

CITY OF HEALDSBURG



NOTICE TO BIDDERS, PROPOSAL, CONTRACT

FOR

**CONSTRUCTION OF THE
MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES
PROJECT
PROJECT NUMBER ST013
CIP-20-025
CITY OF HEALDSBURG**



SCTCA
Sonoma County
Transportation and Climate
Authorities

BID OPENING DATE:

January 22nd, 2026 at 2:00PM

**CITY OF HEALDSBURG
ENGINEERING DEPARTMENT
401 Grove Street**

**HEALDSBURG, CALIFORNIA 95448
PHONE: (707) 431-3346**

NOTICE TO BIDDERS

NOTICE IS HEREBY GIVEN that sealed bids will be received by the City Engineer of the City of Healdsburg at the Administration/Clerks office located at City Hall, 401 Grove Street, Healdsburg, County of Sonoma, State of California, until the hour of **2:00 p.m., on the 22nd day of January, 2026** at which time they will be publicly opened and read aloud in the chambers of the City Council, 401 Grove Street, Healdsburg, California, for:

MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013)

Plans and specifications may be obtained by registering for the project plan holders list on the City website project [page](#). A pdf copy of the bid package will be made available at no cost to all registered plan holders. Any bidder that is not registered for the plan holders list prior to the bid opening date shall have their bid deemed non-responsive. For questions concerning registering for the plan holders list please contact contracts@healdsburg.gov or (707) 431-3160. More information can be found on the City website project page at: Healdsburg.gov/bids.

The Work in general consists of roadway pavement reconstruction and pedestrian and bicycle improvements along March Avenue between Healdsburg Avenue and University Street including installation of ADA compliant curb ramps with curblin bulb-outs at all intersections, Rectangular Rapid Flashing Beacons (RRFBs) and street lighting improvements at the Lupine Road and Prentice Drive intersections, upgraded signage and striping, the designation of no parking areas, and other such items of work as are required to complete the Project in accordance with this Contract, the Project Plans and Technical Specifications.

The engineer's estimate for this project is \$2,967,000

In accordance with California Public Contract Code Section 3400, bidders may propose equals of products listed in the technical specifications or project plans by manufacturer name, brand or model number, unless the technical specifications or plans specify that the product is necessary to match others in use. Complete information for products proposed as equals must be submitted to the City Clerk's Office for review at least seven (7) working days before the time specified for bid opening in accordance with the instructions to bidders contained in the bid package.

In accordance with California Public Contract Code Section 20170, all bids must be presented under sealed cover and include one of the following forms of bidder's security: cash, cashier's check made payable to the City, certified check made payable to the City, or a bidder's bond. The amount of bidder's security provided must equal at least ten (10) percent of the total of the bid price for the base bid and the additive or deductive items listed in this notice. The successful bidder must submit to the City complete, executed copies of all required documents within ten (10) working days of receiving written notice of award of the project. Bidder's security of any successful bidder that fails to do so will be forfeited to the City. Such required documents include, but are not limited to, a payment or labor and materials bond in an amount of at least 100 percent of the amount payable by the terms of the project contract and that satisfies the requirements of California Civil Code Section 9554, and a performance bond in an amount of at least 100 percent of the amount payable by the terms of the contract. All project bonds must be executed by an admitted surety insurer in accordance with applicable law and acceptable to the City.

Pursuant to the provisions of Section 1720 et seq. of the Labor Code of California, the Director of Industrial Relations for the State of California has ascertained the current general prevailing rate of wages for employer purposes, in Sonoma County, State of California. Not less than the general prevailing rate of per diem wages for work of a similar character in Sonoma County and not less than the general prevailing rate of per diem wages for holiday work fixed as provided in the California Labor Code must be paid to all workers engaged in performing the project.

In accordance with the California Labor Code Section 1773.2, copies of the applicable determinations of the Director are on file in the City of Healdsburg City Engineer's Office and may be reviewed upon request.

There is no pre-bid meeting scheduled for this project.

In accordance with California Public Contract Code Section 3300, a valid class **A** California contractor's license is required to bid on the project.

In accordance with California Public Contract Code Section 22300, except where prohibited by federal regulations or policies, the successful bidder may, on request and at its expense, substitute securities in lieu of amounts withheld by the City from progress payments to ensure performance under the contract in accordance with the contract documents.

The City of Healdsburg reserves the right to postpone the date and time for the opening of proposals at any time prior to the date and time announced in the advertisement in accordance with applicable law.

The City of Healdsburg reserves the right to reject any and all bids or to waive any defects or irregularity in bidding in accordance with applicable law. In accordance with California Public Contract Code Section 20103.8, if the City elects to award a contract for performance of the project, the contract will be awarded in accordance with California Public Contract Code Section 20162 and other applicable law to the responsible bidder submitting a responsive bid with the lowest total bid price for the base bid without consideration of the bid price for any additive or deductive items. All bids will remain valid for 90 days after the bid opening. Except as permitted by law and subject to all applicable remedies, including forfeiture of bidder's security, bidders may not withdraw their bid during the 90-day period after the bid opening.

By order of the City Council of the City of Healdsburg, Sonoma County, California.

PUBLISH: December 12, 2025, and December 17, 2025

/s/ Tyler Kettmann Date 12/9/25
Central Services Manager

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INSTRUCTIONS TO BIDDERS

1. DEFINITIONS

- 1.1 Bid forms. The bid forms are the forms listed in the Bid Forms Section in the bid package Table of Contents.
- 1.2 Bid package. A complete bid package consists of the following documents: Notice to Bidders, Instructions to Bidders, Bidder's Check List, Proposal and Schedule of Bid Prices, Bid Bond, Contractor License Information, List of Proposed Subcontractors, Workers Compensation Insurance Certification, Acknowledgement of Indemnity and Insurance Requirements Non-collusion Affidavit, Debarment Certification, Public Contract Code Section 10285.1, Public Contract Code Section 10162 Questionnaire, Public Contract Code Section 10232 Statement, Debarment and Suspension Certification, Bidder's Signature Page, Contract Check List, Contract, Performance Bond, Payment Bond, Maintenance Bond, Escrow for Security Deposit Contract, Part 1, General Provisions, Special Provisions (if applicable), the Project Plans and Technical Specifications.
- 1.3 Contract documents. All of the documents incorporated into the final Project contract as listed in the contract.
- 1.4 Project. The Project is the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) as described in the bid package.
- 1.5 Project Plans. The Project Plans are the primarily graphic detailed requirements concerning the Project contained in the bid package.
- 1.6 Technical Specifications. The Technical Specifications provide detailed requirements concerning the Project.

2. BIDDER'S REPRESENTATIONS

Each bidder by submitting a bid represents that:

- 2.1 The bidder has read and understands the bid package and the bid is in accordance with all of the requirements of the bid package and applicable law.
- 2.2 Neither the bidder nor any subcontractor included on the list of proposed subcontractors submitted with the bid are ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7.
- 2.3 The bidder understands that quantities of unit price items may vary from the estimates provided in the Technical Specifications.
- 2.4 Representatives of the bidder have visited the Project site and have familiarized themselves with the conditions under which the Project work is to be performed so as to ensure that the Project work may be performed for the amount bid.

- 2.5 The bidder has informed the City in writing no later than five (5) working days prior to the time specified for bid opening of any apparent conflicts, errors, or ambiguities contained in the bid package or between the contents of the bid package and the Project site.

3. PRE-BID COMMUNICATION AND INTERPRETATION OF THE BID PACKAGE

- 3.1 Any bidder that discovers any apparent conflicts, errors, or ambiguities contained in the bid package or between the contents of the bid package and the Project site, or that has questions or requires clarification concerning the bid package or its intent must inform the City in writing as soon as reasonably possible, but no later than five (5) working days before the date specified for bid opening. Such notice to the City must be sent to the address specified in the Notice to Bidders for questions concerning the bid package. Questions received less than five (5) working days before the time specified for opening bids may not be answered.
- 3.2 Any interpretation, correction or change of the bid package prior to bid opening will be made by addendum signed by an authorized representative of the City and transmitted to all bid package recipients. No other interpretation or information concerning the bid package issued prior to the date specified for opening bids will be binding. All addenda signed by an authorized representative of the City and issued prior to the time and date specified for opening bids will form a part of the contract documents and must be acknowledged on the bid forms. Any changes, exceptions or conditions concerning the Project and/or the bid package submitted by any bidder as part of a bid may render that bid non-responsive.

4. PRE-BID ACCESS TO THE PROJECT SITE

- 4.1 Prior to submitting a bid, it will be the sole responsibility of each bidder to conduct any additional examination, investigation, exploration, test, study or other inquiry and to obtain any additional information pertaining to the physical conditions (including surface, subsurface, and underground utilities) at or near the Project site that may affect the cost, progress, or performance of the Project, and that the bidder deems are necessary to prepare its bid for performance of the Project in accordance with the bid package and contract documents. Bidders seeking any such additional examination or other inquiries or information concerning the Project will do so at the bidder's sole expense.
- 4.2 Bidders seeking to conduct any additional examination or other inquiry at the Project site must request site access from the City at least two (2) working days in advance. The location of any excavation, boring or other invasive testing will be subject to approval on behalf of the City and any other agencies with jurisdiction over such testing. Bidders may not conduct tests at the Project site prior to obtaining City approval. The City may require bidders to execute an access agreement prior to approving testing at the Project site. Once approved testing is complete, Bidders must fill all trenches or holes, restore all pavement to match existing structural section, and otherwise clean up and restore the test site to its pre-test condition.

5. BIDDING PROCEDURE

- 5.1 Bids must be delivered to the City of Healdsburg, 401 Grove Street, Healdsburg, California 95448, no later than the time and date specified in the Notice to Bidders. Bids will be opened and read publicly at that time. Bids that are submitted late according to the official time kept by the City Clerk or a designee will be returned unopened. Telephones for use by bidders are not available at the City offices.
- 5.2 In accordance with California Public Contract Code Section 20170, bids must be presented under sealed cover. Bids must be submitted using the bid forms furnished with the bid package. Bids must include all documents listed in the Bidder's Check List completed in accordance with the bid package. Bids must bear the bidder's legal name and be signed by a representative authorized to bind the bidder. Bids must be typed or written in ink. Corrections may be made if initialed by the individual signing the bid. No oral or telegraphic modifications of bids, including facsimile modifications, will be considered. Bids that are incomplete or that are not presented on the bid forms furnished with the bid package may be deemed non-responsive.
- 5.3 Each bid must give the full business address of the bidder. Bids of partnerships must furnish the full name of all partners and must be signed in the partnership name by one of the members of the partnership, or by an authorized representative, followed by the printed name and title of the person signing. Bids of corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation and by the signature and designation of the president, secretary or other person authorized to bind the corporation. The name of each person signing must also be typed or printed below the signature. Upon request of the City, bidders will furnish satisfactory evidence of the authority of the person signing the bid. Bids of joint ventures must include a certified copy of the legal agreement constituting the joint venture.
- 5.4 No person, firm, corporation, partnership or legal joint venture may submit more than one bid for the Project. However, a person, firm, corporation, partnership or legal joint venture that has submitted a subcontract proposal to a bidder, or that has quoted prices on materials to a bidder may submit a subcontract proposal, quote prices to other bidders and submit its own bid.
- 5.5 In accordance with California Public Contract Code Section 20170, all bids must include one of the forms of bidder's security specified in the Notice to Bidders in an amount of at least ten (10) per cent of the total of the bid prices for the base bid and those additive or deductive items specifically identified in the Notice to Bidders for the purpose of determining the lowest price bid. Bidders that elect to provide bidder's security in the form of a bid bond must execute a bid bond using the form provided in the bid forms. The bidder's security is tendered as a guarantee that the successful bidder, if issued a notice of award concerning the Project contract, will execute and submit to the City all required bonds, certificates of insurance, completed contract forms and other documents listed in the Contract Check List and enter into a contract with the City within ten (10) working days of receipt of the notice of award. The bidder's security of any successful bidder that fails to do so will be forfeited to the City. All bidders' security not forfeited to the City will be returned once a successful bidder provides all required documents and enters a contract with the City in

accordance with all applicable bid package requirements. Forfeiture of the bidder's security to the City will not waive or otherwise limit any other remedy available to the City under applicable law.

- 5.6 In accordance with California Business and Professions Code Section 7028.15, Public Contract Code Section 20103.5, and as specified in the Notice to Bidders, all Project work must be performed by properly licensed contractors and subcontractors with active licenses in good standing as of the date and time specified for bid opening, or, if the Project involves federal funds, no later than the time the Project contract is awarded. Bidders must verify their Contractor's License number and license expiration date in the proposal under penalty of perjury. Bids that do not satisfy applicable licensing requirements will be considered non-responsive and rejected and may subject the bidder to criminal and/or civil penalties.
- 5.7 Pursuant to Labor Code Section 1771.1(a), 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 Part 7, Chapter 1 of the Labor Code., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Labor Code Section 1725.5 at the time the contact is awarded.
- 5.8 If the bid forms include a bidder's questionnaire, all bids must include a completed bidder's questionnaire on the forms provided. By submitting a bid, bidders authorize City representatives to verify any and all information provided on the bidder's questionnaire and agree to indemnify, defend and hold harmless the City and its officials, officers, employees, agents and volunteers to the full extent permitted by law from and against any claims, liability or causes of action, including, without limitation, legal fees and costs, arising out of verification of the information provided on the bidder's questionnaire, and/or arising out of use of information provided in the bidder's questionnaire to determine, in accordance with applicable law, the qualification of the bidder to perform the Project.
- 5.9 Bids may be withdrawn prior to the time set for bid opening by a written request signed by an authorized representative of the bidder filed with the City Clerk. The bid security submitted with bids so withdrawn will be returned to the bidder. Bidders that have withdrawn their bid in accordance with this provision may submit a new bid prior to the time set for bid opening in accordance with all applicable bid package requirements. Bids may not be withdrawn during the ninety day period after the time set for bid opening except as permitted by law pursuant to California Public Contract Code Section 5100 and following. Any other bid withdrawal will result in forfeiture of the bidder's bid security to the City.

6. BID PROTESTS

- 6.1 Any protest of the proposed Project award must be submitted in writing to the City no later than 5:00 PM on the third business day following the date of the bid opening. All bids will be available for inspection by the next business day after the bid opening. All bidders have equal access to the bids. The company

protesting the bid will be asked to contact the City Clerk, of the City Manager's Office, and review the bids onsite at City Hall, 401 Grove Street, Healdsburg CA 95448. The bid protest must follow the requirements listed below:

- 6.2 The protest must contain a complete statement of the basis for the protest.
- 6.3 The protest must state the facts and refer to the specific portion of the document or the specific statute that forms the basis for the protest. The protest must include the name, address, and telephone number of the person representing the protesting party.
- 6.4 The party filing the protest must concurrently transmit a copy of the protest to the proposed awardee.
- 6.5 The party filing the protest must have actually submitted a bid for the Project. A subcontractor of a party filing a bid for the Project may not submit a bid protest. A party may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.
- 6.6 The procedure and time limits set forth in these Instructions to Bidders are mandatory and are the bidders' sole and exclusive remedy in the event of a bid protest. Any bidder's failure to fully comply with these procedures will constitute a waiver of any right to further pursue a bid protest, including filing of a challenge of the award pursuant to the California Public Contract Code, filing of a claim pursuant to the California Government Code, or filing of any other legal proceedings.
- 6.7 The City will review all timely protests prior to award of the Project. The City will not be required to hold an administrative hearing to consider any protests, but may do so at its option. At the time of the City Council's consideration of the Project award, the City Council will also consider the merits of any timely protests. The City Council may either reject the protest and award to the lowest responsible bidder or accept the protest and award the bid to the next lowest responsible bidder. Nothing in this section will be construed as a waiver of the City Council's right to reject all bids.

7. AWARD

- 7.1 In accordance with applicable law, the City reserves the right to reject any or all bids and to waive any informality in any bid. The City reserves the right to accept any portion of any bid, unless the bid package expressly provides that the award will be made as a whole. If the City elects to award a contract for performance of the Project, the contract will be awarded in accordance with California Public Contract Code Section 20162 and other applicable law to the responsible bidder submitting a responsive bid with the lowest total bid price for the base bid and the additive or deductive alternate items listed in the Notice to Bidders. In accordance with the contract documents and applicable law, the City may add or deduct items of work from the Project after the lowest responsible bidder is determined.
- 7.2 The successful bidder must submit to the City complete, executed copies of all documents specified in the Contract Checklist within ten (10) working days of

receiving written notice of award of the Project. Bidder's security of any successful bidder that fails to do so will be forfeited to the City.

- 7.3 The successful bidder and any subcontractors and others engaged in performance of the Project must have valid local business license(s), as applicable, before commencing work on the Project.
- 7.4 Upon verifying that the successful bidder has provided complete, executed copies of all documents specified in the Contract Checklist an authorized City representative will execute the Project contract, and the City will issue to the successful bidder a notice to proceed specifying the Project commencement date. The number of days within which the Project must be complete begins to run on the Project commencement date.

8. PRICING

- 8.1 If an inconsistency exists between the amount listed for a unit price in a bid and the total listed for that bid item (e.g., if the total listed for a bid item does not equal the unit price listed in the bid multiplied by the quantity listed), subject to applicable law, the unit price will be deemed to accurately reflect the bidder's intent concerning the bid item and the intended total for the bid item will be deemed to be the unit price as listed in the bid multiplied by the quantity listed.
- 8.2 If the Project bid price is a lump sum total made up of smaller individual bid item prices and an inconsistency exists between the lump sum total bid price and any individual bid item price, subject to applicable law, the individual bid item prices as listed in the bid will be deemed to accurately reflect the bidder's intended bid for the Project and the intended lump sum total bid for the Project will be deemed to be the sum of the individual bid item prices as listed in the bid, even if that sum is different from the amount actually listed as the lump sum total bid for the Project.
- 8.3 Any federal, state, or local tax payable on articles to be furnished for the Project will be included in the lump sum total bid price and paid by the Contractor under the contract. The City is exempt from federal excise tax and will provide a certificate of exemption to the successful bidder upon request.

9. QUANTITIES

- 9.1 Quantities, including but not limited to, material or labor quantities, that are provided in the bid package concerning the Project are estimates only and are provided solely as a general indication of the Project scope. The City does not warrant that such quantity estimates provided in the bid package represent the actual quantities required to perform the Project in accordance with the contract documents. Such quantity estimates do not bind the City, and bidders should not rely on them in preparing their bids. Each bidder is solely responsible for determining the quantities on which to base their bids in light of information contained in the bid package, bidder investigation and analysis of the Project and the Project site, and any other analysis or expertise of the bidder concerning the Project.
- 9.2 The City may amend, decrease or increase the Project work in accordance with the bid package and the contract documents. If the City amends, decreases or

increases the Project work prior to award of the Project each bidder will be solely responsible for determining the revised quantities, if any, on which to base their bid in light of information contained in the bid package and any amendments or addenda to the bid package, bidder investigation and analysis of the Project as amended, decreased or increased, the Project site, and any other analysis or expertise of the bidder concerning the Project.

10. SUBSTITUTION OF "OR EQUAL" ITEMS

- 10.1 In accordance with California Public Contract Code Section 3400, where the Technical Specifications or Project Plans list products by manufacturer's name, brand or model number such information indicates the quality and utility of the items desired and does not restrict bidders to that manufacturer's name, brand or model number, unless the Technical Specifications or Project Plans specify that the listed product is necessary to match others in use on a particular public improvement either completed or in the course of completion. Except where the Technical Specifications indicate that a particular brand product is necessary to match others in use, when a manufacturer's name, brand or model number is listed, it will be construed to be followed by the words "or equal" whether or not those words in fact follow the manufacturer's name, brand name or model number listed in the Technical Specifications or Project Plans. Unless the Technical Specifications or Project Plans indicate that a particular brand product is necessary to match others in use, bidders may propose equals of products listed by manufacturer name, brand name or model number.
- 10.2 Complete information for products proposed as equals must be submitted to the City for review at least seven (7) working days before the time specified for opening bids. To be considered, proposals concerning products proposed as equals must include sufficient information to permit the City to determine whether the products proposed as equals will satisfy the same performance requirements as products listed by manufacturer name, brand or model number. Such performance requirements may include, but are not limited to, size, strength, function, appearance, ease of maintenance and repair, and useful life requirements. Proposals concerning products proposed as equals that are submitted less than seven (7) days before the time specified for opening bids will not be considered. Failure to bid products specified by manufacturer name, brand name or model number where the Technical Specifications or Project Plans specify that a particular product is necessary to match others in use, or where no proposal concerning products proposed as equals has been submitted in accordance with this provision may render a bid non-responsive.

11. SUBCONTRACTING

- 11.1 Bids must be in accordance with the requirements of the Subletting and Subcontracting Fair Practices, Act, California Public Contract Code Section 4100 and following. Bids must include a completed list of proposed subcontractors on the form included in the bid package. In accordance with California Public Contract Code Section 4104, completed lists of proposed subcontractors must include the name, business location, the portion (type or trade), and dollar amount of the Project work to be subcontracted for each subcontractor that will perform a portion of the Project work (including special fabrication and installation of a portion of the work) valued in excess of one half of one percent of the total Project bid price. If the Project work includes construction of streets or highways,

the completed list of proposed subcontractors must include the subcontractor name, business location, type of work and dollar amount to be subcontracted for each subcontractor that will perform a portion of the Project work (including special fabrication and installation of a portion of the work) valued in excess of one half of one percent of the total Project bid price, or ten thousand dollars (\$10,000), whichever is greater.

- 11.2 In accordance with California Public Contract Code Section 4106, for any portion of the Project work with a value of more than one half of one percent of the total Project bid price for which no subcontractor is listed, or for which more than one subcontractor is listed, bidders certify by submitting their bids that they are qualified to perform that portion of the Project work and that they will perform that portion of the Project work with their own forces. Bidders may not substitute another subcontractor for a subcontractor listed in their bid except as permitted by the City in accordance with Section 4107 and following of the California Public Contract Code.
- 11.3 The Contractor must perform with his or her own organization a value of work amounting to not less than 50% of the contract amount in accordance with Section 8-1.06 of the Contract.
- 11.4 Subcontractors must meet all applicable indemnification and insurance requirements as detailed in the Acknowledgement of Indemnity and Insurance Requirement.

12. ASSIGNMENT

Bidders may not assign, sublet, sell, transfer, or otherwise dispose of their bid or any right, title or interest in their bid, or their obligations under their bid, without the written consent of an authorized representative of the City. Any purported assignment, subletting, sale, transfer or other disposition of a bid or any interest in a bid, or of any obligations under a bid without such written consent will be void and of no effect.

13. BONDS

- 13.1 The successful bidder must submit to the City a performance bond within ten working days of receiving written notice of award. If the Project involves expenditures in excess of twenty five thousand dollars (\$25,000), the successful bidder must submit to the City a payment or labor and materials bond within 10 days of the date of mailing of the notice of award. Prior to issuance of the final Project payment, the successful bidder must submit a warranty or maintenance bond. All bonds must be executed by corporate sureties who are admitted surety insurers in the State of California in accordance with applicable law and acceptable to the City. Individual sureties will not be accepted. All Project bonds must be executed using the forms provided in the bid package.
- 13.2 In accordance with California Civil Code Section 9554, the payment or labor and materials bond must be in the amount of one hundred percent of the total amount payable by the terms of the Project contract and guarantee payment to persons listed in California Civil Code Section 9100(a) for work performed and for charges for materials, supplies, and equipment provided under the Project contract (including amounts due under or subject to the Unemployment Insurance Code) in accordance with the requirements of California Civil Code Section 9554.

- 13.3 The performance bond must be in the amount of one hundred percent of the amount payable by the terms of the Project contract to guarantee the faithful performance of the Project work.
- 13.4 The warranty or maintenance bond must be in the amount of ten percent of the final Project contract amount and guaranty the Project work against defects in materials, equipment, workmanship, or needed repair for one year from the City's acceptance of the Project work. A warranty or maintenance bond that meets these requirements must be submitted to the City prior to issuance of final Project payment.

14. LABOR LAWS

- 14.1 Bidders must comply with applicable provisions of the California Labor Code.
- 14.2 In accordance with California Labor Code Section 1861, bids must include a workers compensation insurance certification on the form included in the bid package.
- 14.3 In accordance with California Labor Code Section 1771, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Project is to be performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in the California Labor Code must be paid to all workers engaged in performing the Project.
- 14.4 In accordance with California Labor Code Part 7, Chapter 1m Article 2, Sections 1770, 1773, and 1173.2 and following, the Director of Industrial Relations has determined the general prevailing wage per diem rates for work in the locality in which the Project is to be performed. In accordance with California Labor Code Section 1773, the City has obtained the general prevailing rate of per diem wages and the general rate for holiday and overtime work in the locality in which the Project is to be performed for each craft, classification or type of worker needed to perform the Project. In accordance with California Labor Code Section 1773.2, copies of the prevailing rate of per diem wages are on file at the City offices and will be made available on request. The Contractor can also download this information from the website: <http://www.dir.ca.gov/dlsr/PWD/>.
- 14.5 In accordance with California Labor Code Section 1777.1, contractors and subcontractors that are found guilty of willfully violating Chapter 1 of Part 7 of Division 2 of the Labor Code (except for Section 1777.5), or that are found guilty of such violations with intent to defraud, and entities in which such contractors or subcontractors have any interest, may be ineligible to bid on, be awarded, or perform Project work as a subcontractor.
- 14.6 Pursuant to, Labor Code Section 1771.1(a), 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 Part 7, Chapter 1 of the Labor Code, unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of

the Business and Professions Code or Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Labor Code Section 1725.5 at the time the contract is awarded.

BIDDER'S CHECK LIST

Did You:

- Submit equal product proposals, if any, in accordance with the instructions to bidders included in the bid package at least 7 days before the time specified for bid opening?
- Include with your bid properly completed, accurate copies of the following documents in the following order using the forms included in the bid package:
 - Bidder's check list
 - Proposal and Schedule of Bid Prices that state the bid as intended
 - Copies of each addendum issued signed and dated on behalf of the bidder
 - Executed bid bond
 - Contractor license information
 - List of subcontractors
 - Signed Workers compensation insurance certification
 - Signed Debarment certifications
 - Signed Acknowledgment of Indemnity and Insurance Requirements
 - Signed non-collusion affidavit
 - Bidder's questionnaire, if any
 - Public Contract Code Section 10285.1 Statement
 - Public Contract Code Section 10162 Questionnaire
 - Public Contract Code Section 10232 Statement
 - Executed bidder's signature page
- Arrange to have the sealed bid delivered to the City of Healdsburg offices at 401 Grove Street, Healdsburg, California, 95448 on or before 2 p.m. on January 22nd, 2026

PROPOSAL

For: Construction of MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013)

For the City of Healdsburg, Sonoma County, California.

TO THE HONORABLE CITY COUNCIL
OF THE CITY OF HEALDSBURG

The undersigned, as bidder, declares that he has carefully examined the work, the annexed proposed form of contract, and agrees that if this Proposal is accepted that he will contract with the City of Healdsburg, under the form of contract annexed of hereto, to provide all the necessary tools, apparatus, and other means of accomplishing the work as specified in the contract in the manner and time herein prescribed, and in accordance with the requirements of the Engineer as therein set forth, and he will take in full payment therefore the following prices for the work to be done completely performed to the satisfaction of the City of Healdsburg, to-wit:

Base Bid

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
1	Mobilization and Demobilization	1	LS		
2	Project Identification Sign	2	EA		
3	Utility Clearances (Potholing)	1	LS		
4	Vehicular and Traffic Control	1	LS		
5	Roadway Excavation (F)	3,110	CY		
6	Subgrade Stabilization (Dig outs)	670	SY		
7	Soil Stabilization Fabric	13,425	SY		
8	Asphalt Concrete Surface	2,290	TON		
9	Asphalt Concrete Base	5,330	TON		
10	0.25' Thick Pavement Mill	685	SY		
11	Remove & Dispose Pole	13	EA		

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
12	Relocate Signs to New Pole	11	EA		
13	Furnish & Install New Pole	18	EA		
14	Furnish & Install New Sign	26	EA		
15	Thermoplastic Traffic Stripe (6" White)	3,732	LF		
16	Thermoplastic Traffic Stripe (8" White)	135	LF		
17	Thermoplastic Traffic Stripe (12" White)	792	LF		
18	Thermoplastic Traffic Stripe (Detail 39A)	320	LF		
19	Thermoplastic Traffic Stripe (Detail 22)	2,282	LF		
20	Thermoplastic Traffic Stripe Bicycle Buffer (Parking Permitted)	3,362	LF		
21	Thermoplastic Traffic Stripe Bicycle Buffer (No Parking)	873	LF		
22	Thermoplastic Continental Crosswalk Stripe	70	LF		
23	Thermoplastic Pavement Marking (Bike Lane Symbol with Person & Arrow)	158	SF		
24	Thermoplastic Pavement Marking (Words)	427	SF		
25	Thermoplastic Pavement Markings (Type III L Arrow)	15	SF		
26	Thermoplastic Pavement Markings (Yield Triangles)	72	SF		
27	Green Preformed Thermoplastic Bike Lane Marking	812	SF		
28	Red Painted Curb	971	LF		
29	Fire Hydrant Blue Markers	6	EA		
30	Adjust Existing Valves Box or Monument Box to Grade	23	EA		
31	Adjust Existing Manhole Frame and Cover to Grade	6	EA		
32	Curb & Gutter	1,128	LF		

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
33	Integral Curb	26	LF		
34	Curb Ramp	1,740	SF		
35	Sidewalk	4,306	SF		
36	Pavers	1,368	SF		
37	Driveway Apron	138	SF		
38	Private Driveway	184	SF		
39	Storm Drain Curb Inlet	2	EA		
40	Remove & Replace Curb Inlet Top	6	EA		
41	48" Storm Drain Manhole	2	EA		
42	18" Storm Drain - RCP	49	LF		
43	Remove and Dispose of Existing Fire Hydrant & Lateral	3	EA		
44	Replace 1" Water Service (Trenchless Method)	24	EA		
45	Additional Cost to Open-Cut Replace 1" Water Service	10	EA		
46	Replace 2" Water Service & Multi Service Manifold	3	EA		
47	Fire Hydrant and Lateral Assembly	3	EA		
48	4" Utility Chase	26	EA		
49	Water Pollution Control	1	LS		
50	SWPPP Preparation	1	LS		
51	Stormwater Compliance	1	LS		
52	Trench Bracing and Shoring	1	LS		
53	Remove and Replace City Monument	5	EA		

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
54	Street Light, Pole & Foundation	4	EA		
55	Rapid Rectangular Flashing Beacon (RRFB) System at March & Lupine	1	LS		
56	Rapid Rectangular Flashing Beacon (RRFB) System at March & Prentice	1	LS		

Total Base Bid \$ _____

Written in words _____

The undersigned further agrees to deliver and to complete the same within **150 working days**, from the date of issuance, by the Engineer, of instructions to proceed with the work, and within 10 days of the date of mailing of the notice of award, to enter into and execute and provide to the City the necessary contract with the necessary bonds and other required documents, and in case of default in executing the necessary contract within the time fixed by the Instructions to Bidders, the bidder's security accompanying this bid will become the property of and be forfeited to the City of Healdsburg.

Prime Contractor _____

License # _____ Expiration Date: _____

DIR# _____

Name of person submitting bid: _____ Email: _____

The Contractor's license number and expiration date are herein stated under penalty of perjury.

By: _____ Title: _____

Dated this _____ day of _____, 20____

CORPORATION

(Corporate Seal)

Corporate signature

Address: _____

Phone No.: _____

President's signature _____

Secretary's signature _____

Corporation organized under the laws of the State of _____

PARTNERSHIP

Partnership Name: _____

Address: _____

Names of Co-Partners and Addresses: _____

SOLE PROPRIETORSHIP

Names of Individuals and Addresses: _____

NOTE: Sign in proper space above.

CITY OF HEALDSBURG
Healdsburg, California 95448

BID BOND

(NOTE: Bidders must use this form, use of any other bond form may render a bid non-responsive)

KNOW ALL MEN BY THESE PRESENTS:

That we, as PRINCIPAL, and _____, a (sole proprietorship/corporation/partnership/joint venture) organized and existing under and by virtue of the laws of the State of _____ and an admitted surety insurer authorized to do business in the State of California, as SURETY, are held and firmly bound unto the City of Healdsburg, as OBLIGEE, in a penal sum equal to ten-percent (10%) of the total bid price including the base bid and alternates specified in the proposal of the PRINCIPAL, to the OBLIGEE for the work described below, which penal sum is _____ (\$_____)

lawful money of the United States of America, for the payment of which sum well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the PRINCIPAL has submitted the accompanying proposal dated _____, _____ to the OBLIGEE, for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) (designated as the "Project") which proposal is hereby made a part hereof;

NOW THEREFORE, if the PRINCIPAL shall not withdraw said proposal within the ninety (90) day period following the opening of bids, and if the PRINCIPAL receives written notice concerning award of the Project to the PRINCIPAL and shall, within ten (10) calendar days of receiving such notice: enter into a written contract with the OBLIGEE in the form prescribed in the bid package issued by the OBLIGEE concerning the Project; and give insurance and bond with good and sufficient sureties guaranteeing the faithful performance and proper fulfillment of such contract and guaranteeing payment for labor and materials used for performance of the contract as required by law; and file with the OBLIGEE all required documents and do all other thing required in accordance with the bid package issued by the OBLIGEE concerning the Project for the contract between the PRINCIPAL and the OBLIGEE to become effective and for work to commence in accordance with the bid package issued by the OBLIGEE concerning the Project, or, in the event of withdrawal of the accompanying proposal within the ninety (90) day period following the opening of bids; or failure by the PRINCIPAL to enter into such contract with the OBLIGEE or to give the OBLIGEE such bonds or to file any other documents or to do any other things required in the bid package issued by the OBLIGEE for the Project, if the PRINCIPAL shall pay the OBLIGEE the difference between the total bid price in the accompanying proposal and the amount for which the OBLIGEE may procure the required performance, if the latter amount be in excess of the former, together with all costs incurred by the OBLIGEE in again attempting to let the Project, and if the said PRINCIPAL shall fully reimburse and save harmless the OBLIGEE from any damage sustained by the OBLIGEE through failure of the PRINCIPAL to enter into the written contract or to file the required performance or labor and material bonds, or to file any other required documents or to do any other things required for the contract between the PRINCIPAL and the OBLIGEE to become effective and the work to commence in accordance with the bid package issued by the

OBLIGEE concerning the Project, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the bid or contract documents for the Project, or to the specifications included in the same, or to the work to be performed thereunder, or to the notice to bidders, or to any other documents concerning the Project, shall in anywise affect SURETY's obligation under this bond, and SURETY hereby waives notice of any such change, extension of time, alteration or addition to such bid or contract documents.

In the event suit is brought upon this bond by the OBLIGEE and judgment is recovered, the SURETY shall pay all costs incurred by the OBLIGEE in such suit, including a reasonable attorney's fee to be fixed by the Court.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this _____ day of _____, _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by their undersigned representatives, pursuant to authority of their governing bodies.

(Corporate Seal) PRINCIPAL _____
By _____

(Acknowledgement) Title _____
SURETY _____

(Corporate Seal)

By _____
(Attorney-in-fact)

(Acknowledgement) Title _____

(NOTE TO SURETY COMPANY: A certified copy of unrevoked resolution of authority for the attorney-in-fact must be submitted with and attached to the executed bid bond.)

CONTRACTOR LICENSE INFORMATION

The bidder acknowledges that the license required for performance of the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) is a Class A.

The bidder holds the following California Contractors License(s):

1. License No. _____, Class _____, Expiration Date _____
2. License No. _____, Class _____, Expiration Date _____
3. License No. _____, Class _____, Expiration Date _____
4. License No. _____, Class _____, Expiration Date _____
5. License No. _____, Class _____, Expiration Date _____
6. License No. _____, Class _____, Expiration Date _____
7. License No. _____, Class _____, Expiration Date _____
8. License No. _____, Class _____, Expiration Date _____
9. License No. _____, Class _____, Expiration Date _____
10. License No. _____, Class _____, Expiration Date _____

Bidder's Taxpayer Identification No. _____

Public Works Contractor DIR Registration # _____

LIST OF SUBCONTRACTORS

In accordance with the requirements of the Subletting and Subcontracting Fair Practices, Act, California Public Contract Code Section 4100 and following, listed below are the name, business location, and the portion (type or trade) of the Project work to be subcontracted to each subcontractor that will perform a portion of the Project work (including special fabrication and installation of a portion of the work) valued in excess of one half of one percent of the total bid price. If the Project work includes construction of streets or highways, listed below are the name, business location, and the portion (type or trade) of the Project work to be subcontracted to each subcontractor that will perform a portion of the Project work (including special fabrication and installation of a portion of the work) valued in excess of one half of one percent of the total Project bid price, or ten thousand dollars, whichever is greater. Also listed below are the proposed subcontract dollar amount and current California Contractor's License Number(s) for each proposed subcontractor. Bids that fail to include complete proposed subcontractor information in accordance with this form and Public Contract Code Section 4100 and following may be deemed non-responsive.

