the end of the call
- Time spent in the final greens
- Duration of the activation
- If preempt has been requested and reason if not
- Turn signal status at the end of the call (GPS only)
- Entry, exit and average speed (GPS only)
- Relative priority level

*Global Traffic Technologies, LLC  
(GTT), formed in 2007 from  
3M's pioneering Intelligent  
Transportation Systems business,  
is the manufacturer of Opticom™  
priority control systems and  
Canoga™ traffic sensing systems.*



*Building critical  
traffic connections<sup>SM</sup>*

# OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR

OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH INFRARED  
AND GPS TECHNOLOGY

## Features

- IR only operation, GPS only operation, or simultaneous IR and GPS operation
- Four channels of detection
- Two auxiliary detectors per channel (IR)
- Records green signal displayed at end of preemption
- Compatible with encoded signal and non-encoded signal Opticom™ IR Emitters
- High and low priority as well as probe frequency discrimination
- "First-come, first-served" priority within each priority level
- Priority-by-class setting via the interface software
- Priority-by-direction setting via the interface software
- Direct installation into CAVAY Type 170 Input files
- Automatic range setting using an encoded emitter (IR)
- Call bridging for both IR and GPS calls including mixed mode
- Low-priority output may be configured for first-come, first-served or all-channel active
- User-adjustable range setting up to 2,500 feet of operation
- Change parameters based on time of day
  - Priority enables
  - Max call times
  - Hold times
  - Call bridging
  - Range/Activation point thresholds
  - Limit time between low priority calls
  - Low priority directional priorities
  - Relative priorities
- Compatible with most traffic controllers
- 10/100Mb Ethernet communication on the front panel
- USB 2.0 communication on the front panel
- RS232 communications front port, and rear backplane and Auxiliary Interface Panel
- User-selected communications baud rate of 1,200 to 230,400 bits per second
- Customizable ID code validation
- Flexible programming options for priority control parameters
- Detailed current Opticom™ System parameter information
- History log of most recent Opticom™ infrared and GPS system activities (10,000 entries)
- 30,000 frequency/class/vehicle code ID combinations (IR)
- More than 38 million agency/class/vehicle code combinations (GPS)
- Front panel switches and diagnostic indicators for testing
- Accurate infrared signal recognition circuitry
- Precise output pulse
- Definitive call verification
- Regulated detector power supply (IR)
- Optically isolated outputs
- Two character display and keypad to enable diagnostics and test calls to each channel
- Display LED indicators
  - High- and low-priority test calls
  - Reset to default parameters
  - Range setting
- User-settable range setting by ETA and/or distance (GPS only)

## Features (cont)

- Varied outputs depending on turn signal status of requesting vehicle (GPS only)
- Diagnostic test
- Advanced built-in diagnostics and testing
- Tested to NEMA environmental and electrical test specifications

## Accessories

- On-site Interface software package
- Model 768 Auxiliary interface Panel
- Opticom™ Model 755 Four-Channel Adapter Card (optional)
- 760 Card Rack

## Operating Parameters

- Four dual-priority and probe frequency channels
- "First-come, first-served" for vehicles with the same priority level (high or low)
- Priority override: always higher over lower
- Opticom™ GPS Radio/GPS Unit Input
- Opticom™ Infrared System Detector input(s): one per channel on the card edge connector and two auxiliary per channel through the Model 768 auxiliary interface panel
- Optional interface software for flexible programming options and call history
- LED indicators
  - Status
  - Radio (GPS mode)
  - Link (GPS mode)
  - High signal/call per channel
  - Low signal/call per channel
  - Two-digit status display
- Two character display and keypad to enable diagnostics and test calls to each channel
- Voltage: 89 to 135 VAC, 60 Hz at up to 500mA or 24 VDC at up to 1 Amp
- Temperature: -37°C to +74°C (-34.6°F to +165.2°F)
- Humidity: 5% to 95% relative
- CE certified
- NEMA TS-2 compliance
- FCC compliance

## Physical Dimensions

Length: 7.0 in. (17.8 cm) x 8.2 in. (20.8 cm) including handle  
Width: 2.3 in. (5.8 cm)  
Height: 4.5 in. (11.4 cm)  
Weight: 0.60 lbs. (272 g)

For complete warranty information visit [www.gtt.com](http://www.gtt.com).



Building critical  
traffic connections™

Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
[www.gtt.com](http://www.gtt.com)

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610

Opticom and the GTT logo mark are trademarks of Global Traffic Technologies, LLC. Used under license in Canada. Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2012 All rights reserved.  
79-1000-0624-0 (C)

## Opticom™ Infrared System Opticom™ Models 711, 721 and 722 Detectors

Opticom™ Infrared System Matched Component Products

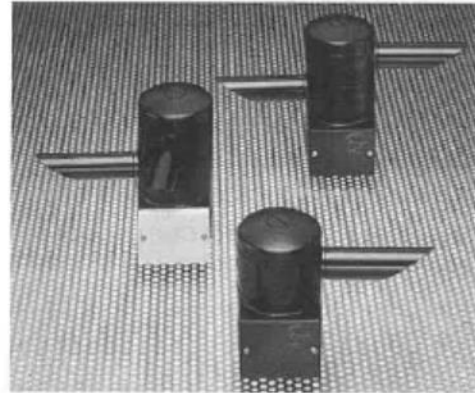
October 2007

### Description

The Opticom™ 700 Series Detectors transform the optical energy detected from an approaching, vehicle-mounted Opticom™ Emitter to an electrical signal. The electrical signal is transmitted along a cable to the Opticom™ Phase Selector or Opticom™ Discriminator for processing.

Opticom 700 series detectors are mounted at or near the intersection that permits a direct, unobstructed line-of-sight to vehicle approaches. Opticom detectors may be mounted on span wire, mast arm or other appropriate structures.

Opticom™ Models 711, 721 and 722 Detectors offer significant advances and flexibility for specific intersection applications. The Opticom detectors are designed for common applications in three configurations: one direction—the single channel Opticom model 711; the single channel, dual detection Opticom model 721; and two direction, two output detection—the dual channel Opticom model 722. All Opticom 700 series detectors greatly reduce installation and life cycle costs through their modular design, adjustable tubes, and compatibility with existing Opticom™ Infrared System intersection and vehicle equipment.



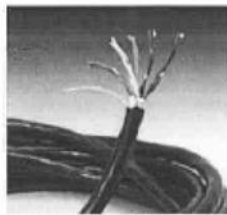
Opticom™ Models 722, 721 (back) and 711 Detectors

### Features

- Advanced electrical transient immunity
- Modular design
- Adjustable turret configuration: accommodates skewed approaches
- Lightweight, durable, high-impact polycarbonate enclosure
- Simplified installation: span wire or mast arm
- Gray door identification of Opticom model 722



Opticom™ Span Wire Clamp



Opticom™ Model 138 Detector Cable

### Accessories

- Opticom™ Span Wire Clamp
- Opticom™ Model 138 Detector Cable

### Operating Parameters

- **Reception Range:** 200 ft. (60 m) adjustable up to 2,500 ft. (760 m)
- **Electrical:** 24 to 28 VDC, 50 MA minimum
- **Temperature Range:** -30° F (-34° C) to 165° F (74° C)
- **Humidity:** 5% to 95% relative

### Physical Dimensions

#### Opticom™ Model 711 Detector

- Length:** 12.0 in. (30.5 cm)
- Width:** 4.75 in. (12.1 cm)
- Height:** 5.63 in. (14.3 cm)
- Weight:** 0.88 lbs. (400 g)

#### Opticom™ Models 721 and 722 Detectors

- Length:** 12.0 in. (30.5 cm)
- Width:** 4.75 in. (12.1 cm)
- Height:** 7.13 in. (18.1 cm)
- Weight:** 1.12 lbs. (508 g)

---

#### Important Notice to Purchaser:

EXCEPT FOR THE LIMITED WARRANTIES SET FORTH IN THIS DOCUMENT, GLOBAL TRAFFIC TECHNOLOGIES (GTT) MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

GTT will, at its sole option, repair, replace or refund any amounts paid for any Opticom™ Infrared System component found to be defective in materials or manufacture within five (5) years from the date of shipment from GTT. See "Warranty and Extended Coverage" for details and limitations of the coverage plan. GTT will provide a functioning replacement component at a standard charge per unit for an additional five (5) years.

GTT warrants future system operability coverage as described herein. The warranties set forth in this document shall not apply to (A) incandescent lamps (confirmation lights) or (B) any Opticom infrared system components which have been (1) repaired or modified by persons not authorized by GTT; (2) subjected to incorrect installation, misuse, neglect or accident; (3) damaged by extreme atmospheric or weather-related conditions; or (4) subjected to events or use outside the normal or anticipated course.

IN NO EVENT SHALL GTT BE LIABLE FOR ANY INJURY (INCLUDING, WITHOUT LIMITATION, PERSONAL INJURY), DEATH, LOSS, OR DAMAGE (INCLUDING, WITHOUT LIMITATION, PROPERTY DAMAGE), WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHERWISE, ARISING OUT OF THE USE OR INABILITY TO USE, REPAIR OR FAILURE TO REPAIR, ANY GTT PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED. THE REMEDIES SET FORTH IN THIS DOCUMENT ARE EXCLUSIVE.

Sale and use of the Opticom infrared system is expressly restricted to authorized agencies of government customers, within their specific jurisdictions. However, because the infrared signal generated by the Opticom infrared system is not exclusive, GTT does not warrant exclusive activation by purchaser. Authorized users who desire to use or coordinate use of the Opticom infrared system with that of other jurisdictions must first obtain the prior written approval of each authorized user in the jurisdiction where use is sought.

---



Global Traffic Technologies

Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
www.gtt.com

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610

Opticom is a trademark of Global Traffic Technologies, LLC.  
Used under license in Canada.  
Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2007  
All rights reserved.  
75-0500-1682-5 (A)

# Opticom™ Infrared System

## Opticom™ Model 138 Detector Cable

An Opticom™ Infrared System Matched Component Product

October 2007

### Description

Opticom™ Model 138 Detector Cable is designed and manufactured explicitly for use with Opticom™ Detectors. Opticom model 138 has three color-coded conductors, a conductive shield and drain, and a black PVC jacket.

This durable, high-quality cable carries the appropriate power to the detector from the Opticom™ Phase Selector and delivers the necessary quality signal to the phase selector discriminator circuitry up to 1,000 feet (305 m).

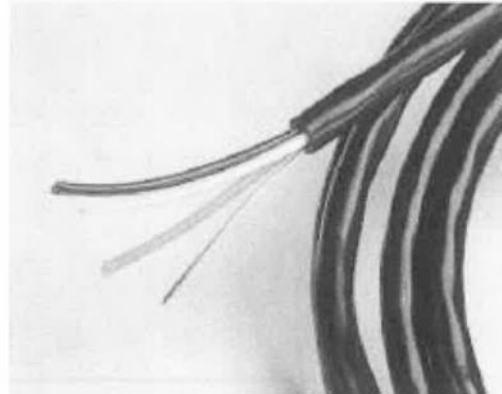
### Features and Benefits

- Optimized to interface Opticom detectors to Opticom phase selectors or Opticom™ Discriminators
- Ensures effective range of 2,500 feet (760 m) with Opticom™ Infrared System components
- Durable construction
  - Suitable for direct burial
  - Suitable for conduit and mast arm pull
  - Suitable for exposed overhead installation\*

### Operating Parameters

- 600 volt rating
- 75° C (167° F) temperature range
- Three-conductor AWG #20 (7x28) stranded, individually tinned copper: yellow, blue and orange
- Aluminized polyester shield with 20% overlap
- Drain AWG #20 (7x28) stranded, individually tinned copper
- Controlled electrical characteristics

\*Separate messenger wire required



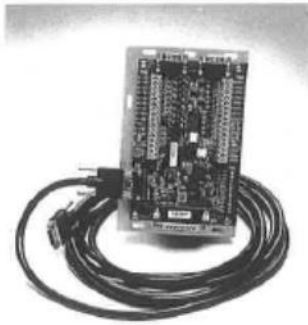
Opticom™ Model 138 Detector Cable is 0.3 in. (7.62 mm) in diameter and is suitable for direct burial as well as in conduit and exposed overhead installation.\*

### Physical Dimensions

- **Outside diameter:** 0.3 in. (7.62 mm)
- **Weight:** 0.04 lbs./ft. (65.5 g/m)
- **Available in:** 500 ft., 1,000 ft., 2,500 ft. and 5,000 ft. (152 m, 305 m, 760 m and 15,200 m) spools

## OPTICOM™ PRIORITY CONTROL SYSTEM OPTICOM™ MODEL 768 AUXILIARY INTERFACE PANEL

*OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH INFRARED  
AND GPS TECHNOLOGY*



*Global Traffic Technologies, LLC  
(GTT), formed in 2007 from  
3M's pioneering Intelligent  
Transportation Systems business,  
is the manufacturer of Opticom™  
priority control systems and  
Canoga™ traffic sensing systems.*

Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
www.gtt.com

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610

### Description

Opticom™ Model 768 Auxiliary Interface Panel (AIP) provides a convenient method to interconnect Opticom™ Model 762 and 764 Phase Selectors with terminals inside a traffic cabinet. The 768 AIP is designed specifically for use with the Model 762 and 764 phase selectors. It is not intended to be used with other model phase selectors.

The Opticom™ Model 768 contains terminal blocks for wiring to the traffic cabinet signals, two DB-9 RS-232 communication ports, and a 44-pin connector for connecting legacy auxiliary interface panels and auxiliary harnesses. A twelve foot cable is included which connects the AIP to the Model 762 or 764 Phase Selector.

### Features

- Accessible interconnections to cabinet wiring along the edge of card
- Rugged construction - circuit card affixed to 16 AWG aluminum mounting plate
- Connectors for auxiliary detector inputs and power can accommodate 16 to 28 AWG wires
- Connectors for all other inputs and outputs can accommodate 16 to 22 AWG wires
- Easy-to-read terminal designations

### Applications:

The Model 768 AIP is used when any of the following features and/or capabilities is needed:

- Green sensing or green light verification
- Auxiliary infrared detector inputs
- Additional preempt outputs
  - Turn signal dependent operation (For 764 in GPS operation)
  - Separate outputs for high and low priority
- Clock sync input (In IR operation)
- Clock sync output (For 764 in GPS operation)
- Confirmation light outputs
- Disable outputs
- Two additional RS-232 COM ports
  - GPS data input (In IR operation)
  - GPS data output (For 764 in GPS operation)
  - Additional Serial COM port

The Model 768 AIP includes a connector for connecting an existing auxiliary harness or auxiliary interface panel to green sense and/or auxiliary detectors. Simply remove the old AIP or harness and connect it directly to the 768. If the existing harness or AIP is being used for other functions, it will be necessary to move the wires to the Model 768 AIP.

### Physical Dimensions

Length: 7.25 in. (18.4 cm)

Width: 4.5 in. (11.4 cm)

Height: 1.0 in. (2.5 cm)

Weight (with cable): 1.4 lbs. (635 g)

Cable: 12 ft (3.6M)

*For complete warranty information  
visit [www.gtt.com](http://www.gtt.com).*



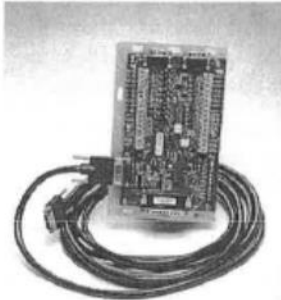
*Building critical  
traffic connections™*

Opticom and the GTT logo mark are trademarks of Global Traffic Technologies, LLC. Used under license in Canada. Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2011 All rights reserved.  
79-1000-0656-0 (A)



## OPTICOM™ PRIORITY CONTROL SYSTEM: OPTICOM™ MODEL 768 AUXILIARY INTERFACE PANEL

OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH INFRARED  
AND GPS TECHNOLOGY



Global Traffic Technologies, LLC  
(GTT), formed in 2007 from  
3M's pioneering intelligent  
Transportation Systems business,  
is the manufacturer of Opticom™  
priority control systems and  
Canoga™ traffic sensing systems.

Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
www.gtt.com

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610

### Description

Opticom™ Model 768 Auxiliary Interface Panel (AIP) provides a convenient method to interconnect Opticom™ Model 762 and 764 Phase Selectors with terminals inside a traffic cabinet. The 768 AIP is designed specifically for use with the Model 762 and 764 phase selectors. It is not intended to be used with other model phase selectors.

The Opticom™ Model 768 contains terminal blocks for wiring to the traffic cabinet signals, two DB-9 RS-232 communication ports, and a 44-pin connector for connecting legacy auxiliary interface panels and auxiliary harnesses. A twelve foot cable is included which connects the AIP to the Model 762 or 764 Phase Selector.

### Features

- Accessible interconnections to cabinet wiring along the edge of card
- Rugged construction - circuit card affixed to 16 AWG aluminum mounting plate
- Connectors for auxiliary detector inputs and power can accommodate 16 to 28 AWG wires
- Connectors for all other inputs and outputs can accommodate 16 to 22 AWG wires
- Easy-to-read terminal designations

### Applications:

The Model 768 AIP is used when any of the following features and/or capabilities is needed:

- Green sensing or green light verification
- Auxiliary infrared detector inputs
- Additional preempt outputs
  - Turn signal dependent operation (For 764 in GPS operation)
  - Separate outputs for high and low priority
- Clock sync input (In IR operation)
- Clock sync output (For 764 in GPS operation)
- Confirmation light outputs
- Disable outputs
- Two additional RS-232 COM ports
  - GPS data input (In IR operation)
  - GPS data output (For 764 in GPS operation)
  - Additional Serial COM port

The Model 768 AIP includes a connector for connecting an existing auxiliary harness or auxiliary interface panel to green sense and/or auxiliary detectors. Simply remove the old AIP or harness and connect it directly to the 768. If the existing harness or AIP is being used for other functions, it will be necessary to move the wires to the Model 768 AIP.

