

CITY OF CAPITOLA

SPECIAL PROJECT SPECIFICATIONS FOR CONSTRUCTION OF

Upper Village Parking Lot Sidewalk Improvements

**FOR USE IN CONJUNCTION WITH
STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS AND STANDARD PLANS
DATED 2018 WITH MOST RECENT REVISIONS**

BIDS OPEN: 10:00 A.M, THURSDAY, MAY 16, 2024

**THIS IS A PREVAILING WAGE PROJECT
DO NOT DETACH THE PROPOSAL FROM
THE SPECIAL PROJECT SPECIFICATIONS**



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NOTICE TO CONTRACTORS

NOTICE INVITING SEALED PROPOSALS OR BIDS

NOTICE IS HEREBY GIVEN that the City of Capitola, County of Santa Cruz, State of California, hereby invites sealed proposals or bids for the following work, all as more particularly and in detail set forth in those certain plans, specifications, and contract documents adopted therefore, copies of which are on file with the City of Capitola, County of Santa Cruz, State of California, to wit:

Upper Village Parking Lot Sidewalk Improvements

General work description: This project will consist of constructing sidewalk improvements from the Upper Pacific (Beach and Village) Parking Lot to the intersection of Monterey and Park Avenues. The project scope includes construction of new signing, striping, curb, gutter, sidewalk, and retaining wall on the south side of the Upper Pacific Parking Lot driveway.

The total estimated cost of construction (Base Bid plus Alternative 1) is **\$370,000**

The plans, and specifications and contract documents may be examined and copies secured from the Director of Public Works, City Hall, 420 Capitola Avenue, Capitola, CA 95010 or accessible from the City's website <http://www.cityofcapitola.org>

No contractor or subcontractor shall be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City.

In accordance with California Labor Code Section 1771, all workers engaged in performance of the specified contract work shall be paid 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, including for holiday and overtime work as determined by the Director of Industrial Relations. Prevailing rate of per diem wages are available online at:

<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

Notice is also hereby given that all bidders shall submit, with their proposals or bids, a sworn statement of their financial responsibility, technical ability and experience.

No sealed proposal or bid will be accepted from a contractor who has not been licensed in accordance with the provisions of Chapter 9, Division III of the Business and Professions Code, as amended. In addition, the project requires a valid California contractor's license for the following classification(s):

California Class A license. Bidders must provide satisfactory evidence of such license at the time of bid.

Each sealed proposal or bid shall be accompanied by a certified check, cashier's check or bidder's bond made payable to the order of the City of Capitola, for an amount not less than 10 percent of the amount of the proposal. The above-mentioned bid deposit shall be given as a guarantee that the bidder will enter into a contract, if awarded, and will be declared forfeited if the successful bidder refuses, or fails, to enter into said contract, and furnish required bonds within the time specified after being notified to do so by the City of Capitola.

All proposals for the above-mentioned work will be received by the City of Capitola, County of Santa Cruz, State of California by

Thursday, May 16, 2024 @ 10:00 a.m.

at the Capitola City Hall, 420 Capitola Avenue, Capitola, California 95010. All proposals shall be in sealed envelopes plainly endorsed:

Upper Village Parking Lot Sidewalk Improvements

Proposals/bids will be opened publicly and read aloud on **Thursday, May 16, 2024 @ 10:00 a.m.** at Capitola City Hall, 420 Capitola Avenue. Capitola, CA 95010.

Closing time to receive bids will be determined by a clock designated by the City of Capitola. Bidder shall be responsible to check the designated clock.

The successful bidder will be required to furnish a Labor and Material Bond in the amount equal to 100 percent of the contract price, and a Faithful Performance Bond in an amount equal to 100 percent of the contract price, said bonds to be issued by a corporate surety company in the form approved by the City Attorney. The contractor will be allowed ten calendar days after she/he has received written notice that the contract has been awarded to him/her by the City within which to deliver the agreement with his/her signature affixed thereto, together with the completed aforementioned bonds and insurance certificates, to the Director of Public Works of the City of Capitola.