In accordance with California Public Contract Code Section 4106, for any portion of the Project work with a value of more than one half of one percent of the total bid price for which no subcontractor is listed, or for which more than one subcontractor is listed, the bidder certifies by submission of its bid that the bidder is qualified to perform that portion of the Project work and that the bidder will perform that portion of the Project work with its own forces. The penalties listed in California Public Contract Code Section 4111 will apply to any substitution of another subcontractor for a subcontractor listed below except as permitted by the City in accordance with Section 4107 and following of the California Public Contract Code.

The Contractor must perform with his or her own organization, a value of work amounting to not less than fifty percent (50%) of the contract amount, except that the bid amount for "Specialty Items" so designated in any Special Provisions if included may be eliminated from the contract amount and not considered as sub-contracted for the purposes of calculating the value of work to be performed by the Contractor. For the purposes of determining the value of work to be performed by the Contractor pursuant to this provision, materials, equipment, incidentals, etc., shall be considered to have been purchased by the contractor or subcontractor that is to install them. Where a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated cost of such portion of the subcontracted item, as determined from information submitted by the Contractor, subject to approval by the Engineer.

1. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
2. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____

3. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
4. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
5. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
6. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
7. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____
8. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____

9. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____

10. Subcontractor Name _____
Business Location _____
Trade _____
Subcontract Amount _____
Current Contractor's License No.(s) _____
Public Works Contractor DIR Registration # _____

NON-COLLUSION DECLARATION

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

(Title 23 United States Code Section 112 and Public Contract Code Section 7106)

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid. The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. 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. All statements contained in the bid are true. 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, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____, at _____, _____.

Signature of Bidder

2387815.1

WORKERS COMPENSATION INSURANCE CERTIFICATION

By submitting its bid the bidder certifies as follows:

I am aware of the provisions of California Labor Code Section 3700, which require every employer to be insured against liability for workmen's compensation or to undertake self-insurance in accordance with the provisions of the Labor Code, and I will comply with such provisions before commencing performance of the work of this Contract.

DEBARMENT CERTIFICATION

By submitting its bid the bidder certifies in accordance with California Public Contract Code Section 6109 that neither the bidder nor any subcontractor included on the list of proposed subcontractors submitted with the bid is ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7. In accordance with California Public Contract Code Section 6109, contractors and subcontractors who are ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7 may neither bid on, be awarded or perform as a subcontractor on public works projects.

Signature of Bidder

Printed Name

ACKNOWLEDGMENT OF INDEMNITY AND INSURANCE REQUIREMENTS

Insurance

- a. All required insurance must be provided in the form of “occurrence”-type policies underwritten by admitted insurers in the State of California with a rating of A or better from the current year Best Rating Guide. All policies must be issued at the expense of the Contractor and must be maintained at the Contractor’s expense throughout the performance of the Work. Contractor shall maintain insurance as required by this contract to the fullest amount allowed by law and shall maintain insurance for a minimum of five years following the completion of this project. In the event contractor fails to obtain or maintain completed operations coverage as required by this Contract, the City at its sole discretion may purchase the coverage required and the cost will be paid by Contractor.
- b. Contractor agrees to include with all subcontractors in their subcontract the same requirements and provisions of this contract including the indemnity and Insurance requirements to the extent they apply to the scope of the Subcontractor’s work. Contractor shall require all sub-contractors to provide a valid certificate of insurance and the required endorsements included in the Contract prior to commencement of any work and Contractor will provide proof of compliance, upon request, to the City.
- c. Subcontractor hired by the Contractor agree to be bound to the Contractor and the City in the same manner and to the same extent as Contractor is bound to the City under the Contract. Subcontractor further agrees to include the same requirements and provisions of this Contract, including the Indemnity and Insurance requirements, with any Subcontractor to the extent they apply to the scope of the Subcontractor's work. A copy of the Contract Indemnity and Insurance provisions will be furnished to the Subcontractor upon request
- d. The Contractor and any Subcontractors engaged in performance of the Work must secure payment of workers compensation in accordance with California Labor Code Section 3700 and other applicable law. The Contractor must verify that all Subcontractors comply with this requirement.
- e. Within ten working days following the Notice of Award, the Contractor must submit to the City acceptable certificates of insurance, declarations page(s) and endorsements evidencing that the Contractor has the required insurance in effect and will maintain it throughout the performance of the Work and beyond, as applicable, the following kinds and amounts of insurance:
 1. The minimum limits of the Commercial General Liability (including bodily injury, personal injury and property damage) insurance shall be:
 - \$10,000,000 aggregate
 - \$5,000,000 occurrence

If the work to be performed involves any excavation, the policy shall include an endorsement that affords coverage for explosion, collapse and underground hazards.

2. If the work to be performed involves vehicles or vehicular equipment, the Automobile insurance limit shall be:

\$2,000,000 per accident for bodily injury and property damage

3. Automobile coverage should be at least as broad as Insurance Services Automobile Liability form CA 0001 Code 1 (“any auto”). No endorsement may be attached limiting the coverage. Anything less than ‘any auto’ coverage must be approved by the Risk Manager prior to approval. If the Risk Manager accepts anything less than ‘any auto’, additional information such as a schedule of covered autos, proof of personal auto liability coverage, or a verification statement may be required by the City.

4. Worker’s Compensation Insurance. Proof of Workers Compensation and Employers Liability insurance as required by any applicable law, regulation or statute, including the provisions of Division IV of the Labor Code of the State of California, and any act or acts amending it. Worker’s compensation insurance must be for Statutory Limits and must cover the full liability of the Contractor. The Contractor’s Employer’s Liability Insurance must be in an amount no less than \$1,000,000.00 per occurrence. The workers’ compensation policy is to be endorsed with a waiver of subrogation. The insurance company, in its endorsement, must agree to waive all rights of subrogation against the City, its officers, officials, employees and volunteers for losses paid under the terms of such policy.

5. Umbrella/Excess Policy. The limits of insurance required under this Contract may be satisfied by a combination of primary and umbrella or excess Insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of City (if agreed to in a written contract or agreement) before the City’s own insurance or self-insurance shall be called upon to protect it as a named insured.

f. Additional Requirements

- i. Endorsements must add the City, its officials, officers, employees, agents and volunteers as an additional insured (“Additional Insured”). Examples of City approved insurance forms are included in this package. If the Contractor provides policy pages or broad forms of endorsement the insurance carrier will be asked to sign, initial and date all applicable sections of the document which conveys coverage to the City.
- ii. It shall be a requirement under this Contract that any available insurance proceeds broader than or in excess of the specified minimum Insurance coverage requirements and/or limits shall be available to the Additional Insured. Furthermore, the requirements for coverage and limits shall be (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any Insurance policy or proceeds available to the name insured; which ever greater.
- iii. The Additional Insured coverage under the Contractor’s policy shall be “primary and non-contributory” and will not seek contribution from the City of Healdsburg’s insurance or self-insurance and shall be at least as broad as CG 20 01 04 013.

- iv. The Contractor shall provide the City with a 30 day written notice of any reduction or cancellation of such insurance required to be furnished by the Contractor; and include a severability of interest clause acceptable to the City and if requested by the City.
 - v. If an Umbrella or Excess Policy is used to satisfy the requirements, than an email or language stating such on the certificate must be provided from the insurance carrier/broker and that the Umbrella/Excess Policy 'follows form' or is 'continuous' to the General liability and/ Auto liability policy in addition to the required endorsement.
 - vi. The City has included examples of approved standard and preferred forms of endorsements in the Contract. If the Contractor's insurance carrier chooses to use forms other than the City's approved forms , such forms shall be subject to the prior approval of the City. If the Contractor provides policy pages instead of an endorsement the insurance agent/broker will be asked to sign, initial and date all applicable sections of the policy that meet the City's insurance requirements.
- g. All self-insured retentions (SIR) must be disclosed to City for approval and shall not reduce the limits of liability. Policies containing any self-insured retention (SIR) provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named Insured or the City, The City reserves the right to obtain a full certified copy of any Insurance policy and endorsements. Failure to exercise this right shall not constitute a waiver of right exercise later.

Contractor's failure to provide insurance certificates and endorsement forms that are acceptable to the City within ten (10) working days of notice of award of contract shall:

- (i) constitute a failure to complete the "Contract Documents Checklist" as described on page 39
 - (ii) entitle the City to rescind any contract award
 - (iii) result in a forfeiture of Contractor's bid bond or other form of bid security.
- a. Contractor must continue to provide approved forms of insurance certificates, declarations page(s) and endorsements that meet the requirements of Section 8-1.07 of the Contract Documents for 2 years following recordation of a Notice of Completion or other form of notice of project completion provided by City.

Indemnities

- a. The Contractor will take all responsibility for the Work, and will bear all losses and damages directly or indirectly resulting to the Contractor, any subcontractors engaged in performance of the Work, the City, its officials, officers, employees, agents, volunteers and consultants, and to third parties on account of the performance or character of the Work, unforeseen difficulties, accidents, or occurrences of other causes predicated on active or passive negligence of the Contractor or of any subcontractor engaged in performance of the Work. To the fullest extent permitted by law the Contractor will indemnify, defend and hold harmless the City, its officials, officers, employees, agents, volunteers and consultants from and against any or all loss, liability, expense, claims, costs (including costs of defense), suits, and damages of every kind, nature and description (including, but not limited to, penalties resulting from exposure to

hazards in violation of the California Labor Code) directly or indirectly arising from the performance of the Work ("Claims"). The Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this agreement for the full period of time allowed by law.

- b. The Contractor will indemnify, defend and hold harmless the City, the City's officials, officers, employees, volunteers, agents and the Engineer and the Architect for all liability on account of any patent rights, copyrights, trade names or other intellectual property rights that may apply to the Contractor's performance of the Work. The Contractor will pay all royalties or other charges as a result of intellectual property rights that may apply to methods, types of construction, processes, materials, or equipment used in the performance of the Work, and will furnish written assurance satisfactory to the City that any such charges have been paid.
- c. The Contractor assumes all liability for any accident or accidents resulting to any person or property as a result of inadequate protective devices for the prevention of accidents in connection with the performance of the Work. The Contractor will indemnify, defend, and hold harmless the City and its officials, officers, employees, agents, volunteers and consultants from such liability.
- d. The defense and indemnification obligations in this Contract are undertaken in addition to, and shall not in any way be limited by the insurance obligations contained in this Agreement. Sections 8-1.08 or 8-1.09. The Contractor will defend, with legal counsel reasonably acceptable to the City, any action or actions filed in connection with any Claims and will pay all related costs and expenses, including attorney's fees incurred. The Contractor will promptly pay any judgment rendered against the City, its officials, officers, employees, agents, volunteers or consultants for any Claims. In the event the City, its officials, officers, employees, agents, volunteers or consultants is made a party to any action or proceeding filed or prosecuted against Contractor for any Claims, Contractor agrees to pay the City, its officials, officers, employees, agents, volunteers and consultants any and all costs and expenses incurred in such action or proceeding, including but not limited to, reasonable attorneys' fees.
- e. Subject to the requirements of Section 5 of the General Provisions, the Contractor will indemnify, hold harmless and defend with legal counsel reasonably acceptable to the City the City and its officials, officers, employees, agents and volunteers from and against any and all Claims related to damage to surface or underground facilities caused by the Contractor or any of the Contractor's privities or agents.
- f. The Contractor will indemnify, hold harmless and defend with legal counsel reasonably acceptable to the City the City and its officials, officers, employees, agents and volunteers from and against any and all Claims, including any fines or other penalties, related to failure of the Contractor and/or privities or agents of the Contractor to comply with the requirements of the General Permit, or to implement the SWPPP in accordance with provision 12-1.04 of the Contract. The City may withhold from amounts due or that may become due the Contractor under this Contract amounts that equal or are estimated to equal the amount of Claims, including fines, resulting from failure of the Contractor and/or privities or agents of the Contractor to comply with the requirements of the General Permit,

or to implement the SWPPP in accordance with provision 12-1.04 of the Contract.

- g. In accordance with California Civil Code Section 2782(a), nothing in the Contract will be construed to indemnify the City for its sole negligence, willful misconduct, or for defects in design furnished by City. In accordance with California Civil Code Section 2782(b), nothing in the Contract will be construed to impose on the Contractor or to relieve the City from liability for the City's active negligence. By execution of the Contract Documents the Contractor acknowledges and agrees that the Contractor has read and understands the insurance and indemnity requirements of the Contract Documents, which are material elements of consideration.
- h. Contractor's and subcontractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law.
- i. The defense and indemnification obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract.

I have read, understand and agree to comply with the Indemnity and Insurance requirements supplied with this notice to bidders.

Signature of Bidder

Printed Name

TITLE 49, CODE OF FEDERAL REGULATIONS - PART 29
DEBARMENT AND SUSPENSION CERTIFICATION

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of City, partner, director, officer, manager:

1. Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
2. Has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal Agency within the past 3 years;
3. Does not have a proposed debarment pending; and,
4. Has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space:

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Signature of Bidder

Printed Name

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code Section 10285.1 (Chapter 376, Stats, 1986), the bidder hereby declares under penalty of perjury under the laws of the State of California, that the bidder has _____, has not _____ been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Statement is part of the Proposal.

Bidders are cautioned that making false certification may subject the certifier to criminal prosecution.

Signature of Bidder

Printed Name

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No _____

If the answer is "Yes", explain the circumstances in the following space.

Signature of Bidder

Printed Name

PUBLIC CONTRACT SECTION 10232 STATEMENT

In accordance with Public Contract Code Section 10232, the Contractor, hereby states under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Signature of Bidder

Printed Name

BIDDER'S SIGNATURE PAGE

By signing this proposal the bidder certifies, under penalty of perjury under the laws of the State of California, that the information submitted with this proposal for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) ("Project"), which information includes, but is not limited to, the Bidder's Check List, Proposal and Schedule of Bid Prices, Bid Bond, Contractor License Information, List of Subcontractors, Workers Compensation Insurance Certification, Non-collusion Affidavit, Debarment Certification, Debarment and Suspension Certification, Public Contract Code Section 10285.1 Statement, Public Contract Code Section 10162 Questionnaire, and Public Contract Code Section 10232 Statement, is accurate, true and correct, and is submitted in accordance with the requirements of the bid package issued by the City of Healdsburg concerning the Project and applicable law. By signing this proposal the bidder representative specified below certifies that he or she is legally authorized to bind the bidder.

The bidder agrees to deliver and to complete the Project within (working time) **150 working days** from the date of issuance, by the Engineer, of instructions to proceed with the Project, and within 10 working days of the date of mailing of the notice concerning the award, to enter into and execute and provide to the City the Project contract, bonds and all other documents specified in the Contract Check List included in the bid package, and in case of default in executing the Project contract within the time fixed by the Instructions to Bidders, the bidder's security accompanying this bid shall become the property of and be forfeited to the City of Healdsburg.

Prime Contractor _____

By: _____ Title: _____

Dated this _____ day of _____, 20____

(Corporate Seal)

Corporate signature

Address: _____

Phone No.: _____

President's signature _____

Secretary's signature _____

Corporation organized under the laws of the State of _____

Partnership Name: _____

Address: _____

Names of Co-Partners and Addresses:

Names of Individuals and Addresses:

NOTE: Sign in proper space above.

Date: _____

(Typed or printed name)

(Signature)

(Bidder)

Bidder business address (street, city, state and zip code)

Bidder Business phone: () _____

Bidder Business fax: () _____

CONTRACT DOCUMENTS CHECK LIST

Complete, accurate, executed copies of the following documents must be submitted to the City of Healdsburg in accordance with the bid package issued by the City within ten (10) working days of receiving written notice concerning award of the project. The bidder's security of any successful bidder that fails to do so will be forfeited to the City.

- _____ Contract, Part 1
- _____ Performance Bond
- _____ Payment Bond
- _____ Certificates of Insurance, Declarations page(s) and Endorsements
- _____ Escrow for Deposit Agreement, if applicable
- _____ General Conditions, Contract, Part 2
- _____ Special Provision (if included)
- _____ Technical Specifications
- _____ Project Plans
- _____ Contractor Safety Program
- _____ Report of Use/Storage of Hazardous Substances

CONTRACT PART 1

This Contract is made and entered into this (to be completed by the City) _____ day of _____, 201____, by and between the City of Healdsburg, a California Municipal Corporation, 401 Grove Street, Healdsburg, California, 95448, hereinafter referred to as "City," and _____, a _____, hereinafter referred to as "Contractor"

RECITALS

A. NOTICE INVITING BIDS. The City gave notice inviting bids to be submitted by _____ for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) by published notice and/or posting in accordance with California Public Contract Code Section 20164 and other applicable law.

B. BID OPENING. On _____, City representatives opened the bids for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) and read the bids aloud.

C. PROJECT AWARD. On _____, the City Council awarded the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) to the Contractor and directed City staff to send the Contractor written notice of award of the project. The City Council conditioned award of the project on the Contractor's providing executed copies of all documents specified in the Contract check list included in the bid package within ten (10) calendar days of receiving written notice concerning award of the project.

D. REQUIRED DOCUMENTS. The Contractor has provided the City executed copies of all documents specified in the Contract checklist included in the bid package within ten (10) calendar days of receiving written notice of award.

CONTRACT TERMS

The City and the Contractor agree as follows:

1. THE WORK. The Contractor must furnish all equipment, tools, apparatus, facilities, material, labor, and skill necessary to perform and complete in a good and workmanlike manner the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) ("Work") as shown in the Technical Specifications and Project Plans in accordance with the Contract Documents and applicable law.
2. LOCATION OF WORK. The Work will be performed at the following location:
March Avenue, Healdsburg, California

3. TIME FOR COMPLETION. The Contractor must complete the Work in accordance with the Contract Documents within (working time) **one hundred fifty (150) working days** from the date specified in the City's Notice to Proceed ("Time for Completion").

4. REMEDIES FOR FAILURE TO TIMELY COMPLETE THE WORK. If the Contractor fails to fully perform the Work in accordance with the Contract Documents by the Time for Completion, as such time may be amended by change order or other modification to this Contract in accordance with its terms, and/or if the Contractor fails, by the Time for Completion, to fully perform all of the Contractor's obligations under this Contract that have accrued by the Time for Completion, the Contractor will become liable to the City for all resulting loss and damage in accordance with the Contract Documents and applicable law. The City's remedies for the Contractor's failure to perform include, but are not limited to, assessment of **liquidated damages of \$1500 per day** in accordance with California Government Code Section 53069.85 and the Contract Documents, and/or obtaining or providing for substitute performance in accordance with the Contract Documents.

5. CONTRACT PRICE AND PAYMENT. As full compensation in consideration of completion of the Work in accordance with the Contract Documents and in consideration of the fulfillment of all of the Contractor's obligations under the Contract Documents, the City will pay the Contractor in lawful money of the United States the total price of \$_____ (the "Contract Price") as specified in the Contractor's completed Bid Schedule dated _____, _____, attached to and incorporated in this Contract. Payment to the Contractor under this Contract will be for Work actually performed in accordance with the Contract Documents and will be made in accordance with the requirements of the Contract Documents and applicable law. The City will have no obligation to pay the Contractor any amount in excess of the Contract Price unless this Contract is first modified in accordance with its terms. The City's obligation to pay the Contractor under this Contract is subject to and may be offset by charges that may apply to the Contractor under this Contract. Such charges include but are not limited to, charges for liquidated damages and/or substitute performance in accordance with the Contract Documents.

6. PREVAILING WAGES. In accordance with California Labor Code Section 1771, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Work is to be performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in the California Labor Code must be paid to all workers engaged in performing the Work. In accordance with California Labor Code Section 1770 and following, the Director of Industrial Relations has determined the general prevailing wage per diem rates for the locality in which the Work is to be performed. In accordance with California Labor Code Section 1773, the City has obtained the general prevailing rate of per diem wages and the general rate for holiday and overtime work in the locality in which the Work is to be performed for each craft, classification or type of worker needed to perform the project. In accordance with California Labor Code Section 1773.2, copies of the prevailing rate of per diem wages are on file at the City Public Works Department and will be made available on request. Throughout the performance of the Work the Contractor must comply with all provisions of the Contract Documents and all applicable laws and regulations that apply to wages earned in performance of the Work.

7. THE CONTRACT DOCUMENTS. This Contract consists of the following documents (“Contract Documents”), all of which are incorporated into and made a part of this Contract as if set forth in full. In the event of a conflict between or among the Contract Documents, precedence will be in the following order:
- 7.1 Part 1 of the Contract and change orders and other amendments to this agreement signed by authorized representatives of the City and the Contractor.
 - 7.2 The General Provisions, Part 2 of the Contract, and change orders and other amendments to the General Conditions signed by authorized representatives of the City and the Contractor.
 - 7.3 The Special Provisions, if included make up Part 3 of the Contract, and include any addenda to the Special Provisions signed by authorized representatives of the City and issued prior to bid opening, Equal Product Proposals accepted by the City and signed by authorized City representatives prior to bid opening, and change orders and other amendments to the Technical Specifications signed by authorized representatives of the City and the Contractor.
 - 7.4 The Project Plans, Part 4 of the Contract, addenda to the Project Plans signed by authorized representatives of the City and issued prior to bid opening, Equal Product Proposals accepted by the City and signed by authorized City representatives prior to bid opening, and change orders and other amendments to the Project Plans signed by authorized representatives of the City and the Contractor.
 - 7.5 Notice Inviting Bids.
 - 7.6 Instructions to Bidders.
 - 7.7 The successful bidder’s completed Proposal Form and Bidder’s Sheet.
 - 7.8 The successful bidder’s completed Contractor License Information.
 - 7.9 The successful bidder’s completed List of Proposed Subcontractors.
 - 7.10 The successful bidder’s Workers Compensation Insurance Certification.
 - 7.11 The successful bidder’s completed Non-collusion Affidavit.
 - 7.12 The successful bidder’s Debarment Certification.
 - 7.13 The successful bidder’s signed Acknowledgment of Indemnity and Insurance requirements and completed Certificates of Insurance, Declaration page(s) and Endorsements.
 - 7.14 The successful bidder’s executed Performance Bond.
 - 7.15 The successful bidder’s executed Payment Bond.

- 7.16 The Maintenance Bond form included in the bid package that the Contractor must execute prior to release of final payment under the Contract.
- 7.17 The successful bidder's Qualification Statement, if any.
- 7.18 The successful bidder's signed Signature Form.
8. PROVISIONS INCORPORATED BY REFERENCE. Provisions or parts of provisions that are incorporated by reference and not set forth at length in any of the Contract Documents will only form a part of this Contract to the extent the Contract Documents expressly make such provisions or parts of provisions a part of this Contract. For example, published public works agreement provisions, such as those of the State of California Department of Transportation Standard Specifications (known as the Standard Specifications) are only a part of this Contract to the extent expressly incorporated in this Contract by section number. When such published provisions are made a part of this Contract, references in the published provisions to other entities, such as the State, the Agency, or similar references, will be deemed references to the City as the context of this Contract may require.
9. INTERPRETATION OF CONTRACT DOCUMENTS. Any question concerning the intent or meaning of any provision of the Contract Documents, including, but not limited to, the Technical Specifications or Project Plans, must be submitted to the Public Works Director, or his/her designee, for issuance of an interpretation and/or decision by the authorized Public Works Director in accordance with the requirements of the Contract Documents. Interpretations or decisions by any other person concerning the Contract Documents will not be binding on the City. The decision of the Public Works Director, or his/her designee, will be final.
10. ASSIGNMENT PROHIBITED. The Contractor may not assign part or all of this Contract, or any moneys due or to become under this Contract, or any other right or interest of the Contractor under this Contract, or delegate any obligation or duty of the Contractor under this Contract without the prior written approval of an official authorized to bind the City and an authorized representative of Contractor's surety or sureties. Any such purported assignment or delegation without such written approval on behalf of the City and the Contractor's sureties will be void and a material breach of this Contract subject to all available remedies under this Contract and at law and equity.
11. CERTIFICATION RE CONTRACTOR'S LICENSE. By signing this Contract the Contractor certifies that the Contractor holds a valid license issued by the California State Contractors Licensing Board as required to perform the Work and as specified in the Notice to Bidders for the Project, and that the Contractor understands that failure to maintain its license in good standing throughout the performance of the Work may result in discipline and/or other penalties pursuant to the California Business and Professions Code, and may constitute a material breach of this Contract subject to all available remedies under this Contract and at law and equity.
12. SEVERABILITY. If any term or provision or portion of a term or provision of this Contract is declared invalid or unenforceable by any court of lawful jurisdiction, then the remaining terms and provisions or portions of terms or provisions will not be affected thereby and will remain in full force and effect.

CONTRACTOR

By: _____

Title: _____

Executed by Contractor on _____

[Attach Notary Page]

CITY

_____ City of Healdsburg _____

By: _____

Jeff Kay,
City Manager

Executed by City on: _____

By: _____
Katie Edgar, Finance Director

Attest:

By: _____
Raina Allan, City Clerk

The forgoing contract is approved by me in its entirety as to form on _____,
202__.

City Attorney
City of Healdsburg

PERFORMANCE BOND

(NOTE: The successful bidder must use this form. Use of any other bond form may prevent a contract from forming and/or result in forfeiture of the successful bidder's bid bond)

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS the City Council of the City of Healdsburg has awarded to _____, (designated as the "PRINCIPAL") a contract for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013), which contract and all of the contract documents as defined therein (designated as the "Contract") are hereby made a part hereof; and

WHEREAS, said PRINCIPAL is required under the terms of the Contract to furnish a bond for the faithful performance of the Contract;

NOW, THEREFORE, WE, the PRINCIPAL and _____ as surety (designated as "SURETY"), an admitted surety insurer authorized to do business in the State of California, are held and firmly bound unto the City (designated as "OBLIGEE"), in the penal sum of _____ dollars (\$ _____), lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, and administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that, if the above bound PRINCIPAL, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract and any alteration thereof made as therein provided, on his or their part to be kept and performed at the time and in the manner therein specified and in all respects according to their true intent and meaning, and shall defend, indemnify and save harmless the OBLIGEE, it's officials, officers, employees, volunteers and agents, as therein stipulated, then this obligation shall become null and void, otherwise it shall be and remain in full force and virtue.

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 to the specifications or the plans accompanying the same or to any other part of the contract documents, as defined therein, shall in any way affect said SURETY's obligation on this bond, and the SURETY does hereby waive notice of any such change, extension of time, alteration or addition.

And the said SURETY, for value received, hereby stipulates and agrees that upon termination of the Contract for cause, the OBLIGEE reserves the right to refuse tender of the PRINCIPAL by the SURETY to complete the Contract work.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this _____ day of _____, _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by their undersigned representatives, pursuant to authority of their governing bodies.

(Corporate Seal)

PRINCIPAL _____

By _____

(Acknowledgement)

Title _____

SURETY _____

(Corporate Seal)

By _____
(Attorney-in-fact)

(Acknowledgement)

Title _____

(NOTE TO SURETY COMPANY: A certified copy of unrevoked resolution of authority for the attorney-in-fact must be submitted with and attached to the executed bond.)

PAYMENT/LABOR AND MATERIALS BOND

(NOTE: The successful bidder must use this form. Use of any other bond form may prevent a contract from forming and/or result in forfeiture of the successful bidder's bid bond)

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS the City Council of the City of Healdsburg has awarded to _____, (designated as the "PRINCIPAL") a contract for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013), which contract and all of the contract documents as defined therein (designated as the "Contract") are hereby made a part hereof; and

WHEREAS, pursuant to California Civil Code Section 9550, the PRINCIPAL is required, before entering upon the performance of the Contract, to file a payment bond with and have such bond approved by the officer or public entity by whom the Contract is awarded; and

WHEREAS, pursuant to California Civil Code Section 9554, such payment bond must be in a sum not less than one hundred percent (100%) of the total amount payable by the terms of the Contract, and must satisfy the other requirements specified in that section; and

WHEREAS, the PRINCIPAL is required in accordance with the Contract to furnish a payment bond in connection with the Contract to secure payment of claims of laborers, mechanics and materialmen employed on work under the Contract in accordance with applicable law;

NOW, THEREFORE, THESE PRESENTS WITNESSETH:

That the PRINCIPAL and the undersigned _____, as surety (designated as "SURETY"), an admitted surety insurer authorized to do business in the State of California are held and firmly bound unto all laborers, material men, and all other persons named in California Civil Code Section 9100 (a) in the sum of _____ Dollars (\$ _____), lawful money of the United States, being a sum not less than one hundred percent of the total amount payable by the terms of the Contract, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns, jointly and severally, by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the PRINCIPAL or any of the PRINCIPAL's subcontractors, or the heirs, executors, administrators, successors, or assigns of any, all, or either of them, shall fail to pay any persons named in California Civil Code Section 9100 (a), or fail to pay for any labor, materials, provisions, provender, or other supplies used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or fail to pay amounts due under the Unemployment Insurance Code with respect to such work or labor, or fail to pay for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the PRINCIPAL or any subcontractors of the PRINCIPAL pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work or labor, that the SURETY will pay for the same in an amount not exceeding the amount herein above set forth, and also, in case suit is brought upon this bond, will pay a reasonable attorney's fee to be awarded and fixed by the Court; otherwise this obligation shall be void.

It is hereby expressly stipulated and agreed by the said Surety, for value received, that this bond shall inure to the benefit of any and all of the persons named in Section 9100 (a) of the California Civil Code so as to give a right of action to them or their assigns in any suit brought upon this bond.

It is hereby further expressly stipulated and agreed by the said Surety, for value received, that no change, extension of time, alteration or addition to the terms of the Contract or the specifications or drawings accompanying the same or to any other part of the contract documents, as defined therein, shall in any manner affect the obligations of the SURETY on this bond, and SURETY does hereby waive notice of any such change, extension, alteration, or addition.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals this _____ day of _____, _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by their undersigned representatives, pursuant to authority of their governing bodies.

(Corporate Seal)

PRINCIPAL _____

By _____

(Acknowledgement)

Title _____

SURETY _____

(Corporate Seal)

By _____
(Attorney-in-fact)

(Acknowledgement)

Title _____

(NOTE TO SURETY COMPANY: A certified copy of unrevoked resolution of authority for the attorney-in-fact must be submitted with and attached to the executed bond.)

MAINTENANCE BOND

(NOTE: The Contractor must use this form. Use of any other bond form may prevent release of final payment and/or release of retention under the Contract)

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS the City Council of the City of Healdsburg has awarded to _____, (designated as the "PRINCIPAL") a contract for the MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013), which contract and all of the contract documents as defined therein (designated as the "Contract") are hereby made a part hereof; and

WHEREAS, the PRINCIPAL is required under the terms of the Contract to furnish a bond for the correction of any defects due to defective materials or workmanship in the work performed under the Contract.

NOW, THEREFORE, we the PRINCIPAL and the undersigned _____, as surety (designated as "SURETY"), an admitted surety insurer authorized to do business in the State of California, are held and firmly bound unto the City of Healdsburg, (designated as the "OBLIGEE"), in the penal sum of _____ Dollars (\$ _____), lawful money of the United States, being a sum not less than ten percent (10%) of the final Contract price, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that if, during a maintenance period of one (1) year from the date of acceptance by the OBLIGEE of the contracted work, the PRINCIPAL upon receiving written notice of a need for repairs which are directly attributable to defective materials or workmanship, shall diligently take the necessary steps to correct said defects within seven (7) days from the date of said notice, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

If any action shall be brought by the OBLIGEE upon this bond, a reasonable attorney's fee, to be fixed by the Court, shall be and become a part of OBLIGEE's judgment in any such action. No right of action shall accrue on this bond to, or for the use of, any person or corporation other than the OBLIGEE named herein or the heirs, executors, administrator or successor of the OBLIGEE.

IN WITNESS WHEREOF, the above bound parties have executed this instrument under their seals this _____ day of _____, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Seal)

PRINCIPAL _____

By _____

(Acknowledgment)

Title _____

SURETY _____

(Corporate Seal)

By _____
(Attorneys-in-fact)

(Acknowledgment)

Title _____

(NOTE TO SURETY COMPANY: A certified copy of unrevoked resolution of authority for the attorney-in-fact must be submitted with and attached to the executed bond.)

ESCROW AGREEMENT

SECURITY DEPOSITS IN LIEU OF RETENTION

This Escrow Agreement is made and entered into by and between the City of Healdsburg, whose address is 401 Grove Street, Healdsburg, California 95448, hereinafter called "City", _____, whose address is _____, hereinafter called "Contractor", and _____, whose address is _____, hereinafter called "Escrow Agent"

For consideration hereinafter set forth, the City, Contractor, and Escrow Agent agree as follows:

1. Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by City pursuant to the Construction Contract entered into between the City and Contractor for the project entitled MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) in the amount of _____ dated _____ (hereinafter referred to as the "Contract"). Alternatively, on written request of the Contractor, the City shall make payments of the retention earnings directly to the Escrow Agent. When Contractor deposits the securities as substitute for Contract earnings, the Escrow Agent shall notify the City within 10 days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between the City and Contractor. Securities shall be held in the name of City of Healdsburg and shall designate the Contractor as the beneficial owner.
2. The City shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.
3. When the City makes payment of retentions earned directly to the Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this contract is terminated. The Contractor may direct the investments of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the City pays the escrow agent directly.
4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account and all expenses of the City. These expenses and payment terms shall be determined by the City, Contractor and Escrow Agent.
5. The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of the Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to the City.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from City to the Escrow Agent that City consents to the withdrawal of the amount sought to be withdrawn by Contractor.

7. The City shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven day's written notice to the Escrow Agent from the City of the default, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the City.

8. Upon receipt of written notification from the City certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all monies and securities on deposit and payments of fees and charges.

9. Escrow Agent shall rely on the written notifications from the City and the Contractor pursuant to Sections (5) to (8) inclusive, of this agreement and the City and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.

10. The names of the persons who are authorized to give written notice or to receive written notice on behalf of the City and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures, are as follows:

On Behalf of City:

Title

Name

On Behalf of Contractor

Title

Name

On Behalf of Escrow Agent:

Title

Name

Signature

Address

At the time the Escrow Account is opened, the City and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date first set forth above.

City:

Contractor:

Title

Title

Name

Name

Signature

Signature

Address

Address

CONTRACT PART 2

GENERAL PROVISIONS

SECTION 1 Definitions

The following terms as used in any agreement of which these General Provisions are a part are defined as follows:

- 1-1.01 Contract:** The agreement between the City and Contractor concerning the Project, as evidenced by and comprised of the Contract Documents.
- 1-1.02 Architect:** The person or persons so specified on the Technical Specifications and/or Project Plans.
- 1-1.03 ASTM:** American Society for Testing and Materials latest edition.
- 1-1.04 Bid Package:** All of the documents listed as comprising the entire Bid Package as specified in the Instructions to Bidders and representing the full set of documents made available to bidders on the Project.
- 1-1.05 City:** City of Healdsburg
- 1-1.06 Public Works Standard Specifications and Details:** The edition of the City of Healdsburg Public Works Standard Specifications and Details in effect on the date of the last signature to this Contract.
- 1-1.07 Contract Documents:** All those documents listed in Paragraph 7 of the Contract Part 1 as comprising the entire agreement between the City and the Contractor.
- 1-1.08 Contractor:** The successful bidder for the Project and party to the Contract with the City as specified in the Contract Documents.
- 1-1.09 Days:** Unless otherwise specified in the Contract Documents, days mean calendar days.
- 1-1.10 Engineer:** The City's authorized representative for administration and overall management of the Project, Contract, and Work. The Engineer is the official point of contact between the City and the Contractor.
- 1-1.11 Project:** The MARCH AVENUE RECONSTRUCTION & PEDESTRIAN UPGRADES PROJECT (PROJECT NUMBER ST013) project as described in the Technical Specifications and Project Plans.
- 1-1.12 Project Plans:** The primarily graphic detailed requirements concerning the Project contained in the Bid Package and any addenda to the Project Plans signed by authorized City representatives and issued prior to bid opening, Equal Product Proposals accepted by the City and signed by authorized City representatives prior to bid opening, and change orders and other amendments to the Project Plans signed by authorized representatives of the City and the Contractor in accordance with the requirements of the Contract Documents.