### Physical Dimensions

Length: 7.25 in. (18.4 cm)

Width: 4.5 in. (11.4 cm)

Height: 1.0 in. (2.5 cm)

Weight (with cable): 1.4 lbs. (635 g)

Cable: 12 ft (3.6M)

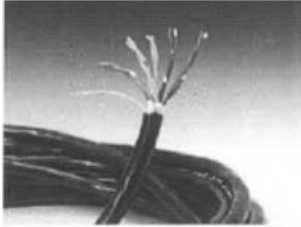
For complete warranty information  
visit [www.gtt.com](http://www.gtt.com).



Opticom and the GTT logo mark are trademarks of Global Traffic Technologies, LLC. Used under license in Canada. Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2011 All rights reserved.  
79-1090-0656-0 (A)

# OPTICOM™ PRIORITY CONTROL SYSTEM OPTICOM™ MODEL 1070 GPS INSTALLATION CABLE

OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH GPS TECHNOLOGY



## Description

The Opticom™ Model 1070 GPS Installation Cable is designed and manufactured explicitly for use with Opticom™ Radio/GPS units. The Opticom™ Model 1070 GPS Installation Cable has ten (5-pair) color-coded twisted conductors, a conductive shield and drain, and a black PVC jacket.

This durable, high-quality cable carries the appropriate power to the Opticom™ Radio/GPS unit from the Opticom™ Phase Selector and delivers the necessary quality signal to the phase selector up to 250 feet (76 m).

*Global Traffic Technologies, LLC (GTT), formed in 2007 from 3M's pioneering Intelligent Transportation Systems business, is the manufacturer of Opticom™ priority control systems and Canoga™ traffic sensing systems.*

## Features and Benefits

- Optimized to interface Opticom™ Radio/GPS units to Opticom™ Phase Selectors
- Ensures effective range of at least 2,500 feet (760 m) with Opticom™ GPS System components
- Durable construction
  - Suitable for direct burial
  - Suitable for conduit and mast arm pull
  - Suitable for exposed overhead installation\*

## Operating Parameters

- 300 volt rating
- 90° C (194° F) temperature range
- Outer Jacket: Black SR-PVC, UV and moisture resistant
- Ten twisted pair conductors (5 pairs) AWG #20 (7 x 28) stranded, individually tinned copper:
  - Yellow/Yellow-Black
  - Blue/Blue-White
  - Orange/Orange-Green
  - Brown/Brown-White
  - Purple/Purple-White

- Aluminized polyester shield
- Drain wire AWG #22 (7 x 28) stranded, individually tinned copper
- Controlled electrical characteristics
- UL and cUL recognized

## Physical Dimensions

- Outside diameter: 0.354 in. (9 mm)
- Minimum Bend Radius: 3.6 in (9.1 cm)
- Available in 500 ft., 1,000 ft., and 2,500 ft. (152 m, 305 m, and 760 m) spools

\*Separate messenger wire required

*For complete warranty information visit [www.gtt.com](http://www.gtt.com).*

Global Traffic Technologies, LLC  
7800 Third Street North  
St. Paul, Minnesota 55128-5441  
1-800-258-4610  
651-789-7333  
[www.gtt.com](http://www.gtt.com)

Global Traffic Technologies Canada, Inc.  
157 Adelaide Street West  
Suite 448  
Toronto, ON M5H 4E7  
Canada  
1-800-258-4610



Opticom and the GTT logo are trademarks of Global Traffic Technologies, LLC. Used under license in Canada. Please recycle. Printed in U.S.A.  
© Global Traffic Technologies, LLC 2013. All rights reserved.  
76-1000-0834-0 (B)

COUNTY OF NEVADA  
STATE OF CALIFORNIA

**CONTRACT**

FOR

**Emergency Vehicle Preemption Safety System Project 2017**

**COUNTY CONTRACT NO. 440815**

**March 30, 2017**

(Standard Public Works Contract)

NOTICE TO BIDDERS:

THE FOLLOWING CONTRACT SECTION IS INCLUDED

AS A SAMPLE

FOR INFORMATION ONLY

AND IS NOT TO BE

COMPLETED WITH BID

**BOND OF FAITHFUL PERFORMANCE**

KNOW ALL PEOPLE BY THESE PRESENTS THAT WE \_\_\_\_\_,  
\_\_\_\_\_, the Contractor in the contract  
annexed hereto, as principal, and \_\_\_\_\_, as  
surety are held and firmly bound unto the County of Nevada in the sum of \_\_\_\_\_ dollars  
(\$\_\_\_\_\_) in lawful money of the United States, for which payment, well and truly to be made, we bind  
ourselves, jointly and severally, firmly by these presents:

The condition of the above obligation is that if said principal as Contractor in the contract hereto annexed shall  
faithfully perform each and all of the conditions of said contract to be performed by Contractor, and shall furnish  
all tools, equipment, apparatus, facilities, transportation, labor, and material, other than material, if any, agreed  
to be furnished by County, necessary to perform and complete, and performs and completes in good  
workmanlike manner, the work of \_\_\_\_\_ in strict conformity with  
the terms and conditions set forth in the contract hereto annexed, then this obligation shall be null and void,  
otherwise to remain in full force and effect; and the said surety, for value received, hereby stipulates and agrees  
that no change, extension of time, alteration or addition to the terms of the contract or to the work to be  
performed thereunder or the specifications accompanying the same shall, in any way, affect its obligations on  
this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the  
terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF this instrument has been duly executed by the principal and surety above named on  
\_\_\_\_\_, 2017.

\_\_\_\_\_  
\_\_\_\_\_  
Contractor (Seal)

\_\_\_\_\_  
\_\_\_\_\_  
Surety (Seal)

**NOTE:** All signatures must be notarized. Attach Power of Attorney for Surety, sealed or certified.

**BOND FOR LABOR AND MATERIAL**

KNOW ALL PEOPLE BY THESE PRESENTS THAT WE \_\_\_\_\_

\_\_\_\_\_ the Contractor in the Contract hereto annexed, as principal, and \_\_\_\_\_ are held and firmly bound unto the County of Nevada in the sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

The condition of the above obligation is that if said principal, its successors or assigns, as Contractor in the Contract hereto annexed, or his, her or its subcontractor, fails to pay for any materials, provisions, provider or other supplies, or items, used in, upon, for or about the performance of the work contracted to be done by said Contractor, namely to furnish all tools, equipment, apparatus, facilities, transportation, labor and material necessary to perform and complete, and to perform and complete in a good workmanlike manner, the work of

\_\_\_\_\_ in strict conformity with the terms and conditions set forth in the contract hereto annexed, or for any work or labor done thereon of any kind or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or to make payments to the Employment Development Department pursuant to Civil Code Section 3248, or to pay any of the persons named in Civil Code Section 3181, said surety will pay for the same in an amount not exceeding the sum herein above set forth. This bond is executed in accordance with the requirements of Title 15 of the Civil Code and is subject to the provisions thereof, and shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under and by virtue of the provisions of Section 3181 of the Civil Code, or to their assigns; and the said surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same, shall in any way affect its obligations on this bond, and it does hereby waive notice of such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications. In the event suit is brought on this bond, a reasonable attorney's fee may be fixed by the Court.

IN WITNESS WHEREOF this instrument has been duly executed by the principal and surety above named on \_\_\_\_\_, 2017.

\_\_\_\_\_

Contractor (Seal)

\_\_\_\_\_

Surety (Seal)

**NOTE:** All signatures must be notarized. Attach Power of Attorney for Surety, sealed or certified.

**COUNTY OF NEVADA**  
**STATE OF CALIFORNIA**

**CONTRACT**

THIS CONTRACT, made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between the COUNTY OF NEVADA, hereinafter referred to as County and \_\_\_\_\_, hereinafter referred to as Contractor.

WITNESSETH: That the County and Contractor, for the consideration hereinafter mentioned, agree as follows:

**ARTICLE I: DEFINITIONS**

Wherever used in these general conditions or in the other contract documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

**Act of God**

"Act of God" means an earthquake or flood, or other cataclysmic phenomenon of nature. A rain, windstorm, high water or other natural phenomenon of unusual intensity for the specific locality of the work, which might reasonably have been anticipated from historical records of the general locality of the work, shall not be construed as an Act of God.

**Addenda**

Written or graphic instruments issued prior to the opening of bids which clarify, correct or change the bidding documents.

**Application for Payment**

The form accepted by County which is to be used by Contractor in requesting progress or final payments and which is to include such supporting documentation as is required by the contract documents.

**Calendar Days**

Consecutive days of the month including Saturdays, Sundays and holidays. A calendar day shall be the 24 hours running from midnight to the next midnight.

**Change Order**

A document, which is signed by Contractor and County and authorizes an addition, deletion or revision in the work, or an adjustment in the contract price or the contract time, issued on or after the effective date of the contract.

**Contract Documents**

The written agreement covering the performance of the work and the furnishing of labor, materials and equipment in construction of the work. The agreement shall be construed to include the

1. Invitation to Bid
2. Instruction to Bidders
3. Contractor's Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award
4. Contract
5. Addenda which pertain to the Contract
6. The Bonds
7. Any supplementary conditions or any and all written agreements amending or extending the work, time or price contemplated
8. The Plans and Specifications and Drawings as identified in the Contract

- 9. Certificates of Insurance
- 10. Other: \_\_\_\_\_

**Contract Price**

Either the total lump sum bid of the Contractor or the total of the unit price bids of the Contractor extended based upon the estimated quantities set forth in the bid, or combinations thereof, plus or minus any adjustments made in accordance with the contract.

**Contractor**

The person or persons, co-partnership, joint venturers or corporation who have entered into a contract with County as party or parties of the second part and/or their legal representatives.

**Contractor's Plant and Equipment**

Everything, except labor, brought onto the site by the Contractor in order to carry out the work, but not to be incorporated in the work.

**County**

The County of Nevada and any person or persons to whom the power belonging to County shall be duly designated including but not limited to an engineer or architect. Only those persons designated in writing by the County Administrator or Director of the department overseeing the project shall have authority to act on behalf of County.

**Day**

A calendar day of 24 hours, except when preceded by "working", as defined below.

**Defective**

An adjective which when modifying the word "work" refers to work that is unsatisfactory, faulty or deficient, or does not conform to the contract documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the contract documents, or has been damaged (unless responsibility for the protection thereof has been assumed by County).

**Directed**

"Directed", "designated", "permitted", "required", "accepted", and words of like import, wherever and in whatever manner used means as directed, designated, permitted, required, and accepted by County.

**Director**

"Director" shall mean the Director of the department overseeing the project.

**Drawings**

The drawings which show the character and scope of the work to be performed and which have been prepared or approved by County and are referred to in the contract documents.

**Effective Date of the Contract**

The date indicated in the Contract on which it becomes effective, but if no such date is indicated it means the date on which the Contract is signed and delivered by the last of the two parties to sign and deliver.

**Engineer**

The person specifically designated in writing by County to function as staff adviser and/or consultant to County on engineering matters relating to this contract. Only those persons designated by County, in writing, shall have authority to act for County in the administration of this contract. Said written designation shall be signed by the County Administrator or Director of the department overseeing the project.



**Equal**

A device, material, equipment, technique or method that conforms to the intent of that specified or indicated on the Drawing.

**Field Order**

A written order issued by County which orders minor changes in the work but which does not involve a change in the contract price or the contract time.

**Final Acceptance, Date of**

The date when all final punch list items are corrected, the final inspection has been completed and when the governing body and/or funding agency formally accepts the project as complete. This date will be used to establish the start date of the one-year warranty period for the contract.

**Laboratory**

The designated testing laboratory authorized by County to test materials and work involved in the contract.

**Lien**

Any claim by a person entitled to file a stop notice pursuant to the provisions of California Civil Code Sections 3179, et seq.

**Notice of Award**

The written notice by County to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the conditions precedent enumerated therein, within the time specified, County will sign and deliver the Contract.

**Notice to Proceed**

A written notice given by County to Contractor fixing the date on which the contract time will commence to run and on which Contractor shall start to perform Contractor's obligations under the Contract Documents.

**Partial Completion**

Placing a portion of the work in service for the purpose for which it is intended (or a related purpose) before reaching completion of all the work.

**Person**

Includes firms, companies and corporations.

**Project**

The total construction which is required by the Contract Documents which may be all of the work or a part as indicated in the Contract Documents.

**Schedule of Values**

A list of divisions of the total scope of work under the contract made by the Contractor and approved by the County for purposes of progress payments.

**Shall**

"Shall" or "will", whenever used, is mandatory.

## **Shop Drawings**

All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for Contractor to illustrate some portion of the work and all product data illustrations, brochures, standard schedules, performance charts, instructions, diagrams, samples, and other information prepared by a supplier and submitted by Contractor to illustrate material or equipment for some portion of the work.

## **Specifications**

Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the work and certain administrative details applicable thereto.

## **Standard Specifications**

Specifications which are authored and authorized by a particular industry or agency which may be incorporated by reference. Where so incorporated, they are incorporated for use of technical data and specifications only. If there is a conflict between the standard specifications and express terms of this contract, the provisions set forth in the contract shall prevail.

## **Subcontractor**

An individual, firm or corporation having a direct contract with Contractor or with any other subcontractor for the performance of a part of the work at the site.

## **Substitute**

A device, material, equipment, technique or method of construction that differs from that intended or indicated on the Drawings.

## **Sufficient:**

"Sufficient", "necessary", "proper", "acceptable", "satisfactory", "desirable", and words of like import, wherever and in whatever manner used, with or without reference to the County, means sufficient, necessary, proper, acceptable, satisfactory and desirable in the judgment of the County.

## **Supplementary Conditions**

An addition to the Contract Documents which supplements the main Contract.

## **Underground Facilities**

All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

## **Unit Price Work**

Work to be paid for on the basis of unit prices.

## **Work**

The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the Contract Documents.

## **Working Day**

A working day is any day except Saturdays, Sundays, or legal holidays and days on which the Contractor is specifically required by special provisions, by any labor contract, or by law, to suspend construction operations. Also excepted is any day on which the Contractor is prevented by inclement weather conditions resulting therefrom, or other phenomena of nature from proceeding with at least seventy-five percent (75%) of the normal labor and equipment force for at least five (5) hours toward completion of the current controlling item on the accepted project schedule. Should the conditions prevent the work from beginning at the usual starting time, or prevent the Contractor from proceeding with seventy-five percent (75%) of the normal labor and equipment force for a period of at least five (5) hours, and the crew is dismissed as a result thereof, Contractor will not be charged for a working day whether or not conditions change so that the major portion of the day could be considered to be suitable for work on the controlling item.

## **ARTICLE II: SCOPE OF WORK**

Contractor, at Contractor's own proper costs and expense, shall do all the work and furnish all the materials necessary to construct and/or reconstruct and complete in good workmanlike and substantial manner and to the satisfaction of the County, the following: **Emergency Vehicle Preemption Safety System Project 2017**, which shall be constructed in accordance with this Contract, the Invitation to Bid, the Instruction to Bidders, the Plans and Specifications and Drawings, and all other contract documents attached hereto and which are incorporated herein by reference and made a part of this Contract as if set forth in full.

## **ARTICLE III: CONTRACT TIME**

Contractor will start work to be performed under this Contract within **7 days** after the Contractor is instructed in writing by County to proceed with the work. Said work shall be diligently prosecuted to completion. **Work shall be completed and ready for acceptance within 25 working days from the date of the mailing of the Notice to Proceed.** When any period of time is referred to in the contract documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

## **ARTICLE IV: CHANGE OF CONTRACT TIME**

### **Change by Change Order**

The contract time may only be changed by change order. A request for an extension or shortening of the contract time shall be based on written notice delivered by the party making the request to County promptly after the occurrence of the event giving rise to the request and stating the general nature of the request. Notice of the extent of the request with supporting data shall be delivered to County and shall be accompanied by the written statement that the adjustment requested is the entire adjustment to which the requesting party has reason to believe it is entitled as a result of the occurrence of said event. No request for an adjustment in the contract time will be valid if not submitted in accordance with the requirements of this paragraph.

### **Contract Time May Be Extended**

The contract time will be extended in an amount equal to time lost due to delays beyond the control of Contractor if the request is made therefor as provided in this Article. Such delays shall include, but not be limited to, acts of neglect by County or others performing additional work, or to fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God.

### **Delay and Price Change**

All time limits stated in the contract documents are of the essence. There shall be no adjustment of contract price due to delays which are not caused by the County, including but not limited to delays for fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God and the acts of any other person or entity. The provisions of this Article shall not exclude recovery for damages for delay which is caused by the County.

### **Delays in Completion of the Work**

## **1. Notice of Delays**

Whenever the Contractor foresees any delay in the prosecution of the work, and in any event immediately upon the occurrence of any delay which the Contractor regards as unavoidable, Contractor shall notify County in writing of the probability of the occurrence of such delay and its cause in order that County may take immediate steps to prevent, if possible, the occurrence or continuance of the delay or, if this cannot be done, may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the work are to be delayed thereby. It will be assumed that any and all delays which have occurred in the prosecution and completion of the work have been avoidable delays, except such delays as shall have been called to the attention of County at the time of their occurrence and found by County to have been unavoidable. The Contractor shall make no requests for extensions of time as to delay not called to the attention of County at the time of its occurrence.