This project contains one (1) Add Alternative, and the award will be made on the basis of the Base Bid only without Add Alternative 1. The City reserves the right to award a contract for the Base Bid only or the Base Bid plus Add Alternative 1 on the bid proposal page subject to the available funds at the time of the award.

The City of Capitola reserves the right to reject any and all bids and waive any irregularity or minor defects in any proposal received. Unless otherwise required by law, no bidder may withdraw his/her bid for a period of thirty days after the date set for the opening thereof. Where possible, bids will be compared on the basis of the Engineer's estimate of the quantities of work to be performed.

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



INSTRUCTIONS TO BIDDERS

Upper Village Parking Lot Sidewalk Improvements

All bidders' attention is directed to the City of Capitola's Special Project Specifications, Part 1 – Standard Provisions, Section 2 "Proposal Requirements and Conditions," for requirements related to bidding and bid proposals. Bids shall be submitted in writing on the proposal forms provided by the City. All information requested therein must be clearly and legibly set forth in the manner and form indicated. The City will not consider any proposal not meeting these requirements.

By submitting a proposal/bid, each bidder represents that they have carefully examined and investigated the site of the work contemplated and the Plans, Drawings, and Specifications therefore, in accordance with the City's Special Project Specifications.

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

Bid protests and procedures therefore are set forth in the City's Special Project Specifications.

In the event the bidder has any questions as to the meaning of any part of the plans and specifications, or if the bidder finds any error, inconsistency, or ambiguity in the Contract Documents, the bidder shall make a written request for clarification prior to submitting its bid. All questions and comments regarding the plans and specifications should be directed to the Project Manager indicated below and will only be responded to if received in writing at least five (5) working days before the bid opening. Questions received after this time and date may not be responded to.

Kailash Mozumder, Project Manager
City of Capitola
420 Capitola Avenue
Capitola, CA 95010
Email: kmozumder@ci.capitola.ca.us

These "Instructions to Bidders" are hereby made a part of the Contract Documents.



PROPOSAL FORMS

BIDDER'S PROPOSAL

Enclosed is Bidder's proposal to furnish and deliver all materials and to do and perform all work in accordance with the plans and contract documents of the City of Capitola for

Upper Village Parking Lot Sidewalk Improvements

and referred to the "Notice to Contractors/Notice Inviting Sealed Proposals of Bids", and to provide all necessary machinery, tools, apparatus, and other means of construction and do all work and furnish all materials required by said specifications, plans, and drawings in the manner prescribed therein.

The undersigned bidder understands that any quantities of work shown herein are approximate only and are subject to increase or decrease, and offers to do the work whether the quantities are increased or decreased at the unit prices, if required, as stated in the following tabulation. The undersigned bidder agrees to take in full payment for the work, including all applicable State and local taxes, the amount shown on the bid sheet.

The undersigned also agrees as follows:

IT IS UNDERSTOOD THAT THIS BID IS BASED UPON COMPLETION OF THE WORK AS SPECIFIED IN THE SPECIAL PROVISIONS, WITHIN 45 NUMBER OF WORKING DAYS WORKING DAYS.

To do any extra work, not covered by the schedule of price, which may be ordered by the City, and to accept as full compensation therefore such prices as may be agreed upon in writing by the City and the Contractor in accordance with the Standard Specifications.

If awarded the contract, the undersigned hereby agrees to execute said contract, with necessary bonds and insurance certificates, of which this Proposal and Notice Inviting Bids, Standard Specifications, Plans and any and all other Contract Documents shall be a part, within 20 calendar days after receipt of notice of the award of said contract, and to begin work within 10 working days after receiving Notice to Proceed with the contract.