- 1-1.13 Project Inspector:** The party or parties charged by the City with inspecting the Work for compliance with the requirements of the Contract Documents and applicable laws and regulations. The Project Inspector acts under the direction of the City and must coordinate with the Engineer as directed by the City in accordance with the Contract Documents.
- 1-1.14 Caltrans Standard Specifications:** The State of California Department of Transportation Standard Specifications for Construction of Local Streets and Roads, latest edition.
- 1-1.15 Caltrans Construction Manual:** The State of California Department of Transportation Construction Manual, latest edition.
- 1-1.16 Subcontractor:** A person, firm or corporation that is obligated as a party to a contract with the Contractor to perform part of the Work. For purposes of these General Provisions Subcontractors include, but are not limited to, those that are obligated as parties to a contract with the Contractor to specially fabricate and install a portion of the Work according to the Technical Specifications and/or Project Plans.
- 1-1.17 Technical Specifications:** The detailed Project requirements contained in the Bid Package and any addenda to the Technical Specifications signed by authorized City representatives and issued prior to bid opening, Equal Product Proposals accepted by the City and signed by authorized City representatives prior to bid opening, and change orders and other amendments to the Technical Specifications signed by authorized representatives of the City and the Contractor in accordance with the requirements of the Contract Documents.
- 1-1.18 Work:** The furnishing of all equipment, tools, apparatus, facilities, material, labor and skill necessary to perform and complete in a good and workmanlike manner the Project as shown in the Technical Specifications and Project Plans in accordance with the Contract Documents and applicable law.
- 1-1.19 Written Notice:** Will be deemed to have been duly served for purposes of these General Provisions and any Contract of which they are a part if delivered in person to the individual or to a member of the firm or to any office of the corporation for whom the notice is intended, or if sent by registered or certified mail to the last known business address known to the party giving notice. Unless otherwise specified in the Contract Documents, the last known address of the Contractor will be that listed in the Contractor's completed Proposal.

SECTION 2 Scope of Work

2-1.01 Documents Furnished by City. The City will furnish to the Contractor, free of charge, five (5) sets of prints of the Project Plans and Technical Specifications for execution of the Work. Throughout the performance of the Work the Contractor must keep one copy of the Project Plans and Technical Specifications in good order and available for review by the Engineer, the Architect, and any other City contractors or representatives.

2-1.02 Ownership of Documents Furnished by City. All documents furnished by the City, including, but not limited to, the Technical Specifications, Project Plans, and any copies, are the property of the City. Documents furnished by the City may not be used on any other work. All documents furnished by the City must be returned to City upon completion of the Work.

2-1.03 Technical Specifications and Project Plans.

- a. The Technical Specifications and Project Plans are complementary and intended to mutually describe the Work necessary to complete the Project in accordance with the Contract Documents.
- b. In general, the Project Plans indicate dimensions, position and kind of construction, and the Technical Specifications indicate qualities and methods. Any Work indicated on the Project Plans and not mentioned in the Technical Specifications or vice versa must be furnished as though fully set forth in both. Work that is not particularly detailed, marked or specified will be the same as similar Work that is detailed, marked or specified. The Contractor must furnish items necessary for the operation of equipment depicted in the Project Plans or specified in the Technical Specifications that are suitable to allow such equipment to function properly at no extra charge.
- c. The Contractor must notify the Engineer as soon as possible of any apparent errors or inconsistencies, including, but not limited to, typographical or notational errors in the Project Plans, Technical Specifications, and/or in work done by others affecting the Work. The Engineer will issue instructions concerning any such apparent errors or inconsistencies. If the Contractor proceeds with Work impacted by apparent errors or inconsistencies without instructions from the Engineer, the Contractor does so at its sole risk and will have all of the obligations and the City will have all of the rights and remedies specified in Section 11 concerning any resulting damage or defect.
- d. The General Provisions apply with equal force to all of the Work, including extra work authorized by the Engineer in accordance with the Contract Documents. The Contractor must submit any required shop diagrams and/or drawings by the times and in the quantities indicated in the Technical Specifications. Any such shop diagrams and/or drawings must show completely the Work to be done, expanding on the Project Plans concerning details not previously shown, field conditions and the condition of the Work. Engineer review of such shop diagrams and/or drawings will concern conformance with the requirements of the Contract Documents only. The Engineer assumes no responsibility for the correctness or accuracy of the dimensions or any other contents of any shop diagrams and/or drawings submitted by the Contractor. The Contractor must check all dimensions at the Work site. Shop diagrams and/or drawings must be clearly marked with the name of the Project and

the name of the Contractor, subcontractor or supplier making the submittal, and must be stamped and signed by the Contractor and submitted under a signed transmittal letter from the Contractor certifying that all dimensions have been checked at the Work site. These requirements are mandatory. The Engineer will not review shop diagrams and/or drawings that do not satisfy these requirements. The Contractor will be responsible for any and all discrepancies between dimensions of the actual Work site and/or Work and those shown on shop diagram and/or drawings submitted by the Contractor, and for any other errors contained in or resulting from such shop diagrams and/or drawings, including, but not limited to, errors in material and/or equipment quantities and any resulting errors, delays or additional cost in the performance of the Work. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any discrepancies or errors in shop diagrams and/or drawings submitted by the Contractor, and concerning any resulting errors, delays or additional costs in the performance of the Work.

SECTION 3 Control of Work and Material

3-1.01 Engineer's Status. The Engineer will administer the Project in accordance with the Contract Documents. After execution of the Contract and issuance of the Notice to Proceed, all correspondence and/or instructions concerning the Project between the Contractor and/or City must be forwarded through the Engineer. Except as otherwise provided in the Contract Documents, the Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, or procedures or for safety precautions in connection with the Work. The Engineer, however, will have authority to reject materials and/or workmanship that do not conform to the requirements of the Contract Documents. The Engineer will also have the authority to require inspection or testing of the Work.

3-1.02 Architect's Status. The Architect will advise the Engineer concerning decisions on all claims of the Contractor and all other matters relating to the execution and progress of the Work or the interpretation of the Contract Documents. The Architect will also advise the Engineer concerning Work that does not conform to the Contract Documents. Whenever, in the Architect's opinion, it is necessary or advisable in accordance with the Contract Documents, the Architect may recommend to the Engineer inspection or testing of the Work, whether or not such Work is then fabricated, installed or completed.

3-1.03 Inspection and Testing of Work and Material.

- a. The City, the Engineer, the Architect and their representatives will have access to the Work at all times wherever it is in preparation or progress. The Contractor must provide proper facilities for such access and for inspection.
- b. The Contractor must inspect all materials as delivered and promptly return all defective materials without waiting for their rejection by the Architect or Engineer.
- c. If the Engineer, the Technical Specifications, or any laws, ordinances, or any public authority require any Work to be tested or approved, the Contractor must give the Engineer timely notice of the Contractor's readiness for inspection. Inspections will be promptly made, and where practicable, at the source of supply. Any Work subject to such testing that is covered up without timely notice to the Engineer or without the approval or consent of the Engineer must, if required by the Engineer, be uncovered for examination at the Contractor's expense. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any Work subject to testing that is covered up or otherwise rendered inaccessible for inspection without timely notice to the Engineer and that is not uncovered for examination at the Contractor's expense if required by the Engineer.
- d. Tests of materials or qualification tests required by the Contract Documents must be made in accordance with the Technical Specifications and the requirements of the California Building Standards Code as adopted by the City and other applicable law. Copies of all testing reports will be distributed as required in the Technical Specifications.
- e. The City or its representatives may order re-examination of questioned Work. If ordered to do so, the Contractor must uncover such Work. If such Work is found to be according to the Contract Documents, the City will pay the cost of uncovering and

restoring the Work, unless such Work was subject to testing and covered up without timely notice to or approval of the Engineer. If re-examined Work is found not in accordance with the Contract Documents, the Contractor must pay the cost of uncovering and restoring the Work. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any re-examined Work not in accordance with the Contract Documents that the Contractor fails to uncover and restore at the Contractor's expense.

- f. The Contractor must replace or correct without charge any material or workmanship found not to conform to the requirements of the Contract Documents, unless the City consents to accept such material or workmanship with an appropriate adjustment in the Contract Price. The Contractor must promptly segregate and remove non-conforming material from the Work site. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any failure by the Contractor to replace or correct without charge any material or workmanship that does not conform to the requirements of the Contract Documents and that the City has not consented to accept.

3-1.04 Samples Furnished by the Contractor. The Contractor must furnish all samples for approval as directed in sufficient time to permit the Architect or Engineer to examine, approve and select samples before they are required by the progress of the Work. Portions of the Work for which samples are required and for which the Architect or Engineer has selected samples must be in accordance with such approved samples. Samples must be sent prepaid to the office of the Engineer or to such place as the Engineer may direct.

3-1.05 Materials and Substitutions.

- a. Materials used for the Work must be new and of the quality specified. When not particularly specified, materials must be the best of their class or kind. The Contractor must, if required, submit satisfactory evidence as to the kind and quality of materials.
- b. If the Contractor submitted complete information to the Public Works Department for products proposed as equals in accordance with the bid package, and the City approved such products proposed as equals in writing, the Contractor may either furnish such products approved as equals, or furnish the products listed by manufacturer name, brand or model number in the Technical Specifications or Project Plans. The City retains the right, in its sole discretion, to accept or reject any other proposed substitution. To be considered, proposals concerning products proposed as equals must include sufficient information to permit the City to determine whether the products proposed as equals will satisfy the same performance requirements as products listed by manufacturer's name, brand or model number. Such performance requirements may include, but are not limited to, size, strength, function, and appearance, ease of maintenance and repair, and useful life requirements. If the City does not accept a proposed substitution, the Contractor must furnish the product specified in the Technical Specifications or Project Plans for the Contract Price, regardless of whether the product is specified by manufacturer's name, brand or model number, or otherwise.
- c. During the performance of the Work, all materials must be neatly stacked, properly protected from the weather and other adverse impacts, and placed so as to avoid interference with efficient progress of the Work, with other activities of the City, or

with the use of existing City facilities by the public. Materials may not be stored in a manner that presents a safety hazard or a nuisance. All materials must be delivered so as to ensure efficient and uninterrupted progress of the Work. Materials must be stored so as to cause no obstruction and so as to prevent overloading of any portion of the Work. The Contractor will be responsible for damage or loss of materials delivered to and/or stored at the Work site due to weather or other causes. The Contractor must promptly remove from the Work site all materials rejected by the City or its representatives as failing to conform to the requirements of the Contract Documents, whether such non-conforming materials have been incorporated in the Work or not. If the City or its representatives so direct, the Contractor must promptly replace and re-execute Work performed by the Contractor and order the replacement and re-execution of Work performed by subcontractors using non-conforming materials with materials that satisfy the requirements of the Contract Documents without expense to the City. The Contractor will bear the expense of making good all Work destroyed or damaged by such removal. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any failure by the Contractor to replace or re-execute Work using non-conforming materials, and/or to make good all Work destroyed or damaged by such removal and/or execution.

- d. If any portion of the Work done or material furnished under this Contract proves defective and not in accordance with the Project Plans or Technical Specifications, and if the Engineer determines that the imperfection of the same is not of sufficient magnitude or importance to make the Work dangerous or undesirable, or if the removal of such Work, is impractical or will create conditions which are dangerous or undesirable, the Engineer may retain such Work, instead of requiring the imperfect Work to be removed and reconstructed, and make such deductions therefore in the payments due or to become due the Contractor as are just and reasonable.

3-1.06 Audit and Examination of Records. The City may examine and audit at no additional cost to the City all books, estimates, records, contracts, documents, bid documents, bid cost data, subcontract job cost reports and other Project related data of the Contractor, subcontractors engaged in performance of the Work, and suppliers providing supplies, equipment and other materials required for the Work, including computations and projections related to bidding, negotiating, pricing or performing the Work or Contract modifications and other materials concerning the Work, including, but not limited to, Contractor daily logs, in order to evaluate the accuracy, completeness, and currency of cost, pricing, scheduling and any other Project related data. The Contractor will make available all such Project related data at all reasonable times for examination, audit, or reproduction at the Contractor's business office at or near the Work site, and at any other location where such Project related data may be kept until three years after final payment under the Contract. Pursuant to California Government Code Section 8546.7, if the amount of public funds to be expended is in excess of \$10,000, this Contract will be subject to the examination and audit of the State Auditor, at the request of the City, or as part of any audit of the City, for a period of three (3) years after final payment under the Contract.

3-1.07 Advertising. No advertising signs of any kind may be displayed on the Work site, or on fences, offices or elsewhere adjacent to the Work site.

3-1.08 Project Schedule. Within ten (10) days after execution and delivery of the Contract, and prior to the issuance of the notice to proceed, the Contractor must deliver to the Engineer a bar chart and critical path (CPM) schedule detailing the Contractor's

intended schedule of Work for the entire Project. The schedules must be detailed to clearly show the relative sequence of the items of Work, their inter-relationships, start and completion dates, float, the critical path, and any other item deemed necessary by the Engineer. The schedule must allow for the completion of the entire Work within the Time for Completion.

- a. City Review of Schedule. The City may review the Contractor's submitted schedule and may note any exceptions. The Contractor must correct any exceptions noted by the City within five (5) working days of being notified of the exceptions.
- b. Update of Schedule. After submission of a schedule to which the City has taken no exceptions, the Contractor must submit an updated schedule on a monthly basis or as otherwise specified by the City until completion of the Work. The updated schedule must show the progress of Work as of the date specified in the updated schedule.
- c. Float. The schedule must show early and late completion dates for each task. The number of days between these dates will be designated as "Float". The Float will be designated to the Project and will be available to both the City and the Contractor as needed to complete the Work in accordance with the Contract.
- d. Failure to Submit Schedule. If the Contractor fails to submit schedules within the time periods specified in this Section, or submits a schedule to which the City has taken uncorrected exceptions, the City may withhold payments to the Contractor until such schedules are submitted and/or corrected in accordance with the Contract Documents.
- e. Responsibility for Schedule. The Contractor will be solely and exclusively responsible for creating the schedule and properly updating it. The City may note exceptions to any schedule submitted by the Contractor. However, the Contractor will be solely responsible for determining the proper method for addressing such exceptions and the City's review of the schedule will not create scheduling obligations of the City.

3-1.09 Construction Staking. The City will NOT provide construction staking services for this project. All Construction Staking work required for this Contract must be provided by the Contractor in conformance with the Project Plans, Technical Specifications, and applicable laws and regulations. All construction staking, layout, and survey work including establishment of horizontal and vertical control, setting grades, alignments, and locating all improvements shown on the contract documents shall be performed by a qualified person under the supervision of a licensed land surveyor or civil engineer authorized to practice land surveying in California. The Contractor shall verify all dimensions and conditions in the field prior to commencing work and shall notify the City of any discrepancies. The Contractor shall maintain accurate records of all layout work and shall make such records available to the City upon request.

All costs associated with construction staking and layout shall be considered incidental to the work and shall be included in the various contract items of work and no additional allowance will be made. The Contractor shall be responsible for the accuracy of all layout work and shall bear all costs associated with correcting errors resulting from inaccurate staking.

The Contractor shall carefully preserve bench marks, reference points, and stakes and in the case of willful or careless destruction, will be responsible for the cost of replacement and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance

3-1.10 Materials Testing. Materials will be tested by the City of Healdsburg or its authorized agent, following the Caltrans Standard Specifications. Statistical testing may not be used. All individual samples must meet the specified test results. Each material used must meet the specified requirements.

The Contractor must request and coordinate all testing. All tests must occur in the presence of the Project Inspector. The City will, at its sole discretion, have the right to reject any and/or all test results, that do not meet this requirement, and to order a retest in the presence of the Project Inspector. The costs for all retests so ordered will be the responsibility of the Contractor. The cost of all retests will be charged to the Contractor at the actual cost plus 30 percent, with a minimum charge of \$150.00 per test to cover staff and administrative costs.

The City, at its sole expense, will provide all initial material and compaction tests. Sampling and testing will comply with Chapter 3 of the Caltrans Construction Manual at a minimum. Where conditions vary, the City may perform additional testing. Cost for testing of materials offered in lieu of the specified materials will be the responsibility of the Contractor. Cost for R-value tests when required by the Caltrans Standard Specifications will be the responsibility of the Contractor.

Testing will only be performed on normal City working days between the hours of 8:00 a.m. and 4:00 p.m. unless other arrangements are made in advance. Tests performed outside of these hours may be subject to increased charges.

The Contractor must request all tests in writing a minimum of 2 working days in advance of the time desired. A minimum of one working day must be allowed for compilation and reporting of data and test results after tests have been performed. No subsequent layer of material may be placed until a passing test is obtained and acknowledged by the City.

Concrete and asphalt may be supplied only from suppliers approved and certified by the State Department of Transportation. Proposed mix designs for all concrete and asphalt concrete to be placed within the City of Healdsburg must be provided to and approved by the City, prior to placement.

The Contractor must coordinate with the City concerning any additional testing as required.

SECTION 4 Changes in Work

4-1.01 City Directed Change Orders. The City may at any time during the progress of the Work direct any amendments to the Work or any of the Contract Documents, including, but not limited to the Technical Specifications, or Project Plans. Such amendments will in no way void the Contract, but will be applied to amend the Contract Price, if such amendments affect the Contract Price, the Project schedule, if such amendments affect the Project schedule, or any other provision of the Contract Documents based on a fair and reasonable valuation of the amendment in accordance with this Section 4.

4-1.02 Writing Requirement. Change orders and other amendments to the Technical Specifications, the Project Plans, or other Contract Documents may be made only upon prior written approval of the Engineer and as evidenced by a writing executed by authorized representatives of the City and the Contractor.

4-1.03 Contractor Proposed Change Orders. Unless the Engineer otherwise authorizes or the City and the Contractor otherwise agree, change order proposals submitted by the Contractor must be submitted to the Engineer no later than the time of the proposed change.

4-1.04 All Change Orders. All change order proposals must be submitted on completed City Change Order forms. All such change order proposals must itemize all cost impacts of the proposed change order and include a total price for that change order and the amended Contract Price that would become effective upon execution of the change order. All change order proposals must specify any change in the Project schedule, or in any Project milestone including, but not limited to, the Time for Completion, under the change order. It is understood that change orders that do not specify a change in any milestone, including, but not limited to, the Time for Completion, may be accomplished by the Time for Completion then in effect.

4-1.05 Change Order Pricing. Change order pricing for all change orders, whether, additive, deductive, or both, will be governed by the following:

- a. Prices specified in the Contract Documents will apply to cost impacts involving items for which the Contract Documents specify prices.
- b. Cost impacts involving items for which the Contract Documents do not specify prices may be paid on a lump sum basis as approved by the City.
- c. For cost impacts involving items for which the Contract Documents do not specify prices, and for which no lump sum amount has been approved by the City, charges or credits for the Work will be paid on a time and materials basis in accordance with the following and subject to Caltrans Standard Specifications, provision 9-1.03 concerning allowable direct charges. The time and materials payment will be the sum of and limited to the direct and indirect costs for labor, materials, equipment and overhead calculated as follows:
 6. Labor: The Contractor will be paid the cost of labor for the workers (including foremen when authorized by the Engineer), used in the actual and direct performance of the Work. The cost of labor utilized in performing the Work, whether the employer is the Contractor, a subcontractor or other entity engaged in the performance of the Work, will be the sum of the following:

- **Actual Wages:** The actual wages paid will include any employer fringe benefit payments to or on behalf of the workers for health and welfare, pension, vacation and similar purposes. The actual wages and fringe benefits paid must be at the rates shown on the certified payroll documents submitted by the Contractor.
 - **Labor Surcharge:** The labor surcharge will be as set forth in the latest edition of the California Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates". The labor surcharge will constitute full compensation for all payments imposed by State or Federal laws and for all other payments made to, or on behalf of, workers engaged in the performance of the Work, excluding the Actual Wages as defined above.
 - **Fixed Markup:** A fixed markup of 33% of the sum of the actual wages paid and the labor surcharge applicable to such actual wages, together with the actual wage and labor surcharge costs described in this provision will constitute full and complete compensation for all overhead, profit, incidentals, and any and all other direct or indirect expenses associated with furnishing all labor for the Work.
7. **Materials:** Materials costs will be the direct costs for materials actually exhausted, consumed or entering permanently into the Work, plus a fixed markup of 15% of such direct materials costs, which, together with the direct cost of materials as described in this provision will constitute full and complete compensation for all overhead, profit, incidentals, and any and all other direct or indirect expenses associated with furnishing all materials for the Work.
 8. **Equipment:** All equipment used will be paid in accordance with the rates in subsection 9-1.04D entitled "Equipment Rental" of the Caltrans Standard Specifications, which subsection 9-1.04D is made a part of this Contract, plus a fixed markup of 10% of such equipment rates, which, together with the equipment rates as described in this provision will constitute full and complete compensation for all overhead, profit, incidentals, and any and all other direct or indirect expenses associated with furnishing all equipment for the Work.
 9. Unless approved in writing in accordance with provision 4-1.02 of this Contract in advance of performance of the Work, any and all other cost impacts (including, but not limited to profit, bond premiums or fees, insurance premiums or fees, superintendent labor, clerical expenses, home office expenses, Work site office expenses, utility costs, permit costs, and licensing costs) involving items for which the Contract Documents do not specify prices, and for which no lump sum amount has been approved by the City, will constitute incidentals, full compensation for which will be deemed included in the markups for labor, material, and equipment specified above, and no additional compensation for such cost impacts will be allowed.

4-1.06 Liability Under Unapproved Change Orders. The Contractor will be solely responsible for any and all losses, costs, or liabilities of any kind incurred by the

Contractor, any subcontractor engaged in the performance of the Work, any party supplying material or equipment for the Work or any third party that are incurred pursuant to Contractor-proposed change orders prior to issuance of an approved change order executed in accordance with this Section 4. The Contractor will have all of the obligations and the City will have all of the rights and remedies that are specified in Section 11 concerning any work or resulting losses, costs, or liabilities pursuant to a Contractor proposed change order before issuance of an approved change order executed in accordance with this Section 4.

4-1.07 Changes Subject to Contract Documents. Any changes in the Work and/or the Contract Documents pursuant to change orders and any other amendments issued in accordance with the Contract Documents, including this Section 4, will in all respects be subject to all provisions of the Contract Documents, including, but not limited to, the Technical Specifications and the Project Plans, except as modified by such change orders or amendments.

4-1.08 Change Order Disputes.

- a. Disputed City-Directed Change Orders. If the Contractor disputes a City directed change order following a reasonable effort by the City and the Contractor to resolve the dispute including, at a minimum, a meeting between appropriate representatives of the Contractor and the City, the Contractor must commence performing the Work consistent with the disputed change order within five (5) working days of the last meeting between representatives of the Contractor and the City to resolve the dispute, or within the time specified in the disputed City directed change order, whichever is later. In performing Work consistent with a disputed City-directed change order pursuant to this provision the Contractor will have all of the Contractor's rights concerning claims pursuant to the Contract Documents and applicable law.
- b. Disputed Contractor Proposed Change Orders. If the City disputes a Contractor proposed change order, the City and the Contractor will use reasonable efforts to resolve the dispute including, at a minimum, holding a meeting between appropriate representatives of the Contractor and the City. Regardless of and throughout any such efforts to resolve the dispute the Contractor must continue performing the Work irrespective of and unmodified by the disputed change order. In continuing to perform the Work, the Contractor will retain all of the Contractor's rights under contract or law pertaining to resolution of disputes and protests between contracting parties. Disputes between the City and the Contractor concerning any Contractor-proposed change order or other amendment do not excuse the Contractor's obligation to perform the Work in accordance with the Contract Documents excluding such Contractor-proposed change order or other amendment by the Time for Completion or waive any other Project milestone or other requirement of the Contract Documents.

SECTION 5 Trenching and Utilities

5-1.01 Excavation More Than Four Feet Deep. In accordance with California Public Contract Code Section 7104, if the Work involves excavation more than four feet deep the Contractor must promptly notify the City in writing before disturbing: any material that the Contractor believes may be 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; any subsurface or latent physical conditions at the Work site differing from those indicated; or any unknown physical conditions at the Work 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 Documents. The City will promptly investigate any such conditions for which notice is given. If the City finds that the conditions do materially differ, or involve hazardous waste, and would cause a decrease or increase in the cost or time of performance of the Work, the City will issue a change order pursuant to Section 4 of these General Provisions. If a dispute arises between the City and the Contractor concerning whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the cost or time of performance, the Contractor will not be excused from any completion date provided in the Contract Documents, but will proceed with all Work to be performed. The Contractor will retain all rights under contract or law pertaining to resolution of disputes and protests between contracting parties.

5-1.02 Excavation of Five Feet or More. In accordance with California Labor Code Section 6705, contractors performing contracts exceeding \$25,000 in cost and involving excavation five or more feet deep must submit for the City's acceptance, prior to excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during excavation. If the plan varies from the shoring system standards, it must be prepared by a registered civil or structural engineer.

5-1.03 Utility Relocation Costs.

- a. In accordance with California Government Code Section 4215, the City assumes the responsibility for the timely removal, relocation or protection of existing main or trunk line utility facilities located on the Work site if such utilities are not identified by the City in the Technical Specifications and/or Project Plans. The City will compensate the Contractor for the costs of locating, repairing damage not due to the Contractor's failure to exercise reasonable care, and removing or relocating existing main or trunk line utility facilities located at the Work site and not identified with reasonable accuracy in the Technical Specifications and/or Project Plans. The City will also compensate the Contractor for the cost of equipment on the Project necessarily idled during such work. The Contractor will not be assessed liquidated damages for Work completion delays caused by the City's failure to provide for removal or relocation of such main or trunk line utility facilities.
- b. Nothing in this provision or the Contract Documents will be deemed to require the City to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the Work site can be inferred from the presence of other visible facilities, such as buildings, meter and junction boxes, cleanouts, on or adjacent to the Work site; provided, however, that nothing in this provision or the Contract Documents will relieve the City from identifying main or trunk lines in the Technical Specifications and/or Project Plans.

- c. Nothing in this provision or the Contract Documents will preclude the City from pursuing any appropriate remedy against the utility for delays, which are the responsibility of the utility.
- d. Nothing in this provision or the Contract Documents will be construed to relieve the utility from any obligation as required either by law or by contract to pay the cost of removal or relocation of existing utility facilities.
- e. If the Contractor while performing the Work discovers utility facilities not identified by the City in the Technical Specifications and/or Project Plans, the Contractor must immediately notify the City and utility in writing.
- f. Either the City or the utility, whichever owns existing main or trunk line utility facilities located on the Work site, will have sole discretion to effect repairs or relocation work or to permit the Contractor to perform such repairs or relocation work at a reasonable price.

5-1.04 Protection of Existing Facilities and Property.

The Contractor must notify Underground Service Alert (USA) for marking the locations of existing underground facilities.

Subject to Section 5 of the General Provisions, the Contractor must take all necessary measures to avoid injury to existing surface and underground utility facilities in and near the Work site. Subject to Section 5 of the General Provisions, no error or omission of utility markouts will be construed to relieve the Contractor from his responsibility to protect all underground pipes, conduits, cables or other structures affected by the work.

The existing underground facilities in the area of Work may include telephone, television and electrical cables, gas mains, water mains, sewer pipe and drainage pipe. The various utility companies must be notified before trenching begins and at such other times as required to protect their facilities. Subject to Section 5 of the General Provisions, all underground facilities must be located and exposed ahead of trenching to prevent damage to the facilities, and to determine the depth and character of all facilities that cross or infringe on the trench prism. The Contractor must immediately notify the Engineer of any facilities found. If damage should occur to the existing facilities, the utility company and the City must be notified immediately and, subject to Section 5 of the General Provisions, repairs acceptable to the utility company must be made at the Contractor's expense.

The Project Plans show the underground utilities on the site of the construction insofar as they are known to the City. The drawings may not show facilities apparent from visual inspection of the site or service laterals or appurtenances, the existence of which can be inferred from the presence of other visible facilities such as buildings, meters, junction boxes, etc. on or adjacent to the construction site.

If in the performance of the Work an existing utility is encountered that is not shown on the Project Plans and is not apparent or inferable from visual inspection of the Work site, the Inspector must be notified immediately. The Engineer will determine, subject to Section 5 of the General Provisions, whether the Project Plans or Technical Specifications should be modified, or whether the existing utility should be relocated or

whether the Contractor must work around the existing utility. Subject to Section 5 of the General Provisions, the Contractor must replace, at his or her own expense, in as good condition as they were prior to the start of construction, all existing improvements and surroundings damaged by his or her operation. Reconstruction of all existing improvements must conform to City of Healdsburg Public Works Standard Specifications and Details under the direction of and subject to the acceptance by the Engineer.

Subject to Section 5 of the General Provisions, should the Contractor fail to take adequate measures to avoid injury or damage to the facilities described above, the City may take any actions necessary to protect such facilities from the Contractor's operations. Subject to Section 5 of the General Provisions, the City may withhold the cost of injury to existing surface and underground utility facilities in and near the Work site from amounts due or that may become due the Contractor.

SECTION 6 Project Facilities

6-1.01 Work Site Offices. Any Work site office facilities used by the Contractor and/or its privities must conform to all applicable codes, ordinances and regulations. The cost of such Work site office facilities will be paid from and included in the Contract Price.

6-1.02 City Rights of Access and Ownership. The City and its authorized representatives will at all reasonable times while such office facilities are located at the Work site (including, at a minimum, all times during which the Work is performed), have access to any such Work site office facilities used by the Contractor and/or its privities. With respect to the right of access of the City and its authorized representatives, neither the Contractor nor its privities will have a reasonable expectation of privacy pursuant to the Fourth Amendment to the Unites States Constitution or other applicable law concerning such Work site office facilities used by the Contractor and/or its privities. Without exception, any and all Project related materials located at such Work site facilities will be deemed at all times to be City property subject to inspection and copying by the City and its authorized representatives at all reasonable times while such facilities are located at the Work site (including, at a minimum, all times during which the Work is performed). Any interference by the Contractor or its privities with the City's rights of access and/or ownership pursuant to this Section 6 will constitute a material breach of the Contract subject to any and all remedies available pursuant to the Contract Documents and at law and equity.

SECTION 7 Prosecution and Progress of the Work

7-1.01 Liquidated Damages. For the purposes of this Contract time is of the essence. The City and the Contractor agree that it will be difficult and/or impossible to determine the actual damage which the City will sustain in the event of the Contractor's failure to fully perform the Work or to fully perform all of the Contractor's obligations that have accrued pursuant to the Contract by the Time for Completion. Accordingly, the City and the Contractor agree in accordance with California Government Code Section 53069.85 that the Contractor will forfeit and pay to the City liquidated damages in the sum of \$500 per day for each and every calendar day completion of the Work and/or performance of all of the Contractor's obligations that have accrued pursuant to the Contract is delayed beyond the Time for Completion. The City and the Contractor further agree in accordance with California Government Code Section 53069.85 that the liquidated damages sum specified in this provision is not manifestly unreasonable under the circumstances existing at the time the Contract was made, and that the City may deduct liquidated damages sums in accordance with this provision from any payments due or that may become due the Contractor under the Contract.

7-1.02 No Damage for Avoidable Delays. All delays in the Work that might have been avoided by the exercise of care, prudence, foresight and diligence of the Contractor or any privities of the Contractor will be deemed avoidable delays. Delays in the Work that may be unavoidable but that do not necessarily affect other portions of the Work or prevent completion of all Work within the Time for Completion, including, but not limited to, reasonable delays in Engineer approval of shop drawings, placement of construction survey stakes, measurements and inspection, and such interruption as may occur in prosecution of the Work due to reasonable interference of other contractors of the City, will be deemed avoidable delays. The Contractor will not be awarded a change in the Project schedule, the Time for Completion, and/or additional compensation in excess of the contract price for avoidable delays.

7-1.03 Unavoidable Delays. All delays in the Work that result from causes beyond the control of the Contractor and that the Contractor could not have avoided through exercise of care, prudence, foresight, and diligence will be deemed unavoidable delays. Orders issued by the City changing the amount of Work to be done, the quantity of materials to be furnished, or the manner in which the work is to be prosecuted, and unforeseen delays in the prosecution of the Work due to causes beyond the Contractor's control, such as strikes, lockouts, labor disturbances, fires, epidemics, earthquakes, acts of God, neglect by utility owners or other contractors that are not privities of the Contractor will be deemed unavoidable delays to the extent they actually delay the Contractor's completion of the Work. The Contractor will be awarded a change in the Project schedule, the Time for Completion, and/or additional compensation in excess of the contract price for unavoidable delays to the extent such delays actually delay the Contractor's completion of the Work and/or result in the Contractor incurring additional costs in excess of the Contract Price.

Delay due to normal, adverse weather conditions will not be deemed unavoidable. The Contractor should understand that normal adverse weather conditions are to be expected and plan the Work accordingly, such as by incorporating into the Project schedule normal, adverse weather delays as reflected in historical data of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce for the weather station most applicable to the Work site.

7-1.04 No Damage for Contractor Caused Delay. Contractor will not be entitled to additional compensation for extended field or home office overhead, field supervision, costs of capital, interest, escalation charges, acceleration costs or other impacts for any delays to the extent such delays are caused by the failure of the Contractor or any subcontractor or other entity engaged in performance of the Work to perform the Work in accordance with the Contract Documents.

7-1.05 No Damage for Delay Not Caused By the City, Delay Contemplated by the Parties, or other Reasonable Delay. Contractor will not be entitled to damages for delay to the Work caused by the following, which the City and Contractor agree will be deemed for purposes of California Public Contract Code Section 7102 either not caused by the City, and/or within the contemplation of the City and the Contractor, and/or reasonable under the circumstances:

- a. Exercise of the City's right to sequence the Work in a manner that would avoid disruption to the City and other contractors based on: the failure of the Contractor or any subcontractor or other entity engaged in the performance of the Work to perform the Work in accordance with the Contract Documents, enforcement by the City or any other governmental agency of competent jurisdiction of any government act or regulation, or enforcement by the City of any provisions of the Contract.
- b. Requests for clarification or information concerning the Contract Documents or proposed change orders or modifications to the Contract Documents, including extensive and/or numerous such requests for clarification or information or proposed change orders or modifications, provided such clarifications or information or proposed change orders or modifications are processed by the City or its representatives in a reasonable time in accordance with the Contract Documents.

7-1.06 Delays Caused by the City and/or It's Privities. Delay caused by the City and/or other contractors of the City will be deemed unavoidable delays. Either the City or the Contractor may propose a change in the Time for Completion and/or the Project schedule for delays that are purported to be caused by the City and/or its privities and that are not reasonable under the circumstances involved and/or that are not within the contemplation of the City and the Contractor. Such proposed changes in the Time for Completion will constitute change order proposals subject to Section 4. In accordance with Section 4, the City and the Contractor may agree upon pricing for the cost impacts, if any, resulting from such delays. If such pricing and/or changes in the Time for Completion and/or the Project schedule are in anticipation of impacts that may, but have not yet occurred, the City will be obligated to pay the Contractor for such anticipated impacts or to award a change in the Time for Completion and/or the Project schedule in accordance with the Contract and any applicable, approved change orders only to the extent the Contractor actually incurs the anticipated impacts. Notwithstanding anything to the contrary in Section 4, the City and the Contractor may agree to a daily rate or cap or lump sum that will apply to the cost impacts, if any, resulting from delay purportedly caused by the City and/or its privities subject to this provision. However, if such daily rate or cap or lump sum is in anticipation of cost impacts that have not yet occurred, the City will be obligated to pay such daily rate or cap or lump sum only to the extent the Contractor actually incurs such cost impacts.

7-1.07 Delay Claims. Whenever the Contractor claims a delay for which the Time for Completion may be extended, the Contractor must request an extension of time within five (5) days of the start of the delay. The request must be in writing and describe in detail the cause for the delay, and, if possible, the foreseeable extent of the delay.

7-1.08 Contractor Coordination of the Work.