## **2. Avoidable Delays**

Avoidable delays in the prosecution or completion of the work shall include all delays which in the opinion of County would have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or Contractor's subcontractors.

## **3. Unavoidable Delays**

Unavoidable delays in the prosecution or completion of the work shall include all delays which, in the opinion of County, result from causes beyond the control of the Contractor and which could not have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor or the subcontractors and/or any suppliers. Delay in completion due to contract modifications ordered by County and unforeseeable delays in the completion of work or interference by other contractors employed by County will be considered unavoidable delays insofar as they interfere with the Contractor's completion of the work.

## **Extension of Time**

### **1. Avoidable Delays**

In case the work is not completed in the time specified, including such extensions of time as may have been granted for unavoidable delays, the Contractor will be assessed damages for delay in accordance with the liquidated damages provision. The County, however, shall have the right to grant an extension of time for avoidable delay if it is deemed in County's best interest to do so. During such extension of time, the Contractor will be charged for engineering and inspection services and other costs but will not be assessed damages for the delay.

### **2. Unavoidable Delays**

For delays which County considers to be unavoidable, the Contractor shall, pursuant to Contractor's application, be allowed an extension of time beyond the time herein set forth, proportional to such delay or delays, in which to complete the contract. During such extension of time, neither extra compensation for engineering and inspection provided nor damages for delay will be charged to the Contractor.

## **Liquidated Damages**

County and Contractor recognize that time is of the essence and that County will suffer financial loss if the work is not completed within the time specified above, plus any extensions thereof allowed in accordance with this contract. They also recognize the delays, expense and difficulties involved in proving the actual loss suffered by County if the work is not completed on time. Accordingly, instead of requiring any such proof, and due to impracticality and difficulty of ascertaining exact damages caused by delay, County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay County of Nevada **\$500.00** for each day that expires after the time specified above for completion. Such damages shall only be payable by Contractor to County if the delay is a result of the failure of Contractor to timely perform on its part and not occasioned by the

County or any State or Federal agency. In case of joint responsibility for delay in the final completion of the work, where two or more separate contracts are in force at the same time and cover work at the same site, liquidated damages assessed against any one Contractor will be based upon the individual responsibility of that Contractor for the delay as determined by, and in the judgment of, County. County shall have the right to deduct the liquidated damages from any money in its hands, otherwise due, or to become due, to Contractor, or to sue for and recover compensation for damages for nonperformance of this contract within the time stipulated. It is acknowledged that the subject contract is a public project which is subject to the provisions of the Public Contracts Code. Accordingly, County has determined and the Contractor acknowledges that the liquidated damages as established herein are governed by the provisions of Government Code Section 53069.85 and are predicated upon the reasonable damages accruing to County stemming from any delay in the completion of this project.

## **ARTICLE V: CONTRACT PRICE**

County shall pay Contractor for performance of the work in accordance with the Contract Documents in current funds as follows: \_\_\_\_\_ Dollars (\$\_\_\_\_\_)

## **ARTICLE VI: CHANGE OF CONTRACT PRICE**

### **Contract Price**

The contract price constitutes the total compensation (subject to authorized adjustments) payable to Contractor for performing the work. All duties, responsibilities and obligations assigned to or undertaken by Contractor shall be at Contractor's expense without change in the contract price.

### **Change by Change Order**

The contract price may only be changed by a written change order. Any request for an increase or decrease in the contract price shall be based on written notice delivered by the party making the request to the other party prior to the commencement of any extra work. Said request shall state the exact nature of the request.

Data regarding any change shall be delivered by Contractor prior to commencing extra work and shall be accompanied by Contractor's written statement that the amount requested covers all amounts (direct, indirect and consequential) to which the Contractor is entitled as a result of the extra work to be done. If said request is granted, County will issue a written change order therefor. No request for an adjustment in the contract price will be valid if not submitted in advance and in accordance with this paragraph.

### **Determination of Change in Contract Price**

The value of any work covered by a change order or of any request for an increase or decrease in the contract price shall be determined in one of the following ways:

1. Where the work involved is covered by unit prices contained in the contract documents, by application of unit prices to the quantities of the items involved (subject to the provisions regarding unit price work set forth below).
2. By mutual agreement, and if there is no mutual agreement, No. 3 directly below shall apply.
3. On the basis of the cost of the work determined as provided below plus a Contractor's fee for overhead and profit as provided below.

### **Cost of the Work**

The term "cost of the work" means the sum of all costs necessarily incurred and paid by Contractor in the proper performance of the extra work required or permitted under a change order. Except as otherwise may be agreed to in writing by County, such costs shall be in amounts no higher than those prevailing in the locality of the project and shall include only the following items:

1. Payroll costs for employees in the direct employ of Contractor in the performance of the work under schedules of job classifications agreed upon by County and Contractor. Payroll costs for employees not employed full time on the work shall be apportioned on the basis of their time spent on the work. Payroll costs shall include salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Saturday, Sunday or legal holidays, shall be included in the above to the extent authorized by County in writing.
2. Cost of all materials and equipment furnished and incorporated in the work, including costs of transportation and storage thereof, and suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless County deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to County. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to County, and Contractor shall make provisions so that they may be obtained.
3. Payments made by Contractor to the subcontractors for work performed by subcontractors. If required by County, Contractor shall obtain competitive bids from subcontractors acceptable to Contractor and shall deliver such bids to County who will then determine which bids will be accepted. If a subcontract provides that the subcontractor is to be paid on the basis of cost of the work plus a fee, the subcontractor's cost of the work shall be determined in the same manner as Contractor's cost of the work. All subcontracts shall be subject to the other provisions of the contract documents insofar as applicable.
4. Costs of special consultants (including engineers, architects, testing laboratories, surveyors, and accountants) employed for services specifically, and only, related to the work.
5. Supplemental costs including the following:
  - a. The proportion of necessary transportation, travel and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the work.
  - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the work, and cost, less market value of such items used but not consumed which remain the property of Contractor.
  - c. Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by County, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the work.
  - d. Sales, consumer, use or similar taxes related to the work, and for which Contractor is liable, imposed by laws and regulations.
  - e. Deposits lost for causes other than negligence of Contractor, any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
  - f. Losses and damages (and related expenses), not compensated by insurance or otherwise, to the work or otherwise sustained by contractor in connection with the performance and furnishing of the work (except losses and damages within the deductible amounts of property insurance established by County), provided they have resulted from causes other than the negligence of Contractor, any subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of County. No such losses, damages and expenses shall be included in the cost of the work for the purpose of determining Contractor's fee. If, however, any

such loss or damage requires reconstruction and Contractor is placed in charge thereof, Contractor shall be paid for services a fee proportionate to that stated below under Contractor's fee.

- g. The cost of utilities, fuel and sanitary facilities at the site.
- h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the work.
- i. Cost of premiums for additional bonds and insurance required because of changes in the work and premiums for property insurance coverage within the limits of the deductible amounts established by County in this contract.

### **Not Included in Cost of the Work**

The term "cost of the work" shall not include any of the following:

1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by Contractor whether at the site or in Contractor's principal or a branch office for general administration of the work and not specifically included in the agreed upon schedule of job classifications referred to in this contract or specifically covered above under costs of special consultants, all of which are to be considered administrative costs covered by the Contractor's fee.
2. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.
3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the work and charges against Contractor for delinquent payments.
4. Cost of premiums for all bonds and for all insurance whether or not Contractor is required by the contract documents to purchase and maintain the same (except for the cost of premiums specifically covered above).
5. Costs due to the negligence of Contractor, any subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective work, disposal of materials or equipment wrongly supplied and making good any damage to property.
6. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included herein.

### **Contractor's Fee**

The Contractor's fee allowed to Contractor for overhead and profit shall be determined by a fee based on the following percentages of the various portions of the cost of the work:

- a. For all allowable costs of the work incurred under the paragraphs dealing with payrolled employees and costs of materials and equipment, the Contractor's fee shall be fifteen percent;
- b. For all allowable costs of the work incurred under the paragraph dealing with work done by subcontractors, the Contractor's fee shall be five percent; and if a subcontract is on the basis of cost of the work plus a fee, the maximum allowable to Contractor on account of overhead and profit of all subcontractors shall be fifteen percent, for a total add-on of twenty percent.
- c. No fee shall be payable on the basis of costs itemized under paragraphs dealing with special consultants, supplemental costs and/or costs not included in cost of the work.

- d. The amount of credit to be allowed by Contractor to County for any such change which results in a net decrease in cost will be the amount of the actual net decrease plus a deduction in Contractor's fee by an amount equal to ten percent of the net decrease; and
- e. When both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with paragraphs 2(a) through 2(d) above.

### **Cost Breakdown**

Whenever the cost of any work is to be determined as set forth herein, Contractor will submit, in form acceptable to County, an itemized cost breakdown together with supporting data.

### **Cash Allowances**

It is understood that Contractor has included in the contract price all allowances so named in the contract documents and shall cause the work so covered to be done by such subcontractors or suppliers and for such sums within the limit of the allowances as may be acceptable to County. Contractor agrees that:

1. The allowances include the cost to the Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the site, and all applicable taxes; and
2. Contractor's cost for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the allowances have been included in the contract price and not in the allowances. No demand for additional payment on account of any thereof will be valid.

Prior to final payment, an appropriate change order will be issued to reflect actual amounts due Contractor on account of work covered by allowances, and the contract price shall be correspondingly adjusted.

### **Unit Price Work**

Where the contract documents provide that all or part of the work is to be unit price work, initially the contract price will be deemed to include for all unit price work an amount equal to the sum of the established unit prices for each separately identified item of unit price work times the estimated quantity of each item as indicated in the contract documents. The estimated quantities of items of unit price work are not guaranteed and are solely for the purpose of comparison of bids and determining an initial contract price. Determinations of the actual quantities and classifications of unit price work performed by Contractor will be made by County. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item. Except for items shown on the bid sheet or in the specifications as "contingency" items where no additional amounts will be allowable, where the quantity of any item of unit price work performed by Contractor differs more than 25 percent from the estimated quantity of such item indicated in the contract documents and there is no corresponding adjustment with respect to any other item of work, and if either party believes that it has incurred additional expense or reduced cost as a result thereof, either party may make a claim for an increase or decrease in the contract price if the parties are unable to agree as to the amount of any such increase or decrease.

### **Final Pay Quantities**

When the estimated quantities for a specific portion of the work are designated on the plans as final pay quantities, said estimated quantities shall be the final quantities for which payment for such specific portion of the work will be made, unless the dimensions of said portions of the work shown on the plans are revised by the Engineer. If such dimensions are revised, and such revisions result in an increase or decrease in the quantities of such work, the final quantities for payment will be revised in the amount represented by the changes in the dimensions. The estimated quantities for such specific portion of the work shall be considered as approximate only and no guarantee is made that the quantities which can be determined by computations, based on the details and dimensions shown on the plans, will equal the estimated quantities. No allowance will be made in the event that the quantities based on computations do not equal the estimated quantities.

When portions of an item have been designated on the plans as final pay quantities, portions not so designated will be measured and paid for in accordance with the applicable provisions of these specifications and the special provisions.



In case of a discrepancy between the quantities shown on the plans as final pay quantities and the quantity of the same item shown in the Engineer's Estimate, payment will be based on the final pay quantities shown on the plans.

## **ARTICLE VII: PAYMENTS TO CONTRACTOR**

### **Source of Funds**

The source of funding by the County for this work shall be STIP funding under the following budget code:

**1114-30104-702-1000/521520**

### **Schedule of Values**

The schedule of values established for the work will serve as the basis for progress payments and will be incorporated into a form of application for payment acceptable to County. Progress payments on account of unit price work will be based on the number of units completed.

### **Invoices**

Invoices or applications for payment to the County shall be detailed and shall contain full documentation of all work performed and all reimbursable expenses incurred. Where the scope of work on the contract is divided into various tasks, invoices shall detail the related expenditures accordingly. Labor expenditures need documentation to support time, subsistence, travel and field expenses. No expense will be reimbursed without adequate documentation. This documentation will include, but not be limited to, receipts for material purchases, rental equipment and subcontractor work.

### **Progress Payment**

Once each month County shall cause an estimate to be made covering the work completed as of the date of the estimate. No materials shall be paid for until incorporated into the work. If, however, County reaches an agreement with Contractor to pay for materials and equipment not yet incorporated into the work due to some special circumstances, then Contractor must show that the materials or equipment were delivered and are suitably stored at the site or at another location agreed to in writing. In that event, the payment shall be based on a bill of sale, invoice or other documentation submitted by Contractor and warranting that County has received the materials and equipment free and clear of all liens, charges, security interests and encumbrances (which are hereinafter referred to as "liens") and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect County's interest therein, all of which will be satisfactory to County. The amount of retention with respect to progress payments will be five percent (5%).

### **Amounts of Progress Payments**

Prior to completion, progress payments will be in an amount equal to:

1. Ninety five percent (95%) of the work completed, and
2. Where applicable pursuant to the above, ninety percent (90%) of materials and equipment not incorporated in the work but delivered and suitably stored, less in each case the aggregate of payments previously made.
3. Thirty-five days after recording of the Notice of Completion but not later than 60 days after completion of the work as defined in Public Contract Code section 7107, and upon Contractor providing all required documentation, County will pay an amount sufficient to increase total payments to Contractor to one hundred percent (100%) of the contract price, less such amounts as County shall determine in accordance with this contract. County reserves the right to retain such funds as it shall determine in accordance with the contract documents to complete the work.
4. The Contractor may elect to receive 100% of payments due under this contract from time to time, without retention of any portion of the payment by the public agency, by depositing securities of equivalent value with County in accordance with the provisions of Section 22300 of the California Public Contract Code;

except that no such substitution shall be allowed where federal money is funding the project and federal regulations or policies would prohibit such substitution of securities for the retention. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code, or bank or savings and loan certificates of deposits. Such securities, if deposited by the bidder, shall be valued by County whose decision on the valuation of the securities shall be final. The bidder shall be the beneficial owner of any securities substituted for money withheld and shall receive any interest thereon.

### **Contractor's Warranty of Title**

Contractor warrants and guarantees that title to all work, materials and equipment covered by any application for payment, whether incorporated in the project or not, will pass to County no later than the time of payment free and clear of all liens.

### **Payment of Progress Payment**

County will submit each progress pay estimate to Contractor. Upon receipt back from Contractor of a signed copy of the pay estimate, County shall process the pay estimate for payment. The amount approved by County will become due thirty (30) days after receipt of the signed progress pay estimate. Said payment shall be made by County to Contractor unless County has knowledge of claims or liens filed in connection with the work.

Pursuant to Public Contract Code Section 20104.50, if the County fails to make any progress payment within thirty (30) days after receipt of an undisputed and properly submitted payment request it shall pay interest to Contractor at the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure. "Progress payment" for purposes of this paragraph includes all payments due Contractor except that portion of the final payment designated by the contract as retention earnings.

Also, pursuant to Public Contract Code Section 20104.50, each payment request shall be reviewed by County as soon as practicable after receipt for the purpose of determining that the payment request is a proper payment request. Any payment request determined not to be a proper payment request suitable for payment shall be returned to Contractor as soon as practicable, but not later than seven (7) days after receipt. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper. The number of days available to County to make a payment without incurring interest pursuant to Public Contract Code Section 20104.50 shall be reduced by the number of days by which County exceeds the seven (7) day return requirement. A payment request shall be considered properly executed if funds are available for payment of the payment request, and payment is not delayed due to an audit inquiry by the financial officer of the County.

### **County's Recommendation of Payment**

By County's recommending any payment, Contractor cannot conclude that County represents that exhaustive or continuous on-site inspections have been made to check the quality or the quantity of the work in the contract documents or that there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by County or County to withhold payment to Contractor.

### **County May Refuse to Make Payment**

County may refuse to make payment of the full amount or any part if, in County's opinion, it would be incorrect to make such payment. County may also refuse to make any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended, to such extent as may be necessary in County's opinion to protect County from loss because:

1. The work is defective, or completed work has been damaged requiring correction or replacement,
2. The contract price has been reduced by written amendment or change order,
3. Contractor has been required to correct defective work or complete work, or
4. Of County's actual knowledge of the occurrence of any of the events enumerated in paragraphs relating to suspension of work and termination.

County may refuse to make payment of the full amount because claims have been made against County on account of Contractor's performance or furnishing of the work or liens have been filed in connection with the work or there are other items entitling County to a set-off against the amount recommended, but County must give Contractor immediate written notice stating the reasons for such action.

## **Completion and Final Inspection**

When Contractor considers the entire work ready for its intended use, Contractor shall notify County in writing that the entire work is completed. Within a reasonable time thereafter, County and Contractor shall make an inspection of the work to determine the status of completion. If County does not consider the work complete, County will notify Contractor in writing giving the reasons therefor. If County considers the work incomplete, County will prepare and deliver a list of items to be completed or corrected before final payment. Contractor shall immediately take such measures as are necessary to complete or correct the listed items.