- a. The City reserves the right to do other work in connection with or in the vicinity of the Project by contract or otherwise, and Contractor must at all times conduct the Work so as to impose no hardship on the City, others engaged in the Work or other contractors working at the Work site. The Contractor will adjust, correct and coordinate the Work with the work of others so that no delays result in the Work or other work at or near the Work site.
- b. If any part of the Work depends for proper execution or results upon the work of the City or any other contractor, the Contractor will, before proceeding with such Work, promptly report to the City any apparent discrepancies or defects in such other Work. Failure of the Contractor to promptly report any apparent discrepancy or defect will be deemed an acceptance of the City's or other contractor's Work as fit and proper.
- c. The Contractor will anticipate the relations of the various trades to the progress of the Work and will ensure that required anchorage or blocking is furnished and set at proper times. Anchorage and blocking necessary for each trade will be part of the Work except where stated otherwise.
- d. The Contractor will provide proper facilities at all times for access of the City, the Engineer, Architect, and other authorized City representatives to conveniently examine and inspect the Work.

SECTION 8 Contractor Responsibilities

8-1.01 Eligibility. By executing the Contract, the Contractor certifies that the Contractor is not ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7. In accordance with California Public Contract Code Section 6109(a), contractors who are ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7 may neither bid on, be awarded or perform the Work. To the full extent permitted by law the Contractor will hold harmless, indemnify and defend the City from and against any and all damages, costs, and liability arising from or as a consequence of any violation of Public Contract Code Section 6109.

8-1.02 Supervision of the Work. The Contractor will be solely responsible for the performance of the Work, including portions of the Work to be performed by subcontractors. The Contractor is charged with ensuring that all orders or instructions from the City, Engineer or Architect are disseminated to and followed by all subcontractors engaged in performance of the Work. The Contractor will supervise the Work using the Contractor's best skill and attention. At any time during the progress of the Work, the City, the Engineer, or the Architect may require the Contractor and/or subcontractors engaged in performance of the Work to attend a Project meeting and the Contractor will attend, and ensure the attendance of any subcontractors whose attendance is required by the City and/or advisable in light of the matters to be addressed at the meeting.

8-1.03 Contractor's Superintendent. The Contractor will keep on the Work, throughout its progress, a competent superintendent and any necessary assistants, all satisfactory to the City. The superintendent may not be changed without the consent of the City. The superintendent will represent the Contractor and all directions given by the City to the superintendent will bind the Contractor in accordance with the Contract. Superintendent time included in Contractor's completed bid schedule and/or in approved change orders, if any, must be included in Contractor's approved overhead rate and may not be charged as a direct cost.

8-1.04 Competent Employees. The Contractor must at all times enforce strict discipline and good order among the Contractor's employees and may not employ on the Work any unfit person or anyone not skilled in the Work assigned, or anyone incompetent or unfit for the duties of that person. When the City determines that a Contractor employee does not satisfy the requirements of this provision, upon notice from the City, the Contractor must ensure that employee performs no further Work and is no longer present at the Work site. Any such Contractor employee may not again be employed on the Work without City approval.

8-1.05 Items Necessary for Proper Completion of the Work. Except as otherwise noted in the Contract Documents, the Contractor will provide and pay for all labor, materials, equipment, permits, fees, licenses, facilities and services necessary for the proper execution and timely completion of the Work in accordance with the Contract Documents.

8-1.06 Subcontracting.

- a. The Contractor must perform with his or her own organization, a value of work amounting to not less than fifty percent (50%) of the contract amount, except that the bid amount for subcontracted "Specialty Items" if so designated in any Special

Provisions may be eliminated from the contract amount and not considered as sub-contracted for the purposes of calculating the value of work to be performed by the Contractor. For the purposes of determining the value of work to be performed by the Contractor pursuant to this provision, materials, equipment, incidentals, etc., shall be considered to have been purchased by the contractor or subcontractor that is to install them. Where a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated cost of such portion of the subcontracted item, as determined from information submitted by the Contractor, subject to approval by the Engineer.

- b. By executing the Contract, the Contractor certifies that no subcontractor included on the list of proposed subcontractors submitted with the Contractor's bid is ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7. In accordance with California Public Contract Code Section 6109(a), subcontractors who are ineligible to perform work on public works projects pursuant to California Labor Code Sections 1777.1 or 1777.7 may neither bid on, be awarded or perform as a subcontractor on the Work. In accordance with California Public Contract Code Section 6109(b), any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. The Contractor will ensure that no debarred subcontractor receives any public money for performing the Work, and any public money that may have been paid to a debarred subcontractor for the Work is returned to the City. The Contractor will be responsible for payment of wages to workers of a debarred subcontractor who has been allowed to perform the Work.
- c. The Contract and the performance of the Work are subject to the requirements of the Subletting and Subcontracting Fair Practices Act codified at California Public Contract Code Section 4100 and following. If the Contractor fails to specify a subcontractor or specifies more than one subcontractor for the same portion of the Work in excess of one-half of 1 percent of the Contractor's total bid, the Contractor agrees that the Contractor is fully qualified to perform that portion of the Work with the Contractor's own forces, and that the Contractor will perform that portion of the Work with the Contractor's own forces. If after award of the Contract the Contractor subcontracts, except as provided for in California Public Contract Code Sections 4107 or 4109, any such portion of the Work, the Contractor will be subject to the penalties set forth in California Public Contract Code Sections 4110 and 4111, including cancellation of the Contract, assessment of a penalty of up to 10 percent of the amount of the subcontract, and disciplinary action by the Contractors State License Board.
- d. No contractual relationship exists between the City and any subcontractor engaged in performance of the Work.
- e. Incorporation of Contract Documents. Contractor agrees to include with all subcontractors in their subcontract the same requirements and provisions of this Contract including the indemnity and insurance requirements to the extent they apply to the scope of the Subcontractor's work. Subcontractors hired by Contractor agree to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under the Contract Documents. Subcontractor further agrees to include these same provisions with any sub-subcontractor. A copy of the City's Contract Document indemnity and insurance provisions will be furnished to the subcontractor upon request. The Contractor shall require all sub-contractors to provide a valid certificate of insurance and the required endorsements included in the

agreement prior to commencement of any work and contractor will provide proof of compliance to the City. The Contractor will be solely responsible for any delay or additional costs incurred as a result of its failure to provide adequate or accurate Project information to a subcontractor that results in improper submittals and/or Work, or time or other impacts. The Contractor will have all of the obligations and the City will have all of the remedies that are specified in Section 11 concerning any delay or additional costs incurred due to failure of the Contractor to provide adequate and accurate Project information to subcontractors.

- f. Coordination of Subcontract Work: The Contractor is responsible for scheduling the Work of subcontractors so as to avoid delay or injury to either Work or materials.
- g. Subcontractor agrees to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under the Contract Documents. Subcontractor further agrees to include the same requirements and provisions of this agreement, including the indemnity and Insurance requirements, with any sub-subcontractor to the extent they apply to the scope of the sub-subcontractor's work. A copy of the City's Contract Document indemnity and insurance provisions will be furnished to the Subcontractor upon request.

8-1.07 Insurance.

- a. All required insurance must be provided in the form of "occurrence"-type policies underwritten by admitted insurers in the State of California with a rating of A or better from the current year Best Rating Guide. All policies must be issued at the expense of the Contractor and must be maintained at the Contractor's expense throughout the performance of the Work. Contractor shall maintain insurance as required by this contract to the fullest amount allowed by law and shall maintain insurance for a minimum of 2 years following the completion of this project. In the event contractor fails to obtain or maintain completed operations coverage as required by this Contract, the City at its sole discretion may purchase the coverage required and the cost will be paid by Contractor.
- b. Contractor agrees to include with all subcontractors in their subcontract the same requirements and provisions of this contract including the indemnity and Insurance requirements to the extent they apply to the scope of the Subcontractor's work. Contractor shall require all sub-contractors to provide a valid certificate of insurance and the required endorsements included in the Contract prior to commencement of any work and Contractor will provide proof of compliance, upon request, to the City.
- c. Subcontractor hired by the Contractor agree to be bound to the Contractor and the City in the same manner and to the same extent as Contractor is bound to the City under the Contract. Subcontractor further agrees to include the same requirements and provisions of this Contract, including the Indemnity and Insurance requirements, with any Subcontractor to the extent they apply to the scope of the Subcontractor's work. A copy of the Contract Indemnity and Insurance provisions will be furnished to the Subcontractor upon request
- d. The Contractor and any Subcontractors engaged in performance of the Work must secure payment of workers compensation in accordance with California Labor Code Section 3700 and other applicable law. The Contractor must verify that all Subcontractors comply with this requirement.

- e. Within ten working days following the Notice of Award, the Contractor must submit to the City acceptable certificates of insurance, declarations page(s) and endorsements evidencing that the Contractor has the required insurance in effect and will maintain it throughout the performance of the Work, and beyond as applicable, the following kinds and amounts of insurance:

- 1. The minimum limits of the Commercial General Liability (including bodily injury, personal injury and property damage) insurance shall be:
 - \$10,000,000 aggregate
 - \$5,000,000 occurrence

If the work to be performed involves any excavation, the policy shall include an endorsement that affords coverage for explosion, collapse and underground hazards.

- 2. If the work to be performed involves vehicles or vehicular equipment, the Automobile insurance limit shall be:
 - \$2,000,000 per accident for bodily injury and property damage

3. Automobile coverage should be at least as broad as Insurance Services Automobile Liability form CA 0001 Code 1 (“any auto”). No endorsement may be attached limiting the coverage. Anything less than ‘any auto’ coverage must be approved by the Risk Manager prior to approval. If the Risk Manager accepts anything less than ‘any auto’, additional information such as a schedule of covered autos, proof of personal auto liability coverage, or verification statement may be required by the City.

4. Worker’s Compensation Insurance. Proof of Workers Compensation and Employers Liability insurance as required by any applicable law, regulation or statute, including the provisions of Division IV of the Labor Code of the State of California, and any act or acts amending it. Worker’s compensation insurance must be for Statutory Limits and must cover the full liability of the Contractor. The Contractor’s Employer’s Liability Insurance must be in an amount no less than \$1,000,000.00 per occurrence. The workers’ compensation policy must be endorsed with a waiver of subrogation. The insurance company, in its endorsement, must agree to waive all rights of subrogation against the City, its officers, officials, employees, agents and volunteers for losses paid under the terms of such policy.

5. Umbrella/Excess Policy. The limits of insurance required under this Contract may be satisfied by a combination of primary and umbrella or excess Insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of City (if agreed to in a written contract or agreement) before the City’s own insurance or self-insurance shall be called upon to protect it as a named insured.

- f. Additional Requirements

- i. Endorsements must add the City, its officials, officers, employees, agents and volunteers as an additional insured (“Additional Insured”). Examples of City approved insurance forms are included in this package. If the Contractor provides policy pages or broad forms of endorsement the

insurance carrier will be asked to sign, initial and date all applicable sections of the document which conveys coverage to the City.

- ii. It shall be a requirement under this Contract that any available insurance proceeds broader than or in excess of the specified minimum Insurance coverage requirements and/or limits shall be available to the Additional Insured. Furthermore, the requirements for coverage and limits shall be (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any Insurance policy or proceeds available to the name insured; which ever greater.
 - iii. The Additional Insured coverage under the Contractor's policy shall be "primary and non-contributory" and Contractor will not seek contribution from the City of Healdsburg's insurance or self-insurance and shall be at least as broad as CG 20 01 04 13.
 - iv. The Contractor shall provide the City with a 30 day written notice of any reduction or cancellation of such insurance required to be furnished by the Contractor; and include a severability of interest clause acceptable to the City and if requested by the City.
 - v. If an Umbrella or Excess Policy is used to satisfy the requirements, an endorsement form must be provided from the insurance carrier/broker and that Umbrella/Excess Policy 'follows form' or is 'continuous' to the General liability and/ Auto liability policy in addition to the required endorsement.
 - vi. The City will provide examples of approved standard and preferred forms of endorsements. If the Contractor's insurance carrier chooses to use forms other than the City's approved forms, such forms shall be subject to the prior approval of the City. If the Contractor provides policy pages instead of an endorsement the insurance agent/broker will be asked to sign, initial and date all applicable sections of the policy that meet the City's insurance requirements.
- g. All self-insured retentions (SIR) must be disclosed to City for approval and shall not reduce the limits of liability. Policies containing any self-insured retention (SIR) provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named Insured or the City, The City reserves the right to obtain a full certified copy of any Insurance policy and endorsements. Failure to exercise this right shall not constitute a waiver of right exercise later.

Contractor's failure to provide insurance certificates and endorsement forms that are acceptable to the City within ten (10) days of notice of award of contract shall:

- i. constitute a failure to complete the "Contract Documents Checklist" as described on page 39
- (ii) entitle the City to rescind any contract award
- (iii) result in a forfeiture of Contractor's bid bond or other form of bid security.

- h. Contractor must continue to provide approved forms of insurance certificates, declarations page(s) and endorsements that meet the requirements of Section 8-1.07 of the Contract Documents for 2 years following recordation of a Notice of Completion or other form of notice of project completion provided by City.

CITY APPROVED STANDARD CERTIFICATE FORM

CERTIFICATE OF INSURANCE				ISSUE DATE (MM/DD/YYYY)		
CITY OF HEALDSBURG (the "City")						
PRODUCER			THIS CERTIFICATE OF INSURANCE IS NOT AN INSURANCE POLICY AND DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.			
INSURED			COMPANY LETTER		COMPANIES	
			A		BEST'S RATING	
			B			
			C			
			D			
E						
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	ALL LIMITS IN THOUSANDS	
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT. <input type="checkbox"/> OTHER _____				GENERAL AGGREGATE	\$
					PRODUCTS-COMP/OPS AGGREGATE	\$
					PERSONAL & ADVERTISING INJURY	\$
					EACH OCCURRENCE	\$
					FIRE DAMAGE (ANY ONE FIRE)	\$
					MEDICAL EXPENSE (Any One Person)	\$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				COMBINED SINGLE LIMIT	\$
					BODILY INJURY (PER PERSON)	\$
					BODILY INJURY (PER ACCIDENT)	\$
					PROPERTY DAMAGE	\$
	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE	\$
					AGGREGATE	\$
	<input type="checkbox"/> WORKER'S COMPENSATION & EMPLOYER'S LIABILITY				STATUTORY	\$
					EACH ACCIDENT	\$
					DISEASE-POLICY LIMIT	\$
					DISEASE-EACH EMPLOYEE	\$
	PROPERTY INSURANCE <input type="checkbox"/> COURSE OF CONSTRUCTION				AMOUNT OF INSURANCE	\$
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / RESTRICTIONS / SPECIAL ITEMS						
THE FOLLOWING PROVISIONS APPLY:						
1. None of the above-described policies will be canceled until after 30 days' written notice has been given to the City at the address indicated below.						
2. The City, its officials, officers, employees, volunteers and agents are added as insureds on all liability						
CERTIFICATE HOLDER / ADDITIONAL INSURED				AUTHORIZED REPRESENTATIVE		
CITY OF HEALDSBURG 401 GROVE STREET HEALDSBURG, CA 95448				SIGNATURE		
				TITLE		
				PHONE NO.		

CITY APPROVED STANDARD ENDORSEMENT FORM

INSURER POLICY NO. ENDORSEMENT NO:	ISO FORM CG 20 26 11 85 (MODIFIED) COMMERCIAL GENERAL LIABILITY EXHIBIT 1-C
<p>THIS ENDORSEMENT CHANGES THE POLICY, PLEASE READ IT CAREFULLY</p> <p>ADDITIONAL INSURED - DESIGNATED PERSON OR ORGANIZATION</p>	
This endorsement modifies insurance provided under the following:	
<p>COMMERCIAL GENERAL LIABILITY COVERAGE PART.</p> <p>SCHEDULE</p> <p>Name of Person or Organization:</p> 	
(If no entry appears above, the information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement).	
WHO IS INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule as an insured but only with respect to liability arising out of your operations or premises owned or rented to you.	
<p><u>Modifications to ISO for CG 20 26 11 85:</u></p> <ol style="list-style-type: none"> 1) "Operation" includes the named insured's products. 2) The insured scheduled above includes the Insured's officers, officials, employees, volunteers and agents. 3) This insurance shall be primary as respects the insured shown in the schedule above, or if excess, shall stand in an unbroken chain of coverage excess of the Named Insured's scheduled underlying primary coverage. In either event, any other insurance maintained by the Insured scheduled above shall be in excess of this insurance and shall not be called upon to contribute with it. 4) The insurance afforded by this policy shall not be canceled except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Agency. 	
Signature - Authorized Representative _____	
Address _____ _____ _____	

CITY APPROVED STANDARD ENDORSEMENT FORM

AUTOMOBILE LIABILITY SPECIAL ENDORSEMENT		
For the City of Healdsburg	ENDORSEMENT NO.	ISSUE DATE (DD/MM/YYYY)
PRODUCER	POLICY INFORMATION	
	Insurance Company:	
	Policy No:	
	Policy Period: (from) (to)	
	LOSS ADJUSTMENT EXPENSE <input type="checkbox"/> Included in Limits	
	<input type="checkbox"/> In Addition to Limits	
Telephone	<input type="checkbox"/> Deductible <input type="checkbox"/> Self-Insured Retention (check which) of \$ _____	
NAMED INSURED	<p>APPLICABILITY. This insurance pertains to the operation and/or tenancy of the named insured under all written agreements and permits in force with the City unless checked here p in which case only the following specific agreements and permits with the City are covered:</p> <p>City AGREEMENTS / PERMITS</p>	
TYPE OF INSURANCE	OTHER PROVISIONS	
<input type="checkbox"/> COMMERCIAL AUTO POLICY		
<input type="checkbox"/> BUSINESS AUTO POLICY		
<input type="checkbox"/> OTHER _____		
LIMIT OF LIABILITY	CLAIMS: Underwriter's representative for claims pursuant to this insurance.	
\$ _____ per accident, for bodily injury and property damage.	Name: _____	
	Address: _____	
	Telephone: () _____	
<p>In consideration of the premium charged and notwithstanding any inconsistent statement in the policy to which this endorsement is attached or any endorsement now or hereafter attached thereto, it is agreed as follows:</p> <p>2. CONTRIBUTION NOT REQUIRED. As respects work performed by the Named Insured for or on behalf of the City the insurance afforded by this policy shall: (a) be primary insurance as respects the City, its officers, officials, employees, volunteers and agents; or (b) stand in an unbroken chain of coverage excess of the Named Insured's primary coverage. Any insurance or self-insurance maintained by the City its officers, officials, employees, volunteers and agents shall be excess of the Named Insured's insurance and not contribute with it.</p> <p>3. CANCELLATION NOTICE. With respect to the interests of the City this insurance shall not be cancelled, except after thirty (30) days prior written notice by receipted delivery has been given to the City</p> <p>4. SCOPE OF COVERAGE. This policy affords coverage at least as broad as: (1) If primary, Insurances Services Office form number CA0001 (Ed. 1/87), Code 1 ("any auto"); or (2) If excess, affords coverage which is at least as broad as the primary insurance forms referenced in the preceding section (1).</p> <p>Except as stated above nothing herein shall be held to waive, alter or extend any of the limits, conditions, agreements or exclusions of the policy to which this endorsement is attached.</p>		
ENDORSEMENT HOLDER	AUTHORIZED REPRESENTATIVE	
	<input type="checkbox"/> Broker / Agent <input type="checkbox"/> Underwriter <input type="checkbox"/> _____	
THE CITY OF HEALDSBURG 401 GROVE STREET HEALDSBURG, CA 95448	I _____ (print / type name), warrant that I have authority to bind the above-mentioned insurance company and by my signature hereon do so bind this company to this endorsement.	
	Signature _____	
	Telephone () _____	Date Signed _____

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – AUTOMATIC STATUS FOR OTHER
PARTIES WHEN REQUIRED IN WRITTEN
CONSTRUCTION AGREEMENT**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. Section II – Who Is An Insured is amended to include as an additional insured:

1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy; and
2. Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph 1. above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

- a. Your acts or omissions; or
- b. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured described above:

- a. Only applies to the extent permitted by law; and
- b. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when your operations for the person or organization described in Paragraph 1. above are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
 - a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of, or the failure to render, any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:
 - a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement described in Paragraph A.1.; or

2. Available under the applicable Limits of Insurance shown in the Declarations; whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

8-1.09 Indemnities

- a. The Contractor will take all responsibility for the Work, and will bear all losses and damages directly or indirectly resulting to the Contractor, any subcontractors engaged in performance of the Work, the City, its officials, officers, employees, agents, volunteers and consultants, and to third parties on account of the performance or character of the Work, unforeseen difficulties, accidents, or occurrences of other causes predicated on active or passive negligence of the Contractor or of any subcontractor engaged in performance of the Work. To the fullest extent permitted by law the Contractor will indemnify, defend and hold harmless the City, its officials, officers, employees, agents, volunteers and consultants from and against any or all loss, liability, expense, claims, costs (including costs of defense), suits, and damages of every kind, nature and description (including, but not limited to, penalties resulting from exposure to hazards in violation of the California Labor Code) directly or indirectly arising from the performance of the Work ("Claims"). The Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this agreement for the full period of time allowed by law.
- b. The Contractor will indemnify, defend and hold harmless the City, the City's officials, officers, employees, volunteers, agents and the Engineer and the Architect for all liability on account of any patent rights, copyrights, trade names or other intellectual property rights that may apply to the Contractor's performance of the Work. The Contractor will pay all royalties or other charges as a result of intellectual property rights that may apply to methods, types of construction, processes, materials, or equipment used in the performance of the Work, and will furnish written assurance satisfactory to the City that any such charges have been paid.
- c. The Contractor assumes all liability for any accident or accidents resulting to any person or property as a result of inadequate protective devices for the prevention of accidents in connection with the performance of the Work. The Contractor will indemnify, defend, and hold harmless the City and its officials, officers, employees, agents, volunteers and consultants from such liability.
- d. The defense and indemnification obligations in this Contract are undertaken in addition to, and shall not in any way be limited by the insurance obligations contained in this Agreement. Sections 8-1.08 or 8-1.09. The Contractor will defend, with legal counsel reasonably acceptable to the City, any action or actions filed in connection with any Claims and will pay all related costs and expenses, including attorney's fees incurred. The Contractor will promptly pay any judgment rendered against the City, its officials, officers, employees, agents, volunteers or consultants for any Claims. In the event the City, its officials, officers, employees, agents, volunteers or consultants is made a party to any action or proceeding filed or prosecuted against Contractor for any Claims, Contractor agrees to pay the City, its officials, officers, employees, agents, volunteers and consultants any and all costs and expenses incurred in such action or proceeding, including but not limited to, reasonable attorneys' fees.

- e. Subject to the requirements of Section 5 of the General Provisions, the Contractor will indemnify, hold harmless and defend with legal counsel reasonably acceptable to the City the City and its officials, officers, employees, agents and volunteers from and against any and all Claims related to damage to surface or underground facilities caused by the Contractor or any of the Contractor's privities or agents.
- f. The Contractor will indemnify, hold harmless and defend with legal counsel reasonably acceptable to the City the City and its officials, officers, employees, agents and volunteers from and against any and all Claims, including any fines or other penalties, related to failure of the Contractor and/or privities or agents of the Contractor to comply with the requirements of the General Permit, or to implement the SWPPP in accordance with provision 12-1.04 of the Contract. The City may withhold from amounts due or that may become due the Contractor under this Contract amounts that equal or are estimated to equal the amount of Claims, including fines, resulting from failure of the Contractor and/or privities or agents of the Contractor to comply with the requirements of the General Permit, or to implement the SWPPP in accordance with provision 12-1.04 of the Contract.
- g. In accordance with California Civil Code Section 2782(a), nothing in the Contract will be construed to indemnify the City for its sole negligence, willful misconduct, or for defects in design furnished by City. In accordance with California Civil Code Section 2782(b), nothing in the Contract will be construed to impose on the Contractor or to relieve the City from liability for the City's active negligence. By execution of the Contract Documents the Contractor acknowledges and agrees that the Contractor has read and understands the insurance and indemnity requirements of the Contract Documents, which are material elements of consideration.
- h. Contractor's and subcontractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law.
- i. The defense and indemnification obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract.

8-1.10 Licenses/Permits. The Contractor must, without additional expense to the City, obtain all licenses, permits and other approvals required for the performance of the Work. This would include a valid City Business license.

8-1.11 California Labor Code Requirements.

- a. In accordance with California Labor Code Section 1810, eight (8) hours of labor in performance of the Work will constitute a legal day's work under the Contract.
- b. In accordance with California Labor Code Section 1811, the time of service of any worker employed in performance of the Work is limited to eight hours during any one calendar day, and forty hours during any one calendar week, except in accordance with California Labor Code Section 1815, which provides that work in excess of eight hours during any one calendar day and forty hours during any one calendar week is permitted

upon compensation for all hours worked in excess of eight hours during any one calendar day and forty hours during any one calendar week at not less than one-and-one-half times the basic rate of pay.

- c. The Contractor and its subcontractors will forfeit as a penalty to the City \$25 for each worker employed in the performance of the Work for each calendar day during which the worker is required or permitted to work more than eight (8) hours in any one calendar day, or more than forty (40) hours in any one calendar week, in violation of the provisions of California Labor Code Section 1810 et seq.
- d. In accordance with California Labor Code Section 1773.2, the City has determined the general prevailing wages in the locality in which the Work is to be performed for each craft or type of work needed to be as published by the State of California Department of Industrial Relations, Division of Labor Statistics and Research, a copy of which is on file in the Public Works Department and will be made available on request. The Contractor and subcontractors engaged in the performance of the Work must pay no less than these rates to all persons engaged in performance of the Work.
- e. In accordance with California Labor Code Section 1775, the Contractor and any subcontractors engaged in performance of the Work must comply Labor Code Section 1775 which establishes a penalty of up to \$50 per day for each worker engaged in the performance of the Work that the Contractor or any subcontractor pays less than the specified prevailing wage. The amount of such penalty will be determined by the Labor Commissioner. The Contractor or subcontractor must pay the difference between the prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the prevailing wage rate. If a subcontractor worker engaged in performance of the Work is not paid the general prevailing per diem wages by the subcontractor, the Contractor is not liable for any penalties therefore unless the Contractor had knowledge of that failure or unless the Contractor fails to comply with all of the following requirements:
 1. The contract executed between the Contractor and the subcontractor for the performance of part of the Work must include a copy of the provisions of California Labor Code Sections 1771, 1775, 1776, 1777.5, 1813, and 1815.
 2. The Contractor must monitor payment of the specified general prevailing rate of per diem wages by the subcontractor by periodic review of the subcontractor's certified payroll records.
 3. Upon becoming aware of a subcontractor's failure to pay the specified prevailing rate of wages, the Contractor must diligently take corrective action to halt or rectify the failure, including, but not limited to, retaining sufficient funds due the subcontractor for performance of the Work.
 4. Prior to making final payment to the subcontractor, the Contractor must obtain an affidavit signed under penalty of perjury from the subcontractor that the subcontractor has paid the specified general prevailing rate of per diem wages employees engaged in the performance of the Work and any amounts due pursuant to California Labor Code Section 1813.
 5. In accordance with California Labor Code Section 1776, the Contractor and each subcontractor engaged in performance of the Work, must keep accurate payroll

records showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed in performance of the Work. Each payroll record must contain or be verified by a written declaration that it is made under penalty of perjury, stating that the information contained in the payroll record is true and correct and that the employer has complied with the requirements of Sections 1771, 1811, and 1815 for any work performed by the employer's employees on the public works project. The payroll records required pursuant to California Labor Code Section 1776 must be certified and must be available for inspection by the City and its authorized representatives, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the Department of Industrial Relations and must otherwise be available for inspection in accordance with California Labor Code Section 1776.

- f. In accordance with California Labor Code Section 1777.5, the Contractor, on behalf of the Contractor and any subcontractors engaged in performance of the Work, will be responsible for ensuring compliance with California Labor Code Section 1777.5 governing employment and payment of apprentices on public works contracts.
- g. In case it becomes necessary for the Contractor or any subcontractor engaged in performance of the Work to employ on the Work any person in a trade or occupation (except executive, supervisory, administrative, clerical, or other non-manual workers as such) for which no minimum wage rate has been determined by the Director of the Department of Industrial Relations, the Contractor must pay the minimum rate of wages specified therein for the classification which most nearly corresponds to Work to be performed by that person. The minimum rate thus furnished will be applicable as a minimum for such trade or occupation from the time of the initial employment of the person affected and during the continuance of such employment.

8-1.12 Laws and Ordinances. The Contractor and all subcontractors engaged in the performance of the Work must conform to the following specific rules and regulations as well as all other laws, ordinances, rules and regulations that apply to the Work. Nothing in the Technical Specifications or Project Plans is to be construed to permit Work not conforming to these codes:

- National Electrical Safety Code, U. S. Department of Commerce
- National Board of Fire Underwriters' Regulations
- California Building Standards Code as adopted by the City
- Manual of Accident Prevention in Construction, latest edition, published by A.G.C. of America
- Industrial Accident Commission's Safety Orders, State of California
- Regulations of the State Fire Marshall (Title 19, California Code of Regulations) and Applicable Local Fire Safety Codes
- Labor Code of the State of California - Division 2, Part 7, Public Works and Public Agencies.
- Federal, state, and local air pollution control laws and regulations applicable to the Contractor and/or the Work.

8-1.13 Guaranty. The Contractor guarantees all of the Work for one year from the date the City accepts the Work. Upon receiving written notice of a need for repairs which are directly attributable to defective materials or workmanship the Contractor must make

good any defects arising or discovered in any part of the Work by diligently commencing the necessary repairs within seven (7) days from the date of notice from the City. If the Contractor fails to make good any defects in the Work in accordance with this provision, in addition to any other available remedy under the Contract or at law or equity, the City may make good or have made good such defects in the Work and deduct the cost from amounts that may be due or become due the Contractor, and/or call on the Contractor's maintenance bond for the cost of making good such defects and for the City's reasonable legal costs, if any, of recovering against the bond. The Contractor will remain responsible for repairing any Work found to be defective regardless of when such defect is discovered by the City.

8-1.14 Assignment of Unfair Business Practice Claims. In accordance with California Public Contract Code Section 7103.5, the Contractor and any subcontractors offer and agree to assign to the City all rights, title, and interest in and to all causes of action the Contractor or any subcontractors may have under Section 4 of the Clayton Act (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 (commencing with § 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to this Contract. This assignment will be made and become effective at the time the City tenders final payment to the Contractor, without further acknowledgement by the parties.

SECTION 9 Measurement and Payment

9-1.01 F.O.B. All shipments must be F.O.B. destination to the Work site and/or other sites indicated in the Contract Documents. The Contract Price is all-inclusive (including sales tax). There will be no additional compensation paid for containers, packing, unpacking, drayage or insurance.

9-1.02 Payment

- a. The Contractor must submit to the Engineer his or her partial payment estimate on the 15th day of the month. When the 15th falls on a weekend or holiday submittal must be on the first workday prior to the 15th. The partial payment estimate must be a verified application for payment and schedule of values supported by a statement showing all materials actually installed during the preceding month and the cost of labor actually expended in the performance of the Work. The Contractor must also provide information with the payment that includes bid item identification and % complete/remaining. Unless otherwise provided in the Contract Documents, no allowances or payments will be made for material or equipment not placed at the Work site.
- b. Within ten (10) days after the issuance of the Notice to Proceed, the Contractor shall furnish to the City a detailed Schedule of Values giving a complete breakdown of large lump sum prices and items which include numerous subdivisions of work. The Contractor and City shall jointly review the Schedule of Values and make any adjustments in value allocations if, in the opinion of the City, changes are necessary to establish fair and reasonable allocation of values for the Work components. Front end loading will not be permitted. If, in the City's judgment, more detail (i.e. more items of work) is necessary, the Contractor shall add the additional items identified by the City. The City may also require reallocation of Work components from items in the preliminary schedule if such are allocation is necessary. The Contractor shall submit any necessary revisions for the completed Schedule of Values within 15 days from the Notice to Proceed. The costs indicated in making up this breakdown will be used as a basis for partial payments and shall not be considered as fixing a basis of additions or deductions from the contract.
- c. To be eligible for payment the Contractor's applications for payment must be accompanied by certified payroll reports, including "Statement of Non-Performance" for periods where no Work was performed. Certified payroll shall be prepared in accordance with California Labor Code Section 1776 and the Contract for each employee of the Contractor and any subcontractors engaged in the performance of the Work during the preceding months. Applications for payment will not be processed without certified payroll reports.
- d. In accordance with California Public Contract Code Section 20104.50, the City will review applications for payment as soon as practicable after receipt. Any application or part of an application that is determined to be improper will be returned to the Contractor as soon as practicable, but no later than seven days after receipt by the City, along with a written description of the reasons why the application is improper. The Contractor's failure to submit a schedule by the time specified in Section 3-1.08, or its submission of a schedule to which the City has taken any uncorrected exception, will serve as a basis for returning an application for payment in its entirety.

- e. Unless the Contractor has elected to post securities in lieu of retention in accordance with California Public Contract Code Section 22300 and the Contract, and the Contractor and the City have executed an escrow agreement in accordance with the Public Contract Code and the Contract, the City will make progress payments to the Contractor in accordance with applicable law in the amount of ninety-five (95) percent of the value of the labor actually performed and the material incorporated in the Work as specified in Contractor's verified application for payment upon approval by the City's authorized representative(s). Payment of progress payments will not be construed as acceptance of the Work performed. If the Contractor has elected to post securities in lieu of retention in accordance with Public Contract Code Section 22300 and the Contract and the Contractor and the City have executed an escrow agreement in accordance with the Public Contract Code and the Contract, the City will make payments to the Contractor or the Contractor's escrow agent in accordance with such escrow agreement.
- f. Wherever the estimated quantities of Work to be done and materials to be furnished on a unit price basis under this Contract are specified in any of the Contract Documents, including the proposal, such quantities are specified for purposes of comparing bids, and the right is expressly reserved, except as otherwise expressly provided, to increase or diminish such quantities as may be deemed reasonably necessary or desirable by the Engineer to complete the Work. No such increase or diminution will be a basis for claims for adjustments in the Contract Price other than adjustments necessary to reflect the impacts of such changes in quantities based on the applicable contract prices and/or pursuant to Section 4 of this Contract.
- g. In accordance with California Public Contract Code Section 20104.50, if the City fails to make a progress payment within thirty (30) days of receipt of an undisputed, properly submitted application for payment, the City will pay the Contractor interest equivalent to the legal rate set forth in subdivision (a) of California Code of Civil Procedure Section 685.010. The number of days available to the City to make a payment without incurring an interest obligation pursuant to this provision and California Public Contract Code Section 20104.50 will be reduced by the number of days, if any, by which the City has delayed return of an application for payment beyond the seven day return requirement set forth in Section 9-1.02(d).
- h. The City will pay the Contractor's final invoice in accordance with applicable law and this Section 9 following acceptance of the Work provided that:
 - i. The Contractor has furnished evidence satisfactory to the City that all claims for labor and material have been paid, or the time for filing valid stop notices has passed and no stop notices have been filed, or all stop notices filed have been released by valid release or release bond acceptable to the City.
 - ii. No claim has been presented to the City by any person based upon any acts or omissions of the Contractor or any subcontractor engaged in the performance of the Work.
 - iii. No other claim or dispute exists under the Contract or applicable law concerning payment of the Contractor's final invoice and/or release of the Contract retention.
 - iv. The Contractor has filed with the City the Maintenance Bond provided in the Contract Documents with duly notarized signatures of an authorized representative of the Contractor and an attorney-in-fact of an admitted surety

insurer acceptable to the City and such Maintenance Bond binds the Contractor as Principal and the Surety in accordance with its terms in the amount of 10% of the final Contract Price.

9-1.03 Non-Allowable Direct Charges. The following costs are not allowable direct charges under the Contract. The following costs may only be paid under the Contract, if at all, as part of any allowance for contractor overhead and/or profit established under the Contract.