## **Acceptance and Final Application for Payment**

After Contractor has completed all such measures to remedy deficiencies to the satisfaction of County and delivered all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, marked-up record documents, property owner's releases and other documents, all as required by the contract documents, and after County has indicated that the work is acceptable, Contractor may make application for final payment. The final application for payment shall be accompanied by all documentation called for in the contract documents, together with complete and legally effective receipts, releases or waivers (satisfactory to County) from all subcontractors or material suppliers and an affidavit of Contractor that the releases and receipts include all labor, services, material and equipment for which a lien could be filed, and that all payrolls, material and equipment bills, and other indebtedness connected with the work for which County or County's property might in any way be responsible, have been paid or otherwise satisfied; and consent of the surety, if any, to final payment. If any subcontractor or supplier fails to furnish a release or receipt in full, or if a stop notice has been filed, Contractor may furnish a bond or other collateral satisfactory to County to indemnify County against any lien.

## **Final Payment**

If, on the basis of County's review of the final application for payment and accompanying documentation, all as required by the contract documents, County is satisfied that Contractor's obligations under the contract documents have been fulfilled, County will, within seven (7) days after receipt of the final application for payment, process the application for payment. Otherwise, County will return the application to Contractor, indicating in writing the reasons for refusing to make final payment, in which case Contractor shall make the necessary corrections and resubmit the application. Thirty-five days after presentation to County of the application and accompanying documentation, in appropriate form and substance, but no later than 60 days after completion of the project as defined in Public Contract Code Section 7107, or thirty-five (35) days after recording of a Notice of Completion, whichever date is later, the full retention will become due and will be paid by County to Contractor.

## **Delay in Completion Through No Fault of Contractor**

If, through no fault of Contractor, final completion of the work is significantly delayed and if County so confirms, County shall, upon receipt of Contractor's final application for payment, and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. If the remaining balance to be held by County for work not fully completed or corrected is less than the retainage stipulated in the contract, and if the appropriate bonds have been furnished, the written consent of the surety to the payment of the balance due for that portion of the work fully completed and accepted shall be submitted by Contractor to County with the application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

## **Contractor's Continuing Obligation**

Contractor's obligation to perform and complete the work in accordance with the contract documents shall be absolute. Neither the issuance of a certificate of substantial completion, nor any payment by County to Contractor under the contract documents, nor any use or occupancy of the work or any part thereof by County, nor any act of acceptance by County nor any failure to do so, nor any review and approval of a shop drawing or sample submission, nor the issuance of a notice of acceptability, nor any correction of defective work by County will constitute an acceptance of work not in accordance with the contract documents or a release of Contractor's obligation to perform the work in accordance with the contract documents.

## **Waiver of Claims**

The making and acceptance of final payment will constitute:

1. A waiver of all claims by County against Contractor, except claims arising from unsettled liens, or from defective work appearing after final inspection or from failure to comply with the contract documents or the terms of any special guarantees specified therein, or from any outstanding claims; however, it will not constitute a waiver by County of any rights in respect of Contractor's continuing obligations under the contract documents; and
2. A waiver of all claims by Contractor against County other than those previously made in writing and still unsettled.

## **Books of Account and Audit Provision**

Contractor shall maintain on a current basis complete books and records relating to this contract. Such records shall include, but not be limited to, documents supporting all bids, all income and all expenditures. The books and records shall be original entry books with a general ledger itemizing all debits and credits for the work on this contract. In addition, Contractor shall maintain detailed payroll records including all subsistence, travel and field expenses, and canceled checks, receipts and invoices for all items. These documents and records shall be retained for at least five years from the completion of this contract. Contractor will permit County to audit all books, accounts or records relating to this contract or all books, accounts or records of any business entities controlled by Contractor who participated in this contract in any way. Any audit may be conducted on Contractor's premises or, at County's option, Contractor shall provide all books and records within a maximum of fifteen (15) days upon receipt of written notice from County. Contractor shall refund any moneys erroneously charged. If County ascertains that it has been billed erroneously by Contractor for an amount equaling 5% or more of the original bid, Contractor shall be liable for the costs of the audit in addition to any other penalty to be imposed.

## **ARTICLE VIII: PRELIMINARY MATTERS**

### **Delivery of Certificates of Insurance**

Before any work at the site is started, Contractor shall deliver to County certificates (and other evidence of insurance requested by County) which Contractor is required to purchase and maintain in accordance with the insurance provisions herein.

### **Delivery of Bonds**

When Contractor delivers the executed Agreements to County, Contractor shall also deliver to County the bonds required herein. Notwithstanding the language in bonds authorizing attorneys' fees to be awarded if suit is brought upon the bond, no attorneys' fees shall be payable for any other suit brought under this contract.

### **Pre-construction Conference**

Within **7 days** after receipt of the notice to proceed, but before contractor starts the work at the site, a conference attended by Contractor and County and others as appropriate will be held to discuss schedules, procedures for handling shop drawings and other submittals and for processing applications for payment, and to establish a working understanding among the parties as to the work.

### **Delivery of Schedules**

Within **5 days** after receipt of written notice to proceed, Contractor shall submit to County for review:

1. An estimated progress schedule indicating the starting and completion dates of the various stages of the work;
2. A preliminary schedule of shop drawing submissions;
3. A preliminary schedule of product deliveries;
4. A preliminary schedule of values for all of the work which will include quantities and prices of items aggregating the contract price and will subdivide the work into component parts in sufficient detail to

serve as the basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of work which will be confirmed in writing by Contractor at the time of submission.

## **Finalizing Schedules**

At least ten days before submission of the first application for payment a conference attended by Contractor, County and others as appropriate will be held to finalize schedules. The finalized progress schedule will be acceptable to County as providing an orderly progression of the work to completion within the contract time, but such acceptance will neither impose on County responsibility for the progress or scheduling of the work nor relieve Contractor from full responsibility therefor. The finalized schedule of shop drawing submissions will be acceptable to County as providing a workable arrangement for processing the submissions. The finalized schedule of values will be acceptable to County as to form and substance.

## **Before Starting Construction**

Contractor shall provide County with at least 72 hours written notice of the date on which it intends to commence work. Before undertaking each and every part of the work, Contractor shall carefully study and compare the contract documents and check and verify pertinent figures shown thereon and all applicable field measurements. Contractor shall promptly report in writing to County any conflict, error or discrepancy which Contractor may discover and shall obtain a written interpretation or clarification from County before proceeding with any work affected thereby; however, Contractor shall not be liable to County for failure to report any conflict, error or discrepancy in the contract documents, unless Contractor had actual knowledge thereof or should reasonably have known thereof.

## **Contractor's Representations**

In order to induce County to enter into this agreement, Contractor makes the following representations:

1. Contractor has familiarized himself or herself with the nature and extent of the contract documents, work, locality, and with all local conditions and federal, state and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the work.
2. Contractor has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the work which were relied upon by County in the preparation of the drawings and specifications and which have been identified in the contract documents.
3. Contractor has made or caused to be made examinations, investigations, and tests and studies of such reports and related data necessary for the performance of the work at the contract price, within the contract time and in accordance with the other terms and conditions of the contract documents; and no additional examinations, investigations, tests, reports or similar data are or will be required by Contractor for such purposes.
4. Contractor has correlated the results of all such observations, examinations, investigations, tests, reports and data with the terms and conditions of the contract documents.
5. Contractor has given County written notice of all conflicts, errors or discrepancies that have been discovered in the contract documents and the written resolution thereof by County is acceptable to Contractor.

## **ARTICLE IX: CHANGES IN THE WORK**

### **County May Order Changes**

Without invalidating this contract and without notice to any surety, County may, at any time or from time to time, order additions, deletions or revisions in the work; these will be authorized by change order. Upon receipt of any such document, Contractor shall promptly forward any request for change in the contract price and, if instructed to do so, proceed with the work involved which will be performed under the applicable conditions of the contract documents (except as otherwise specifically provided).

## **Failure to Agree to a Price or Time Change; Claims**

If County and Contractor are unable to agree as to the extent, if any, of an increase or decrease in the contract price or an extension or shortening of the contract time that should be allowed, a claim may be made therefor but the work shall proceed if County so instructs.

## **No Change in Time or Price for Work Not Required**

Contractor shall not be entitled to an increase in the contract price or an extension of the contract time with respect to any work performed that is not required by the contract documents as amended, modified and supplemented except in the case of an emergency as set forth herein and except in the case of uncovering work for inspection or testing as set forth in this contract.

## **Changes in Time or Price**

County and Contractor shall execute appropriate change orders (or written amendments) covering:

1. Changes in the work which are ordered by County or are agreed to by the parties;
2. Changes in the contract price or contract time which are agreed to by the parties; and
3. Changes in the contract price or contract time which embody the substance of any written decision rendered by County in response to a request therefor.

## **Notice to Sureties**

If notice of any change affecting the general scope of the work or the provisions of the contract documents (including, but not limited to, contract price or contract time) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Contractor's responsibility, and the amount of each applicable bond will be adjusted accordingly. Failure to give such notice shall not release the surety from its obligations to County.

## **ARTICLE X: CONTRACT DOCUMENTS**

### **Intent**

The contract documents comprise the entire agreement between County and Contractor concerning the work. The contract documents are complementary; what is called for by one is as binding as if called for by all. The contract documents will be construed in accordance with California law.

### **Contract Interpretation**

It is the intent of the contract documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the contract documents. Any work, materials or equipment that may reasonably be inferred from the contract documents as being required to produce the intended results will be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe work, materials or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code or laws or regulations in effect at the time of opening of bids, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of County or Contractor, or any of their consultants, agents or employees from those set forth in the contract documents, nor shall it be effective to assign to County, or any of County's consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibility contrary to the provisions of this contract. Clarifications and interpretations of the contract documents shall be issued by County.

## **Conflicts, Errors and Discrepancies**

If during the performance of the work, Contractor finds a conflict, error or discrepancy in the contract documents, Contractor shall so report to County in writing at once and before proceeding with the work affected thereby shall obtain a written interpretation or clarification from County.

## **Amending Contract Documents**

The contract documents may be amended to provide for additions, deletions and revisions in the work or to modify the terms and conditions thereof by change order. Contract price and contract time may only be changed by change order.

## **Supplementary Contract Documents**

In addition to the above, the requirements of the contract documents may be supplemented, and minor variations and deviations in the work may be authorized in one or more of the following ways:

1. A field order,
2. County's approval of a shop drawing or sample, or
3. County's written interpretation or clarification.

## **Reuse of Documents**

Neither contractor nor any subcontractor or supplier or other person or organization performing or furnishing any of the work under a direct or indirect contract with County shall have or acquire any title to or ownership rights in any of the drawings, specifications or other documents (or copies of any thereof) prepared by or bearing the seal of County; and they shall not reuse any of them on extensions of the project or any other project without written consent of County and specific written verification or adaptation by County.

## **Contract Documents**

The contract documents comprise the entire agreement between the parties and may be amended only by writing signed by both parties or by written change order. The contract documents shall include this contract, any general and special conditions, plans and specifications, bidding documents and addenda thereto, and all proposals submitted by Contractor. In the case of ambiguity or conflict, the documents shall be given the following priority:

1. Special provisions or conditions
2. Standard Public Works Contract
3. Project plans
4. Standard plans
5. Standard specifications
6. All other documents incorporated by reference.

## **ARTICLE XI: THE PROJECT SITE**

### **Availability of Lands**

County shall furnish, as indicated in the contract documents, the lands upon which the work is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of Contractor. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by County, unless otherwise provided in the contract documents. If Contractor believes that any delay in County's furnishing these lands, rights-of-way or easements entitles Contractor to an extension of the contract time, Contractor may make a claim therefor as provided for herein. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

## **Physical Conditions**

If the contract documents identify those reports of explorations and tests of subsurface conditions at the site that have been utilized by County in preparation of the contract documents, Contractor may rely upon the accuracy of the factual data contained in such reports but not upon interpretations or opinions contained therein or for the completeness or representativeness thereof for Contractor's purposes. If construction drawings of physical conditions in or relating to existing surface and subsurface structures (except underground facilities discussed below) at or contiguous to the site have been utilized by County in preparation of the contract documents, Contractor may rely upon the accuracy of the factual data contained in such drawings but not the completeness thereof for Contractor's purposes. If Contractor believes that any factual data on which Contractor is entitled to rely is inaccurate, or any physical condition uncovered or revealed at the site differs materially from that indicated, reflected or referred to in the contract documents, Contractor shall, promptly after becoming aware thereof and before performing any work in connection therewith (except in an emergency as permitted herein), notify County in writing about the inaccuracy or difference. Failure to notify County promptly shall relieve County of any liability for any and all claims resulting from such inaccuracy or difference.

## **County's Review**

County will review the pertinent conditions, determine the necessity of obtaining additional explorations or tests with respect thereto and advise Contractor in writing of County's findings and conclusions.

## **Possible Document Change**

If County concludes that there is a material error in the contract documents or that because of newly discovered conditions a change in the contract documents is required, a change order will be issued in writing as provided to reflect and document the consequences of the inaccuracy or difference.

## **Possible Price and Time Adjustments**

In each case of inaccuracy or difference, an increase or decrease in the contract price or an extension or shortening of the contract time, or any combination thereof, will be allowable to the extent that they are attributable to any such inaccuracy or difference. If County and Contractor are unable to agree as to the amount or length thereof, a claim may be made therefor as provided in the contract documents.

## **Physical Conditions - Underground Facilities**

The information and data shown or indicated in the contract documents with respect to existing underground facilities at or contiguous to the site is based on information and data furnished to County by the owners of such underground facilities or by others. Generally service connections are not indicated on drawings. Unless it is otherwise expressly provided:

1. County shall not be responsible for the accuracy or completeness of any such information or data; and,
2. Contractor shall have full responsibility for reviewing and checking all such information and data, for locating all underground facilities shown or indicated in the contract documents, for coordination of the work with the owners of such underground facilities during construction, for the safety and protection thereof, and repairing any damage thereto resulting from the work, the cost of all of which will be considered as having been included in the contract price.
3. If an underground facility is uncovered or revealed at or contiguous to the site which was not shown or indicated in the contract documents and which Contractor could not reasonably have been expected to be aware of, Contractor shall, promptly after becoming aware thereof and before performing any work affected thereby (except in an emergency as permitted by this contract), identify the owner of such underground facility and give written notice thereof to that owner and to County. County will review the underground facility to determine the extent to which the contract documents should be modified to reflect and document the consequences of the existence of the underground facility, and the contract documents will be amended or supplemented to the extent necessary. During such time, Contractor shall be responsible for the safety and protection of such underground facility as provided herein. Contractor shall be allowed an increase in the contract price or an extension of the contract time, or both, to the extent that they are attributable to the existence of any underground facility that was not shown or indicated in the contract documents and which Contractor could not reasonably have been expected to be aware of and will not be assessed liquidated damages pursuant to Government Code Section 4215.



If the parties are unable to agree as to the amount or length thereof, Contractor may make a claim therefor as provided in these contract documents.

### **Preservation of Property**

Due care shall be exercised to avoid injury to existing highway improvements or facilities, utility facilities, adjacent property, and roadside trees, shrubs, and other plants that are not to be removed. Roadside trees, shrubs, and other plants that are not to be removed, and pole lines, fences, signs, markers and monuments, buildings and structures, conduits, pipelines under or above ground, sewer and water lines, all highway facilities and any other improvements or facilities within or adjacent to the project shall be protected from injury or damage, and if ordered by County, the Contractor shall provide and install suitable safeguards, approved by County, to protect such objects from injury or damage. If such objects are injured or damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense. The facilities shall be replaced or restored to a condition as good as when the Contractor entered upon the work, or as good as required by the specifications accompanying the contract, if any such objects are a part of the work being performed under the contract. County may make or cause to be made such temporary repairs as are necessary to restore to service any damaged facility. The cost of such repairs shall be borne by the Contractor and may be deducted from any moneys due or to become due to the Contractor under the contract. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in protecting or repairing property, shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

### **Reference Points**

County shall establish one or more horizontal and vertical reference points for construction which in County's judgment are necessary to enable Contractor to proceed with the work or as provided in the contract documents. County shall set any other stakes or marks which it deems necessary to establish the lines and grades required for the completion of the work unless the special provisions require that the Contractor is responsible for laying out the work. Contractor shall notify the County when Contractor requires staking, in writing a reasonable time in advance of such requirement. In no event shall Contractor give less than two working days notice of such requirement. Contractor shall protect and preserve the established reference points, stakes and marks and shall make no changes or relocations without the prior written approval of County. Contractor shall report to County whenever any reference point, stake or mark is lost or destroyed or requires relocation because of necessary changes in grades or locations. Contractor will be charged for the cost of relocation or replacement if the need therefor arises due to Contractor's acts.

### **Power**

The Contractor shall provide, at no additional cost to the County, all construction power used at the project site and shall make all arrangements with the electrical utility and with the County for power takeoff points, voltage and phasing requirements, transformers, and metering and shall pay all costs and fees arising therefrom. It shall be the Contractor's responsibility to provide all special connections required for the work.

### **Water**

The Contractor shall provide the water needed for the work, including potable water, construction water, and water for testing purposes.

### **Sanitary Facilities**

The Contractor shall make arrangements for use of adequate toilet facilities at or near the site of work. Such facilities shall be subject to the acceptance of the County as to location and type. The Contractor shall maintain the sanitary facilities in acceptable condition from the beginning of the work until completion and shall remove the facilities and disinfect the premises.

## **ARTICLE XII: LABOR, MATERIAL AND PERFORMANCE BONDS**

### **Bonds to be Provided**

The Contractor shall furnish two bonds each in the amount of one hundred (100%) percent of the contract price, one as security for the faithful performance of the work, and the other as security for the faithful payment and satisfaction of all persons furnishing materials and performing labor for the project. The bonds shall be issued by a corporation duly and legally licensed to transact surety business in the State of California. The labor and materials bond shall remain in force throughout the period required to complete the work and for 35 days after the recording of the Notice of Completion. The performance bond shall remain in force for a period of 365 days after final acceptance of the work to cover any defects in workmanship, materials, or equipment which develop in that time. The bonds must be executed by a duly licensed surety company and accompanied by a certified copy of the authority to act. The scope of the bonds or the forms thereof shall in no way affect or alter the liabilities of the Contractor to County. Bonds shall be executed on the forms included in the contract documents.