- a. Labor costs in excess of applicable prevailing wages pursuant to the Contract and applicable law, liability and workers compensation insurance, social security, retirement and unemployment insurance and other employee compensation and benefits pursuant to bona fide compensation plans in effect at the time specified for the opening of Project bids for contractor and subcontractor employees engaged in the performance of the Work, or in excess of the labor costs specified in provision 4-1.05 of this Contract in the case of cost impacts involving items for which the Contract Documents do not specify prices, and for which no lump sum amount has been approved by the City. However, in no event will allowable direct labor charges under the Contract include employee bonuses, employee vehicles or vehicle allowances, employee telephones or telephone allowances, or employee housing or housing allowances, whether or not such benefits are part of a bona fide compensation plan in effect at the time specified for the opening of Project bids.
- b. Superintendent labor and clerical labor.
- c. Bond premiums
- d. Insurance in excess of that required under Section 8.8
- e. Utility costs
- f. Work Site office expenses
- g. Home office expenses.
- h. Permit or license costs

9-1.04 Retention. The City or its agent may, in accordance with the Contract Documents and applicable law, withhold any payment of monies due or that may become due the Contractor because of:

- a. Defective work not remedied or uncompleted work.
- b. Claims filed or reasonable evidence indicating probable filing of claims.
- c. Failure to properly pay subcontractors or to pay for material or labor.
- d. Reasonable doubt that the Work can be completed for the balance then unpaid.
- e. Damage to another contractor.

- f. Damage to the City.
- g. Damage to a third party.
- h. Delay in the progress of the Work, which, in the City's judgment, is due to the failure of the Contractor to properly expedite the Work.
- i. Liquidated damages or other charges that apply to the Contractor under the Contract.
- j. Any other lawful basis for withholding payment under the Contract.

9-1.05 Securities in Lieu of Retention.

- a. In accordance with Public Contract Code Section 22300, except where federal regulations or polices do not permit substitution of securities, the Contractor may substitute securities for any moneys withheld by the City to ensure performance of the Work. At the Contractor's request and expense, securities equivalent to the amount withheld will be deposited with the City, or with a state or federally chartered bank in California as the escrow agent, who will then pay those moneys to the Contractor under the terms of an Escrow for Security Deposit agreement. The Escrow for Security Deposit agreement is provided in the Contract Documents. Upon satisfactory completion of the Work, the securities will be returned to the Contractor.
- b. Alternatively, at the Contractor's request and expense, the City will pay retentions earned directly to the escrow agent. At the Contractor's expense, the Contractor may direct investment of the payments into securities. Upon satisfactory completion of the Work, the Contractor will receive from the escrow agent all securities, interest, and payments received by the escrow agent from the City pursuant to this provision and the terms of the Escrow for Security Deposit agreement. The Contractor will, within 20 days of receipt of payment, pay to each subcontractor the respective amount of interest earned, less costs of retention withheld from each Subcontractor, on monies withheld to ensure the Contractor's performance of the Work.
- c. Securities eligible for investment in accordance with this provision include those listed in Government Code Section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contractor and the City.
- d. The Contractor will be the beneficial owner of any securities substituted for moneys withheld and will receive any interest thereon.

SECTION 10 Project Acceptance and Closeout

10-1.01 Occupancy. The City reserves the right to occupy or use any part or parts or the entire of the Work before the Work is fully performed. Subject to applicable law, exercising this right will in no way constitute acceptance of any part of the Work so occupied or used or acceptance of the entire Work, nor will such occupancy or use in any way affect the times when payments will become due the Contractor, nor will such occupancy or use in any way prejudice the City's rights under the Contract, any Contract bonds, or at law or equity. Occupancy or use will not waive the City's rights to assess liquidated damages in accordance with Section 7 after the date of such occupancy or use.

10-1.02 Work Completion and Final Inspection. When the Contractor considers the Work is completed, the Contractor will submit written certification to the Engineer specifying that: the Contract Documents have been reviewed; the Work has been inspected for compliance with the Contract Documents; the Work has been completed in accordance with the Contract Documents; and that equipment and systems have been tested in the presence of the City's representative and are operational. The City and/or the City's authorized representatives will make an inspection to verify that the Work is complete and will notify the Contractor in writing of any incomplete or deficient Work. The Contractor will take immediate steps to remedy the stated deficiencies and give notice of correction to the Engineer. Upon receiving a notice of correction, the City or the City's authorized representatives will re-inspect the Work. The Contractor must correct all punch list items within 15 working days after the issuance of the punch list

10-1.03 Work Acceptance.

- a. All finished Work will be subject to inspection and acceptance or rejection by the City, the Engineer, and the Architect or other government agencies having jurisdiction over the Work. Final acceptance of the Work will be at the discretion of the City.
- b. The City will accept the Work in writing only when the Work has been completed to the City's reasonable satisfaction. Progress payments will in no way be construed as acceptance of any part of the Work.
- c. In evaluating the Work, no allowance will be made for deviations from the Technical Specifications, Project Plans or other Contract Documents unless already approved in writing in accordance with the requirements of Section 4, above.
- d. The fact that the Work and materials have been inspected from time to time and that progress payments have been made does not relieve the Contractor of the responsibility of replacing and making good any defective or omitted work or materials in accordance with the requirements of the Contract Documents.

SECTION 11 Remedies and Disputes

11-1.01 Failure to Correct Work. Within ten (10) working days of receiving written notice from the City describing Work that is defective or that is otherwise not in accordance with the requirements of the Contract and/or applicable law and directing that such Work be corrected, the Contractor and/or the Contractor's sureties must give the City written notice of the intent of the Contractor and/or the Contractor's sureties to correct such Work and commence correction of such Work in accordance with the City's notice and the Contract. If the Contractor and/or the Contractor's sureties do not give the City written notice of intent to correct such Work and commence correction of such Work within ten (10) working days of receipt of the City's notice, then the City may correct such work and/or have such work corrected for the account and at the expense of the Contractor and/or its sureties, and the Contractor and/or its sureties will be liable to the City for any resulting excess cost. The City may, in addition to all other remedies that the City may have under the Contract and at law or equity, deduct any such excess cost of completing the Work from amounts that are due or that may become due the contractor.

11-1.02 Termination.

- a. In accordance with California Public Contract Code Section 7105, in addition to all other available remedies that the City may have under the Contract, and at law or equity, the City may terminate the Contract:
 1. If the Contractor or any of its subcontractors engaged in the performance of the Work fails to timely perform the Work and/or any of the Contractor's material obligations under the Contract Documents, including but not limited to submission of an acceptable schedule, that have accrued except for due to reasons beyond the control of the Contractor pursuant to the Contract Documents.
 2. If the Contractor is adjudged bankrupt, or if it should make a general assignment for the benefit of creditors, or if a receiver should be appointed on account of its creditors.
 3. If the Contractor or any of the subcontractors engaged in the performance of the Work persistently or repeatedly refuses or fails to supply enough properly skilled workmen or proper materials for the timely completion of the Work.
 4. If the Contractor fails to make prompt payment to subcontractors engaged in the performance of the Work or for material or labor used in the performance of the Work in accordance with the Contract Documents and applicable law.
 5. If the Contractor or any subcontractors engaged in the performance of the Work persistently disregards laws or ordinances applicable to the performance of the Work, or the instructions of the City, the Engineer, the Architect, or other authorized representatives of the City.
 6. For any reason or for no reason, at the City's sole discretion.

- b. If the City intends to terminate the Contractor's control of the Work for any of the reasons specified in Section 11-1.102(a) 1 through 5, above, the City will immediately serve written notice to the Contractor and its sureties in accordance with the Contract Documents. Notice of the City's intent to terminate the Contract will be given by registered or certified mail and specify the grounds for termination, the required cure and the time by which the cure must be effected. Upon receipt of notice of the City's intent to terminate the Contract for any of the reasons specified in Section 11-1.102(a) 1 through 5, the Contractor will have ten (10) days from receipt of the notice or a longer time specified in the notice to cure its default. If the Contractor does not affect the required cure by the time specified in the notice, the City will issue a written notice of termination to the Contractor and its sureties by registered or certified mail. The notice of termination will specify: that upon receipt of the notice the Contractor's right to perform or complete the Work, including on behalf of the Contractor's sureties, is terminated; that the Contractor's sureties will have the right to take over and complete the Work and perform all of the Contractor's remaining obligations that have accrued under the Contract; and that if the Contractor's sureties do not both give the City written notice of their intention to take over and perform the Contract and commence completion of the Work and performance of all of the Contractor's remaining obligations that have accrued under the Contract within ten (10) days after receipt of notice of termination that the City may declare the Contractor's sureties in default and take over the completion of the Work or have the Work completed for the account and at the expense of the Contractor and its sureties, and the Contractor and its sureties will be liable to the City for any resulting excess cost. The City may, in addition to all other available remedies that the City may have under the Contract Documents and at law or equity, deduct any such excess cost of completing the Work from amounts that are due or that may become due the Contractor.
- c. Upon termination of the Contractor's control of the Work for any of the reasons specified in Section 11-1.102(a) 1 through 5, the Contractor will, if so directed by the City, immediately remove from the Work site any and all materials and personal property belonging to the Contractor which have not been incorporated in the Work and the Contractor and its sureties will be liable upon their bond for all damages caused the City by reason of the Contractor's failure to complete the Work.
- d. Upon termination of the Contractor's control of the Work for any of the reasons specified in Section 11-1.102(a) 1 through 5, above, the City reserves the right to refuse tender of the Contractor by any surety to complete the Work.
- e. If the City completes or has completed any portion of, or the whole of the Work, following termination of the Contractor's control of the Work for any of the reasons specified in Section 11-1.102(a) 1 through 5, above, the City will neither be liable for nor account to the Contractor or the Contractor's sureties in any way for the time within which, or the manner in which such Work is performed, or for any changes made in such Work or for the money expended in satisfying claims and/or suits and/or other obligations in connection with completing the Work. If, following termination of the Contractor's control of the Work for any of the reasons specified in Sections Section 11-1.102(a) 1 through 5, above, the unpaid balance of the Contract Price exceeds the expense of completing the Work, including compensation for additional legal, managerial and administrative services and all other amounts due for the completion of the Work and/or satisfaction of claims of the City and/or others arising out of the Contract and any other charges that apply to the Contractor under the Contract, the difference will be paid to the Contractor.

If such expenses of completing the Work exceed the unpaid balance of the Contract Price, the Contractor or its sureties will pay the difference to the City.

- f. If the Contract or Contractor's control of the Work is terminated for any reason, no allowances or compensation will be granted for the loss of any anticipated profit by the Contractor.
- g. In accordance with California Government Code Section 4410, in the event a national emergency occurs, and public work being performed by contract is stopped, directly or indirectly, because of the freezing or diversion of materials, equipment or labor, as the result of an order or a proclamation of the President of the United States, or of an order of any federal authority, and the circumstances or conditions are such that it is impracticable within a reasonable time to proceed with a substantial portion of the work, then the City and the Contractor may, by written agreement, terminate the Contract. In accordance with California Government Code Section 4411, such an agreement will include the terms and conditions of the termination of the contract and provision for the payment of compensation or money, if any, which either party will pay to the other or any other person, under the facts and circumstances in the case. Compensation to the Contractor will be determined on the basis of the reasonable value of the work done, including preparatory work. As an exception to the foregoing, in the case of any fully completed separate item or portion of the Work for which there is a separate contract price, the Contract price will control. The parties may in any other case adopt the Contract price as the reasonable value of the work or any portion of the work done.

11-1.03 Disputes.

- a. In accordance with California Public Contract Code Section 20104.2, the following procedures apply to claims of \$375,000 or less between the Contractor and the City:
 - 1. The claim must be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.
 - 2. For claims of less than fifty thousand dollars (\$50,000), the City will respond in writing to any written claim within 45 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 to the claim the City may have against the Contractor.
 - 3. If additional information is thereafter required, it will be requested and provided pursuant to this subdivision, upon mutual agreement of the City and the Contractor.
 - 4. The City's written response to the claim, as further documented, will be submitted to the Contractor within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the Contractor in producing the additional information, whichever is greater.
 - 5. For claims of over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the City will 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 to the claim the City may have against the Contractor.

6. If additional information is thereafter required, it will be requested and provided pursuant to this subdivision, upon mutual agreement of the City and the Contractor.
 7. The City's written response to the claim, as further documented, will be submitted to the Contractor within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by the Contractor in producing the additional information or requested documentation, whichever is greater.
 8. If the Contractor disputes the City's written response, or the City fails to respond within the time prescribed, the Contractor may so notify the City, in writing, either within 15 days of receipt of the City's response or within 15 days of the City's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the City will schedule a meet and confer conference within 30 days for settlement of the dispute.
 9. Following the meet and confer conference, if the claim or any portion remains in dispute, the Contractor may file a claim as provided in 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. For purposes of those provisions, the running of the period of time within which a claim must be filed will be tolled from the time the Contractor submits his or her written claim pursuant to subdivision (a) until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.
 10. This section does not apply to tort claims and nothing in this article is intended nor will be construed to change the time periods for filing tort claims or actions specified by 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.
- b. In accordance with California Public Contract Code Section 20104.4, the following procedures apply to civil actions to resolve claims of \$375,000 or less between the City and the Contractor:
1. Within 60 days, but no earlier than 30 days, following the filing or responsive pleadings, the court will submit the matter to non-binding mediation unless waived by mutual stipulation of both parties. The mediation process will provide for the selection within 15 days by both parties of a disinterested third person as mediator, will be commenced within 30 days of the submittal, and will be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.

2. If the matter remains in dispute, the case will be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1141.11 of that code. The Civil Discovery Act of 1986 (Article 3 (commencing with Section 2016) of Chapter 3 of Title 3 of Part 4 of the Code of Civil Procedure) will apply to any proceeding brought under this subdivision consistent with the rules pertaining to judicial arbitration.
 3. Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article will be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators will be paid necessary and reasonable hourly rates of pay not to exceed their customary rate, and such fees and expenses will be paid equally by the parties, except in the case of arbitration where the arbitrator, for good cause, determines a different division. In no event will these fees or expenses be paid by state or county funds.
 4. In addition to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, any party who after receiving an arbitration award requests a trial de novo but does not obtain a more favorable judgment must, in addition to payment of costs and fees under that chapter, pay the attorney's fees of the other party arising out of the trial de novo.
 5. The court may, upon request by any party, order any witnesses to participate in the mediation or arbitration process.
- c. In accordance with California Public Contract Code Section 20104.6:
1. The City will not fail to pay money as to any portion of a claim, which is undisputed except as otherwise provided in the Contract.
 2. In any suit filed under Public Contract Code Section 20104.4 concerning this Contract, the City will pay interest at the legal rate on any arbitration award or judgment. Such interest will accrue from date the suit was filed.

SECTION 12 Additional Provisions

12-1.01 Description of Work.

The Work in general consists of roadway pavement reconstruction and pedestrian and bicycle improvements along March Avenue between Healdsburg Avenue and University Street including installation of ADA compliant curb ramps with curbline bulb-outs at all intersections, Rectangular Rapid Flashing Beacons (RRFBs) and street lighting improvements at the Lupine Road and Prentice Drive intersections, upgraded signage and striping, the designation of no parking areas, and other such items of work as are required to complete the Project in accordance with this Contract, the Project Plans and Technical Specifications.

All Work shall conform to the requirements of the City of Healdsburg Public Works Standard Specification and Details Specific Provisions and Standard Details as they apply, and any modifications or additions herein and/or on the Project Plans.

Work shown on the project plans and/or described within the Contract Documents that is not specifically referenced or contained on the bid item list shall be considered as paid for by the various items of work and no additional compensation will be provided.

The estimate of the quantities of Work to be done is approximate only, being as a basis for the comparison of bids, and the City does not expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount or any portion of the work as directed by the Engineer.

Incidental items of construction necessary to complete the Work in a satisfactory and acceptable manner as shown on the Project Plans and as provided for in the Technical Specifications and not specifically referred to in this section, shall be considered part of the Work and will be understood to be furnished and installed by the Contractor at not additional cost.

12-1.02 Construction Limitations.

The Contractor will be expected to conduct his or her operations in a manner; which creates a minimum disturbance to the natural vegetation and landscape. Ingress and egress must be via the existing right of way. Care must be exercised to avoid hazards that may cause injury to persons, animals or property either during working hours or after work hours, which will include dust control, backfilling trenches immediately following pipe laying and temporary fencing as required. Excavation made under this Contract must be backfilled before leaving the work for the night.

The Contractor will be responsible for obtaining permission from the property owners for any construction outside of the Work site or easements as shown on the plans. Equipment will be restricted to the immediate area of construction; pipe trenches will be backfilled as soon as possible.

Receptacles for construction residue, including oil, cleaning fluids, and litter, must be covered. Such residues must be disposed of in a proper manner.

Construction activity within the existing right-of-way must be scheduled to minimize traffic inconvenience and safety hazards to motorists, pedestrians and cyclists.

12-1.03 Order of Work.

Work as shown on the Project Plans and as specified in the Technical Specifications shall be constructed in a sequence that is satisfactory to and approved by the Engineer. Additional

Order of Work requirements may be found on the Project Plans or within the Special Provisions.

12-1.04 Storm Water Pollution Prevention.

The Contractor must perform the Work in compliance with all applicable requirements of the California State Water Resources Control Board pursuant to National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities Order No. 2009-0009-DWQ, NPDES No. CAS000002 ("General Permit") adopted pursuant to regulations adopted by the U.S. Environmental Protection Agency (USEPA) on November 16, 1990 and codified in 40 Code of Federal Regulations Parts 122, 123, 124. The General Permit applies to storm water discharges from construction sites that disturb land equal to or greater than one acre, and to construction activity that results in soil disturbances of less than one acre if the construction activity is part of a larger common plan of development that encompasses one or more acre of soil disturbance or if there is significant water quality impairment resulting from the activity. The General Permit requirements that may apply to the Contractor's performance of the Work include, but are not limited to:

- a. Development and implementation of a Storm Water Pollution Prevention Plan ("SWPPP") developed by a Qualified SWPPP Developer (QDD) that is designed to address the following objectives:
 - i. All pollutants and their sources, including sources of sediment associated with construction, construction site erosion and all other activities associated with construction activity are controlled;
 - ii. Where not otherwise required to under a Regional Water Board permit, all non-storm water discharges are identified and either eliminated, controlled, or treated;
 - iii. Site BMPs are effective and result in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity;
 - iv. Calculations and design details as well as BMP controls for site run-on are complete and correct; and
 - v. Stabilization BMPs installed to reduce or eliminate pollutants after construction are completed.
- b. Assess the risk level based on both sediment transport and receiving water risk and implement risk specific requirements including monitoring and, for risk level 2 and 3, development of a Rain Event Action Plan 48 hours prior to any likely precipitation event.
- c. Inspection of all BMPs.

Portions of the Work that may be subject to the General Permit include, but are not limited to clearing, grading, stockpiling and excavation.

Prior to commencing performance of the Work, the Legally Responsible Person (LRP) must obtain coverage under the General Permit. To obtain coverage, the LRP must electronically file Permit Registration Documents to the State Water Board's Storm Water Multi-Application and Report Tracking System (SMARTS) website, prior to commencement of construction activity, including:

- a. Notice of Intent
- b. Risk Assessment

- c. Site Map
- d. SWPPP
- e. Annual Fee
- f. Signed Certification Statement

The SWPPP must include a Work site map. Geometric equations, notes, details, and all data not related to water pollution control work shall be removed to provide clarity. A copy of the Project Plans must be used as a base plan, with the pertinent stage of construction shown as an overlay to accurately reflect Project site conditions at various phases of construction.

The Contractor must revise and update the SWPPP whenever there is a change in construction operations that may affect the site drainage patterns or discharge of pollutants to surface waters, ground waters, or a separate municipal storm sewer system.

Any fines, damages, Work delays or other impacts that result from failure of the Contractor or privities or agents of the Contractor to fully comply with the requirements of the General Permit or to fully implement the SWPPP will be solely the responsibility of the Contractor.

The Contractor must keep a copy of the General Permit, together with updates and revisions, at the Project site and provide copies of the SWPPP at the request of the City.

12-1.05 Maintaining Traffic and Pedestrian Operations.

The Contractor must so conduct his or her operations so as to cause the least possible obstruction and inconvenience to public traffic. Unless otherwise approved by the Engineer, all traffic must be permitted to pass through the Work.

Due to the need to accommodate and minimize inconvenience to the public, unless expressly specified or approved in writing by the Engineer, no road closures will be permitted. Public vehicular and pedestrian traffic must be allowed to travel through the Work area with an absolute minimum of interruption or impedance unless otherwise provided for in the Contract or approved in writing by the Engineer. The Contractor must make provisions for the safe passage of pedestrians around the area of Work at all times.

Residents affected by construction must be provided passage and access through the Work area to the maximum extent possible. Where existing driveways occur on the street, the Contractor must make provisions for the trench crossings at these points, either by means of backfill or by temporary bridges acceptable to the Engineer, so that the length of shut-down of any driveway is kept to a minimum. In addition, all driveways must be accessible at the end of each workday, and no driveway or property access may be closed for more than four (4) hours during the workday. Access to driveways, houses, and buildings along the road or street must be as convenient as possible and well maintained, and all temporary crossings must be maintained in good condition. To minimize the need for and complexity of detours, not more than one crossing or street intersection or road may be closed at any one time without the written approval of the Engineer.

The Contractor must provide multiple, advance written notices of closures to all affected property owners in a form approved by the Engineer.

Except as otherwise approved by the Engineer, the stockpiling or storing of material in City streets or right of way shall be prohibited. Where this is unavoidable, all such materials must be piled or stored in a manner that will not obstruct sidewalks, driveways, or pedestrian crossings. Gutters and drainage channels must be kept clear and unobstructed at all times. All such

materials shall be stored and handled in a manner that protects City streets, sidewalks, or other facilities from damage.

Where approved in advance by the Engineer, the Contractor must construct and maintain detours for the use of public traffic at his or her own expense. Failure or refusal of the Contractor to construct and maintain detours so approved at the proper time will be a material breach of the Contract subject to any and all remedies available pursuant to the Contract Documents and at law and equity. Such remedies include, but are not limited to, termination pursuant to Section 11.

Throughout performance of the Work the Contractor must construct and adequately maintain suitable and safe crossings over trenches and such detours as are necessary to care for the public and private traffic at all times including Saturdays, Sundays and holidays.

The Contractor will be responsible for keeping all emergency services, including the Healdsburg police and fire departments informed of obstructions to, or detours around any public or private roads caused by reasons of his or her operations.

The Contractor must comply with the State of California, Department of Transportation Manual of warning signs, lights, and devices for use and performance of work within the job site.

The fact that rain or other causes, either within or beyond the control of the Contractor, may force suspension or delay of the Work, shall in no way relieve the Contractor of his or her responsibility of maintaining traffic through the Project and providing local access as specified in this section. The Contractor must, at all times, keep on the job such materials, force and equipment as may be necessary to keep roads, streets and driveways within the Project open to traffic and in good repair and shall expedite the passage of such traffic, using such force and equipment as may be necessary.

Full compensation for conforming to the requirements of this section will be deemed included in the prices paid or the various Contract items of Work and no additional allowances will be made therefore.

12-1.06 Public Safety.

The Contractor must at all times conduct the Work in accordance with Construction Safety Orders of the Division of Industrial Safety, State of California, to ensure the least possible obstruction to traffic and inconvenience to the general public, and adequate protection of persons and property in the vicinity of the work.

No pedestrian or vehicle access way may be closed to the public without first obtaining permission of the Engineer.

Should the Contractor fail to provide public safety as specified or if, in the opinion of the Engineer, the warning devices furnished by the Contractor are not adequate, the City may place any warning lights or barricades or take any necessary action to protect or warn the public of any dangerous condition connected with the Contractor's operations and the Contractor will be liable to the City for, and the City may deduct from amounts due or that may become due the Contractor under the Contract, all costs incurred including, but not limited to, administrative costs.

Nothing in this section will be construed to impose tort liability on the City or Engineer.

12-1.07 Preconstruction Conference.

A pre-construction conference will be scheduled, at which time the Contractor must present his or her proposed work schedule in accordance with Section 3-1.08 of the General Provisions, information concerning offsite yards, subcontractors, location of disposal and stock pile areas, and traffic control plans. All such schedules will be subject to the approval of the Engineer and the applicable agencies

12-1.08 Owner Notification.

The Contractor must notify all property owners and businesses affected by the Work at least 48 hours before Work is to begin. The notice must be in writing in the form of a door hanger, and must indicate the Contractor's name and phone number, type of work, day(s) and time when Work will occur. Notices must be reviewed in advance and approved by the Engineer.

12-1.09 Emergency Service Providers Notifications.

The Contractor must furnish the name and phone number of the Safety Supervisor appointed in Section 13 to the City Police Department dispatcher for contact in the event of an emergency and shall keep such information updated as required to provide 24-hour phone access.

12-1.10 Clean up.

Section 4-1.02 of the Caltrans Standard Specifications is made a part of this Contract

Before final inspection of the work, the Contractor must clean the construction site and all ground occupied by him in connection with the work, of all rubbish, excess material, falsework, temporary structures and equipment. All parts of the work shall be left in a neat and presentable condition.

Nothing herein shall require the Contractor to remove warning, regulatory, and guide signs prior to formal acceptance by the Engineer.

12-1.11 Obstructions.

Section 15, "Existing Highway Facilities", of the Caltrans Standard Specifications, is made a part of this Contract; except that measurement and payment shall be as described herein.

Attention is directed to the possible existence of overhead and underground power, telephone, and television cable poles, underground sewer mains and laterals, underground gas mains, and underground water mains and laterals within the area in which construction is to be performed.

Prior to starting work, the Contractor must (a minimum of 2 working days in advance) call Underground Service Alert (USA), toll free, at (800) 642-2444 and provide USA with all necessary data relative to the proposed work. USA will accept calls and process information to participating agencies that have underground facilities in the area between the hours of 7:30 a.m. and 5:00 p.m. daily, except Saturdays, Sundays, and holidays. Between the hours of 5:00 p.m. and 7:30 a.m. calls will be recorded and then processed after 7:30 a.m. For emergency situations, after hours and on Saturdays, Sundays and holidays, the Contractor shall contact the organization owning the affected facility. Upon notification, agencies having facilities in the area of the proposed excavation will mark their locations in the field using USA standard colors and codes to identify the facility.

The Contractor will be required to work around public and private utility facilities and other improvements that are to remain in place within the construction area and he will be held liable to the owners of such facilities or interference with service resulting from his operations.

12-1.12 Hours of Work.

Unless otherwise specified herein, all construction activity, except for emergency situations, will be confined to Monday through Friday between the hours of 7:30 a.m. and 6:00 p.m., to minimize nuisances to local residents. Mufflers and/or baffles will be required on all construction equipment to control and minimize noise. The Contractor must comply with all applicable noise regulations in the City's Municipal Code.

Saturday, Sunday, holidays and overtime shall not be regarded as working days. Work shall not be allowed on non-working days without the expressed approval of the Engineer. The Contractor shall make a request for approval in writing with the stipulation (implied or expressed) that the Contractor shall pay for all overtime labor charges at the rate of \$100 per hour per inspector and/or resident engineer. All overtime labor charges shall be deducted from the final payment along with any liquidated damages.

Work necessary for the proper care and protection of work already performed or in case of emergency may be allowed without permission of the Engineer.

12-1.13 Dust Control.

The Contractor must furnish all labor, equipment, and means required and carry out effective measures wherever and as often as necessary to prevent its operation from producing dust in amounts damaging to property, cultivated vegetation, or domestic animals, or causing a nuisance. The Contractor will be responsible for any damage resulting from any dust originating from the performance of the Work. The use of water resulting in mud on streets, sidewalks, or driveways, will not be permitted as a substitute for sweeping or other methods of dust control. The Contractor may not discharge smoke, dust, or any other air contaminants into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.

Dust control must conform to the provisions in Section 10-5, "Dust Control", of the Caltrans Standard Specifications, which section is made a part of this Contract.

No separate payment will be made to the Contractor for controlling dust, whether caused by construction traffic or by public traffic only.

Full compensation for dust control will be considered as included in the Contract Price paid for the various items of work and no additional compensation will be allowed therefore.

12-1.14 Water For Construction And Dust Control.

Construction water is available free-of-charge from the recycled water dispensing facilities located at 280 Kinley Road and at 340 Foreman Lane. The Contractor shall apply for a Recycled Water Trucking Permit through the City of Healdsburg and shall meet the requirements of the permitting process. The Contractor shall comply with all permit requirements for the use and handling of recycled water. Construction water shall not be drawn from any other source within the City of Healdsburg.

The Contractor is prohibited from operating gate valves, fire hydrants, pumps or any other components of the City water system. The Contractor must contact the City's utilities staff, a minimum of twenty-four (24) hours in advance, to operate these or any other components on the City water system.

12-1.15 Sanitary Provisions.

The Contractor must maintain such camps, as he or she may establish for the housing and feeding of the laborers, employed by him or her for the Work, in accordance with the status and general health laws of the State of California pertaining to the sanitation of dwelling and camps and in conformity with such rules and regulations pertaining to labor camps, as have been or

may hereafter be prescribed by the State Board of Health or by the Commission of Emigration and Housing of California acting in conjunction with said State Board of Health.

12-1.16 Protection And Restoration Of Vegetation.

Trees, lawns, shrubbery and vegetation that are not to be removed must be protected from damage or injury. Existing trees, shrubs, and other plants, that are not to be removed and are injured or damaged by reason of the Contractor's operations, must be replaced by the Contractor in accordance with the requirements in Section 20-3.01C(4), "Replacement", of the Caltrans Standard Specifications. Section 20-3.01C(4) of the Caltrans Standard Specifications is made a part of this Agreement.

When it is necessary to excavate adjacent to existing trees, shrubs, or hedges, the Contractor must use all possible care to avoid injury to the trees, shrubs, or hedges and their roots. No roots or limbs two inches (2") or larger in diameter may be cut without the express approval of the Engineer.

All roots two inches (2") in diameter and larger left in place must be wrapped with burlap to prevent scarring or excessive drying. When it is necessary to cut limbs and branches of trees to provide clearance for equipment used in construction, the Contractor must repair the damaged areas by properly painting with an emulsified asphalt type seal. All cuts through 1/2" or larger roots and limbs must be hand trimmed and cleanly cut before being repaired.

12-2.01 Cultural Resources.

In accordance with the National Historic Preservation Act of 1966 (U.S.C. 470), the following procedures are implemented to insure historic preservation and fair compensation to the Contractor for delays attendant to the cultural resources investigation. Contractor hereby agrees to comply with these procedures.

12-2.02 Surplus Material.

All material removed or excavated during the course of construction will be surplus. All surplus material will be the property of the Contractor and be disposed of outside the right-of-way, unless the City elects to salvage certain objects that are determined to be of historical interest. The City reserves the right of ownership of all objects that it elects to salvage, and the Contractor must protect such objects from subsequent damage until delivered unto the care of the owner.

12-2.03 Historical Finds.

In the event potential historical, architectural, archeological, or cultural resources (hereinafter called cultural resources) are discovered during subsurface excavations at the site of construction, the following procedures will apply:

1. The Contractor must immediately notify the Engineer and stop any Work which may jeopardize the find pending an investigation of its significance;
2. The Engineer will select a qualified archeologist (such as through the Northwest Information Center at Sonoma State University or other official contact) and wait for an archaeologist to complete an evaluation of significance before continuing Work in that area.
3. The Engineer will supply the Contractor with a "Stop Work Order" directing the Contractor to cease all portions of the Work that the Engineer determines may impact the find. The "Stop Work Order" will be effective until a qualified archaeologist assesses the value of the potential cultural resources. The "Stop Work Order" will contain the following:

- a. A clear description of the Work to be suspended;
 - b. Any instructions regarding issuance of further orders by the Contractor for materials services;
 - c. Guidance as to action to be taken regarding subcontractors;
 - d. Any direction to the Contractor to minimize costs; and
 - e. Estimated duration of the temporary suspension.
4. If the archaeologist determines the potential find is a bona fide cultural resource, the Engineer may extend the duration of the "Stop Work Order" in writing, and if so the "Stop Work Order" will remain in effect and Work subject to the "Stop Work Order" may not resume work until authorized by the Engineer.

12-2.04 Cultural Resources Defined.

Possible indicators that a cultural resource has been found include, but are not limited to the following:

1. Prehistoric-era archaeological site indicators: obsidian tools, tool manufacture waste flakes, grinding and other implements, dwelling sites, animal or human bones, fossils, and/or locally darkened soil containing dietary debris such as bone fragments and shellfish remains;
2. Historic-era site indicators: ceramic, glass, and/or metal.

12-2.05 Engineer's Discretion.

Once possible cultural resources are found at the Work site, the Engineer may use discretion to continue the work, regardless of the cultural resource find, if the Engineer determines that there are overriding considerations such as the instability of the excavation site, that there are weather or other conditions which would preclude leaving the site exposed, or if the site would be unsafe to workers who would retrieve cultural resource items from therein.

SECTION 13 Safety Rules and Requirements

13-1.01 General

- a. Within ten (10) working days following notice of award the Contractor must submit to the City a safety program for the Work site (“Contractor’s Safety Program”) and provide evidence that the Contractor’s safety policies and procedures relevant to the Work.
- b. The Contractor shall insure that its employees and subcontractors, as well as visitors and others brought onto the Work site under the authority of the Contractor, shall, at all times, observe all applicable Local, State and Federal safety requirements as well as the safety rules and requirements contained in this Contract including, but not limited to, the Contractor’s Safety Program.
- c. In accordance with generally accepted construction practices and applicable law, the Contractor will be solely and completely responsible for conditions at the Work site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours. For purposes of California Labor Code Section 6400 and related provisions of law, the Contractor and the Contractor’s privities and any other entities engaged in the performance of the Work will be “employers” responsible for furnishing employment and a place of employment that is safe and healthful for all employees of any such entities engaged in the performance of the Work. Neither the City nor its officials, officers, employees, agents, volunteers or consultants will be “employers” pursuant to California Labor Code Section 6400 and related provisions of law with respect to the Contractor, the Contractor’s privities or other entities engaged in the performance of the Work.
- d. The Contractor agrees with respect to the Work, and the Work site, the Contractor will be responsible for not creating hazards and for having hazards corrected and/or removed, for taking appropriate, feasible steps to protect the Contractor’s employees from such hazards and that the Contractor has instructed and/or will instruct its employees to recognize such hazards and how to avoid the associated dangers.
- e. The Contractor will be solely responsible for the implementation and maintenance of safety programs to ensure that the Work site is maintained and the Work is performed in a safe manner in accordance with the Contract and applicable law. If the Contractor damages City equipment or property, the Contractor shall report the incident to the Engineer on or before the next calendar day and provide such information as necessary for the City to evaluate the damage.
- f. The Contractor shall submit a written request to the Engineer in order to obtain keys or other devices to gain access to City facilities. Keys and other devices shall not be copied or otherwise replicated and shall remain in the possession of the Contractor and its employees or subcontractors at all times and shall be returned to the City when no longer required to complete the Work.
- g. The Contractor must furnish and place proper guards and systems for the prevention of accidents, including, but not limited to, those systems required pursuant to Title 8,

Section 1670 et seq. of the California Code of Regulations concerning safety belts and nets. The Contractor must provide and maintain any other necessary systems or devices required to secure safety of life or property at the Work site in accordance with accepted standards of the industry and applicable law. The Contractor must maintain during all night hours sufficient lights to prevent accident or damage to life or property.

- h. Examination, inspection, investigation, and review by the City and or its employees and representatives, of the Contractor's Safety Plan or the Contractor's performance of the Work will not constitute review or approval of the adequacy of the Contractor's safety measures in, on, or near the Work site and shall not relieve the Contractor of any of the Contractor's obligations under the Contract and applicable law to ensure that the Work site is maintained and the Work is performed in a safe manner.

13-1.02 Safety Supervisor; Hazardous Substances

- a. The Contractor shall designate an individual who is qualified and authorized to supervise and enforce compliance with the Contractor's Safety Program ("Safety Supervisor"). The Contractor shall notify the Engineer in writing prior to the commencement of the Work of the name and contact information of the Safety Supervisor. The Safety Supervisor shall be either a full-time employee of the Contractor or a contracted safety consultant with experience and/or professional certifications indicating experience in construction safety. The Safety Supervisor shall provide the City, upon request, with weekly safety inspection reports identifying hazards found and corrective actions taken. The Safety Supervisor shall also be responsible for supervising compliance with applicable safety requirements on the Work site and to develop and implement safety training for all job personnel. The City shall have the authority, but not the duty, to require the Contractor replace the Safety Supervisor if the Supervisor's performance is judged by the City to be improper or inadequate.
- b. Prior to beginning the Work, the Contractor shall review the City's Hazard Communication Program. In addition, if the Contractor brings any substance onto City property, other than gasoline or diesel fuel, for which a manufacturer has prepared a Materials Safety Data Sheet (*MSDS*), in quantities greater than 25 pounds, 200 cubic feet, or five gallons; or any substance defined in Cal/OSHA regulations as "acutely hazardous;" or if the Contractor's work activities may expose City employees to any of the substances described above, the Contractor shall first complete and submit to the Engineer a "Report of Use/Storage of Hazardous Substances on City Property" form (*form(s) provided at Project's Pre-Construction meeting*).