### **Insolvency or Termination of Right to Do Business**

If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in California, Contractor shall within five days thereafter substitute another bond and surety, both of which must be acceptable to County. If an acceptable substitute is not furnished within five days, County may terminate Contractor.

## **ARTICLE XIII: CONTRACTOR LIABILITY AND INSURANCE**

### **Liability of Contractor**

The Contractor shall be liable for all damages and injury which shall be caused to County or any other owners of property on or in the vicinity of the work or which shall occur to any person or persons or property whatsoever arising out of the performance of this contract. Contractor agrees to hold County harmless and indemnify County for any such losses.

### **Contractor's Liability Insurance**

Contractor shall purchase and maintain commercial general liability and other insurance as is appropriate for the work being performed and furnished and as will provide protection from claims set forth below which may arise out of or result from Contractor's performance and furnishing of the work and Contractor's other obligations under the contract documents, whether it is to be performed or furnished by Contractor, by any subcontractor, by anyone directly or indirectly employed by any of them to perform or furnish any of the work, or by anyone for whose acts any of them may be liable:

1. Claims under workers' disability benefits and other similar employee benefit acts;
2. Claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
3. Claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
4. Claims for damages insured by personal injury liability coverage which are sustained (a) by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or (b) by any other person for any other reason;
5. Claims for damages, other than to the work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom;
6. Claims arising out of operation of laws or regulations for damages because of bodily injury or death of any person or for damage to property; and
7. Claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

To the extent that Contractor's work, or work under Contractor's direction, may require blasting, explosive conditions, or underground operations, the comprehensive general liability coverage shall contain no exclusion relative to blasting, explosion, collapse of buildings, or damage to underground property.

The insurance required by this paragraph shall be "per occurrence" coverage and shall include the specific coverages and be written for not less than the limits of liability and coverages provided herein, or required by law, whichever is greater. The commercial general liability insurance shall include completed operations insurance. All such insurance shall remain in effect until final payment and at all times thereafter when Contractor may be correcting, removing or replacing defective work. In addition, Contractor shall maintain such completed operations insurance for at least one year after final payment and furnish County with evidence of continuation of such insurance at final payment. If Contractor's insurance is canceled prior to completion of the project and the Contractor does not furnish a new Certificate of Insurance prior to cancellation, County may obtain the required insurance and deduct the premium from contract moneys due the Contractor.

At the option of Contractor, evidence of coverage and limits may be furnished by an umbrella liability policy certificate in addition to certificates for worker's compensation and employer's liability, and comprehensive automobile and general liability policies.

### **Contractual Liability Insurance**

The commercial general liability insurance required above will include contractual liability insurance applicable to Contractor's obligations hereunder.

### **Property Insurance**

Unless otherwise specifically provided, Contractor shall purchase and maintain property insurance (builder's risk) upon the work or equipment and supplies stored at the site to the full insurable value thereof (subject to such deductible amounts as may be agreed upon or required by laws and regulations.) This insurance shall include the interests of County and its agents, Contractor and subcontractors in the work. County shall be listed as an additional insured party. Said policy shall insure against the perils of fire, extended coverage, testing and shall include "all risk" insurance for physical loss and damage including theft, vandalism and malicious mischief, collapse and water damage, and such other perils as may be provided herein, and shall include damages, losses and expenses arising out of or resulting from any insured loss or incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers, architects, attorneys and other professionals).

### **Amount of Property Insurance**

Said insurance shall be on a "per occurrence" basis for the full value of the work and supplies and equipment stored or used in connection with the project and shall include vandalism and malicious mischief endorsement. Special consent of County shall be required prior to use of "claims made" coverage.

### **Schedule of Required Insurance**

1. Worker's Compensation Insurance: Statutory amount and employer's liability of **\$1,000,000**.
2. Contractor's Commercial General Liability Insurance (bodily injury, property damage and including contractual liability insurance, completed operations and products liability insurance): **\$1,000,000**.
3. Comprehensive Business or Commercial Automobile Liability Coverage (bodily injury liability, property damage liability, uninsured motorist protection and including non-owned and hired automobile liability): **\$1,000,000**.

Nevada County shall be named as additional insured on all insurance policies. Contractor shall provide proof of insurance required in this contract evidenced by certificates of insurance and endorsements.

### **Notice Requirement**

All the policies of insurance (or the certificates or other evidence thereof) required to be purchased and maintained by the Contractor shall contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least ten (10) days prior written notice has been given to County by registered mail.

## **Deductibles and Self-Insured Retentions**

Any deductibles or self-insured retentions must be fully disclosed by Contractor and approved by County prior to commencement of work. At County's option, the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects County, its officials and employees, or Contractor shall provide a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses.

## **Risk of Loss**

Liability for loss or damage to equipment, materials, workmanship or services occurring on or off the site shall be the responsibility of the Contractor. Liability for completed work shall not be assumed by County until both the work has been completed and County has accepted the work as complete. County will not be responsible for purchasing and maintaining any property insurance to protect the interests of Contractor, subcontractors or others in the work. The risk of loss will be borne by Contractor, subcontractor or others suffering any such loss and if any of them wishes property insurance coverage in addition to insurance required herein, each may purchase and maintain it at the purchaser's own expense.

## **Waiver of Rights**

Contractor waives all rights against County and its agents for all losses and damages caused by any of the perils covered by the policies of insurance provided for above and any other property insurance applicable to the work, and all other parties named as insureds in such policies for losses and damages so caused. Each subcontract between Contractor and a subcontractor will contain similar waiver provisions by the subcontractor in favor of County and its agents and all other parties named as insureds. None of the above waivers shall extend to the rights that any of the insured parties may have to the proceeds of insurance held by County as trustee or otherwise payable under any policy so issued.

## **No Right of Recovery**

County and Contractor intend that any policies provided as set forth herein shall protect all of the parties insured and provide primary coverage for all losses and damages caused by the perils covered thereby. Any insurance or self-insurance maintained by County shall be in excess of Contractor's insurance and shall not contribute to it.

## **Receipt and Application of Proceeds**

Any insured loss under the policies of insurance required herein will be adjusted with County and made payable to County as trustee for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause. County shall deposit in a separate account any money so received, and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged work shall be repaired or replaced, the moneys so received applied on account thereof and the work and the cost thereof covered by an appropriate change order or written amendment.

## **County's Duties as Trustee**

County as trustee shall have power to adjust and settle any loss with the insurers.

## **Acceptance of Insurance**

If County has any objection to the coverage afforded by or other provisions of the insurance required to be purchased and maintained by Contractor on the basis of its not complying with the contract documents, County shall notify Contractor in writing thereof and Contractor shall immediately provide proof of the proper coverage. Contractor shall provide to County such additional information in respect of insurance provided by it as County may reasonably request. County may at its option waive any type of insurance required herein which County in its discretion deems to be inapplicable to the type of project being constructed. Any such waiver shall be in writing by the County Administrator.

## **Verification of Coverage**

Contractor shall furnish County with certificates of insurance and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be on forms provided by County and are to be received and approved by County before work commences.

## **Subcontractors**

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

## **ARTICLE XIV: MATERIALS AND EQUIPMENT**

### **Material and Equipment**

Unless otherwise specified, Contractor shall furnish and assume full responsibility and risk of loss for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the work.

### **Quality of Materials and Equipment**

All materials and equipment shall be of good quality and new, except as otherwise provided in the contract documents. If required by County, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. Contractor may be required to show that materials and/or equipment will be available in sufficient quantity or time so as to assure top quality performance of the contract. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable supplier except as otherwise provided in the contract documents; but no provision of any such instructions will be effective to assign to County, or any of County's consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibility contrary to the provisions of this contract.

### **Storage of Materials and Equipment**

Materials and equipment shall be stored where specified by County and so as to insure the preservation of their quality and fitness for the work. Stored equipment and materials shall be located so as to facilitate inspection. The Contractor shall be responsible for all damages that occur to materials and equipment until the completion and final acceptance of the work by the County.

### **Substitute Items**

Whenever materials or equipment are specified or described in the contract documents by using the name of a proprietary item or the name of a particular supplier the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by County if sufficient information is submitted in advance by Contractor to allow County to determine that the material or equipment proposed is equivalent or equal to that named.

The procedure for review by County will include the following: requirements for review of substitute items of material and equipment or modification or alteration of the design of any material or equipment or portion of the work will not be accepted by County from anyone other than Contractor. If Contractor wishes to furnish or use a substitute item of material or equipment or modification or alteration of the design of any material or equipment or portion of the work, Contractor shall make written application to County for acceptance thereof, certifying that the proposed substitute or modification or alteration will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will state that the evaluation and acceptance of the proposed substitute will not prejudice Contractor's achievement of completion on time, whether or not acceptance of the substitute or design modification or alteration for use in the work will require a change in any of the contract

documents (or in the provisions of any other direct contract with County for work on the project) to adapt the design to the proposed substitute or design modification or alteration and whether or not incorporation or use of the substitute in connection with the work is subject to payment of any license fee or royalty. All variations of the proposed substitute or design modification or alteration from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated, where necessary. The application will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute or design modification or alteration, including costs of redesign and claims of other contractors affected by the resulting change, all of which shall be considered by County in evaluating the proposed substitute or design modification or alteration. County may require Contractor to furnish at Contractor's expense additional data about the proposed substitute or design modification or alteration. County will be allowed a reasonable time within which to evaluate each proposed substitute or design modification or alteration. County will be the sole judge of acceptability, and no substitute or design modification or alteration will be ordered, installed or utilized without County's prior written acceptance which will be evidenced by either a change order or an accepted shop drawing. County may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute or design modification or alteration. Contractor shall pay all costs for redesign required by the implementation of the proposed substitute.

### **Operating and Maintenance Instructions and Manufacturer's Warranties**

Before receiving payment for more than 60 percent of the purchase value of any equipment and prior to installation of said equipment, the Contractor shall deliver to County acceptable manufacturer's operating and maintenance instructions covering each item of equipment assembly provided under this contract and each and every warranty provided by the manufacturer. Manufacturers' standard brochures or manuals will be modified to reflect only that model or series of equipment installed on this project. All extraneous material will be crossed out or otherwise altered as acceptable to County.

The operating and maintenance instructions shall include, as a minimum, the following data for each item of mechanical, electrical, and instrumentation equipment:

1. An itemized list of all data provided.
2. Name and location of the manufacturer, the manufacturer's local representative, the nearest supplier and spare parts warehouse.
3. Accepted submittal information applicable to operation and maintenance.
4. Recommended installation, adjustment, start up, calibration, and troubleshooting procedures.
5. Recommended lubrication and an estimate of yearly quantity needed.
6. Recommended step-by-step procedures for all modes of operation.
7. Complete internal and connection wiring diagrams.
8. Recommended preventive maintenance procedures and schedule.
9. Complete parts lists, by generic title and identification number, with exploded view of each assembly.
10. Recommended spare parts.
11. Disassembly, overhaul, and re-assembly instructions.
12. Complete, as applicable, operating and maintenance instructions, transmittal forms and summary sheets.
13. Nameplate data for all equipment supplied, including make, model and serial numbers, type and motor data together with designation and location of equipment.

Before final acceptance of the project, the Contractor shall bind all of the above in an appropriately labeled binder. Each completed binder shall contain only that material which can be held in a non-expanded position. A complete table of contents listing all items and their location in the set shall be included in each binder. For ready reference, the Contractor shall compile a complete list of manufacturer's local representatives for each item provided. In addition to withholding payment where Contractor fails to provide County with manufacturer's warranties, Contractor shall also be deemed to have personally warranted the equipment to the same extent as the manufacturer's warranty on the equipment.

### **Patent Fees and Royalties**

Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the work or the incorporation in the work of any invention, design, process, product or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product or device is specified in the contract documents for use in the performance of the work and if to the actual knowledge of County its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to

others, the existence of such rights shall be disclosed by County in the contract documents. Contractor shall indemnify and hold harmless County and anyone directly or indirectly employed by either of them from and against all claims, damages, losses and expenses (including attorneys' fees and court and arbitration costs) arising out of any infringement of patent rights or copyrights incident to the use in the performance of the work or resulting from the incorporation in the work of any invention, design, process, product or device not specified in the contract documents, and shall defend all such claims in connection with any alleged infringement of such rights.

### **Contractor's Equipment**

The Contractor shall identify each piece of Contractor's equipment, other than hand tools, by means of an identifying number plainly stenciled or stamped on the equipment at a conspicuous location, and shall furnish to County a list giving the description of each piece of equipment and its identifying number. In addition, the make, model number and empty gross weight of each unit of compacting equipment shall be plainly stamped or stenciled in a conspicuous place on the unit. The gross weight shall be either the manufacturer's rated weight or the scale weight.

The make, model, serial number and manufacturer's rated capacity for each scale shall be clearly stamped or stenciled on the load receiving element and its indicator or indicators. All meters shall be similarly identified, rated and marked. Upon request of County, the Contractor shall furnish a statement by the manufacturer, designating sectional and weighbridge capacities of portable vehicle scales.

## **ARTICLE XV: PLANS AND SPECIFICATIONS**

### **Interpretation of Plans, Specifications and Drawings**

The plans, specifications and the drawings are intended to be explanatory of each other. Any work indicated on the drawings and not in the plans or specifications, or vice versa, shall be executed as if indicated in both. Where not specifically stated otherwise, all work and materials necessary for each unit of construction, including special construction for any specific brand or shape of material called for even though only briefly mentioned or indicated, shall be furnished and installed fully and completely as a part of the Contract. As the figured dimensions shown on the drawings and in the specifications of the contract may not in every case agree with scale dimensions, the figured dimensions shall be followed in preference to the scaled dimensions. Should it appear that the work to be done, or any of the matters relative thereto are not sufficiently detailed or explained in the contract documents, the Contractor shall apply to County for such further explanations as may be necessary, and shall conform thereto as part of the contract so far as may be consistent with the terms thereof. In the event of any doubt or question arising respecting the true meanings of the plans, specifications or drawings, the decision of County shall be final and conclusive.

Where for convenience the specifications are arranged by job classification or divided into various sections, it is to be understood this separation is for the convenience of all parties involved and is not to be considered as the limits of the work required of any separate trade. The terms and conditions of such limitations are wholly between Contractor and its subcontractors during both the bidding and construction phase; i.e., all work shown, specified, implied or necessary for the completion of each trade's work, as well as for the proper completion of the project as a whole shall be coordinated by Contractor and the subcontractors during bidding and construction and shall be provided in this contract.

### **Ownership**

All plans and specifications shall remain the property of County and shall be returned to County before the final certificate will be issued.

### **Handicapped Access**

Where applicable, it is the County's intent for all features on the plans and specifications to conform to applicable regulations for the accommodation of physically handicapped persons in buildings and facilities used by the public.

## **ARTICLE XVI: SHOP DRAWINGS AND SAMPLES**

### **Shop Drawings**

After checking and verifying all field measurements and after complying with applicable procedures herein, Contractor shall submit to County for review and acceptance in accordance with the accepted schedule of shop drawing submissions or other appropriate action if so indicated herein, the number of copies specified of all shop drawings, which will bear a stamp or specific written indication that Contractor has satisfied Contractor's responsibilities under the contract documents with respect to the review of the submission. All submissions will be identified as County may require. Such drawings shall be approved by County before any work involving the drawings is performed. The data shown on the shop drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials and similar data to enable County to review the information as required.

### **Samples**

Contractor shall also submit to County for review and acceptance with such promptness as to cause no delay in work, all samples required by the contract documents or as requested by County. All samples will have been checked by and accompanied by a specific written indication that Contractor has satisfied Contractor's responsibilities under the contract documents with respect to the review of the submission and will be identified clearly as to material, supplier, pertinent data such as catalog numbers and the use for which intended.

### **Contractor's Review**

Before submission of each shop drawing or sample, Contractor shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and reviewed or coordinated each shop drawing or sample with other shop drawings and samples and with the requirements of the work and the contract documents.

### **Notice of Variation**

At the time of each submission, Contractor shall give County specific written notice of each variation that the shop drawings or samples may have from the requirements of the contract documents, and, in addition, shall cause a specific notation to be made on each shop drawing submitted to Engineer for review and acceptance of each such variation.

### **County's Review**

County will review and accept with reasonable promptness shop drawings and samples, but County's review and acceptance will be only for conformance with the design concept of the project and for compliance with the information given in the contract documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, method, technique, sequence or procedure of construction is indicated in or required by the contract documents) or to safety precautions or programs incident thereto. The review and acceptance of a separate item as such will not indicate acceptance of the assembly in which the item functions. Within a reasonable time after receipt of drawings or samples, County will return marked up copies indicating one of the following four actions:

1. If review and checking indicates no exceptions, copies will be returned marked "NO EXCEPTIONS TAKEN" and work may begin immediately on incorporating the material and equipment covered by the submittal into the work.
2. If review and checking indicates limited corrections are required, copies will be returned marked "MAKE CORRECTIONS NOTED" and work may begin immediately on incorporating the material and equipment covered by the submittal into the work.
3. If review and checking indicates insufficient or incorrect data has been submitted, copies will be returned marked "AMEND AND RESUBMIT". No work may begin on incorporating the material and equipment covered by this submittal into the work until the submittal is revised, resubmitted, and returned marked either "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED".
4. If review and checking indicates the material and equipment submittal is unacceptable, copies will be returned marked "REJECTED". No work may begin on incorporating the material and equipment covered by this submittal into the work until a new submittal is made and returned marked either "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED".