13-1.03 Non-Compliance with Safety Rules and Regulations

- a. In the event the Contractor fails to comply with applicable Local, State and Federal safety requirements, or the safety rules and requirements contained in this Contract including the provisions of the Contractor's Safety Plan, the City reserves the right to (i) notify the Contractor of its failure to comply, and the reasons therefore, and require that the Contractor immediately undertake, at Contractor's own expense, all actions necessary to bring the Contractor and/or the Project into compliance and (ii) exercise the right to suspend all or part of the Work if the Contractor fails or refuses to undertake and complete such corrective action within the time specified in the notice.

- b. No extension of time or additional compensation will be granted as a result of any suspension of the Work and any issuance by the City of any notice or suspension order shall not operate to waive or otherwise diminish the (i) Contractor's obligations under this Contract to provide a safe Work site or (ii) City's right to pursue or enforce any remedy, power or right under the Contract or otherwise available at law.

13-1.04 Accidents and Safety Emergencies

- a. In accidents or emergencies affecting the safety or protection of persons, the Work, the Work site, or property adjacent thereto, the Contractor shall immediately act to prevent threatened damage, injury or loss and notify the Engineer as soon as possible of the facts and circumstances surrounding the emergency including the involvement of any emergency responders (police, fire, medical, etc.).
- b. The City reserves the right to conduct an investigation of the accident or emergency either in conjunction with, or separate of, the Contractor, and the Contractor shall provide the City all access necessary to permit the City to perform a full and complete investigation, the scope of which shall be at the sole discretion of the City.
- c. Within 24 hours of accidents or emergencies involving in-patient hospitalization or a fatality, the Contractor shall provide the Engineer with a completed Contractor's Injury/Fatality Incident Report (*form(s) provided at Project's Pre-Construction meeting*). The Contractor shall also notify the Engineer in writing of any claims brought against the Contractor, or any subcontractor, judicial or otherwise, related to any such injuries and/or fatalities including a copy of such claim(s).

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SECTION 14 Special Provisions (if applicable)

Technical Specifications



TECHNICAL SPECIFICATIONS

FOR

**MARCH AVENUE RECONSTRUCTION
& PEDESTRIAN UPGRADES**



DECEMBER 2025

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SECTION 1

GENERAL

1.01A Description: General work shall conform to the requirements as specified in Section 1 “General” of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

1.01B Mobilization and Demobilization: Mobilization and demobilization shall consist of preparatory work and operation including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to and from the project site and for all other work and operation which must be performed or costs incurred prior to beginning and at the cessation of work on the various contract items on the project site in accordance with the Project Plans, these Technical Specifications, and as directed by the Engineer.

1.01C Layout and Site Preparation: Layout all work, establish grades, locate existing underground utilities, set markers and stakes, set up and maintain barricades and protect all utilities and existing facilities prior to beginning the work.

Installation of temporary stormwater best management practices shall be installed as the first order of work prior to any excavation, including potholing.

1.04A Construction Limitations: An encroachment permit is not required for this project. A traffic control plan will be required for this project. Traffic control plans must be submitted for approval to the City a minimum of five business days in advance of the anticipated work. The Contractor must inform the fire department, police department, post office, and Sonoma County Transit of anticipated impacts to traffic including single lane closures. The contractor shall notify affected property owners a minimum of five business days in advance of any restrictions which impact access to and from driveways. Coordination between the City, emergency services, and affected property owners is the responsibility of the Contractor.

1.07A Pedestrian Traffic Control: The Contractor is directed to Chapter 6D, Pedestrian and Worker Safety, in the CA MUTCD, the improvement plans and these Technical Specifications.

Pedestrians shall be provided with a safe convenient and accessible path that, at a minimum, replicates the most desirable characteristics of the existing sidewalk, path or footpath. At no point along the road shall the sidewalks on both sides of the road be closed at the same time.

The Contractor shall construct and maintain temporary pedestrian pathways through the work zone, where required, that shall be in compliance with the requirements of the Americans with Disabilities Act (ADA), and the CA MUTCD.

Pedestrian routes shall not be impacted for the purposes of any non-construction activities such as parking of vehicles or equipment, or stock piling of materials. Pedestrians shall not be led into conflicts with work site vehicles, equipment or operations.

Pedestrian routes shall be open and accessible at the end of the work day unless an alternate ADA compliant route has been approved by the Engineer. The construction of curb ramps and/or long sections of sidewalk do not alleviate the Contractor from this requirement.

The contractor shall submit a traffic control plan including anticipated closures to the City for

approval, a minimum of five business days in advance.

1.12 Construction Stakes: Construction Stakes shall be provided by the Contractor.

1.13 Working Days: Working days shall be as defined in the Caltrans Standard Specifications.

1.14 Tree Protection: Pruning of existing trees to remain shall be done as necessary to perform the work. All pruning shall be performed according to International Society of Arboriculture (ISA) or National Arborists Association (NAA) standards, by qualified personnel. Pruning shall be done by ISA certified tree workers or certified arborists, or under the direct supervision of a Contractor supplied certified arborist.

All tree roots of existing trees to remain greater than two inches which are encountered during excavation must be pruned by hand. The root shall be cut cleanly with a saw to avoid splits. When digging within the drip line of trees, the Contractor shall exercise extreme caution to avoid pulling on roots with excavation equipment. Hand dig around all roots greater than one inch in diameter. The Contractor arborist shall provide direction when requested by the Engineer.

Any trees, brush, shrubs, or other natural objects not ordered removed by the Engineer which have been removed, altered, or damaged shall be replaced in kind by the Contractor before completion of the project.

1.15 Project Identification Sign: Contractor shall furnish and install temporary construction project identification signs at each end of the project at locations designated by the City. Signs shall measure 48" x 30" and shall be constructed using a minimum 3/4" exterior-grade plywood. Signs shall comply with the format and details indicated in Caltrans C48B(CA) and these Project Plans.

Project identification signs shall be prepared by a professional sign fabricator.

Submit shop drawings showing full-size layout, lettering, colors, and materials. Color chips to be provided for review if requested. Submit cut sheets for materials to be used.

Project identification signs shall have at least one coat of white exterior paint on the back and edges with an exterior-grade primer top coat for moisture protection.

Each project identification shall be securely mounted to a minimum of two 4-inch by 4-inch wooden posts or other appropriate method as approved by the Engineer.

Project identification signs shall be installed as the first order of work and removed at the completion of construction or when directed by the Engineer.

1.16 Payment: Mobilization and Demobilization shall be paid for on a **lump sum** basis, which price shall include full compensation for furnishing all labor, materials, equipment, tools and incidentals necessary for doing all work involved in mobilization and demobilization as specified herein, as directed by the Engineer, and no additional allowance will be made therefor. Bid Price for Mobilization shall not exceed 5% of the total bid price.

Project Identification Sign shall be paid for at the contract price **each**, which price shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and doing all work involved to furnishing, fabrication, delivery, installation, maintenance, and

removal of 48" × 30" Construction Project Identification Signs and associated temporary supports and any other work required for Project Identification Signs not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Utility Clearances (Potholing) shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all labor, materials, tools and equipment, and doing all the work involved in verifying utility clearances, including but not limited to: potholing to verify potential conflicts, grades and alignments of existing facilities to be connected to; excavation; backfill; notification; and coordination and redirection of crews to other contract work if required, as specified herein, and no additional allowance will be made therefor. Bid Price for Utility Clearances shall not exceed 5% of the total bid price.

Vehicular and Pedestrian Traffic Control shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all labor, materials, tools and equipment, and doing all work involved in vehicular and pedestrian traffic control, including but not limited to, providing, placing, maintaining, and removal of temporary paths and/or ramps, temporary relocation of regulatory signs, changeable message boards, project and public notification signs, flagging, excavation, compaction, furnishing, and placement of asphalt concrete and/or PCC, barricades, toe-rails, hand rails, complying with CA MUTCD Standards for Pedestrian Safety, coordination efforts and any other items necessary for vehicle and pedestrian traffic control not specifically enumerated in the plans or these specifications, and no additional allowance will be made therefor.

SECTION 2

TESTING OF MATERIALS

2.01A Description: Testing of Materials shall conform to the requirements as specified in Section 2 "Testing of Materials" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

2.02 Payment: Full compensation for conforming to the provisions 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 3

EARTHWORK

3.01A General: Earthwork shall conform to the requirements as specified in Section 3 "Earthwork" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, Section 19 of the Caltrans Standard Specifications, and any modifications or additions herein and/or on the Project Plans.

3.05 Roadway Excavation: The Contractor shall provide reference points and cut sheets for the excavation of the roadway as determined by a licensed land surveyor. The Contractor shall furnish an excavation and paving plan and a qualified grade setter to ensure the subgrade conforms to the lines and grades indicated on the Project Plans.

Roadway Excavation shall be performed with a pavement grinder. No other construction equipment including rubber-tired equipment shall be allowed on the subgrade.

The Contractor shall select equipment and perform construction using means and methods which does not cause any damage the existing subgrade, existing facilities, and/or new improvements.

Roadway excavation and asphalt concrete base paving, including Stabilization Fabric per Section 4 of these Technical Specifications, shall be completed for half the street width before beginning excavation of the remaining street.

The Contractor shall note that there are street trees near areas intended for roadway excavation. The Contractor's operation, including the size of the grinding equipment, shall be such, so as to ensure that existing street trees are not damaged. Where limited clearance under the street trees prevents the use of a grinder, excavation shall be performed by an alternate method as approved by the Engineer. Alternate methods may include jackhammering and removal of existing pavement and base materials by hand, or by use of smaller grinding equipment.

Where tree roots are encountered during roadway excavation, the Contractor shall cut the roots off six inches below the planned subgrade. Each cut shall be clean with no torn bark or splintered wood remaining on the root and shall be accomplished by use of a saw appropriate for the size of the root to be cut.

3.06 Subgrade Stabilization (Digouts): Any area of the subgrade determined by the Engineer to be unsuitable shall be removed to the limits marked in the field by the Engineer and to a depth below the subgrade plane in accordance with the detail indicated on the Project Plans. Soil stabilization fabric shall be placed and asphalt base shall be placed and compacted to fill the excavation in accordance with the detail indicated on the Project Plans.

The excavation shall be filled with asphalt base as defined in Section 6 of these Technical Specifications to return the excavation to grade after the material is compacted with a minimum 7-ton vibratory roller or approved equal and has obtained a minimum 93% relative compaction. In the situation where a roller is not able to compact the asphalt base as specified, placement and compaction shall be as directed by the Engineer.

The areas to be stabilized will be marked in the field by the Engineer after roadway excavation of the area is complete. Use of a pavement grinder shall be considered an acceptable method of excavation of areas requiring subgrade stabilization.

3.07 Surplus Material: All material excavated from the project shall be the property of the Contractor. Contractor shall comply with all disposal regulations such as City, County, and/or State permits and licenses, as may be required. All asphalt and concrete removed from the project shall be recycled.

3.08 Fill Material: Fill materials, if need to establish subgrade to meet the finished grades indicated on the project plans shall be Class 2 aggregate base.

Fill should be moisture conditioned to within a range of 0% to +2% of the optimum moisture content, placed in 8-inch loose lifts, and compacted in accordance with Section 3.03 of the City Standards and as indicated on the Project Plans.

3.09 Payment: Roadway Excavation shall be a final pay quantity (F) paid for at the contract price per **cubic yard**, which price shall include full compensation for all work as specified herein including grinding, excavation, removal, hauling, disposal, and recycling of existing bituminous pavement, concrete, and base materials and no additional allowance will be made therefor.

Subgrade Stabilization (Digouts) shall be paid for at the contract price per **square yard** as measured in the field which price shall include full compensation for stabilization fabric, asphalt concrete base, compaction, doing all work involved in stabilizing the subgrade as specified herein including labor, materials, tools and equipment, excavation, and no additional allowances will be made therefore.

The quantity of Subgrade Stabilization (Digouts) is unknown. The quantity listed in the bid schedule is based on approximately 10% of the anticipated quantity of Soil Stabilization Fabric. In the event of an increase or a decrease in the amount of the engineer's estimated quantity of Subgrade Stabilization, such increase or decrease shall not be considered an alteration in excess of the 25 percent of the contract amount of such items under provisions of Section 4-1.05 of the Standard Specifications and no adjustment of the contract price for Subgrade Stabilization will be made.

No additional compensation will be made for excavation and stabilization beyond the limits of the areas marked by the Engineer or for excavation and stabilization or locations other than those marked by the Engineer. Any excavation for subgrade stabilization done by the Contractor to accommodate equipment width beyond the limits of the areas marked by the Engineer shall be at the Contractor's expense.

The cost for the stabilization fabric and asphalt concrete base shall be included with the contract unit price provided for Subgrade Stabilization (Digouts).

Earthwork shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor and shall include but not limited to, all compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to excavate, fill, compact, grade, and dispose of surplus materials as necessary to meet final grades indicated as indicated on the Project Plans, as specified herein, and as directed by the Engineer, and no additional compensation will be made therefor.

SECTION 4
ENGINEERING FABRICS

4.01A General: Engineering fabrics shall conform to the requirements specified in Section 4 "Engineering Fabrics" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

4.04 Subgrade Enhancement Geotextile:

A. Materials: Subgrade enhancement geotextile (Soil Stabilization Fabric) shall be installed per manufacturer's recommendations and shall meet or exceed the following specifications:

Property	Minimum Requirements	Test Method
Grab Tensile Strength	290 lb.	ASTM D4632
Mullin Burst Strength	500 psi	ASTM D3786
Trapezoid Tearing Strength	113 lb.	ASTM D4533
Modulus (Load at 10% Elongation)	120 lb.	ASTM D4632
Apparent Opening Size	40-70 sieve	ASTM D4751
Permittivity	0.05 sec ⁻¹	ASTM D4491

Soil stabilization fabric shall be Mirafi 600-X, GeoTex 315ST, Carthage Mills FX-66, TerraTex HD, or approved equivalent.

B. Installation: Prior to placement of soil stabilization fabric, the Contractor shall remove all loose dirt left from excavation operations. The subgrade to receive the geotextile fabric, immediately prior to placing, shall conform to Section 3 "Earthwork" of these Specific Provisions and as shown on the plans.

Geotextile fabric shall be handled, placed, and secured to the subgrade in accordance with the manufacturer's recommendations. In addition, the fabric shall be aligned and placed in a wrinkle-free manner. Adjacent borders of the fabric shall be overlapped a minimum of 12 inches. The preceding roll shall overlap the following roll in the direction the material is being spread.

Soil stabilization fabric shall be placed over the entire subgrade area.

4.06 Payment: Soil Stabilization Fabric shall be paid for at the contract price per **square yard** as measured in the field. Payment shall include full compensation for doing all work involved in placing the fabric including root pruning labor, materials, tools and equipment, and no additional allowance will be made therefor.

Full compensation for Soil Stabilization Fabric used for Subgrade Stabilization (Digout) shall be considered as included in the unit price paid for Subgrade Stabilization (Digout) and no additional allowance will be made therefor.

SECTION 5

AGGREGATE BASE

5.01A General: Aggregate Base shall conform to the requirements as specified in Section 5 “Aggregate Base” of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

5.02 Quality Requirements: The minimum sand equivalent shall be 31 for any individual test.

5.03 Compacting: The surface of the finished aggregate base shall be firm and unyielding. Any visible movement vertically or horizontally of the aggregate base under the action of construction equipment or other maximum legal axle loads shall be considered as evidence that the aggregate base does not meet this requirement.

5.05 Payment: Class 2 Aggregate Base shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor and shall include but not limited to, all compensation for furnishing all labor, materials, tools and equipment and doing all the work involved in furnishing and placing the base material as specified, including furnishing, hauling and applying water as specified and directed by the Engineer.

SECTION 6

ASPHALT CONCRETE

6.01A General: Asphalt Concrete shall conform to the requirements as specified in Section 6 “Asphalt Concrete” of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

6.01 Description: Shall conform to Section 39 of the Caltrans Standard Specifications, except as herein modified, and shall be Type A asphalt concrete using a steam-refined paving asphalt grade AR4000. The aggregate grading of the various types of asphalt concrete indicated on the Project Plans shall conform to the following:

Surface.....½-inch Coarse HMA Type A

Leveling Course or Base Course.....¾-inch HMA Type A

Asphalt concrete shall be placed in separate lifts as indicated on the Project Plans.

Asphalt concrete surface must be placed and compacted at ambient temperatures of 60°F or greater. Asphalt concrete base must be placed and compacted at ambient temperatures of 50°F or greater. Asphalt concrete shall not be placed during any form of precipitation.

Refer to Section 4 of these Specific Provisions for engineering fabrics.

6.04 Stage Construction: Asphalt concrete surface shall be placed no more than 5 days after the placement of the asphalt concrete base layer(s).

Asphalt concrete base shall be placed on the same day the area is excavated so that all areas will either have existing asphalt surface or new asphalt concrete base by the end of each working day. No subgrade areas shall be exposed or open to traffic during non-working hours.

When cold joints are approved by the Engineer at the end of a days paving, they shall be papered. Asphalt shall not be placed over another layer until the temperature at mid depth of the lower layer is not more than 160° F.

All longitudinal surface paving joints shall fall on a lane line. Longitudinal Subsurface paving joints shall be offset by at least 6 inches.

No longitudinal vertical drop offs will be allowed between the lanes when the roadway is opened to traffic. Where a longitudinal vertical drop off occurs along the roadway crown between the existing street surface and the new asphalt concrete base, the Contractor shall grind a 10:1 taper in the existing surface to make a temporary conform to accommodate traffic. The temporary taper shall be ground after the asphalt concrete base paving has been completed each day.

Where a vertical drop off will occur between the top of the new asphalt concrete base and a valley gutter, driveway, or side street conform, the Contractor shall install a temporary 12:1 asphalt taper.

Where a vertical drop off would occur between the asphalt concrete base and a pedestrian ramp, the Contractor shall install a temporary 12:1 asphalt taper.

All ground edges adjacent to curb ramps and driveways shall have temporary asphalt concrete ramps (tapers) installed if the asphalt concrete surfacing cannot be placed back the same day the existing pavement is removed. Kraft paper or other bond breaker shall be placed under the conform ramps to facilitate removal when paving operations start.

Kraft paper or other bond inhibitor shall be placed under the temporary asphalt taper to facilitate removal when paving operations resume.

Temporary asphalt tapers and associated bond breaker material shall be removed prior to placement of the asphalt concrete surface lift. Where the bond breaker material adheres to the asphalt concrete base course it shall be fully removed with a method, approved by the Engineer that will in no way degrade the quality of the final product.

The Contractor shall furnish an excavation and paving plan which shall include the following:

1. Location for survey staking of reference points
2. Asphalt plant supplying mix including aggregate source
3. Disposal site for spoils
4. Type of trucks and equipment to be used
5. Haul routes through adjacent residential streets
6. Staging locations
7. Sequencing
8. Taper grind locations

The Contractor shall set a string line based on the reference points to control the grade of the paving machine along the crown line. A rotary laser level may be used in lieu of a string line provided the level can be accurately set to the design centerline slope, and the detector is directly mounted to the paving machine screed to control the grade of the paving along the crown line. The Contractor shall also furnish a grade setter to ensure that the asphalt concrete base and asphalt concrete surface paving conforms to the lines and grades established by the Engineer.

6.06 Spreading and Compacting Equipment: Asphalt paving shall be accomplished by use of a paving machine. The asphalt mix shall be transferred from the trucks to the hopper of the paving machine by means of a tracked material transfer vehicle similar to the Vogeles MT3000-2I.

Any equipment used to transfer asphalt concrete to the paving machine shall not exceed the load capacity of any surface it is driven over and shall not produce rutting or pumping of the existing roadway surface or newly placed asphalt concrete base at any time.

Construction vehicles/equipment shall not be allowed on the newly placed asphalt concrete base until 24-hours after it is placed. Super Dumps or other trucks with liftable trailing load bearing axles shall not be allowed on the newly placed asphalt concrete base at any time. All trucks or other construction equipment to be driven on the newly placed asphalt concrete base shall not exceed the surface load bearing capacity and shall not produce rutting or pumping at any time.

6.08 Measurement: Asphalt quantities measured and paid for per ton shall be computed based on the combined weight of the mixture placed in the field which shall be supported by State Certificates of Weights and Measures tags furnished by the Contractor.

6.09 Payment: Asphalt Concrete Surface shall be paid for at the contract price per **ton**, which price shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all work involved in placing asphalt concrete surface and overlay, including tack coat and overlay conforms, and no additional allowance will be made therefor.

Asphalt Concrete Base shall be paid for at the contract price per **ton**, which price shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all work involved in placing asphalt concrete base, including tack coat and temporary tapers, and no additional allowance will be made therefor.

0.25' Pavement Mill shall be paid for at the contract price per **square yard**, which price shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all work involved in milling, including but not limited to drop-offs, tapers, transportation and disposal of millings as specified herein, and no additional allowance will be made therefor.

Full compensation for Deep Lift Paving adjacent to curb and gutter replacement outside of reconstruct areas shall be paid for at the respective asphalt concrete surface and asphalt concrete base unit prices and no additional allowance will be made therefor.

Full compensation for Asphalt Concrete Leveling courses shall be included in the contract price for asphalt concrete base and no additional allowance will be made therefor.

Full compensation for installing and removing temporary asphalt tapers shall be included in the contract price for asphalt concrete surface and no additional allowance will be made therefor.

Full compensation for furnishing weigh master's certificates shall be considered as included in the contract price paid per ton for asphalt concrete surface and asphalt concrete base and no additional allowance will be made therefore.

SECTION 7

SIGNING AND STRIPING

7.01A General: Traffic Stripes, Pavement Marking and Signing shall conform to the requirements as specified in Section 7 "Signing and Striping" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

7.02A Existing Traffic Signs: Existing traffic signs shall be relocated where specifically indicated on the Project Plans and where directed by the Engineer, and shall conform to Section 56 of the Caltrans Standard Specifications, the current edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD), and applicable City Standards.

Where existing signs are shown on the plans in areas of sidewalk replacement, the signs shall be protected from damage during construction or relocated as indicated on the Project Plans. Signs which the Engineer determines have been damaged during construction shall be replaced in their entirety including all labor, materials, tools and equipment including pole, mounting hardware, foundation and doing all work involved in providing and installing street signs, complete as specified herein, and no additional allowance will be made therefore.

7.03 Pavement Striping, Markings and Markers: Striping and pavement markings shall be thermoplastic as indicated on the Project Plans, in accordance with Section 84-2 of the Caltrans Standard Specifications, and the applicable Caltrans Standard Plans.

The Contractor shall provide and install temporary retro-reflective pavement markings on the same day as the existing permanent markings are removed or destroyed, or as directed by the Engineer, and maintain them until the new permanent markings are in place.

Temporary striping on all ground surfaces shall be paint (white and/or yellow) with retro-reflective glass beads or an approved equivalent and shall be installed the same day as the existing permanent striping is removed, or as directed by the Engineer. Temporary striping shall be maintained until new permanent striping is in place.

Existing pavement markings, including crosswalks, disturbed by construction activities shall be replaced in their entirety.

All striping to be replaced shall match existing sections in kind unless approved by the Engineer.

The Contractor shall remove all existing traffic striping and pavement marking in conflict with proposed improvements, as shown on the Plans, and as directed by the Engineer, and shall be responsible for the proper disposal of their grindings away from site work.

Permanent traffic stripes and pavement markings shall be installed after all iron has been raised for that particular street section, but no more than five days after final paving for that section of roadway.

Existing stripes and pavement markings to remain, which are damaged by the work shall be replaced at the Contractor's expense. This includes areas outside the immediate project limits.

Painted curbs which are damaged or replaced as part of the work shall be repainted to match existing conditions.

7.07 Payment: Remove and Dispose Pole shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, and labor, and doing all the work involved as herein specified, including but not limited to, removal of existing poles, proper disposal of removed poles in accordance with applicable regulations, site cleanup, restoration of affected areas, all temporary traffic control measures, any other work required to remove and dispose of poles not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Relocate Signs to New Pole shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, removal of existing signs from current locations, installation of signs onto new poles, provision of necessary mounting hardware, alignment and adjustment of signs for proper visibility, site cleanup, all temporary traffic control measures, any other work required to relocate signs to new poles not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Furnish and Install New Pole shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying new poles meeting project specifications, excavation and preparation of pole foundation, installation and securing of poles, backfilling and compaction, site cleanup, all temporary traffic control measures, any other work required to furnish and install new poles not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Furnish and Install New Sign shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying new signs meeting project specifications, provision of necessary mounting hardware, installation of signs onto existing or new poles, alignment and adjustment of signs for proper visibility, site cleanup, all temporary traffic control measures, any other work required to furnish and install new signs not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Traffic Stripe (6" White) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying white thermoplastic pavement marking material, surface preparation, application of thermoplastic stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, any other work required to furnish and install thermoplastic traffic stripes not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Traffic Stripe (8" White) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials,

and labor, and doing all the work involved as herein specified, including but not limited to, supplying white thermoplastic pavement marking material, surface preparation, application of thermoplastic stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, any other work required to furnish and install thermoplastic traffic stripes not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Traffic Stripe (12" White) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying white thermoplastic pavement marking material, surface preparation, application of thermoplastic stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, any other work required to furnish and install thermoplastic traffic stripes not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Traffic Stripe (Detail 39A) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material conforming to Caltrans Detail 39A specifications, surface preparation, application of thermoplastic stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, any other work required to furnish and install thermoplastic traffic stripes (Detail 39A) not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Measurement will be made in linear feet along the full length of the dashed segment of striping, beginning at the intersection and continuing to the point where adjacent continuous striping begins.

Thermoplastic Traffic Stripe (Detail 22) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material conforming to Caltrans Detail 22 specifications, surface preparation, application of thermoplastic stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, any other work required to furnish and install thermoplastic traffic stripes (Detail 22) not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Traffic Stripe Bicycle Buffer (Parking Permitted) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for bicycle buffer zones conforming to project specifications, surface preparation, application of thermoplastic buffer stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, ensuring

compatibility with permitted parking adjacent to the buffer, any other work required to furnish and install thermoplastic traffic stripe bicycle buffer (Parking Permitted) not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

The quantity of Bicycle Buffer striping will be measured in linear feet along the length of the stripe adjacent to the travel lane. Measurement will include all continuous and dashed segments where the buffer striping is present. No adjustments will be made to the measured length or unit price due to variations in the width of the Bicycle Buffer striping.

Thermoplastic Traffic Stripe Bicycle Buffer (No Parking) shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for bicycle buffer zones conforming to project specifications, surface preparation, application of thermoplastic buffer stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary traffic stripes, all temporary traffic control measures, ensuring compatibility with permitted parking adjacent to the buffer, any other work required to furnish and install thermoplastic traffic stripe bicycle buffer (no Parking) not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

The quantity of Bicycle Buffer striping will be measured in linear feet along the length of the stripe adjacent to the travel lane. Measurement will include all continuous and dashed segments where the buffer striping is present. No adjustments will be made to the measured length or unit price due to variations in the width of the Bicycle Buffer striping.

Thermoplastic Continental Crosswalk Stripe shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material conforming to continental crosswalk specifications, surface preparation, application of thermoplastic crosswalk stripes, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary crosswalk markings, all temporary traffic control measures, any other work required to furnish and install thermoplastic continental crosswalk stripes not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Pavement Marking (Bike Lane Symbol with Person & Arrow) shall be paid for at the contract unit price per **square foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for bike lane symbols with person and arrow conforming to project specifications, surface preparation, application of thermoplastic markings, temporary pavement markings, all temporary traffic control measures, any other work required to furnish and install Bike Lane Symbol with Person & Arrow not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Pavement Marking (Words) shall be paid for at the contract unit price per **square foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for word markings conforming to project specifications, surface preparation, application of thermoplastic word markings, removal of existing conflicting markings, temporary pavement markings, all temporary traffic control measures, any other work required to furnish and install thermoplastic pavement marking (Words) not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Pavement Markings (Type III L Arrow) shall be paid for at the contract unit price per **square foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for Type III L Arrow markings conforming to project specifications, surface preparation, application of thermoplastic arrow markings, , glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary pavement markings, all temporary traffic control measures, any other work required to furnish and install thermoplastic pavement markings (Type III L Arrow) not specifically enumerated in Caltrans Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Thermoplastic Pavement Markings (Yield Triangles) shall be paid for at the contract unit price per **square foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying thermoplastic pavement marking material for yield triangle markings conforming to project specifications, surface preparation, application of thermoplastic yield triangle markings, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary pavement markings, all temporary traffic control measures, any other work required to furnish and install yield triangles not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Green Preformed Thermoplastic Bike Lane Marking shall be paid for at the contract unit price per **square foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying green preformed thermoplastic pavement marking material for bike lane markings conforming to project specifications, surface preparation, application of preformed thermoplastic markings, glass beads for or pavement markers for reflectivity, removal of existing conflicting markings, temporary pavement markings, all temporary traffic control measures, any other work required to furnish and install green preformed thermoplastic bike lane markings not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Red Painted Curb shall be paid for at the contract unit price per **linear foot**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying red curb paint conforming to project specifications, surface preparation, application of red curb paint, removal of existing conflicting markings, temporary curb markings, all temporary traffic control measures,

any other work required to furnish and install red painted curb not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Fire Hydrant Blue Markers shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying blue retroreflective pavement markers conforming to project specifications, surface preparation, application of blue markers with adhesive butyl pads or epoxy, alignment for proper visibility, removal of existing conflicting markings, temporary markings, all temporary traffic control measures, any other work required to furnish and install fire hydrant blue markers not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

The cost of retroreflective and nonreflective pavement markers, shall be included in the prices paid for the various contract items of work which price shall include full compensation for furnishing all labor, materials, tools and equipment, and doing all work involved in placing raised pavement markers, complete in place, including adhesives, removing existing pavement markers, and no additional allowance will be made therefor.

Full compensation for installing and maintaining temporary signs, striping and markings, including all labor, materials, tools and equipment, complete as herein specified shall be included in the prices paid for various contract items of work and no additional allowance will be made therefor.

SECTION 8

ADJUSTMENT OF MANHOLES AND UTILITY BOXES

8.01A General: Adjustment of manholes and utility boxes shall conform to the requirements as specified in Section 8 "Adjustment of Manholes and Utility Boxes" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

8.02 Adjustment: Adjustment shall conform to the requirements as specified in Section 8.02 of the City Specific Provision with the following additional requirements.

All facilities on active systems shall be accessible at all times to City personnel unless otherwise stated in these Special Provisions or approved by the Engineer.

After placement of the finish course of asphalt concrete the Contractor shall mark all overlaid manholes, valve boxes, mainline cleanouts and monuments, whether new or existing, with white paint by the end of that working day.

All silt and debris shall be removed from finished structures. This shall include all existing silt and debris plus material caused by the Contractor's operation.

If new or existing water valve riser pipe needs to be extended after paving to conform to City Public Works Standard Detail WL09, the Contractor shall use either a slip x slip glued PVC coupling or a transition coupling with sheer bands as directed by the Engineer. Upsizing the existing riser pipe to 8-inch will not be required unless otherwise directed by the Engineer.

Prior to removal of an existing manhole frame, a platform shall be constructed in the manhole above the top of the sewer to prevent any dirt or debris from falling into the sewer. The platform shall remain in place until all work on the manhole has been completed and the asphalt concrete has been placed around the manhole. Prior to the removal of the platform from the manhole, all dirt and debris shall be removed.

All grade rings shall be set in cement mortar the same day they are placed. All joints shall be smoothly plastered inside and out.

Existing grade rings removed in the adjustment of manhole frames shall become the property of the Contractor and if undamaged and thoroughly cleaned of mortar may be reused in the work. If not so used, they shall be disposed of away from the site of work at the expense of the Contractor.

Manhole frames shall be reinstalled to align directly over the grade rings. Any frames misaligned by more than ½ inch shall be removed and reinstalled.

8.03 Payment: **Adjust Existing Valve Box or Monument to Grade** shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, excavation around existing valve boxes or monuments, adjusting the valve box or monument to the specified grade, backfilling and compacting surrounding material, surface restoration, all temporary traffic control measures, any other work required to adjust existing valve boxes or monuments to grade not specifically enumerated in the City Standards, and

other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Adjust Existing Manhole to Grade shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all labor, materials, tools and equipment, and doing all the work involved in adjust existing manholes to grade, including but not limited to, required excavation and backfill, additional grade rings *if required*, furnishing location of manholes to be adjusted to grade, removing and delivering silent night frames and covers, transporting new frames and covers to job site, and removing silt and debris, as specified herein, and no additional allowance will be made therefor.

SECTION 9

CONCRETE

9.01A General: Concrete shall conform to the requirements as specified in Section 9 "Concrete" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

9.01B General: Pavers shall conform to the requirements of Section 9.03 and the information and details indicated on the Project Plans.

9.01 Description: Unless otherwise specified, all concrete shall be constructed out of Class A (6 sack) Portland Cement Concrete with $\frac{3}{4}$ inch aggregate. The maximum slump shall be 3 inches. Minimum compression strength at 28 days shall be 3,000 pounds per square inch.

Colored pigment shall be applied in a dosage of approximately 2 pounds per cubic yard of concrete. Colored pigment shall be Davis Colors color #860 or L. M. Scofield color #SG860 applied in a dosage to produce an equivalent color, or an approved equal for all concrete work other than private residential driveways. Private residential driveways beyond the back of sidewalks shall match the color of the remaining existing residential driveway to remain.

The reconstruction of private residential driveways shall match the appearance of the existing remaining private residential driveway including color, finish, and control joint construction and layout. The Contractor shall construct a 1'x1' sample for each private residential driveway to demonstrate that the proposed color and finish will match the existing private residential driveway. Sample shall be prepared for review and approval by the Engineer a minimum of 15 days before work begins on the private residential driveway reconstruction.

All concrete shall be provided from a source which is certified by the State of California Department of Transportation. No trailered or on-site mixed concrete shall be utilized within the public right-of-way. The Contractor shall submit a current mix design and evidence of plant certification for approval to the City of Healdsburg prior to placing any concrete.

Provide Control Joint submittal to the Engineer for all concrete hardscape work that shows the proposed control/weakened plane joint locations for review and approval a minimum of 2 weeks prior to construction of the hardscape.

Expansion joint material shall be installed full width from gutter to back of sidewalk on both sides of hardscape replacement areas. Expansion joint material shall comply with ASTM D2475, sized accordingly and 1/2" to 3/4" from the top of the finished grade. Fill and seal joints with a self-leveling joint sealant complying with ASTM C920-11, Type S, Grade P, Class 25. Allow appropriate cure time prior to any contact. Finished joints shall not be greater than 1/2" wide by 1/4" deep.

9.02 Submittals: The contractor shall submit manufacturers specifications for pavers, including details on dimensions, compressive strength, water absorption, and finish.

Three (3) samples of each proposed paver color and finish shall be submitted for City selection. The contractor shall also provide the manufacturers standard installation patterns, such as running bond, herringbone, and basket weave, for City selection.

9.03 Pavers: Pavers shall conform to ASTM C936. Paver installer shall have a minimum of three (3) years of experience with similar paver installations.

A. Description:

- a. Manufacturer: Basalite or approved equal
- b. Size: 3"x18"
- c. Thickness: 3-15/16"
- d. Color: Pescadero
- e. Finish: Selected by City from manufacturers standard available finishes

B. Installation: Pavers shall be installed in a running bond pattern, ensuring proper alignment and consistent joint spacing in accordance with the manufacturers specifications and industry standards. Pavers shall be cut as necessary to fit edges of adjacent concrete surfaces using a masonry saw. After installation, pavers shall be compacted with a plate compactor, and polymeric sand shall be swept into the joints. The polymeric sand shall be activated with water per the manufacturer's instructions. Edge restraints shall be installed as required to ensure stability of the paver system.

C. Bedding and Base Materials: Bedding sand shall consist of clean sand conforming to ASTM C33 standards. The base course shall be Class 2 aggregate base, as specified in Section 5, compacted to 95% relative compaction.

D. Joining Material: Polymeric Sand: Fine, dry polymeric sand designed for filling joints between pavers, activated with water to harden.