Contractor shall direct specific attention in writing to revisions other than the corrections called for by County on previous submittals. The Contractor may authorize material or equipment supplier to deal directly with County with regard to such submittals; however, ultimate responsibility for the accuracy and completeness of the information contained in the submittal shall remain with the Contractor. Normally, a separate transmittal form shall be used for each specific item or class of material or equipment for which a submittal is required. Submittals on various items using a single transmittal form will be permitted only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates checking or review of the group or "package" as a whole.

### **Contractor's Responsibility for Variation**

County's review of shop drawings or samples shall not relieve Contractor from responsibility for any variation from the requirements of the contract documents unless Contractor has in writing called County's attention to each such variation at the time of submission and County has given written acceptance of each such variation by a specific written notation thereof incorporated in or accompanying the shop drawing or sample review nor will any review by County relieve Contractor from responsibility for errors or omissions in the shop drawings or from responsibility for having complied with the provisions above.

### **Work Performed Prior to Shop Drawing or Sample Review**

Where a shop drawing or sample is required by the specifications, any related work performed prior to County's review of the pertinent submission will be the sole expense and responsibility of Contractor.

## **ARTICLE XVII: SUBCONTRACTORS, SUPPLIERS AND OTHERS**

### **Objectionable Parties**

Contractor shall not employ any subcontractor, supplier or other person or organization, whether initially or as a substitute, against whom County may have reasonable objection. Contractor shall not be required to employ any subcontractor, supplier or other person or organization to furnish or perform any of the work against whom Contractor has reasonable objection. If the contract documents require the identity of certain subcontractors, suppliers or other persons or organizations (including those who are to furnish the principal items of materials and equipment) to be submitted to County in advance for acceptance by County and if Contractor has submitted a list thereof in accordance with the contract documents, County's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the contract documents) of any such subcontractor, supplier or other person or organization so identified may be revoked on the basis of reasonable objection after due investigation, in which case Contractor shall submit an acceptable substitute, the contract price will be increased by the difference in the cost occasioned by such substitution and an appropriate change order will be issued. No acceptance by County of any such subcontractor, supplier, or other person or organization shall constitute a waiver of any right of County to reject defective work. The Contractor may not change any subcontractors listed on its bid without written approval from County after a determination that the requirements of Public Contracts Code Section 4107 have been met.

### **Responsibility for Subcontractors**

Contractor shall be fully responsible to County for all acts and omissions of the subcontractors, suppliers and other persons and organizations performing or furnishing any of the work under a direct or indirect contract with Contractor just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the contract documents shall create any contractual relationship between County and any such subcontractor, supplier or other person or organization, nor shall it create any obligation on the part of County to pay or to see to the payment of any moneys due any such subcontractor, supplier or other person or organization except as may otherwise be required by laws and regulations. County may furnish to any subcontractor or other person or organization, to the extent practical, evidence of amounts paid the Contractor on account of specific work done.

### **Division of Work**

The divisions and sections of the specifications and the identifications of any drawings shall not control Contractor in dividing the work among subcontractors or suppliers or delineating the work to be performed by any specific trade.

## **Subcontracts**

All work performed for Contractor by a subcontractor will be pursuant to an appropriate agreement between contractor and the subcontractor which specifically binds the subcontractor to the applicable terms and conditions of the contract documents for the benefit of County and contains waiver provisions as required herein. Contractor shall pay each subcontractor a just share of any insurance moneys received by Contractor on account of losses under policies issued pursuant to this Contract.

## **ARTICLE XVIII: PERFORMANCE OF THE WORK**

### **Supervision**

Contractor shall supervise and direct the work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the work in accordance with the contract documents. Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction. Contractor shall be responsible to see that the finished work complies accurately with the contract documents.

### **Superintendence**

Contractor shall keep on the work at all times during its progress a competent resident superintendent, acceptable to County, who shall not be replaced without written notice to County except under extraordinary circumstances. The superintendent will be Contractor's representative at the site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to Contractor. When work is not in progress and during periods when work is suspended, arrangements acceptable to County shall be made for emergencies. If the superintendent is not present, County shall give direction to the next in command and said direction shall be binding.

### **Personnel**

Contractor shall provide competent, suitably qualified personnel to survey and lay out the work and perform construction as required by the contract documents. Contractor shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the work or property at the site or adjacent thereto, and except as otherwise indicated in the contract documents, all work at the site shall be performed during regular working hours, and Contractor will not permit overtime work or the performance of work on Saturday, Sunday or any legal holiday without County's written consent given after prior written notice to County.

### **Order of Work**

If a sequence or procedure is specified in the special provisions or plans for the project, Contractor shall be required to follow the sequence or procedure specified. The price for compliance with a specified sequence or procedure will be considered as part of the bid price and no extra amounts will be allowed therefor.

### **Safety and Protection**

Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. Contractor shall take all reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury or loss to:

1. All employees on the work and other persons and organizations who may be affected thereby;
2. All the work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the work may affect them, and shall cooperate with

them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to herein caused, directly or indirectly, in whole or in part, by Contractor, any subcontractor, supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, shall be remedied by Contractor. Contractor's duties and responsibilities for the safety and protection of the work shall continue until such time as all the work is completed and County has issued a notice to County and Contractor that the work is acceptable.

The Contractor shall at all times so conduct the work as to insure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the work, and to insure the protection of persons and property. No road or street shall be closed to the public except with the permission of County and other governmental authority. Fire hydrants on or adjacent to the work shall be kept accessible to firefighting equipment at all times. Temporary provisions shall be made by the Contractor to insure the use of sidewalks and private and public driveways, and the proper functioning of all gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses.

The Contractor shall leave a night emergency telephone number or numbers with the local law enforcement office, so that contact may be made easily at all times in case of trouble or emergencies. The names and telephone numbers of at least two medical doctors practicing in the vicinity and the telephone number of the local ambulance shall be prominently displayed adjacent to all telephones.

Any lighting fixtures shall be installed, mounted and directed in a manner precluding glare to approaching traffic.

### **Detours**

Where detours are necessary, Contractor shall construct and remove detours as provided in the special provisions, or as shown on the plans, or as directed by County. The failure or refusal of Contractor to construct and maintain detours at the required time shall be sufficient cause for closing down the work until remedied. The cost of the detours shall be considered a part of the contract price or as included in other items of work as noted in the special provisions and no extra amounts shall be paid therefor.

### **Safety Representative**

Contractor shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to County.

### **Vehicle Code**

Pursuant to the authority contained in Vehicle Code Section 591, County has determined that within such areas as are within the limits of the project and are open to public traffic, the following requirements of the Vehicle Code will apply. The lighting requirements in Section 25803; the brake requirements in Chapter 3, Division 12; the splash apron requirements in Section 27600; and, when operated on completed or existing treated base, surfacing, pavement or structures, except as otherwise provided in Section 7-1.02, "Weight Limitations," the weight limitation requirements contained in Division 15.

Attention is directed to the statement in said Section 591 that this section shall not relieve Contractor or any person from the duty of exercising due care. The Contractor shall take all necessary precautions for safe operation of its equipment and the protection of the public from injury and damage from such equipment.

Any other requirements set forth in Divisions 11, 12, 13, 14 and 15 of the Vehicle Code which County, pursuant to the authority contained in Vehicle Code Section 591, will require compliance with, will be set forth in the special provisions.

### **Trench Safety**

Attention is directed to the provisions of Section 6705 of the Labor Code of the State of California.

Excavation for any trench 5 feet or more in depth shall not begin until the Contractor has submitted to County the Contractor's detailed plan for worker protection from the hazards of caving ground during the excavation of such trench. Such plan shall be submitted at least 5 days before the Contractor intends to begin excavation for the trench and shall show the details of the design of shoring, bracing, sloping, or other provisions to be made

for worker protection during such excavation. The plan shall not use shoring, sloping or a protective system less effective than that required by the Construction Safety Orders of the Division of Industrial Safety and if such plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared and signed by an engineer who is registered as a Civil or Structural Engineer in the State of California.

In addition, the Contractor shall obtain, pay for, and comply with all provisions of the permit required by Section 6500 of the California Occupational Safety and Health Act of 1973.

### **Notice Prior to Trenching**

Where trenching is required, Contractor shall, pursuant to Public Contracts Code Section 7104, promptly, and before the following conditions are disturbed, notify County, in writing of any:

- (1) Material that contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that 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 from those indicated.
- (3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract.

Upon receipt of such notice, County shall, as required by Public Contracts Code Section 7104, promptly investigate the conditions. If County finds the conditions do materially so differ, or do involve hazardous waste, and would require a decrease or increase in Contractor's cost of, or time required for, performance of any part of the work, County shall issue a change order under the procedures described in this Contract. In the event that 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 the cost or time required for performance, Contractor will not be excused from the scheduled completion date but shall proceed with all work to be performed. Contractor shall retain its rights to file a claim as set forth herein.

### **Alcoholic Beverages**

Absolutely no alcoholic beverages shall be permitted on the job site.

### **Emergencies**

In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, Contractor, without special instruction or authorization from County, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give County prompt written notice as soon as possible thereafter. If County determines that a change in the contract documents is required because of the action taken in response to an emergency, a change order will be issued to document the consequences of the changes or variations.

### **Warranty and Guarantee**

Unless the plans and/or specifications require a longer period for any warranted item, Contractor warrants all of the work completed under this contract by Contractor for a period of one year from the date of final completion. Said warranty includes the guarantee that all work is completed in accordance with the contract documents and that the work is not defective in any way and is fit for its intended use. Work not conforming to the plans and specifications shall be considered defective. If within the warranty period any work is found to be defective, Contractor shall promptly, without cost to County and in accordance with County's written instruction, either correct such defective work or remove it from the site and replace it with non-defective work. If Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, County may have the defective work corrected or removed and replaced, and all direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) will be paid by Contractor. Nothing in this paragraph shall serve as a waiver of the statute of limitations for breach of contract or latent defects.

## **Environmental and Toxics Warranty**

Contractor warrants that no asbestos-containing materials, no PCB-containing fixtures or equipment or other toxic or hazardous materials or equipment other than what is contained in standard building materials were installed on this project without County's express written consent. Contractor further warrants that no asbestos-containing materials, PCB-containing fixtures or equipment or other toxic or hazardous materials were discovered during construction of this project which were not disclosed to County in writing.

Contractor also warrants that its operations during the project were not in violation of any applicable federal, state or local environmental law or regulation dealing with hazardous materials or toxic substances, and no notice from any governmental body has been given to Contractor claiming any such violation or calling attention to the need for any work, repairs, construction, or installation or in connection with the project in order to comply with such laws with which Contractor has not complied. If there are any such notices with which Contractor has complied, Contractor shall provide County with copies thereof.

This warranty shall survive completion of the project, and Contractor shall indemnify County for any breach thereof.

## **Access to Work**

County's representatives, testing agencies and governmental agencies with jurisdictional interests will have access to the work at reasonable times for their observation, inspecting and testing. Contractor shall provide proper and safe conditions for such access.

## **County May Stop the Work**

If Contractor fails to conform with the contract documents, if the work is defective, if the work is being carried out in an unsafe manner, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the work in such a way that the completed work will conform to the contract documents, County may order Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated; however, this right of County to stop the work shall not give rise to any duty on the part of County to exercise this right for the benefit of Contractor or any other party.

## **Alternative Methods of Construction**

Whenever the plans or specifications provide that more than one specified method of construction or more than one specified type of material or construction equipment may be used to perform portions of the work and leave the selection of the method of construction or the type of material or equipment to be used up to the Contractor, it is understood that County does not guarantee that every such method of construction or type of material or equipment can be used successfully throughout all or any part of any project. It shall be the Contractor's responsibility to select and use the alternative or alternatives which will satisfactorily perform the work under the conditions encountered. In the event some of the alternatives are not feasible or it is necessary to use more than one of the alternatives on any project, full compensation for any additional cost involved shall be considered as included in the contract price paid for the item of work involved and no additional compensation will be allowed therefor.

## **Correction or Removal of Defective Work**

If required by County, Contractor shall promptly, as directed, either correct all defective work, whether or not fabricated, installed or completed, or, if the work has been rejected by County, remove it from the site and replace it with non-defective work. Contractor shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) made thereby.

## **Acceptance of Defective Work**

If, instead of requiring correction or removal and replacement of defective work, County prefers to accept it, County may do so. Contractor shall bear all direct, indirect and consequential costs attributable to County's

evaluation of and determination to accept such defective work (such costs to include but not be limited to fees and charges of engineers, architects, attorneys and other professionals). If any such acceptance occurs prior to final payment, a change order will be issued incorporating the necessary revisions in the contract documents with respect to the work; and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, County may make a claim therefor as provided in this Contract. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to County. No acceptance of defective work shall occur without an express written acknowledgment by County that work described therein is defective and that County is electing to proceed under this clause. No acceptance of defective work may be inferred from any actions by County staff or its agents.

### **County May Correct Defective Work**

If Contractor fails within a reasonable time after written notice of County to proceed to correct and to correct defective work or to remove and replace rejected work as required by County in accordance with the above, or if Contractor fails to perform the work in accordance with the contract documents, or if Contractor fails to comply with any other provision of the contract documents, County may, after seven days' written notice to Contractor, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph County shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, County may exclude Contractor from all or part of the site, take possession of all or part of the work, and suspend Contractor's services related thereto, take possession of Contractor's tools, appliances, construction equipment and machinery at the site and incorporate in the work all materials and equipment stored at the site or for which County has paid Contractor but which are stored elsewhere. Contractor shall allow County, County's representatives, agents and employees such access to the site as may be necessary to enable County to exercise the rights and remedies under this paragraph. All direct, indirect and consequential costs of County in exercising such rights and remedies will be charged against Contractor, and a change order will be issued incorporating the necessary revisions in the contract documents with respect to the work; and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, County may make a claim therefor as provided in this Contract. Such direct, indirect and consequential costs will include but not be limited to fees and charges of engineers, architects, attorneys and other professionals, all court costs and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of Contractor's defective work. Contractor shall not be allowed an extension of the contract time because of any delay in performance of the work attributable to the exercise by County of County's rights and remedies hereunder.

### **Adjusting Progress Schedule**

Contractor shall submit to County for acceptance adjustments in the progress schedule to reflect the impact thereon of new developments; these will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the general requirements applicable thereto.

### **Substitute Method of Construction**

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the contract documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to County, if Contractor submits sufficient information to allow County to determine that the substitute proposed is equivalent to that indicated or required by the contract documents. The procedure for review by County will be similar to that provided in the paragraph regarding substitution of materials or equipment. No extension of time or extra compensation will be paid to the Contractor by virtue of County's accepting a substitute method of construction.

### **Suggestions to Contractor**

Any plan or method of work suggested by County to the Contractor but not specified or required, if adopted or followed by the Contractor in whole or in part, shall be used at the risk and responsibility of the Contractor; and County shall assume no responsibility therefor and in no way be held liable for any defects in the work which may result from or be caused by use of such plan or method of work. Acceptance by the Contractor of any plan or method of work or change suggested by County shall not relieve the Contractor from any other requirements or provisions of the contract.

## **Permits**

Unless otherwise provided for herein, Contractor shall obtain and pay for all construction permits and licenses necessary or incidental to the work. County shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the work, which are applicable at the time of opening of bids. County shall pay all charges of utility connections to the work.

## **Laws and Regulations**

Contractor shall give all notices and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable laws and regulations, County shall not be responsible for monitoring Contractor's compliance with any laws or regulations. If Contractor observes that the specifications or drawings are at variance with any laws or regulations, Contractor shall give County prompt written notice thereof, and any necessary changes will be authorized by one of the methods indicated herein. If Contractor performs any work knowing or having reason to know that it is contrary to such laws or regulations, and without such notice to County, Contractor shall bear all costs, damages, fines or penalties, arising therefrom.

## **Taxes**

Contractor shall pay all sales, consumer, use and other similar taxes required to be paid by Contractor in accordance with the laws and regulations of the place of the project which are applicable during the performance of the work.

## **Use of Premises**

Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the project site and land and areas identified in and permitted by the contract documents and other land and areas permitted by laws and regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the work. Should any claim be made against County by any such owner or occupant because of the performance of the work, Contractor shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim by arbitration or at law. Contractor shall, to the fullest extent permitted by laws and regulations, indemnify and hold County harmless from and against all claims, damages, losses and expenses (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any such other party against County to the extent based on a claim arising out of Contractor's performance of the work.

Fences which cross, abut, or are on easements shall at all times be maintained by the Contractor in a condition which provides the functional purpose of the fence. Temporary fencing of the construction area will be permitted and temporary fencing shall provide the same functional purpose as existing fencing. Unless otherwise indicated, all improvements within easements shall be restored to conditions that existed prior to the start of work.

Before final acceptance of the work the Contractor shall obtain a written statement of release from each property owner that granted an easement for the work. Release statement shall indicate the property owner's acceptance of the site conditions as restored by the Contractor. The County may waive said written releases where a property owner refuses to sign same but only upon making a determination that there is no work to be completed with respect to said property.

## **Site Clean-Up**

During the progress of the work, Contractor shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the work. At the completion of the work, Contractor shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy by County. Contractor shall restore to original condition all property not designated for alteration by the contract documents.

The Contractor is advised that the final cleanup of the project shall be done with meticulous care and that the County expects all ductwork, cubicles, cabinets, motor control centers, control panels, rooms, and enclosures to be thoroughly vacuum cleaned and dust-free prior to acceptance of the work.

### **Protection of Structures**

Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the work or adjacent property to stresses or pressures that will endanger it.

### **Restoration of Structures**

The Contractor shall remove such existing structures or monuments as may be necessary for the performance of the work and, if required, shall rebuild the structures or monuments thus removed in as good a condition as found. Contractor shall also repair all existing structures or monuments which may be damaged as a result of the work under this contract.

All curbs, gutters, driveways, sidewalks, and similar structures that are damaged by the installation of the work shall be reconstructed by the Contractor. Reconstruction shall be of the same kind of material with the same finish and in not less than the same dimensions as the original work. All concrete shall be as set forth in the specifications, or as required by County if not so specified. Repairs shall be made by removing and replacing the entire portions between joints or scores and not merely refinishing any damaged part. All work shall match the appearance of the existing improvements as nearly as possible.

All road and streets where the surface is removed, broken or damaged, or in which the ground has caved or settled due to work under this contract, shall be completely resurfaced and brought to the original grade and crown section unless otherwise indicated. Before resurfacing material is placed, edges of pavements shall be trimmed back far enough to provide clean, solid, vertical faces, and shall be free of any loose material. All cultivated areas, lawns, and other surface improvements which are damaged by actions of the Contractor shall be restored as nearly as possible to their original conditions.

### **Drainage**

Existing drainage facilities shall be maintained throughout the contract time to provide the flow capacities available before commencing work. Drainage conduits shall not be broken, removed, or otherwise interfered with, without permission of the responsible agency.

Where construction requires blocking the flow, flows shall be bypassed as necessary. Stream crossings, blockages, and bypassing shall be accomplished in such a manner as to avoid degradation of downstream water quality. Particular attention shall be given to the avoidance of siltation.

### **Environmental Control**

The Contractor shall not pollute the construction site or any drainage course or its tributary inlets with fuels, oils, bitumens, acids, insecticides, herbicides or other harmful materials. The Contractor shall comply with all applicable Federal, State, County and municipal laws concerning pollution of waterways. Contractor shall submit a plan for preventing such occurrences if required by County. Special measures shall be taken to prevent chemicals, fuels, oils, greases, bituminous materials, waste washings, herbicides and insecticides, from spilling and entering public waters.

Where the Contractor is required to connect or otherwise work around existing lines carrying sewage or process wastes, Contractor shall perform the work to prevent the spill of sewage and insure the delivery of sewage to the treatment plants. Where the Contractor chooses to provide temporary pumping of sewage, Contractor shall first have the pumping facilities approved by County and shall provide 100 percent standby equipment on 24-hour basis.

The Contractor shall provide the means for preventing or lessening all dust nuisances and damages. Such means shall consist of applying water, dust palliative, or both all in accordance with local ordinances and regulations or as directed by County.



## **Record Documents**

Contractor shall maintain in a safe place at the site one record copy of all drawings, plans, specifications, addenda, change orders, field orders and written interpretations and clarifications in good order and annotated to show all changes made during construction. These record documents together with all approved samples and a counterpart of all accepted shop drawings will be available to County for reference. Upon completion of the work, these record documents, samples, and shop drawings will be delivered to County.

## **As-Built Drawings**

The Contractor shall also maintain a neatly marked set of record drawings showing the final locations and layout of all mechanical, electrical, and instrument equipment; piping and conduit, structures, and other facilities. Drawings shall be kept current weekly, with all field instructions and change orders; mechanical, electrical, and instrumentation equipment accommodations; and construction adjustment. Drawings shall be subject to the inspection of the County at all times and progress payments may be withheld if drawings are not current. At the final inspection the Contractor shall submit to County all as-built drawings. Drawings shall be stamped "AS-BUILT", dated and signed by the Contractor. The work will not be formally accepted until as-built drawings are accepted by County.

## **Continuing the Work**

Contractor shall carry on the work and adhere to the progress schedule during all disputes or disagreements with County. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted specifically herein or as Contractor and County may otherwise agree in writing.

## **Indemnification**

To the fullest extent permitted by laws and regulations, Contractor shall indemnify, defend and hold harmless County and its consultants, agents and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court and arbitration costs) arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expenses (a) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (including the work itself) including the loss of use resulting therefrom and (b) is caused in whole or in part by any negligent act or omission of Contractor, any subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable. The Contractor's indemnification obligation shall apply whether or not the act giving rise to such claims, damages, losses and expenses is caused in part by a party indemnified hereunder or arises by or is imposed by law and regulations regardless of the negligence of any such party.

## **Statutory Limitations**

In any and all claims against County or any of its consultants, agents or employees by any employee of Contractor, any subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, the indemnification obligation above shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or any such subcontractor or other person or organization under workers' compensation acts, disability benefit acts or other employee benefit acts.

## **Related Work at Site**

County may perform other work related to the project at the site by County's own forces, have other work performed by utility companies or let other direct contracts therefor which shall contain conditions similar to these. If the fact that such other work is to be performed was not noted in the contract documents, written notice thereof will be given to Contractor prior to starting any such other work; and, if Contractor believes that such performance will involve additional expense to Contractor or requires additional time and the parties are unable to agree as to the extent thereof, Contractor may make a claim therefor as provided for herein. Any difference or conflict arising between the Contractor and any other Contractor employed by County, or between the Contractor and the workers of County with regard to their work, shall be submitted to County and the Contractor shall abide by County's decision in the matter. If the work of the Contractor is delayed because of any facts or

omissions of any other Contractor or of County, the Contractor shall on that account have no claim against County other than for an extension of time.

### **Access to Site**

Contractor shall afford each utility company or district and other contractor who is a party to such a direct contract (or County, if County is performing the additional work with County's employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate the work with theirs. Contractor shall do all cutting, fitting and patching of the work that may be required to make its several parts come together properly and integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of County and the others whose work will be affected. The duties and responsibilities of Contractor under this paragraph are for the benefit of such utility companies or districts and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between County and such utility companies or districts and other contractors.

### **Acceptance of Work by Others**

If any part of Contractor's work depends for proper execution or results upon the work of any such other contractor or utility company or district (or County), Contractor shall inspect and promptly report to County in writing any delays, defects or deficiencies in such work that render it unavailable or unsafe for such proper execution and results. Contractor's failure so to report will constitute an acceptance of the other work as fit and proper for integration with Contractor's work except for latent or nonapparent defects and deficiencies in the other work.

## **ARTICLE XIX: TESTS AND INSPECTIONS**

### **Tests and Inspections Required by Laws or Regulations**

If laws or regulations of any public body having jurisdiction require any work (or part thereof) to specifically be inspected, tested or approved, Contractor shall assume full responsibility therefor, pay all costs in connection therewith and furnish County the required certificates of inspection, testing, approval or compliance. Contractor shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with County's acceptance of a supplier of materials or equipment proposed to be incorporated in the work, or of materials or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the work. The cost of all inspections, tests and approvals in addition to the above which are required by the contract documents shall be paid by County (unless otherwise specified). Contractor must utilize materials and equipment which are available for inspection at the plant or at the point of distribution in California in the case of foreign materials or equipment.

### **Other Inspections and Tests**

All inspections, tests or acceptances other than those required by laws and regulations of any public body having jurisdiction shall be performed by organizations acceptable to County.

### **General Requirements**

All materials, equipment, installation, and workmanship included in this contract, if so required by County, shall be tested and inspected to prove compliance with the contract requirements. Installed leakage tests and other piping tests shall be as specified in the technical provisions of these specifications.

No tests specified herein shall be applied until the item to be tested has been inspected and approval given for the application of such test. Contractor shall give County timely notice of readiness of the work for all required inspections, tests or approvals.

Tests and inspections shall include:

1. The delivery acceptance test and inspections.
2. The installed tests and inspections of items as installed.

Tests and inspections, unless otherwise specified or accepted, shall be in accordance with the recognized standards of the industry.

The form of evidence of satisfactory fulfillment of delivery acceptance test and of installed test and inspection requirements shall be, at the discretion of County, either by tests and inspections carried out in County's presence or by certificates or reports of tests and inspections carried out by approved persons or organizations. The Contractor shall provide and use forms which include all test information and are acceptable in content to County.

### **Certificates of Compliance**

A Certificate of Compliance shall be furnished prior to the use of any materials for which the specifications or the special provisions require that such a certificate be furnished. In addition, when so authorized in the specifications or in the special provisions, the County may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials involved comply in all respects with the requirements of the specifications. A Certificate of Compliance shall be furnished with each lot of material delivered to the work and the lot so certified shall be clearly identified in the certificate.

All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that material is used on the basis of a Certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the work which conforms to the requirements of the plans and specifications and any such material not conforming to such requirements will be subject to rejection whether in place or not.

County reserves the right to refuse to permit the use of material on the basis of a Certificate of Compliance.

The form of the Certificate of Compliance and its disposition shall be as directed by County.

### **Delivery Acceptance Tests and Inspection**

The delivery acceptance tests and inspection shall be at the Contractor's expense for any materials or equipment specified herein and shall include the following:

1. Test of items during the process of manufacture and/or on completion of manufacture, comprising material tests, hydraulic pressure tests, electric tests, performance and operating tests and inspections in accordance with the relevant standards of the industry and more particularly as detailed in individual clauses of these specifications to satisfy County that the items tested and inspected comply with the requirements of this contract. Tests required, other than those specified, will be in accordance with the contract specifications.
2. Inspection of all items delivered at the site in order that County may be satisfied that such items are of the specified quality and workmanship and are in good order and condition at the time of delivery.

### **Installed Tests and Inspection**

All equipment shall be tested by the Contractor to the satisfaction of County before any facility is put into operation. Tests shall be as specified herein and shall be made to determine whether the equipment has been properly assembled, aligned, adjusted and connected. Any changes, adjustments or replacements required to make the equipment operate as specified shall be carried out by the Contractor as part of the work.

At least 30 days before the time allowed in the construction schedule for commencing testing and start up procedures, the Contractor shall submit to County, details of the procedures Contractor proposes to adopt for testing and start up of all mechanical and electrical equipment to be operated singly and together, excepting when such procedures have been covered in the specifications. Such tests shall be conducted using potable water where water is required for such testing. The water required for such tests shall be provided by the Contractor.

During the testing of equipment, the Contractor shall make available experienced factory trained representatives of the manufacturers of all the various pieces of equipment, or other qualified persons who shall instruct County's personnel in the operation and care thereof. Instruction shall include step-by-step troubleshooting procedures with all necessary test equipment. All manufacturer's instructions shall be provided in writing.

If, under test, any portion of the work shall fail to fulfill the contract requirements and is altered, renewed or replaced, tests on that portion when so altered, removed or replace, together with all other portions of the work as are affected thereby, shall, if so required by County, be repeated within reasonable time and in accordance with the specified conditions, and the Contractor shall pay to County all reasonable expenses incurred by County as a result of the carrying out of such tests.

Where, in the case of an otherwise satisfactory installed test, any doubt, dispute or difference should arise between County and the Contractor regarding the test results or methods or equipment using in the carrying out by the Contractor of such test, then County may order the test to be repeated. If the repeat test, using such modified methods or equipment as County may require, substantially confirms the previous test then costs in connection with the repeat test will be paid by County, otherwise the costs shall be borne by the Contractor. Where the results of any installed test fail to comply with the contract requirements for such test then such repeat tests as may be necessary to achieve the contract requirements shall be made by the Contractor at Contractor's own expense.

### **Quality Control**

County will perform testing for the following as the County deems necessary:

1. Soils compaction control
2. Cast-in-place concrete control
3. Aggregate base rock
4. Portland Cement concrete
5. Asphalt concrete
6. Other materials and work incorporated in project

The Contractor shall pay for testing of those samples which fail to meet acceptable standards.

The Contractor shall provide services of a qualified testing laboratory to perform testing for all other work including but not limited to:

1. Concrete mix design
2. Asphalt concrete mix design

The testing laboratory selected by the Contractor is subject to County's approval. The laboratory shall cooperate with Contractor and County and provide qualified personnel promptly on notice, perform specified inspections, sampling and testing of materials as needed to comply with specified standards, and ascertain compliance with requirements of contract documents.

### **Work Requiring Testing**

If any work (including the work of others) that is required by the Contract Documents to be inspected, tested or accepted is covered without written concurrence of County, it must, if requested by County, be uncovered for observation. Such uncovering shall be at Contractor's expense unless Contractor has given County timely notice of Contractor's intention to cover the same and County has not acted with reasonable promptness in response to such notice.

### **Contractor's Obligation**

Neither observations by County nor inspections, tests or approvals by others shall relieve Contractor from Contractor's obligations to perform the work in accordance with the contract documents.

### **Uncovering Work Covered Contrary to County's Request**

If any work is covered contrary to the written instructions of County or Code or contract requirements, it must, if requested by County, be uncovered for County's observation and replaced at Contractor's expense.

## **Uncovering Work for Inspection or Testing**

In addition to the provisions above regarding work requiring testing, if County considers it necessary or advisable that covered work be observed by County or inspected or tested by others, Contractor, at County's request, shall uncover, expose or otherwise make available for observation, inspection or testing as County may require, that portion of the work in question, furnishing all necessary labor, material and equipment. If it is found that such work is defective, Contractor shall bear all direct, indirect and consequential costs of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction (including but not limited to fees and charges of engineers, architects, attorneys and other professionals), and County shall be entitled to an appropriate decrease in the contract price, and, if the parties are unable to agree as to the amount thereof, may make a claim therefor as provided in this contract. If, however, such work is not found to be defective, Contractor shall be allowed an increase in the contract price or an extension of the contract time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction; and, if the parties are unable to agree as to the amount or extent thereof, Contractor may make a claim therefor as provided for in this contract.

## **ARTICLE XX: SUSPENSION OF WORK AND TERMINATION**

### **County May Suspend Work**

County may, at any time and without cause, suspend the work or any portion thereof for a period of not more than ninety days by notice in writing to Contractor. As soon as possible, County will fix the date on which work will be resumed. Contractor shall resume the work on the date so fixed. If Contractor believes that such suspension justifies an increase in the contract price or an extension of the contract time and County and Contractor are unable to agree to the amount or extent thereof, Contractor may make a claim therefor as provided herein.

### **County May Terminate**

Except as limited by law or regulation, County may terminate upon the occurrence of any one or more of the following events:

1. If Contractor commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereafter in effect, or if Contractor takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to the bankruptcy or insolvency;
2. If petition is filed against Contractor under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against Contractor under any other federal or state law in effect at the time relating to bankruptcy or insolvency;
3. If Contractor makes a general assignment for the benefit of creditors;
4. If a trustee, receiver, custodian or agent of Contractor is appointed under applicable law or under contract, whose appointment or authority to take charge of property of Contractor is for the purpose of enforcing a lien against such property or for the purpose of general administration of such property for the benefit of Contractor's creditors;
5. If Contractor admits in writing an inability to pay its debts generally as they become due;
6. If Contractor persistently fails to perform the work in accordance with the contract documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established herein as revised from time to time or fails to make prompt payment to subcontractors or for materials or labor or persistently disregards laws, ordinances or instructions of the County);
7. If Contractor disregards laws or regulations of any public body having jurisdiction;
8. If Contractor disregards the authority of County or its agents; or
9. If Contractor otherwise violates in any substantial way any provisions of the contract documents;

County may, after giving Contractor (and the surety, if there be one) seven days' written notice and to the extent permitted by laws and regulations, terminate the services of Contractor, exclude Contractor from the site and take possession of the work and of all Contractor's tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by Contractor (without liability to Contractor for

trespass or conversion), incorporate in the work all materials and equipment stored at the site or for which County has paid Contractor but which are stored elsewhere, and finish the work as County may deem expedient. In such case Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price exceeds the direct, indirect and consequential costs of completing the work (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court costs) such excess will be paid to Contractor. If such costs exceed such unpaid balance, Contractor shall pay the difference to County. Such costs incurred by County will be approved as to reasonableness by County and incorporated in a change order, but when exercising any rights or remedies under this paragraph County shall not be required to obtain the lowest price for the work performed. Where Contractor's services have been so terminated by County, the termination will not affect any rights or remedies of County against Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by County will not release Contractor from liability.

### **County May Abandon**

Upon written notice to Contractor County may, without cause and without prejudice to any other right or remedy, elect to abandon the work and terminate the agreement. Contractor shall stop work as specified in said notice, terminate all subcontracts, deliver all materials already paid for and secure the site. In such case, Contractor shall be paid for all work executed and any actual expense sustained. No lost profit for work not yet undertaken shall be due to Contractor.

### **Contractor May Stop Work or Terminate**

If, through no act or fault of Contractor, the work is suspended for a period of more than ninety days by County or under an order of court or other public authority, or County fails to act on any application for payment within thirty days after it is submitted, or County fails for thirty days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days' written notice to County, terminate the agreement and recover from County payment for all work executed and any expense sustained. In addition and in lieu of terminating the agreement, if County has failed to act on an application for payment or County has failed to make any payment as aforesaid, Contractor may upon seven days' written notice to County stop the work until payment of all amounts then due. The provisions of this paragraph shall not relieve Contractor of the obligations to carry on the work in accordance with the progress schedule and without delay during disputes and disagreements with County.