E. Preparation: The subgrade shall be excavated to the required depth and compacted to provide a stable foundation. The aggregate base shall then be installed and compacted in accordance with project specifications. Bedding sand shall be screeded to a uniform thickness as indicated on the project plans to ensure a level surface for paver installation.

F. Tolerances: The surface elevation of the installed pavers shall be consistent, with no variation greater than 1/8 inch between adjacent sidewalk, curb ramp, and back of curb when measured with a straight edge. Finished joints shall be uniform and shall not exceed 1/8 inch in width to ensure a smooth and aesthetically pleasing surface.

G. Cleaning and Protection: Following installation, all excess sand and debris shall be removed from the paver surface to ensure a clean and finished appearance. The installed pavers shall be protected from damage until final acceptance.

9.04 Curb Ramps: Curb ramps shall be constructed at the locations shown on the Project Plans and in full compliance with the most stringent requirements of the ADA, California Building Code sections 11B-302.3, 11B-406.2, 11B-406.3, and 11B-406.5, as well as City ST06 and Caltrans Standard Plan A88A

Curb ramps will be evaluated using a 4 foot smart level. Newly constructed curb ramps with slopes exceeding those allowed by ADA standards shall be removed and replaced in their entirety including the detectable warning surface and no additional compensation will be provided. Grinding or the application of a cement mortar grout will not be an acceptable alternative to correct unacceptable grades. A single curb ramp shall be constructed for review and approval by the Engineer prior to construction of additional curb ramps.

Curb ramp detectable warning surfaces shall consist of prefabricated raised truncated domes constructed with curb ramps in conformance with the details shown on the plans and Caltrans Standard Plan A88 and these Technical Specifications. The color of the detectable warning surface shall be yellow conforming to the Federal Standard 595A, Co. No. 335838.

The detectable warning surface tiles shall be protected from concrete splatter while installing the cast-in-place detectable warning surface into the PCC sidewalk by a temporary 4 mil plastic sheeting or approved equal.

The finished surfaces of the detectable warning surface shall be free from blemishes. No cutting of the tiles shall be allowed unless indicated on the Project Plans or approved by the Engineer. Installation shall be per manufacturer's instructions or as directed by the engineer.

The manufacturer shall provide a written 5-year warranty for prefabricated detectable warning surfaces, guaranteeing replacement when there is a defect in the dome shape, color fastness, sound-on-cane acoustic quality, resilience, or attachment. The warranty period shall begin upon acceptance of the contract.

9.06 Concrete Cleanup: All oil, paint, tire marks, and other discoloring shall be removed from the sidewalk, driveway apron, curb ramp, valley gutter, and gutter depression by sandblasting prior to acceptance by the Engineer. Cement mortar will not be an acceptable substitute for sandblasting.

9.07 Measurement: Concrete curbs and curb and gutters of the various types will be measured along the front face of the curb line through inlets, depressions, catch basins, driveways, ramps, etc., by the **lineal foot** to the nearest 0.1 foot for each type. Curb heights and width may vary per plan, and no adjustment in the unit prices indicated in the bid schedule will be made.

Concrete sidewalks and curb ramps will be measured to the nearest 0.1 **square foot**, including the area of any detectable warning surfaces (which shall be considered as included in the unit price paid for curb ramp). Curb ramp area will be measured between the outside border of the ramp and flair area as indicated on the Project Plans, and exclude the area of any integral curb or curb and gutter.

Detectable warning surfaces will be measured to the nearest 0.1 **square foot**.

No deduction in measured length of curb and gutter to be paid for will be made for curb openings for driveways or curb ramps.

9.08 Payment: Curb & Gutter shall be paid for at the contract price per **lineal foot**, which price shall include full compensation for furnishing and applying curing materials, forming and constructing curb opening for driveways, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work involved in constructing curb and gutter complete in place as specified, including furnishing and placing expansion joint filler, Class II Aggregate base, root barrier, native backfill if required, constructing weakened plane joints, excavating, and backfilling.

Integral Curb shall be paid for at the contract price per **lineal foot**, which price shall include full compensation for furnishing and applying curing materials, forming and constructing curb, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work

involved in constructing curb and gutter complete in place as specified, including furnishing and placing expansion joint filler, Class II Aggregate base, root barrier, native backfill if required, constructing weakened plane joints, excavating, and backfilling.

Curb Ramp shall be paid for at the contract price per **square foot**, which price shall include full compensation for furnishing and applying curing materials, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work involved in constructing curb ramp complete in place as specified, including furnishing and placing expansion joint filler, sand base layer, Class II Aggregate base, vertical curb, detectable warning surface, removal and restoration of irrigation and landscaping, constructing weakened plane joints, excavating and backfilling.

Sidewalk shall be paid for at the contract price per **square foot**, which price shall include full compensation for furnishing applying curing materials, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work involved in constructing sidewalk complete in place as specified, including furnishing and placing expansion joint filler, constructing weakened plane joints, excavating, and backfilling.

Pavers shall be paid for at the contract price per **square foot**, which price shall include furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying pavers conforming to project specifications, excavation and preparation of base material, installation of bedding sand or other specified bedding material, laying and compacting pavers, cutting pavers to fit edges and fixtures, joint filling, site cleanup, all temporary traffic control measures, any other work required to furnish and install pavers not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor. Contractor to submit pavers to City prior to installation.

Driveway Apron shall be paid for at the contract price per **square foot**, which price shall include full compensation for furnishing and applying curing materials, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work involved in constructing driveway apron complete in place as specified, including furnishing and placing expansion joint filler, constructing weakened plane joints, excavating, and backfilling.

Private Driveway shall be paid for at the contract price per **square foot**, which price shall include full compensation for furnishing and applying curing materials, removing discoloring, furnishing all labor, materials, tools and equipment and doing all the work involved in constructing driveway complete in place as specified, including constructing samples, furnishing and placing expansion joint filler, constructing weakened plane joints, excavating, and backfilling.

SECTION 10

TRENCHING AND BACKFILL

10.01A General: Trenching and placement of backfill work shall conform to the requirements as specified in Section 10 "Trenching and Backfill" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

10.04 Bracing Excavations: Bracing excavations shall conform to the requirements indicated in the City Standards and Section 17 of these Technical Specifications.

10.05A Unstable Trench Overexcavation/Stabilization: If the bottom of the excavation is soft or unstable, and in the opinion of Engineer, cannot satisfactorily support the pipe or structure, a further depth of at least 6 inches below grade shall be excavated and refilled with 3/4" drain rock meeting the requirements of City Standard Section 10 Part 10.09-D.

If greater than 9 inches of drain rock is required to provide a firm foundation for the pipe or structure, a geotextile, Mirafi 140NC or approved equal, shall be placed on top newly placed drain rock.

10.10 Temporary Paving: Utility trenches and any other excavated areas shall be 1/2-inch maximum, medium grade aggregate hot mix asphalt concrete installed a minimum of 2.5 inches thick placed each day over the work.

Temporary paving around edges of steel plates shall be a hot mix 1/2-inch maximum, medium graded aggregate and SC 3000 asphalt binder for use the same day or SC 250 asphalt binder for use over a one week period.

The amount of asphalt binder to be mixed with the aggregate will be specified by the Engineer at the time of paving. Different asphalt binder content may be specified for each lift and each location.

Temporary and permanent asphalt trench paving shall be even and smooth riding. The Contractor shall monitor and maintain all temporary paving to the satisfaction of the Engineer.

10.11 Payment: Full compensation for furnishing and installing bedding, backfill, temporary trench surfacing, temporary trench plates, and other items of work indicated in this section shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor.

SECTION 11

STORM DRAINAGE

11.01A General: All storm drainage work shall comply with Section 66 of the Caltrans Standard Specifications and the requirements as specified in Section 11 “Storm Drainage” of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), relevant sections of the City Standards, and any modifications or additions herein and/or on the Project Plans.

11.02 Materials:

A. Pipe: All storm drain pipe shall be Reinforced Concrete Pipe conforming to Section 11.02. A. 1. of the City Specific Provisions.

B. Manhole and Junction Boxes: Manholes and junction boxes may have cast-in-place concrete bases conforming to the Public Works Standard Details and 11.02. B. of the City Specific Provisions.

11.02A Quality Requirements: Materials for the storm drainage system shall be free from defects and capable of withstanding AASHTO H-20 loads when installed in accordance with the Project Plans and manufacturers written instructions.

11.07 Payment: Storm Drain Curb Inlet shall be paid for at the contract unit price **each**, which price shall include furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing storm drain curb inlet including excavation and preparation of base material, furnishing and placing concrete or other specified materials, connection to existing or new drainage systems, breaking into existing storm drain pipes, concrete collars, backfilling and compacting, installing storm drain labels, surface restoration, site cleanup, all temporary traffic control measures, any other work required to furnish and install storm drain curb inlets not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Remove and Replace Curb Inlet Top shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all labor, tools, materials, and equipment, and doing all work involved in the removal and replacement of structure tops including but not limited to, removal and disposal of existing curb inlet top, supplying and installing storm drain curb inlet tops that match existing base dimensions to remain, excavation, furnishing and placing concrete or other specified materials, backfilling and compacting, surface restoration, site cleanup, all temporary traffic control measures, and any other work required not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

48” Storm Drain Manhole shall be paid for at the contract unit price **each**, which price shall include furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing 48-inch diameter storm drain manholes conforming to project specifications, shoring, excavation and preparation of base material, furnishing and placing concrete or precast manhole components, installation of manhole frames and covers, connection to existing or new drainage systems including all couplings, fittings, and concrete collars necessary to reconnect adjacent storm drain pipes, breaking into existing storm drain pipes, backfilling and compacting, surface restoration, site

cleanup, all temporary traffic control measures, any other work required to furnish and install 48" storm drain manholes not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

18" Storm Drain - (RCP) shall be paid for at the contract unit price per **linear foot**, which price shall include furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing 18-inch diameter reinforced concrete pipe conforming to project specifications, shoring, excavation and preparation of trench base, bedding and laying of pipe, joint sealing, connection to existing or new drainage systems, backfilling and compacting, surface restoration, site cleanup, all temporary traffic control measures, any other work required to furnish and install 18" storm drain RCP not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

SECTION 12
SANITARY SEWER SYSTEM (NOT USED)

SECTION 13

WATER DISTRIBUTION SYSTEM

13.01A General: This work shall include the furnishing of all the labor, materials, tools and equipment to construct and complete in an efficient and workmanlike manner the installation of the water lines in accordance with the approved plans, these Specifications and the Public Works Standard Details to insure an operable, reliable, and watertight system.

13.02 Materials:

A. Water Services:

1. Services: The size of services shall be as indicated on the Project Plans.

13.03 Installation:

A. Installation of Service Lines: The Contractor shall replace existing 1-inch water services using trenchless installation methods by pulling the new service line through the existing service. All work shall be performed in accordance with the Project Plans, these Special Provisions, City Standards, and applicable Federal, State, and Local drinking water standards.

Confirm the existing service line is continuous and unobstructed from the corporation stop to the meter box. Excavate access pits at the corporation stop and meter box verifying utility clearances and locating all underground utilities along the entire length of the service line prior to beginning work.

Disconnect the existing service line at both ends, attach the new service line to the existing line using a pulling head or approved method. Pull the new line through the existing service using a winch ensuring no damage to the new service line pipe. Tracer wire shall be installed along the full length of the new service. Connect new service to existing corporation stop and install a new angle meter ball valve and connect to the existing meter per City Standards.

New service shall be flushed, disinfected, and tested in accordance with AWWA standards prior to being put into service.

If trenchless installation of the 1" water service is not feasible due to obstruction, collapse, or other conditions that prevent successful pull-through, the Contractor shall notify the Engineer immediately. Upon confirmation by the Engineer, the service line shall be replaced using open-cut methods.

Payment for the "Replace 1" Water Service (Trenchless Method)" bid item will be made regardless of whether trenchless installation is successful. If open-cut installation is authorized by the Engineer, the additional work will be paid for at the unit price provided for the separate "Additional Cost to Open-Cut Replace 1" Water Service" bid item.

13.06 Payment: Remove and Dispose of Existing Fire Hydrant & Lateral shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and doing all work involved in removing and salvaging existing fire hydrant and disposing of pipe and appurtenances, including but not limited to: excavation and disposal of excavated material; dewatering and disposal of trench groundwater; removal and salvage of existing fire hydrant; removal and separating existing hydrant barrels from risers and buries; removal and disposal of riser, break-off check valve, bury and associated appurtenances; placing and compacting all required bedding and backfill including control density fill *if required*; trench plates *as needed*; removal and replacement of curb, gutter, and sidewalk *as needed*; temporary trench paving; as specified herein, and no additional allowance will be made therefor.

Replace 1" Water Service (Trenchless Method) shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing 1-inch diameter water service lines using trenchless methods conforming to project specifications, excavation, disconnection and removal of existing water service lines, installation of new service lines, connection to existing water mains and meters, pressure testing, disinfection, removal and disposal of excavated materials, dewatering and disposal of trench groundwater *if required*; placing and compacting all required bedding and backfill including control density fill *if required*, trench plates *as needed*, removal and replacement of curb, gutter, and sidewalk *as needed*, temporary trench paving, restoration of pavement, landscaping, or other surfaces, site cleanup, all temporary traffic control measures, any other work required to replace 1" water service using trenchless methods not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Additional Cost to Open-Cut Replace 1" Water Service shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor for the additional work required when open-cut installation is deemed necessary by the Engineer, including but not limited to, excavation of trenches, subgrade stabilization as required, trench shoring and bracing as necessary, removal and disposal of excavated materials, dewatering and disposal of trench groundwater *if required*; placing and compacting all required bedding and backfill including control density fill *if required*, trench plates *as needed*, removal and replacement of additional curb, gutter, and sidewalk *as needed*, temporary trench paving, restoration of pavement, landscaping, or other surfaces, site cleanup, all temporary traffic control measures, any other additional work required for open cut water service replacement not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

The quantity of "Additional Cost to Open-Cut Replace 1" Water Service" is unknown. The quantity listed in the bid schedule is included for bidding purposes only. In the event of an increase or a decrease in the amount of the engineer's estimated quantity of "Additional Cost to Open-Cut Replace 1" Water Service", such increase or decrease shall not be considered an alteration in excess of the 25 percent of the contract amount of such items under provisions of Section 4-1.05 of the Standard Specifications and no adjustment of the contract price for Subgrade Stabilization will be made.

No additional compensation will be made for open-cutting water services at locations other than those previously approved by the Engineer in the field. Any open cutting of water services done by the Contractor beyond those approved by the Engineer shall be at the Contractor's expense.

Replace 2" Water Service & Multi Service Manifold shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing 2-inch diameter water service lines and multi service manifolds, disconnection and removal of existing water service lines and manifolds, installation of new service lines and manifolds, connection to existing water mains and meters, pressure testing, disinfection, removal and disposal of excavated materials, dewatering and disposal of trench groundwater *if required*; placing and compacting all required bedding and backfill including control density fill *if required*, trench plates *as needed*, removal and replacement of curb, gutter, and sidewalk *as needed*, temporary trench paving, restoration of pavement, landscaping, or other surfaces, site cleanup, all temporary traffic control measures, any other work required to replace 2" water service and multi service manifold not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Fire Hydrant and Lateral Assembly shall be paid for at the contract price **each**, which price shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and doing all work involved to install fire hydrant and lateral assemblies, including but not limited to: excavation and disposal of excavated materials; dewatering and disposal of trench groundwater *if required*; cut-in tee; valve; fire hydrant and lateral assembly; fittings *as required*; restrained joints, thrust blocking and harnesses *as required*; valve box to grade; placing and compacting all required bedding and backfill including control density fill *if required*; trench plates *as needed*; testing and chlorination; temporary trench paving; restoration/reconstruction of landscaping/irrigation and fencing *as needed*; and other work required to install a fire hydrant and lateral assembly not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

SECTION 14
PLANTING (NOT USED)

SECTION 15
IRRIGATION SYSTEM

15.01A General: Utility Chase work shall conform to the requirements as specified in Section 15 "Irrigation System" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, and any modifications or additions herein and/or on the Project Plans.

15.02 Materials:

A. Pipe:

- a. **Material:** Polyvinyl Chloride (PVC) conforming to ASTM D1785, Schedule 40.
- b. **Quality:** Free from defects, cracks, or imperfections that may affect performance.

B. Caps:

- a. **Material:** Polyvinyl Chloride (PVC) compatible with Schedule 40 PVC pipe, conforming to ASTM D2466.
- b. **Quality:** Water tight seal when installed, free from defects, cracks, or imperfections that may affect performance and designed to withstand environmental conditions.
- c. **Type:** Slip fit.

15.03 Instillation: Utility chase to be installed 2" below bottom of sidewalk, extending 6" past each side of the sidewalk. Caps to be fastened to each end of utility chase free of joining materials to preserve accessibility.

15.04 Payment: 4" Utility Chase shall be paid for at the contract price **each**, which price shall include full compensation for furnishing all labor, materials, tools, equipment, incidentals, and doing all work involved to install utility chases, including but not limited to: excavation and disposal of excavated materials; pipe, caps, and fittings as required; placing and compacting all required bedding and backfill restoration/reconstruction of existing landscaping, irrigation and fencing as needed; and any other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

SECTION 16

WATER POLLUTION CONTROL

16.01 General: Water Pollution Control, SWPPP, and Stormwater Compliance shall be performed in accordance with Section 13 of the Caltrans Standard Specifications, City of Healdsburg Municipal Code Section 17.36, these technical specifications, and the following:

1. **The Statewide Construction General Permit:** California State Water Quality Control Board (Order No. WQ 2022-0057-DWQ), National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, commonly referred to as the “2022 Construction General Stormwater Permit” or “General Permit”.
2. **Regional MS4 Permit:** North Coast Regional Water Quality Control Board North Coast Region (Order No. R1-2015-0030), NPDES Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems, commonly referred to as the “MS4 Permit”.
3. **CASQA Handbook:** The California Stormwater Quality Association Storm Water BMP Handbook for Construction. BMPs shall be selected, installed and maintained in accordance with the latest edition.

16-1.01B Definitions: Construction phase: The construction phase starts at the start of job site activities and ends at Contract acceptance.

16-2 Water Pollution Control Program

16-2.01A Summary: This project will disturb more than one acre and is required to have a Stormwater Pollution Prevention Plan (SWPPP). The Contractor shall retain a Qualified SWPPP Developer (QSD) to prepare the SWPPP in accordance with the 2022 Construction General Permit and Caltrans Standard Specification Section 13-2.

16-3.01B Submittals: The SWPPP shall be submitted for review and approval prior to the start of construction. The SWPPP shall be prepared in accordance with Section 13-2 of the Caltrans Standard Specifications and include a spill contingency plan that establishes clean-up procedures that will be followed in the event of a spill of potentially hazardous, toxic, or polluting materials.

The approved SWPPP shall be uploaded to the SMARTS (Stormwater Multiple Application and Report Tracking System) for Notice of Intent (NOI) filing on behalf of the City’s Legally Responsible Person (LRP). The Contractor shall coordinate with the City’s LRP to ensure proper registration and certification of the SWPPP in the SMARTS system. All required documents, including the NOI, shall be submitted prior to the start of construction.

16-4 Stormwater Compliance

16-4.01A Summary: The Contractor shall provide stormwater compliance services performed by a Qualified SWPPP Practitioner (QSP). The stormwater compliance process shall begin with a pre-construction training session conducted prior to site work followed by weekly and quarterly inspections and reports. The process shall include the preparation and filing of an annual report

and the preparation and filing of a Notice of Termination along with a final annual report to ensure comprehensive documentation.

All stormwater compliance activities shall be performed by a QSP registered under the Construction General Permit. The QSP shall maintain documentation of all inspections, corrective actions, and communications with the City and regulatory agencies.

16-4.02 Rain Events: Inspection and reporting measures shall be provided for all rain events, triggered by a forecast of a 50% or greater chance of precipitation over a 24-hour period and as required by the approved SWPPP. Services shall include the development of a Rain Event Action Plans (REAPs) along with pre-rain event, rain event, and post-rain event inspections, sampling, testing, and reporting as needed.

REAPs shall be developed and updated as required by the SWPPP and the Construction General Permit. The QSP shall ensure timely implementation of BMPs and documentation of all inspection and sampling activities.

Sampling, testing, and reporting on turbidity and pH, as well as preparing NAL exceedance reports and conducting sampling or testing for contaminants or hazardous materials shall be provided. Change of Information requests shall also be processed as needed.

QSD and QSP services shall include onsite and offsite consultations, analysis, and meetings as requested by the City and required to support compliance efforts.

16.04 Payment: **Water Pollution Control** shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and doing all the work involved in providing water pollution control, and any other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

SWPPP Preparation shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all submittals, labor, materials, and doing all work involved in preparation of a Stormwater Pollution Prevention Plan (SWPPP) including uploading the plan to the SMARTS system, and no additional allowance will be made therefor.

Stormwater Compliance shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all submittals, labor, materials, tools, equipment, training, inspection, documentation and doing all the work involved in stormwater compliance, and no additional allowance will be made therefor.

No more than 80% of the lump sum item total for Stormwater Compliance will be paid until Notice of Termination (NOT) acceptance. Partial payments for Stormwater Compliance will be made based on the Contractor's construction schedule and current construction progress. Final payment for Stormwater Compliance is contingent upon acceptance of the NOT and final reporting in SMARTS.

No additional payment per rain event or for each stormwater annual report submitted will be made.

SECTION 17

TRENCH BRACING, SHORING AND DEWATERING

17-1.01 General: Trench bracing, shoring and dewatering shall conform to the requirements as specified in Section 1 "General" Part 1.08 "Plan for Protection from Caving" of the City Specific Provisions of the Public Work Standard Specifications and Details (City Standards), other sections of the City Standards as they apply, Section 7-1.02K(6)(a and b) of the Caltrans Standard Specifications, and the Division of Industrial Safety Construction Safety Orders which are currently in use.

The Contractor shall provide adequate sheeting, shoring and bracing and/or benching of trenches and other excavations for the protection of life or limb as required by the State of California Construction Safety Orders, the Safety Regulations of the Federal Occupational Safety and Health Administration and by these Special Provisions.

All safety orders, rules and regulations of Cal/OSHA and/or the Federal OSHA applicable to the work to be done under this Contract shall be obeyed and enforced by the Contractor.

The Contractor shall obtain a permit from Cal/OSHA before starting work.

The Contractor shall ensure that employees entering excavations are protected from cave-ins, failure of protective systems, hazardous atmospheres, vehicular traffic, falling loads, and any other hazardous conditions.

17-1.02 Submittals: At least five (5) working days before beginning excavation on a trench 5 feet or more in depth, the Contractor shall submit to the Engineer a detailed plan showing the design of shoring, bracing, sloping or other provisions to be made for worker, adjacent structure, and adjacent utility protection from caving ground hazards.

The Contractor shall have a competent person on-site who will make daily inspections of excavations, adjacent areas, and protective systems. The competent person will be responsible for ensuring that the protective system is based upon soil classifications, and that it provides the required protection in accordance with CCT, Title 8, and Section 1541.1.

17-1.04 Execution: Shoring shall be removed in such a manner as to prevent caving at the walls of excavations or damage to piping or other structures.

Excavations shall be so braced and supported that they will be safe, and the ground alongside the excavation will not slide or settle, and all existing improvements of any kind, either on public or private property will be fully protected from damage. If any damage does result to such improvements, the Contractor shall make the necessary repairs or reconstruction at his own expense and as directed by the Engineer.

All excavations shall have barricading, fall protection handrails, and access ladders in accordance with Cal/OSHA requirements.

17-1.05 Dewatering: Groundwater is not anticipated in the planned excavations, but the Contractor should be prepared to provide dewatering of excavations if groundwater is encountered. Groundwater levels may change depending on inclement weather.

If groundwater is encountered, the Contractor shall immediately notify the City. The Contractor

shall remove all water which accumulates in excavations during the progress of work until the subgrade has been prepared and backfilling has progressed to a sufficient height above static groundwater levels. The Contractor shall have a minimum of two working pumps available for immediate use at all times.

Dewatering shall be performed according to the requirements of the State Water Resources Control Board SWRCB Water Quality Order No. 2003-0003-DWQ, or as an aqueous waste at an appropriate offsite facility.

Water accumulated in excavations shall be discharged to the sanitary sewer. Said water shall be disposed of in a manner as to cause no injury to public or private property, or be a menace to public health. Sediment shall be removed from water to be disposed of, prior to discharge, by a placing the pump inlet hose into a sump filled with clean gravel, or a perforated bucket filled with clean gravel. The outlet of the pump shall have a filter sock installed to retain residual sediment.

The discharge shall be monitored to verify the lack of contamination. Periodic samples may be analyzed by the City to confirm the acceptability of the discharge. If any odor, sheen or other visual discrepancy is noted during excavation or discharge, stop pumping and immediately notify the Engineer.

Pumped groundwater will not be allowed into any watercourse or storm drain system.

17-1.06 Payment: Trench Bracing and Shoring shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and doing all the work involved to furnish and install sheeting, shoring and bracing for the protection of adjacent existing improvements, and the protection of life and limb conforming to applicable safety orders, including but not limited to a bracing and shoring plan, securing Cal/OSHA permits, and in accordance with the Project Plans, applicable Federal, State and Local Regulations, permits, and as specified herein, and no additional compensation will be made therefor.

Dewatering & Disposal of Trench Groundwater shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor and shall include full compensation for furnishing all labor, materials, permits, tools and equipment, and for doing all the work involved in providing groundwater management, including, but not limited to, all necessary removal, storage, sediment treatment, pumping equipment, and transportation, for disposal of all groundwater encountered from excavations and trenches at the site, and no additional compensation will be made therefor.

SECTION 18

MONUMENTS

18-1.01 Description: All cast-in-place survey monuments shall be installed in accordance with City Public Works Standard Detail ST12 and at the locations indicated on the Project Plans.

The Contractor shall employ the services of a California Licensed Land Surveyor to perform all corner record or record of surveys associated with locating, referencing, and replacing survey monuments as required by the California Business and Professional Code. Contractor shall forward copies of all corner record or record of surveys filed to the City.

18-1.04 Payment: **Remove and Replace City Monument** shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all labor, materials, tools and equipment, and doing all the work involved in constructing monuments complete in place, including removal of existing monuments disturbed during construction which shall be replaced with new monuments, and no additional allowance will be made therefor.

SECTION 19
ELECTRICAL

19-1 General

19-1.01 General: Section 19 includes specifications for installing street lighting and RRFB hard wired systems at the following locations:

1. Traffic signal poles and RRFB system equipment at 2 locations shown on the plans:
 - a. March Avenue at Lupine Road
 - b. March Avenue at Prentice Drive

The Contractor shall comply with Part 4 of the latest CA MUTCD. Nothing in this Section 19 is to be construed as to reduce the minimum standards in this manual.

The locations of electrical system elements are approximate; the Engineer will approve the final locations in the field.

19-1.01A Definitions: See section 86-1.01B "Definitions" of the revised standard specifications for Division X Electrical Work definitions.

19-1.02 Regulations and Code:

Electrical equipment must comply with one or more of the following standards:

1. ANSI
2. ASTM
3. EIA/ECIA
4. NEMA
5. NETA
6. UL/NRTL
7. TIA

Materials and workmanship must comply with:

1. FCC rules
2. ITE Standards
3. NEC
4. California Electrical Code

19-1.03 Cost Break-Down: The Contractor shall determine quantities required to complete work and shall submit a cost breakdown that includes, at a minimum, the following items:

1. Foundations
2. Standards and poles
3. Conduit
4. Pull boxes
5. Conductors/cables
6. RRFB system and hardware
7. Accessible Information Device push buttons

19-1.04 Equipment List and Drawings: The Contractor shall submit for review the submittals for the following list of equipment and materials:

1. Standards and poles
2. Conduit
3. Pull boxes
4. RRFB system and hardware
5. Accessible Information Device push buttons

The list shall include:

1. Name of manufacturer
2. Make and Model Number
3. Month and Year of manufacture
4. Lot and serial numbers
5. Contract number
6. Your contact information
7. Dimension
8. List of components

The list must be supplemented by other data as required, including:

1. Schematic wiring diagrams
2. Scale drawings of cabinets showing location and spacing of shelves, terminal blocks, and equipment, including dimensioning
3. Operation manual

Submit confirmation of the vendor's acceptance of the order for the electrical equipment and materials as an informational submittal.

Submit a manufacturer's maintenance manual or combined maintenance and operation manual as an informational submittal. The manual must have a master item index that includes:

1. Specifications
2. Design characteristics
3. General operational theory
4. Function of all controls
5. Troubleshooting procedures
6. Parts list, descriptions, stock numbers, and settings
7. Block circuit diagram
8. Layout of components
9. Schematic diagrams

Electrical equipment that is manufactured as detailed on the plans will require detailed drawings and diagrams.

The Contractor shall prepare diagrams, plans, and drawings using graphic symbols in IEEE 315, "Graphic Symbols for Electrical and Electronic Diagrams."

Due to material lead time, within three days from approval of submittal for the RRFB and street lighting poles and prior to the receipt of the Notice to Proceed, the Contractor shall order the traffic signal poles. A maximum of 33% of the Lump Sum contract price for Street Lighting System Installation may be requested following order of materials.

19-1.05 Certificate of Compliance: The Contractor shall submit a Certificate of Compliance for all electrical material and equipment to the Engineer.

19-1.06 (Blank)

19-1.07 Scheduling of Work: The Contractor shall not work above ground until all materials are on hand to complete electrical work at each location. The Contractor shall schedule work to allow each system to be completed and ready for operation before opening the corresponding section of the roadway to traffic.

If street lighting exists or is installed in conjunction with the RRFB system, do not turn on the RRFB system until the street lighting is energized.

RRFB system will not be placed in operation until the roadways to be controlled are open to public traffic.

Lighting and RRFB system will not be placed in operation before starting the functional test period specified in Section 86-2.14, "Testing."

The Contractor shall not pull conductors into conduit until:

1. Pull boxes are set to grade
2. Metallic conduit is bonded

The initial RRFB turn-on must be made between 9:00 a.m. and 2:00 p.m. Before the initial turn-on, all equipment, including accessible information device push buttons, street lighting, signs, and pavement delineation must be installed and in working order.

Start functional tests on any working day except Friday or the day before a legal holiday. You must notify the Engineer 48 hours before the start of functional test.

19-1.08 (Blank)

19-2 Materials and Installation

19-2.01 Excavating and Backfilling: The Contractor shall dispose of surplus excavated material under Section 86-2.03B, "Surplus Material." Backfill as specified in Section 86-3, "Structure Excavation and Backfill." The Contractor shall compact backfill in conduit trenches outside the hinge point of slopes and not under pavement to a minimum relative compaction of 90 percent. The Contractor shall compact backfill within hinge points and in areas where pavement is to be constructed to a minimum relative compaction of 95 percent.

The Contractor shall backfill trenches and restore sidewalk, pavement, and landscaping at one intersection before starting excavation at another intersection.

If excavating on a street or highway, the Contractor shall restrict closure to 1 lane at a time.

19-2.02 Removing and Replacing Improvements: The Contractor shall replace or reconstruct sidewalk, curb, gutter, concrete pavement, asphalt concrete pavement, underlying material, lawn, plant, and other facilities damaged during construction. Replacement material must be of equal or better quality than the material replaced. Work must be in a serviceable condition.

If a part of a square or slab of concrete sidewalk, curb, gutter, or driveway is broken or damaged, the entire square or slab must be removed and reconstructed.

The Contractor shall cut outline of PCC sidewalk or driveway to be removed:

1. Using a power-driven saw
2. On a neat line
3. To a 0.17-foot minimum depth

19-2.03 Foundations: RRFB pole foundation details shall comply with the 2024 Caltrans Standard Plans section 56-3.01C(2) "Foundations."

PCC must comply with Section 90-10, "Minor Concrete."

19-2.04 Standards, Steel Pedestals and Posts: Standards, steel pedestals, and posts shall conform to Section 56-3 of the Standard Specifications and these special provisions.

All materials shall be in compliance with their respective specification current at the date of the invitation to bid, governing the production of such materials.

Standards, steel pedestal and post work will be paid for in the bid items lump price for RRFB system at March Avenue at Lupine Road and lump sum price for RRFB system at March Avenue at Prentice Drive.

19-2.05 Conduit: Conduit shall conform to Section 86-1.02B "Conduit and Accessories" and Section 87-1.03B "Conduit Installation".

Conduit across or under traffic lanes shall be installed via jack and bore or horizontal directional drilling method.

All conduit shall be installed with a minimum 30" of cover under the traveled way and a minimum 24" of cover outside the traveled way beyond the face of the curb.

19-2.06 Pull Boxes: Pull boxes shall conform to Section 86-1.01C(2) "Pull Boxes" and Section 87-1.03C "Installation of Pull Boxes" and City of Healdsburg Electric Department standards.

The Contractor may use a larger standard size pull box than that shown on the plans or specified and additional pull boxes to facilitate the work except in structures. Pull box, cover, and extensions must be of the same material.

19-2.06A Materials: Pull box, cover, and extension for installation in ground or sidewalk area must be precast reinforced PCC or non-PCC material. Non-PCC material must:

1. Be fire resistant with a burn rate no greater than 0.3-inch per minute per 0.1 inch of thickness when tested as specified in ASTM D 635
2. Show no significant change in physical properties with exposure to weather
3. Be dense, free of voids or porosity, and gray or brown in color

Non-PCC pull box must comply with the following:

1. Top dimensions must not exceed the bottom dimensions by more than 1 inch. Extension must be attached to pull box to maintain the minimum combined depths.
2. Cover must not fail and must not deflect more than 1/4 inch when a vertical force of 1,500 pounds is applied through a 1/2" x 3" x 6" steel plate to a non-PCC cover on a pull

box. Center the steel plate on cover with its longitudinal axis coinciding with longitudinal axis of cover.

Non-PCC pull boxes must be of sufficient rigidity that when a designated concentrated force is applied perpendicularly to the midpoint of one of the long sides at the top while the opposite long side is supported by a rigid surface, it must be possible to remove the cover without the use of tools. The designated concentrated force must be 150 pounds for a No. 3-1/2 pull box and must be 100 pounds for a No. 5 or No. 6 pull box.

If a transformer or other device must be placed in a non-metallic pull box, the Contractor shall include recesses for hanger.

The Contractor shall secure cover, except ceiling pull box cover, with 3/8-inch hold down bolts, cap screws, or studs, washers, and brass stainless steel or other non-corroding-metal nut. Stainless steel hardware must have an 18 percent or greater chromium content and an 8 percent or greater nickel content.

The Contractor shall galvanize ferrous metal parts as specified in Section 75-1.05, "Galvanizing."

Traffic pull box must be provided with steel cover and special concrete footing. Steel cover must have an embossed non-skid pattern.

Traffic pull box and cover must have a vertical proof-load strength of 25,000 pounds. Comply with Federal Specification RR-F-621 and distribute the 25,000 pound load through a 9" x 9" x 2" steel plate. You must be able to place the load anywhere on box and cover for 1 minute without causing cracks or permanent deformations.

No. 3-1/2(T) and No. 5(T) traffic pull box must be reinforced with a galvanized Z bar welded frame and cover similar to that shown on the plans for No. 6(T) pull box. Frame must be anchored to box with 1/4" x 2-1/4" concrete anchors. Four concrete anchors must be included for No. 3-1/2(T) pull box; one placed in each corner. Six concrete anchors must be included for No. 5(T) and No. 6(T) pull boxes; one placed in each corner and one near the middle of each of the longer sides.

Hold down screws must be 3/8 inch hex flange cap screws of Type 316 stainless steel. Nut must be zinc plated carbon steel, vibration resistant, and have a wedge ramp at the root of the thread. Nut must be spot welded to the underside or manufactured with galvanized Z bar pull box frame.

Steel cover must be countersunk approximately 1/4 inch to accommodate bolt head. When tightened, bolt head must not exceed more than 1/8 inch above the top of cover. A 1/4 inch tapped hole and brass bonding screw must be included.

Concrete placed around and under traffic pull box must be minor concrete as specified in Section 90-10, "Minor Concrete."

19-2.06B Cover Marking: Marking must be clearly defined, uniform in depth, and parallel to either the long or short sides of cover. Marking letters must be between 1 inch to 3 inch high. City pull boxes for RRFB and safety lighting shall be marked "City of Healdsburg RRFB" and City of Healdsburg electric department pullboxes shall be marked "Service".