## **ARTICLE XXI COUNTY'S AGENT'S STATUS DURING CONSTRUCTION**

### **County's Representative**

County may appoint representatives during the construction period. The duties and responsibilities and the limitations of authority of such agents during construction are set forth herein and shall not be extended without written consent of County.

### **Agent's Authority**

County may delegate authority to an employee or agent, including an engineer or an architect, to determine the amount, quality, acceptability and fitness of the several kinds of work, material and equipment which are to be paid for under the contract; to decide for the County all questions relative to the true construction, meaning and intent of the contract documents; to decide all questions relative to the classification and measurements of quantities and materials and the fulfillment of this contract, and to reject or condemn all work or material which does not conform to the terms of this contract. The representative's decision in all matters is the decision of County and shall be final and binding on Contractor.

### **Replacement of Representative**

County reserves the right to terminate the employment of the representative at any time.

### **Visits to Site**

Where a representative represents County, said representative will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and to determine, in general, if the work is proceeding in accordance with the contract documents. However,

Contractor must supervise the work and cannot rely on said representative or County as they will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work. The representative's efforts will be directed toward providing for County a greater degree of confidence that the completed work will conform to the contract documents. On the basis of such visits and on-site observations, the representative will keep County informed of the progress and adequacy of the work.

### **Observation of Work**

If County and the representative agree, the representative will observe the performance of the work. The duties, responsibilities and limitations of authority of the representative in observing the work will be as provided herein. If County designates another agent to represent County at the site who is not the representative's agent or employee, the duties, responsibilities and limitations of authority of such other person will be as provided in supplementary conditions.

### **Clarifications and Interpretations**

The representative may be appointed to issue (with reasonable promptness) such written clarifications or interpretations of the requirements of the contract documents (in the form of drawings or otherwise) as the representative may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the contract documents. If Contractor believes that a written clarification or interpretation justifies an increase in the contract price or an extension of the contract time and the parties are unable to agree to the amount or extent thereof, Contractor may make a claim therefor as provided in the contract. Said claim shall be made to County unless a representative has been selected to provide such clarifications or interpretations.

### **Authorized Variations in Work**

If a representative is appointed, such representative may authorize minor variations in the work from the requirements of the contract documents which do not involve an adjustment in the contract price or the contract time and are consistent with the overall intent of the contract documents. These may be accomplished by a field order and will be binding on County, and also on Contractor who shall perform the work involved promptly. If Contractor believes that a field order justifies an increase in the contract price or an extension of the contract time and County and Contractor are unable to agree as to the amount or extent thereof, Contractor may make a claim therefor as provided in this Contract.

### **Rejecting Defective Work**

If a representative is appointed, such representative will have authority to disapprove or reject work which the representative believes to be defective, and will also have authority to require special inspection or testing of the work whether or not the work is fabricated, installed or completed. Any decision made by said representative in disapproving or rejecting work shall be binding on Contractor.

### **Determinations for Unit Prices**

If a representative is appointed, such representative will determine the actual quantities and classifications of unit price work performed by Contractor. The representative will review with the Contractor the representative's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an application for payment or otherwise). The representative's written decisions thereon will be final and binding upon Contractor.

### **Claims and Disputes**

For purposes of this paragraph, "claim" shall be defined as set forth in Public Contracts Code Section 20104(b)(2). Claims shall be presented in writing and include the documents necessary to substantiate the claim. Claims must be filed with the designated County representative no later than thirty (30) days after the occurrence of the event giving rise thereto or denial of the change order, whichever occurs last. The form of said claims shall be the same as is required by Government Code Sections 910 and 910.2.

If the claim is under \$50,000, County shall respond in writing to Contractor within 45 days of receipt of Contractor's claim or may request, in writing, within 30 days of receipt of the claim, any additional documentation

supporting the claim or relating to defenses or claims the County may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2, upon mutual agreement of the County and Contractor. The County's written response to the claim, as further documented, shall be submitted to Contractor within 15 days after receipt of the further documentation or within a period of time no greater than that taken by Contractor in producing the additional information, whichever is greater.

For claims over \$50,000 and less than or equal to \$375,000, County shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the County may have against Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to Public Contract Code Section 20104.2, upon mutual agreement of County and Contractor. The County's written response to the claim, as further documented, shall be submitted to Contractor within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by Contractor in producing the additional information or requested documentation, whichever is greater.

If Contractor disputes County's written response, or County fails to respond within the time prescribed above, Contractor may so notify County, in writing, either within 15 days of receipt of County's response or within 15 days of County's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer with such County representatives as the County Administrator or the Board of Supervisors directs for settlement of the issues in dispute. Upon such demand, County shall schedule a meet and confer conference within 30 days for settlement of the dispute.

Following the meet and confer conference, if the claim or any portion remains in dispute, Contractor may file a claim with the Board of Supervisors pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. Pursuant to authority granted by Government Code Section 930.2, all claims filed with the Board of Supervisors pursuant to the Government Code shall be filed within 90 days of the denial of the original claim by the County representative. The running of the period of time within which a claim under the Government Code must be filed shall be tolled by any period of time utilized by the meet and confer conference. Any lawsuit which Contractor intends to bring with respect to any claim filed pursuant to the Government Code which claim has been denied by County must be commenced not later than six months after the recording of the notice of completion or not later than six months after the date final payment is deposited in the mail or personally delivered, whichever date comes first. If a civil action is filed, the mediation provisions set forth in Public Contract Code Section 20104.4 shall apply unless waived by mutual stipulation of County and Contractor or unless County elects to resolve the dispute pursuant to Public Contract Code Section 10240 et seq.

For every claim that Contractor makes, it shall provide the following documentation upon request of County as a condition precedent to consideration of the claim: Contractor's bidding calculations forms, cost estimates, time sheets, trend reports, job cost analysis records, labor records, as-built documents, any other records used by Contractor in arriving at its bid price, and any other documents or records kept by Contractor during the course of construction. In the event that claims are made, Contractor agrees that County shall have the right to conduct a complete audit of the books and records of Contractor relating to this project and any books and records relating to overhead, profit or general office expenses charged to this project.

### **Representative's Decision**

Where a representative is appointed, the rendering of a decision by the representative with respect to any such claim, dispute or other matter (except any which have been waived by the making or acceptance of final payment) will be a condition precedent to any exercise by County or Contractor of such rights or remedies as either may otherwise have under the contract documents or by laws or regulations in respect of any such claim, dispute or other matter.

### **Limitations on Representative's Responsibilities**

Neither the County's representative's authority to act nor any decision made by the representative in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the representative or County to Contractor, any subcontractor, any supplier, or any other person or organization performing any of the work, or to any surety for any of them.



## **Construction Methods and Safety**

Notwithstanding any references to laws and regulations, rules, codes or standards in the contract documents, the representative and County will not be responsible for Contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, and the representative and County will not be responsible for Contractor's failure to perform or furnish the work in accordance with the contract documents.

## **Acts and Omissions of Contractor**

Neither the County nor its representatives will be responsible for the acts or omissions of Contractor or of any subcontractor, any supplier, or any other person or organization performing or furnishing any of the work.

## **ARTICLE XXII: PARTIAL COMPLETION**

### **Partial Completion (Completion of a Portion of the Work)**

Use by County of any finished part of the work, which has specifically been identified in the contract documents, or which County and Contractor agree constitutes a separately functioning process or facility that can be used by County without significant interference with Contractor's performance of the remainder of the work, may be accomplished prior to completion of all the work subject to the following:

1. County at any time may request Contractor in writing to permit County to use any such part of the work which County believes to be ready for its intended use and substantially complete. If Contractor agrees, Contractor will certify to County that said part of the work is substantially complete and request County to issue a certificate of substantial completion for that part of the work. Contractor at any time may notify County in writing that Contractor considers any such part of the work ready for its intended use and substantially complete and request County to issue a certificate of substantial completion for that part of the work. Within a reasonable time after either such request, County and Contractor shall make an inspection of that part of the work to determine its status of completion. If County does not consider that part of the work to be substantially complete, County will notify Contractor in writing giving the reasons therefor. If County considers that part of the work to be substantially complete, County will deliver to Contractor a written recommendation as to the division of responsibilities pending final payment between County and Contractor for the entire work with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties. Unless Contractor disagrees in writing and so informs County promptly, County's aforesaid recommendation will be binding on Contractor until final payment for the entire work.
2. County may at any time request Contractor in writing to permit County to take over operation of any such part of the work although it is not substantially complete. A copy of such request will be sent to Contractor and within a reasonable time thereafter County and Contractor shall make an inspection of that part of the work to determine its status of completion and will prepare a list of the items remaining to be completed or corrected thereon before final payment. If Contractor does not object in writing to County that such part of the work is not ready for separate operation by County, County will finalize the list of items to be completed or corrected and will deliver such list to Contractor together with a written recommendation as to the division of responsibilities pending final payment between County and Contractor with respect to security, operation, safety, maintenance, utilities, insurance, warranties and guarantees for that part of the work which will become binding upon County and Contractor at the time when County takes over such operation (unless they shall have otherwise agreed in writing). During such operation and prior to substantial completion of such part of the work, County shall allow Contractor reasonable access to complete or correct items on said list and to complete other related work.
3. No occupancy or separate operation of part of the work will be accomplished prior to the insurers who are then providing the property insurance having acknowledged notice thereof and in writing effecting the changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policies, but the property insurance shall not be canceled or lapse on account of any such partial use or occupancy. Each party shall be responsible for notifying its own insurer.

## **ARTICLE XXIII: ARBITRATION**

### **Arbitration**

Where the total of all claims filed by Contractor are under \$375,000, County shall have the option of electing arbitration pursuant to Public Contract Code Sections 10240, et seq. If County does so elect, the mediation provisions of Public Contract Code Section 20104.4 shall not apply pursuant to Public Contract Code Section 20104(a)(2). If County does not elect such arbitration pursuant to Public Contract Code Sections 10240 et seq., the provisions of Public Contract Code Section 20104.4 shall apply.

Where the total of all claims filed by Contractor are above \$375,000, the arbitration provisions of this contract are voluntary. Neither County nor Contractor shall be required to enter into mediation or arbitration for amounts above \$375,000. Written consent of both parties to mediate or arbitrate such claims shall be a prerequisite to such mediation or arbitration. If the parties agree to arbitrate claims above \$375,000, the provisions of Public Contract Code Sections 10240, et seq. shall be utilized.

### **Time to Request Arbitration**

No request for arbitration of any claim, dispute or other matter that is required to be referred to County initially for decision will be made until the earlier of (a) the date on which County has rendered a decision or (b) the tenth day after Contractor has presented its evidence to County if a written decision has not been rendered by County before that date. Unless otherwise required by law, no request for arbitration of any such claim, dispute or other matter will be made later than thirty days after the date on which County has rendered a written decision. Notice of the request for arbitration will be in writing to the other party.

## **ARTICLE XXIV: LABOR AND EMPLOYMENT**

### **Worker's Compensation Certification**

By my signature hereunder, as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this contract.

### **Prevailing Wage Rates**

In accordance with the provisions of Section 1770 and 1773 of the Labor Code, the County of Nevada has determined that prevailing wage rates are applicable to the work to be done. The Contractor shall post a copy of the wage rates on the job site.

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available from the California Department of Industrial Relations' Internet website at <http://www.wdol.gov> . These wage rates are not included in the proposal and contract for the project. Changes, if any, to the general prevailing wage rates will be available at the same location.

Pursuant to California Labor Code Section 1775, Contractor shall forfeit Fifty Dollars (\$50.00) for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for such work or craft, and said amounts shall be distributed pursuant to the requirements of said Section 1775. Any employee whose type of work is not covered by any of the classified wage rates shall be paid not less than the rate of wage listed for the classification which most nearly corresponds to the type of work to be performed.

### **Collective Bargaining Agreements**

Pursuant to California Labor Code Section 1773.8, Contractor shall pay travel and subsistence payments to all workers needed to execute the work as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Section 1773.8 of the Labor Code.

## **Payroll Records**

Contractor shall be responsible for keeping accurate payroll records as required by California Labor Code Section 1776. Contractor is aware that a penalty of twenty-five dollars (\$25.00) per day or portion thereof for each worker may be assessed for noncompliance with said section. Contractor shall forward to County a certified copy of each payroll record within ten days after close of each payroll period. Such certification shall include a statement that payroll is correct and complete and complies with prevailing wage requirements.

If by the 15th of the month, the Contractor has not submitted satisfactory payrolls for all work performed during the monthly period ending on or before the 1st of that month, County will retain an amount equal to 10 percent of the estimated value of the work performed during the month from the next monthly estimate, except that such retention shall not exceed \$10,000. Retentions for failure to submit satisfactory payrolls shall be additional to all other retentions provided for in the contract. The retention for failure to submit payrolls for any monthly period will be released for payment on the monthly estimate for partial payments next following the date that all the satisfactory payrolls for which the retention was made are submitted.

The Contractor and each subcontractor shall preserve their payroll records for a period of three years from the date of completion of the contract.

## **Limitations on Hours Worked**

Eight hours constitutes a day's work and workers shall be limited to working 8 hours during any one calendar day and 40 hours during any one calendar week. Contractor and all subcontractors shall keep an accurate record of hours worked by each worker for each calendar day and each calendar week which record shall be available for inspection during business hours. Contractor shall, pursuant to California Labor Code Section 1813, forfeit twenty-five dollars (\$25) for each day for each worker where such worker is required or permitted to work more than 8 hours in any one day and 40 hours in any one week in violation of the provisions of the Labor Code. No overtime shall be authorized unless prior written approval of County is obtained permitting such overtime. If such overtime work is authorized by County, Contractor shall compensate each worker required to work overtime at the rate of one and one-half (1-1/2) times the basic rate of pay. All costs for overtime inspection, except those occurring as a result of overtime and shift work established as a regular procedure, shall be paid by the Contractor. Overtime inspection shall include inspection required during holidays, Saturdays, Sundays, and any weekday between the hours of 5:00 p.m. and 7:00 a.m. Such costs will include but will not necessarily be limited to engineering, inspection, general supervision and other overhead expenses which are directly chargeable to the overtime work. All such charges shall be deducted by County from payments due the Contractor.

## **Equal Employment Opportunity and Nondiscrimination**

During the performance of this contract, the contractor agrees to abide by all provisions of Section 1735 of the California Labor Code, as amended, regarding nondiscrimination practices.

## **Employment of Apprentice Labor**

Reference is hereby made to Section 1777.5 of the Labor Code of the State of California, which regulations shall govern the employment of apprentices on the work.

## **Preference for Resident Labor**

In the employment of labor for doing the work, the Contractor shall give preference to qualified persons residing within the general area of the work.

## **Incompetent Workers**

If at any time any worker employed by Contractor or any of the subcontractors shall be declared by County to be incompetent or unfaithful in executing the work, the Contractor, on receiving written notice, shall forthwith initiate appropriate action to dismiss such person.

## **Labor Class Substitutions**

If Contractor substitutes a labor classification or provides a new classification which results in a reduction in the contract price, County's execution of a change order evidencing said reduction in price shall in no way be construed, either express or implied, as consent to the use of said labor classification in the performance of any work on the project.

## **ARTICLE XXV: ASSIGNMENT**

No assignment by a party hereto of any rights under or interests in the contract documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the contract documents.

## **ARTICLE XXVI: CONFLICT OF INTEREST RESTRICTIONS**

No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County who is in any legislative, executive, supervisory, or other similar function in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

## **ARTICLE XXVII: WAIVER OF RIGHTS**

No action or lack of action on the part of County at any time to exercise any right or remedy conferred upon it under this contract shall be deemed to be a waiver on the part of County of any of County's rights or remedies.

## **ARTICLE XXVIII: SUCCESSORS IN INTEREST**

County and Contractor each bind themselves, their partners, successors, assigns and legal representatives to the other party hereto, their partners, successors, assigns and legal representatives in respect to all covenants, agreements, and obligations contained in the contract documents.

## **ARTICLE XXIX: NOTICE**

### **Giving Notice**

Whenever any provision of the contract documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent registered or certified mail, postage prepaid, to the last business address known to the giver of the notice. The business addresses of Contractor given in the bid form and Contractor's office at the site of the work are hereby designated as the places to which all notices, letters, and other communication to Contractor will be delivered. However, County or Contractor may change their addresses at any time by an instrument in writing delivered to the other.

## **Joint Venture Contractor**

In the event the Contractor is a joint venture of two or more Contractors, all grants, covenants, provisos and claims, rights, powers, privileges and liabilities of the contract shall be construed and held to be several as well as joint; any notice, order, direction, request or other communication required to be or that may be given by County to the Contractor under this agreement shall be well and sufficiently given to all persons being the Contractor if given to any one or more of such persons; any notice, request or other communication given by

any one of such persons to County under this agreement shall be deemed to have been given by and shall bind all persons being the Contractor.

**ARTICLE XXX: VENUE AND JURISDICTION**

This contract shall be construed in accordance with the laws of the State of California and the parties agree that venue shall be in Nevada County, California.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date first written, above. One counterpart each has been delivered to County, Contractor, and the Sureties. All portions of the contract documents have been signed or identified by County and Contractor.

COUNTY OF NEVADA

ATTEST:

\_\_\_\_\_  
Clerk of the Board

By: \_\_\_\_\_  
Hank Weston  
Chairman, Board of Supervisors

CONTRACTOR

By: \_\_\_\_\_  
Licensed in accordance with an act providing for the registration  
of Contractors  
License Number: \_\_\_\_\_  
Fed. Tax ID No: \_\_\_\_\_  
Telephone No: \_\_\_\_\_