19-2.07 (BLANK)

19-2.08 Conductors and Cables: Conductors shall conform to Section 86-1.02F(2) "Conductors" and Section 87-1.03F "Conductors and Cable Installation".

19-2.08D (BLANK)

19-2.09 Wiring: The Contractor shall run conductors in conduit, except for overhead and temporary installations and where conductors are run inside poles.

The Contractor shall solder by hot iron, pouring, or dipping method, connectors and terminal lugs for conductor sizes No. 8 and smaller. Do not perform open-flame soldering.

19-2.09B Installation: The Contractor shall use a UL- or ETL-listed inert lubricant for placing conductors in conduit.

The Contractor shall pull conductors into conduit by hand using pull tape specified in Section 19-2.05C, "Installation." The Contractor must not use winches or other power-actuated pulling equipment.

If adding new conductors or removing existing conductors, the Contractor shall remove all conductors, clean conduit as specified in Section 87-1.03F, "Conductors and Cable Installation," and pull all conductors in conduit as 1 unit.

If RRFB conductors are run in lighting standard containing street lighting conductors from a different service point, the Contractor shall encase the RRFB conductors or the lighting conductors with a flexible or rigid metal conduit for a length until the 2 types of conductors are no longer in the same raceway.

If less than 10 feet above grade, the Contractor shall enclose temporary conductors in flexible or rigid metal conduit.

After conductors are installed, the Contractor shall seal ends of conduits with an approved sealing compound.

To form a watertight seal, the Contractor shall tape ends of spare conductors and conductors ending in pull boxes.

Conductors and cables inside fixture or cabinet must be neatly arranged and tied together by function with self-clinching nylon cable ties or enclosed in plastic tubing or raceway.

The Contractor shall identify conductors for:

Metered and unmetered conductors occupying the same pull box. Identify unmetered circuit conductors with "UNMETERED-STREET LTG".

The Contractor shall permanently identify conductors by function. The Contractor shall place identification on each conductor at each pull box and near the end of conductors.

The Contractor shall label, tag, or band conductors by mechanical methods. Identification must not move along the conductors.

19-2.09C Connectors and Terminals: Connectors and terminals must be UL- or ETL-listed crimp type. Use manufacturer-recommended tool for connectors and terminals to join conductors. Comply with MIL-T-7928.

The Contractor shall terminate stranded conductors smaller than No. 14 in crimp style terminal lugs.

19-2.09D Splicing and Terminations: Splices are allowed for:

1. Grounded conductors in pull box.
2. Accessible Information Device push button conductors in pull box.
3. Conductors in pull box adjacent to each electrolier or luminaire.
4. Ungrounded lighting circuit conductors in pull box, if lighting circuits are modified.

19-2.095 Fused Splice Connectors: The Contractor shall install a fused disconnect splice connector in each ungrounded conductor, between the line and the ballast, in the pull box adjacent to each luminaire. Connector must be accessible in the pull box.

For 240 and 480 V(ac) circuits, each connector must simultaneously disconnect both ungrounded conductors. Connector must not have exposed metal parts, except for the head of stainless steel assembly screw. The Contractor shall recess head of stainless steel assembly screw a minimum of 1/32 inch below top of plastic boss that surrounds the head.

Splice connector must protect fuse from water or weather damage. Contact between fuse and fuse holder must be spring loaded. Splice connector terminals must be:

1. Rigidly crimped, using a tool recommended by manufacturer of fused splice connector, onto ungrounded conductors
2. Insulated
3. Watertight

Fuses must be standard midget ferrule type, with "Non-Time-Delay" feature, and 13/32" x 1-1/2".

19-2.10 Bonding and Grounding: Secure all metallic components, mechanically and electrically, to form a continuous system that is effectively grounded.

Bonding jumper must be copper wire or copper braid of the same cross sectional area as a No. 8 or larger to match the load. Equipment grounding conductors must be color coded as specified in NEC or be bare.

Attach bonding jumper to standard as follows:

1. Bonding Jumper Attachment Standard type Requirements
2. Standard with handhole and traffic rated pull box lid cover: Use UL-listed lug and 3/16-inch diameter or larger brass or bronze bolt. Run jumper to conduit or bonding wire in adjacent pull box. Grounding jumper must be visible after the standard is installed and mortar pad is placed on foundation.
3. Standard without handhole: Use UL-listed ground clamp on each anchor bolt.

4. Slip-base standard: Use UL-listed ground clamp on each anchor bolt or attach UL-listed lug to bottom slip-base plate with 3/16-inch diameter or larger brass or bronze bolt.

The Contractor shall ground one side of secondary circuit of step-down transformer.

The Contractor shall ground metal conduit, service equipment, and grounded conductor at service point as specified by NEC and service utility, except grounding electrode conductor must be No. 6 or larger.

Equipment bonding and grounding conductors are required in conduit. Run a No. 8 minimum bare copper wire continuously in conduit system. The bonding wire must be sized as specified in the NEC.

Ground electrode must be:

1. 1 piece
2. 10-foot minimum length of one of the following:
 - a. Galvanized steel rod or pipe not less than 3/4 inch in diameter
 - b. Copper clad steel rod not less than 5/8 inch in diameter
3. Installed as specified in NEC
4. Bonded to service equipment using one of the following:
 - a. Ground clamp
 - b. Exothermic weld
 - c. No. 6 or larger copper conductor

On wood pole, metallic equipment mounted less than 8 feet above ground surface must be grounded.

Bond metallic conduit in non-metallic pull box using bonding bushing or bonding jumper.

Bond metallic conduit in metal pull box using bonding bushings and bonding jumpers connected to bonding wire running in the conduit system.

19-2.11 Thru 19-2.14 (Blank)

19-2.15 Galvanizing: The Contractor shall galvanize as specified in Section 75-1.02B, "Galvanizing." Cabinet material may be galvanized before manufacturing as specified in ASTM A 653/653M, Coating Designation G 90.

Steel pipe standard and pipe mast arm must be hot-dip galvanized after manufacturing and must comply with Section 75-1.05, "Galvanizing." The Contractor shall remove spikes from galvanized surfaces.

A minimum of 10 inches of upper end of anchor bolts, anchor bars or studs, and nuts and washers must be galvanized as specified in Section 75-1.05, "Galvanizing."

After galvanizing, bolt threads must accept galvanized standard nuts without requiring tools or causing removal of protective coatings.

Galvanizing existing materials in an electrical installation will not be required.

19-2.16 Painting: The Contractor shall paint electrical equipment and material as specified in Section 59, "Painting," as indicated in the plans, and the following:

1. Pole shall be Wall Alloy 6063-T6 Satin Ground or Powder Coated Finish per City of Healdsburg specifications.
2. Factory or shop cleaning methods for metals are acceptable if equal to the methods specified.
3. Instead of temperature and seasonal restrictions for painting as specified in Section 59, "Painting," paint may be applied to equipment and materials for electrical installations if ordered by the Engineer.
4. Ungalvanized ferrous surface to be painted must be cleaned before applying prime coat. Blast cleaning is not required.
5. If an approved prime coat is applied by manufacturer, and in good condition, the 1st primer application is not required.
6. Existing equipment to be painted in the field must be washed with a stiff bristle brush using a solution of water containing 2 tablespoons of heavy duty detergent powder per gallon. After rinsing, surface must be wire-brushed with a coarse, cup-shaped, power-driven brush to remove badly bonded paint, rust, scale, corrosion, grease, or dirt. Dust or residue remaining after wire brushing must be removed before priming.
7. Do not paint galvanized metal guard post, galvanized equipment.
8. New galvanized metal surface to be painted in the field must be cleaned as specified for existing equipment before applying the prime coat. Do not wire brush new galvanized surface.
9. After erection, examine exterior surface for damaged primer, clean, and spot coat with primer.
10. Finish interior of metal signal visor, louver, and front face of back plates with 2 applications of lusterless black exterior grade latex paint formulated for application to properly prepared metal surface. Good condition factory finish will be acceptable.
11. Prepare and finish conduit and conduit fitting above ground the same as adjacent standard or post.
12. Relocated, reset or modified equipment previously finished as specified in this section, except for previously- finished galvanized standard with traffic signal yellow enamel, must be given a spot finishing application on newly primed areas and 1 finishing application over the entire surface. If signal face or mounting brackets are required to be painted under this section, all signal faces and mounting brackets on the same mounting must be repainted.
13. Small rusted or repaired areas of relocated or reset galvanized equipment must be cleaned and painted as specified in Section 75-1.05, "Galvanizing," for repairing damaged galvanized surfaces.

14. Stencil equipment number neatly on the standard or adjacent structure. Obtain number from the Engineer.
15. Perform painting neatly. The Engineer reserves the right to require use of brushes if the work performed by paint spraying machine is unsatisfactory.

19-5.02 Rectangular Rapid Flashing Beacon (RRFB) System

19-5.02A Overview: An RRFB system, otherwise known as a connected crosswalk system (CCS), shall be used to enhance pedestrian conspicuity and increase driver yield rates at locations such as midblock crosswalks, roundabouts and other unsignalized locations.

Each CCS shall be modular and available with an AC cabinet-based Power Module. Cabinet-based Power Modules house the AC/DC power supply, flash controller, Bluetooth communications, GPS/cellular communications, DC relay, knockdown sensor and fuse/circuit breaker. The CCS shall conform to all provisions of the MUTCD, or MUTCDC, Interim Approval IA-21 including WW+S flash pattern. The CCS shall be pre-wired to the maximum extent possible.

19-5.02B Mechanical and Electrical: The CCS shall be modular without a centralized controller. Adding other Flasher Modules or accessories does not necessitate a change in system configuration.

CCS shall be equipped as standard with an integrated knockdown sensor, purpose-built by the CCS manufacturer. The sensor shall detect a knockdown or impact if the Power Module is more than 30 degrees off-axis in any direction.

CCS shall be equipped as standard with an integrated 5 A DC power supply/relay, purpose-built by the CCS manufacturer, with fault protection against short circuits. This function is intended for accessories such as overhead lighting to be triggered while the CCS rectangular rapid flashing beacons (RRFBs) are actively flashing.

CCS shall have an externally mounted Bluetooth antenna for local communications and an externally mounted GPS antenna for remote communications.

CCS wiring shall be available off-the-shelf and non-proprietary.

CCS shall be capable of being wiring via a “centralized” or “distributed” approach:

- Centralized – all component wiring from Flasher Modules (RRFBs) or trigger devices (push buttons or passive sensors) shall be terminated to the Power Module circuit board.
- Distributed – one Flasher Module shall be terminated to the Power Module circuit board. Additional Flasher Modules or trigger devices may be terminated to any available Flasher Module.

CCS Power Module circuit board shall be conformally coated.

Power module cabinets shall be rated to a minimum of NEMA 3R.

Fasteners shall be stainless steel.

19-5.02C Mounting: CCS Power Module shall be side of pole mounted and accommodate the following mounting configurations:

- 2" – 2.5" perforated square post
- 2.38" – 2.88" diameter round pole
- 3.5" – 4.5" diameter round pole
- Wooden pole, post or flat surface
- Poles as show on project plans

Side of pole mounting shall be facilitated using one of the following methods:

- Industry standard banding
- Flat surface through-bolting

Standard mounting options shall not require specialized tools for installation.

19-5.02D AC/DC Power Supply: CCS shall include a universal AC/DC power supply that accepts conventional AC power input and outputs 15 VDC. It shall be rated for 150 W; featuring short circuit, overload and overvoltage protection. AC wiring input shall terminate on DIN-rail mounted terminal blocks.

Power supply shall have a status LED indicating power is on.

Power supply shall be field replaceable.

19-5.02E Power Modules: CCS Power Modules shall be available in one of two size and configuration options:

- Small AC cabinet Power Module
- Large AC cabinet Power Module

19-5.02E(1) Small AC Cabinet Power Module: The small AC cabinet Power Module shall be constructed from 11-gauge aluminum. The AC/DC power supply shall be mounted inside the cabinet with no external control cabinet required.

Cabinet shall be vented to provide cooling of the electronic system. The vents shall be screened to prevent ingress by insects and other debris.

Cabinet shall have tamper-proof hinged door with an integrated padlockable latch for use with lock shackles up to 1/4".

Cabinet shall include a DIN rail fuse holder with a 4 A fuse.

Cabinet shall have integrated mounting brackets to accept industry standard banding.

Cabinet shall have exposed spring-loaded push button terminal blocks for final electrical connections.

Cabinet shall include a 1.25" trade size threaded pipe nipple to facilitate running wiring internal to a pole.

Cabinet shall include nine drill indentations to facilitate various conduit fitting locations for running wiring external of a pole or post.

The overall cabinet weight shall not exceed 10 lb (4.5 kg). Dimensions of the cabinet shall be 16.7" H x 11.3" W x 7.0" D (42.4 cm H x 28.7 cm W x 17.8 cm D).

Cabinet shall be unfinished aluminum.

19-5.02F Flasher Modules: The CCS shall come standard with one or more rectangular rapid flashing beacon (RRFB).

19-5.02F(1) Rectangular Rapid Flashing Beacon (RRFB): RRFB shall only require an input of 12 VDC nominal for operation and shall contain its own active electronics including an LED driver and flasher. RRFB shall operate out-of-the-box with applicable flash pattern, daytime intensity and nighttime intensity settings.

RRFB housing shall be constructed from 10-gauge aluminum and shall be available in black or yellow powder coat.. Dimensions shall be approximately 24" L x 1.5" D x 4.5" H (61.0 cm L x 3.8 cm D x 11.4 cm H).

RRFB shall conform to all provisions of the MUTCD and FHWA requirements or TAC guidelines within the MUTCDC.

RRFB shall contain two modules with 8 LEDs and shall be purpose-built by the manufacture of the RRFB, including optics. The optics shall be premium, UV-resistant polycarbonate. Module with active electronics shall be field replaceable with common hand tools without having to replace the entire RRFB.

Each end of an RRFB shall include a side-emitting pedestrian confirmation light composed of a single LED. Users shall have the option of using both confirmation lights for median applications, or covering one confirmation light with an included sticker for side-of-road applications.

RRFB shall be mounted to the post or pole using a separate bracket assembly to facilitate mounting two RRFBs back-to-back (bi-directional) and to allow the RRFB(s) to rotate horizontally for aiming.

RRFB bracket shall be constructed from stainless steel. Mounting options shall include both banding and bolting to all specified pole types.

RRFB light bar assembly shall open for access to the wiring connections for the two LED modules. LED modules shall be rated to NEMA 3R.

Module shall have exposed spring-loaded push button terminal blocks for final electrical connections.

RRFB shall meet the minimum photometric specifications of the Society of Automotive Engineers (SAE) standard J595 Class I dated January 2005. A photometric report by a certified third-party testing laboratory shall be provided to demonstrate compliance with J595.

The color of the yellow RRFB indications shall meet the specifications of SAE standard J578 (Color Specification) dated December 2006.

19-5.02H Operation and Configuration

19-5.02H(1) Operation: The CCS, once powered up with an RRFB, shall automatically form a network link between all other RRFB CCS' nearby within wireless range, up to 1000' (304 m). This link ensures all nearby RRFBs shall flash in synchronization once triggered by any CCS in the link. CCS shall be operational upon power-up without any on-site configuration required.

CCS shall be capable of activation by pedestrian push button with voice message. The push button may be equipped with an optional integrated touchless activation technology.

Pedestrian push button shall be an ADA-compliant audible information device (AID) and have these accessibility features:

- Activation area of 2" minimum across in at least one direction
- Shall be operable with a closed fist
- Shall be operated with a maximum of 3.5 lb (15.5 N)
- Shall have a visual contrast with the body background of at least 70 percent
- Voice message with the MUTCD IA-21 approved message "Yellow lights are flashing", spoken twice by default
- Visible indicator for button press confirmation
- Audible locator tone
- Tactile directional arrow

Optional touchless push button shall have these accessibility features:

- Touchless detection can be enabled or disabled
- Adjustable detection range, between 1" to 20"
- Adjustable minimum "wave" presence time for activation to occur, between 0 to 500 ms

The push button shall be self-contained with no external controller. The push button shall have wireless Bluetooth communication for changing volume, optional touchless activation parameters and other settings via a companion mobile application.

All RRFBs connected to the CCS shall initiate flashing sequence simultaneously within 50 ms of activation. If an additional activation occurs while the system is activated, the flash duration shall reset. For example, with the flash duration set to 20 seconds, if an additional activation occurs after the RRFB has been activated for 15 seconds the RRFB shall continue for an additional 20 seconds, or 35 seconds in total.

If the RRFB has ceased its flashing cycle, any subsequent activation shall activate the RRFB immediately regardless of how recently the RRFB ceased operation.

19-5.02H(2) Configuration: The CCS shall contain a button to activate a multi-colored status LED for on-site troubleshooting. Status LED shall be capable of displaying:

- No fault detected
- Fault detected

RRFB flash duration shall be adjustable on-site from 5 to 60 seconds in 1 second increments, 60 to 120 seconds in 5 second increments, 2 minutes to 10 minutes in 60 second increments, and 10 minutes to 60 minutes in 5 minute increments.

RRFB flash rate shall be wig-wag plus simultaneous (WW+S) providing 75 flashing sequences per minute. The flash rate of each individual RRFB indication, as applied over the full flashing sequence, shall not be between 5 and 30 flashes per second to avoid frequencies that might cause seizures.

CCS RRFB shall exceed SAE J595 Class 1 specifications. Daytime intensity value shall not be user editable to ensure it always meets or exceeds J595 Class 1 specifications.

CCS shall use integrated Global Positioning System (GPS) for determining location and time. GPS shall be used to determine day or night status. The CCS shall determine dusk and dawn times based on location and time of year. Day or night status shall be used for the RRFB to apply daytime or nighttime intensity values.

CCS shall provide configurable nighttime intensity settings ranging from 10% to 100% (no dimming) of factory default.

19-5.02H(3) Radio System: The CCS shall be equipped as standard with a 2.4 GHz radio with externally mounted antenna. Upon detection of a push button, touchless or passive detection, the Power Module shall broadcast an activation to all other nearby CCS' sharing the same network parameters.

CCS, when triggered, shall activate other CCS' linked with the same network parameters by wireless communication within 1000' (304 m).

CCS shall have 16 unique channels that can be configured on-site to avoid local wireless congestion.

CCS shall have "unlimited" unique network parameter combinations to create a link between more than one system. Linking multiple systems shall avoid inadvertent activations of nearby other CCS' using default network parameters.

The antenna shall be field replaceable without requiring system disassembly or entering the Power Module.

19-5.02H(5) Overhead Lighting: The system shall have the capability to operate the fixture in night-only operation or on a 24-hour basis with each pedestrian activation. Night-only operation shall be controlled by either:

- A photocell mounted on the fixture, or
- System's integrated GPS

Overhead lighting fixture shall be purpose-built specifically for street and area lighting with the following specifications:

- Form factor: cobra head
- Operation: constant-current, DC
- Maximum power: 50 Watts
- Light output: 5500 lumens
- Optic type: 4ME
- LED arrangement: multiple
- CCT: 4000 Kelvin
- Operating temperature: -40° to 40°C (-40° to 104°F)

Each fixture shall have an integrated LED driver module located within the shell of the fixture.

Each fixture shall have tool-less entry for accessing internal wiring and connections.

Each fixture shall have a receptacle for optional photocell or shorting cap integration.

Each fixture shall accept the following tenon sizes for mounting:

- 1.25" (32 mm) I.D., 1.66" (42 mm) O.D. or
- 2" (51mm) I.D., 2.375" (60 mm) O.D. horizontal tenon (minimum 8" [203 mm] in length)

Each fixture shall be adjustable +/-5° and shall include a two axis T-level to aid in leveling.

The fixture shall be dark sky friendly.

The overhead lighting fixture shall be FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions.

19-5.02I Local Connectivity: The CCS shall have integrated Bluetooth Low Energy (BLE) local communications for on-site configuration and diagnostics via a purpose-built mobile app by the CCS manufacturer. The mobile app shall be available free of charge on the Apple App Store or Google Play Store for compatible devices.

Mobile app, in conjunction with CCS, shall contain "bank-level" security. The mobile app shall "pair" with the CCS using a "digital key" via one of two methods:

- Pairing button shall be pressed inside the Power Module, or
- System has a valid existing remote connectivity plan (see Section 7). Digital key is sent automatically, for authorized account users, to the app with a cellular connection

If the pairing button is used the mobile app shall retain the digital key for 14 days. After 14 days has elapsed the user automatically reacquires the digital key through the login procedure in the mobile app.

Mobile app shall not require a system password, passcode or any default method of security for system access.

Mobile app shall display all CCS' within Bluetooth range that are capable of establishing a connection.

Mobile app shall have the functionality to identify the presently connected system by temporarily activating the RRFB with a unique quick flash. If the RRFB is actively flashing from a pedestrian activation, the RRFB shall temporarily stop and initiate the unique quick flash for system identification before resuming normal operations.

Mobile app shall have the functionality to perform a system reboot without needing physical access to the system.

Mobile app shall report any faults in human readable form. If more than one fault is detected, each fault shall be listed separately. Fault messages shall clear automatically if the fault condition has been resolved.

Mobile app, for RRFB equipped CCS', shall not have a user editable operation mode to anything other than pedestrian activation. CCS shall not be capable of scheduled operation for activation.

Mobile app, for RRFB equipped CCS', shall not have a user editable flash pattern to anything other than WW+S.

Mobile app shall be capable of over-the-air software updates.

Mobile app shall be capable of over-the-air firmware updates to Power Modules and Flasher Modules.

Mobile app shall be capable of modifying the following parameters:

- System name for on-site and remote identification
- Flash duration
- Nighttime intensity
- Overhead lighting mode (night-only or 24-hour)
- Overhead lighting duration extension (0 – 60 seconds)
- Network linking
- Network channel (11 – 26)
- Door switch alarm (enabled or disabled)
- Rotate digital key (for security purposes)

Mobile app shall be capable of displaying the following read-only parameters:

- System status
- Operation mode
- System voltage
- Trigger count (previous day's total and today's current total)
- CPU temperature
- System date and time
- Power Module part number
- Power Module serial number
- Power Module first activation date (date Power Module first powered up)
- Power Module firmware version
- Latitude and longitude of system
- Flasher Module part number
- Flasher Module serial number
- Flasher Module first activation date (date Flasher Module first powered up)
- Linked systems

Mobile app shall be capable of providing in app fault alerts:

- Power Module communication error
- Power Module cabinet door switch open
- Overcurrent/short circuit detected
- Flasher Module open/short circuit detected
- No system voltage
- Cellular communication error
- Status wire communication error

- Flasher Module removed from system
- System knockdown
- Integrated relay overcurrent/short circuit detected
- Accelerometer communication error
- High temperature alarm
- Synchronize wire short
- Memory full error
- Internal memory corrupt
- External memory corrupt
- Flasher memory corrupt

Mobile app shall have access to digital user guides and live chat support (during normal business hours).

19-5.02J Remote Connectivity

19-5.02J(1) Overview: The CCS shall be equipped as standard with integrated remote connectivity. Subscription shall include 5 years of enhanced-level features.

Connectivity solution shall be purpose-built by the CCS manufacturer, not require any external/third-party control box or device and shall include a SIM card. Remote connectivity shall be cloud-hosted software with web-based user access. Other software or IT infrastructure shall not be required for installation or maintenance.

Remote connectivity shall use the LTE-M wireless broadband network. SIM card shall be network provider agnostic and support major wireless carriers in the United States and Canada. LTE-M modem shall automatically connect to the best available network for the installation location. If cellular service is interrupted or unavailable, LTE-M modem shall automatically connect to the next available network provider.

User interface shall be web-based and viewable using any modern browser on a PC, laptop or mobile device with a cellular or Wi-Fi connection. Remote connectivity shall be mobile friendly and operate without requiring a static IP address.

Each CCS shall have an externally-mounted, combination GPS/cellular antenna for geolocation and date/time.

Remote connectivity shall be capable of over-the-air software updates without requiring user interaction.

The CCS shall be capable of receiving over the air updates for both Power and Flasher Modules.

Basic level subscription, with limited feature set, shall be included for 3 years at no cost. Additional enhanced-level subscription plans shall be available.

19-5.02J(1) Features, Operation and Configuration: Enhanced-level subscription shall include the following additional features:

- System performance charting for previous 180 days
- System knockdown alerts via SMS and/or email
- Enhanced system security with ability to lock out local on-site pairing with mobile app

- Remote programming

The user interface dashboard shall provide an overview of all systems without having to leave the page. Dashboard shall provide the following information:

- System name
- System application identifier
- System serial number
- System status
- Subscription type
- Operation mode
- Local pairing lockout status

Dashboard shall have a filter to show:

- All systems
- Systems with alerts only
- Systems with critical alerts only
- Systems with expired subscriptions only

Dashboard shall separate a list of uniquely linked crosswalk systems and others that are not linked.

Dashboard shall include a scrollable, zoomable map display, with the CCS shown as a representative icon on the map. The map display shall have the option of satellite view or standard street view. The map shall include the ability to see the CCS icons using Google Maps, with the ability to view the location with Google Street View. Icons shall change color based on system status with green indicating system is operational, yellow indicating an abnormal condition, and red indicating a critical fault. Map shall automatically adjust to show a geofenced area with a view of all systems.

CCS shall report in once per day with the following information:

- Most recent system voltage
- Most recent CPU temperature
- Trigger count (previous day's total, today's current total and average over the last 30 days)
- Most recent cellular signal strength
- Most recent cellular signal to noise ratio
- Charting with 180 previous days of data for the items above

User shall have the ability to request updated system data at any time on a self-serve basis. Dashboard shall reflect the time since last report.

User shall have the ability to refresh system GPS location or manually override via a map view.

User shall have the ability to manually log system notes for record keeping purposes.

User shall have the ability to change the following system parameters on a self-serve basis:

- System name for on-site and remote identification
- Flash duration
- Nighttime intensity

- Overhead lighting mode (night-only or 24-hour)
- Overhead lighting duration extension (0 – 60 seconds)
- Local pairing lockout

When a fault occurs, real-time alerts shall be published via SMS and/or email. The alert shall be immediately sent to all users who have opted into one or both delivery methods.

19-5.02J(1) System, Subscription and User Management

19-5.02J(1.1) System Management: System Management shall be restricted to administrators only and provide the following functions:

- View a list of all systems by system name/serial number showing status, local pairing lockout status and last checked in date. System and serial number shall be searchable.
- Transfer system ownership to another account's administrator.
- Reset system "digital key", which shall remove local on-site mobile app access to anyone who is not an authorized account user.
- Enable a lockout for local pairing, which disables the on-site pairing button for local access. Mobile app users will need to be an authorized user in order to receive the "digital key" to connect to the system.
- Disable a lockout for local pairing, which enables the on-site pairing button for local access. Mobile app users require access to pairing button to receive the "digital key" to connect to the system.
- Download a log of all system alerts and events from the past 180 days.

19-5.02J(1.2) Subscription Management: Subscriptions shall be self-serve managed with the following functions:

- View a list of all systems with their current subscription level and expiry date
- View all available subscriptions that have yet to be applied to a system
- Apply an available subscription of the same level or higher to a system
- Transfer available subscriptions from one account to another

User shall have full access to the state of their system, which system subscriptions are expiring soon and inventory of available subscriptions.

User shall be able to procure additional subscriptions in advance of knowing specially to which systems the subscriptions may be applied to in the future.

Administrators shall receive an automated email notification for upcoming pending expiring subscriptions.

Upon expiration of connectivity subscription, the CCS shall continue normal operation without interruption or change in performance. Local connectivity shall remain available for on-site configuration and diagnostics.

19-5.02J(1.2) User Management: The initial account administrator shall be automatically assigned by the CCS manufacturer. Additional users shall be invited by the administrator for account access. Administrators shall have the ability to invite additional users with the following roles:

- Administrator – highest level of account authority. Can manage all account aspects including adding/removing users and transferring system ownership
- Operator – can manage and edit all systems

- Field Technician – can access the system on-site with a “digital key” and without need to “pair” with the system, for use with mobile app (see Section 6). Field Technician role shall not have the ability to view systems remotely.
- Observer – read-only access

All user roles, aside from Field Technician, shall have the following functions:

- Self-serve password change
- Self-serve SMS and/or email alert preferences
- Two-factor authentication

User Management shall be restricted to administrators only and shall provide the following functions:

- View a list of all user’s names, emails, user’s roles and last login date
- Change user’s role
- Invite a user
- Delete a user

Providing an invitation to new user shall require only a valid email address and required user role.

19-5.02M Packaging: Packaging shall consist of only recyclable corrugated cardboard and soft plastic bags.

19-5.02N Qualifications: The CCS shall be FCC certified to comply with all 47 CFR FCC Part 15 Subpart B Emission requirements.

The CCS shall be manufactured in the USA and shall be Buy American and Build America, Buy America (BABA) compliant.

The Manufacturer shall provide a 3-year Limited Warranty.

The Manufacturer shall be ISO 9001 certified.

The CCS shall be standard configuration and ship within 10 business days from receipt of order.

The CCS shall be manufactured by Carmanah Technologies.

Manufacturer: Carmanah Technologies Inc.
 Model: R920-MX AC Connected Crosswalk System
 Toll-Free: 1-877-722-8877
 www.carmanah.com

19-6 Lighting: Safety lighting shall conform to Section 86-6 “Lighting” of the Standard Specifications and these special provisions.

LED Safety lighting Luminaires shall be Streetworks OVH LED Cobrahead Roadway Luminaire, or approved equal.

Each luminaire shall be furnished with photoelectric unit receptacle.

All luminaires to be mounted on horizontal mast arms, when tested in accordance with California Test 611, shall be capable of withstanding cyclic loading in:

1. A vertical plane at a minimum peak acceleration level of 3.0 g's peak-to-peak sinusoidal loading (same as 1.5 g's peak) with the internal ballast removed for a minimum of 2 million cycles without failure of any laminar parts; and
2. A horizontal plane perpendicular to the direction of the mast arm at a minimum peak acceleration level of 1.5 g's peak-to-peak sinusoidal (same as 0.75-g peak) with the internal ballast installed, for a minimum of 2 million cycles without failure of any laminar parts.

No part of the slip filter mounting brackets on the luminaires shall develop a permanent set in excess of 0.020-inch when the four 3/8-inch diameter cap screws used for mounting are tightened to a torque of 10 foot-pounds.

Ballasts shall be the lag or lead regulator, non-regulating reactor, autotransformer or high reactance type.

Street Lighting Pole shall be Hapco 4 bolt base RTA30D6B4D14 30 foot light pole, or approved equivalent. Pole shall be Wall Alloy 6063-T6 Satin Ground or Powder Coated Finish per City of Healdsburg Specifications.

19-7 Removing, Reinstalling or Disposing Electrical Equipment

19-7.01 Removing Electrical Equipment: The Contractor shall remove the existing electrical equipment as indicated on the plans.

Existing electrical equipment becomes the Contractor's property and the Contractor shall dispose of it under Section 7-1.13, "Disposal of Materials Outside the Highway Right of Way."

Unused underground conduit shall be abandoned in place after all conductors have been removed, except that conduit terminations from conduit to be abandoned must be removed from pull boxes to remain.

Holes resulting from removing pull boxes must be filled with material equivalent to the surrounding material.

19-8 Blank

19-10 Payment: Street Light, Pole & Foundation shall be paid for at the contract unit price **each**, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing street lights, poles, and foundations conforming to project specifications, excavation and preparation of foundation base, pouring and curing concrete for foundations, installation of poles and luminaires, conduits, pull boxes, conductors, electrical connections, grounding, backfilling and compacting, surface restoration, site cleanup, all temporary traffic control measures, any other work required to furnish and install street lights, poles, and foundations not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Rapid Rectangular Flashing Beacon (RRFB) System at March & Lupine shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing RRFB systems conforming to project specifications, supplying and installing poles and foundations conforming to project specifications for RRFB systems, excavation and preparation of foundation bases, pouring and curing concrete for foundations, installation of poles, mounting RRFB system on poles or other supports, trenching backfill and compaction, conduits, pull boxes, conductors, electrical connections, grounding, integration with pedestrian activation devices, programming and testing of beacon operation, backfilling and surface restoration, signs, site cleanup, all temporary traffic control measures, any other work required to furnish and install Rapid Rectangular Flashing Beacon (RRFB) System at March Avenue and Lupine & Lupine not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

Rapid Rectangular Flashing Beacon (RRFB) at March & Prentice shall be paid for at the contract **lump sum** price, which price shall include full compensation for furnishing all equipment, tools, materials, and labor, and doing all the work involved as herein specified, including but not limited to, supplying and installing RRFB systems conforming to project specifications, supplying and installing poles and foundations conforming to project specifications for RRFB systems, excavation and preparation of foundation bases, pouring and curing concrete for foundations, installation of poles, mounting RRFB system on poles or other supports, trenching backfill and compaction, conduits, pull boxes, conductors, electrical connections, grounding, integration with pedestrian activation devices, programming and testing of beacon operation, backfilling and surface restoration, signs, site cleanup, all temporary traffic control measures, any other work required to furnish and install Rapid Rectangular Flashing Beacon (RRFB) System at March Avenue and Prentice Drive not specifically enumerated in the City Standards, and other work incidental thereto, complete in accordance with the Project Plans, these Special Provisions, and no additional allowance will be made therefor.

SECTION A
ENVIRONMENTAL

A-1 General

A-1.01 General: The Contractor shall comply with all federal, state, and local laws and permit requirements. Any permit fees will be paid for on a force account basis.

A-2 Solid Waste Disposal

A-2.01 General: The Contractor shall dispose of all Portland cement concrete (PCC) and asphalt concrete (AC), generated from removal or demolition activities on the project, at a recycler for these materials. The Contractor shall provide receipts verifying delivery and approximate quantity (in tons) of the material delivered to a material recycler.

All other excess materials from the project shall become the property of the Contractor and shall be disposed of at no additional expense to the City.

A-2.02 Submittals: Submit a Solid Waste Disposal and Recycling Report prior to final acceptance of work performed under the Contract. Show the types and amounts of project-generated solid waste taken to or diverted from landfills or reused on the project.

Submit a Solid Waste Disposal and Recycling Report prior to Contract acceptance. Show the types and amounts of project-generated solid waste taken to or diverted from landfills or reused on the project.

A-3 Hazardous Waste and Contamination

A-3.01: General: The proposed project is located in an area that contains no **known** subsurface petroleum hydrocarbon contamination. Should contamination be discovered during construction, the Contractor shall develop a plan for handling and disposing of potentially contaminated soils and groundwater.

In general, the Contractor shall maintain awareness of potential signs of soil and groundwater contamination throughout the project limits and shall notify the City immediately upon discovery of any potential soil or groundwater contamination.

Upon discovery of suspected contaminated materials, the Contractor shall immediately provide 40-hour OSHA-HAZWOPER certified workers in the contaminated area and provide a field Site Safety Officer that is also an 8-hour OSHA-HAZWOPER Supervisor trained to directly oversee the contaminated materials removal and handling operation. All workers in this circumstance must have their initial and annual renewal refresher training, medical clearance and personal protection equipment in accordance with 8CCR Section 5192.

A-5 Noise

A-5.01: General Noise Reduction: The Contractor shall comply with the following general noise reduction measures at all times:

1. Equip all internal combustion engine driven equipment with intake and exhaust mufflers which are in good condition and appropriate for the equipment.

2. Unnecessary idling of internal combustion engines shall be strictly prohibited.
3. Staging of construction equipment and all stationary noise-generating construction equipment, such as air compressors and portable power generators, shall be staged as far as practical from existing sensitive noise receptors.
4. Utilize "quiet" air compressors and other stationary noise sources where technology exists.
5. Control noise from construction workers' radios to the point where radio noise is not audible at existing residences bordering the project site. No radios will be permitted.

A-6.01 Payment: Full compensation for conforming to all requirement of this section shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed.

Any material excavated from trenches in the project area that exhibit signs of contamination (including, but not limited to staining and/or odor) shall be considered property of the City and shall only be disposed of at the direction of the City. Under such conditions, costs beyond normal disposal costs for uncontaminated material will be paid on a force account basis. Prior to disposal of any excess material from the work site, the Contractor shall submit to the Engineer written authorization for such disposal and entry permission signed by the approved disposal site. The Contractor shall comply with all disposal regulations such as City, County, and/or State permits and licenses, as may be required.

Project Plans
(BOUND SEPARATELY)