THE UNDERSIGNED BIDDER HAS CAREFULLY EXAMINED THE FORM OF THIS CONTRACT, THE STANDARD SPECIFICATIONS, THE PLANS, THE DRAWINGS, PERMIT CONDITIONS, THE NOTICE TO CONTRACTORS/NOTICE INVITING SEALED PROPOSALS OR BIDS, AND ALSO THE SITE OF THE WORK, AND WILL PROVIDE ALL NECESSARY MACHINERY, TOOLS, APPARATUS AND OTHER MEANS OF CONSTRUCTION AND DO ALL THE WORK AND FURNISH ALL MATERIALS REQUIRED THEREIN.

No bid will be considered for less than all items of this schedule and one contract will be awarded for the entire project.

The undersigned has carefully checked the bid prices, and all computations involved in the preparation of this bid, and understands that the City of Capitola will not be responsible for any errors or omission on the part of the undersigned in making up this bid.

This proposal is made with a full knowledge of the kind, quantities and quality of the work and of the materials, equipment and plans required. This proposal is also made after a complete, careful and independent examination and investigation of the site of the work, local conditions affecting the same, and materials to be encountered.

The bidder furthermore agrees that in case of his/her default in executing said contract with necessary bonds and insurance certificates, the check or bond accompanying this Proposal and money payable shall become and remain the property of the City of Capitola.

Enclosed is bidder's bond, certified check or cashier's check no. _____

of the _____ Bank for \$_____ which is not less than 10 percent of the bid submitted by the undersigned, payable to the City of Capitola, California, and which is given as a guarantee that the undersigned will enter into the contract if awarded the work.

The City of Capitola will award one contract to the lowest responsible bidder for any combination of bid schedules; however, it is understood and agreed that the City may reject any or all proposals or waive any informalities or minor defects in proposals received.

It is agreed that this bid may not be withdrawn over a period of 30 days from the opening thereof.

NOTE: Bidders must not add any conditions of qualifying statement to this bid as otherwise the bid may be declared irregular as being not responsive to the Advertisement for Bids.

Firm Name:

Signature of Bidder:

Printed Name:

Title:

Date:

Business Address:

Mailing Address:

Phone:

Email:

Tax ID No. or _____
Social Security No. _____
State Contractor's License No.: _____
Expiration Date: _____
Classifications(s): _____
CA State DIR Registration No.: _____
Classification of Workers Used on _____
Job: _____

REQUIRED CONTRACTOR INFORMATION

NOTICE: In the case of a corporation, complete the following:

Corporation Name:

Business Address:

Mailing Address:

President:

Business Address:

Mailing Address:

Secretary:

Business Address:

Mailing Address:

Treasurer:

Business Address:

Mailing Address:

Manager:

Business Address:

Mailing Address:

BID SCHEDULE

BASE BID

ITEM NO.	BID ITEM	UNIT	QTY	UNIT PRICE	UNIT TOTAL
1	Mobilization	LS	1		
2	Construction Area Signs	LS	1		
3	Traffic Control System	LS	1		
4	Survey and Construction Staking	LS	1		
5	Temporary Water Pollution Control and Erosion Control	LS	1		
6	Relocate Street Light	EA	1		
7	Relocate Roadside Sign	EA	9		
8	Adjust Electric Utility Vault to Grade	EA	1		
9	Remove Tree (Pending Arborist Evaluation)	EA	10		
10	Roadway Excavation	CY	138		
11	Aggregate Base (Class 2)	CY	94		
12	Hot Mix Asphalt (Type A)	TON	29		
13	Minor Concrete (Curb and Gutter)	CY	7		
14	Minor Concrete (Curb)	CY	12		
15	Minor Concrete (Sidewalk)	CY	27		
16	Minor Concrete (Curb Ramp)	CY	5		
17	Minor Concrete (Bus Bay)	CY	0		
18	Detectable Warning Surface	SQFT	89		
19	Retaining Wall Type 1 (Cast In Place)	LF	399		
20	Roadside Sign (One Post - Metal)	EA	0		
21	Thermoplastic Traffic Stripe	LF	1,293		
22	Thermoplastic Pavement Marking	SQFT	786		
23	Thermoplastic Pavement Marking (Green)	SQFT	688		
24	Simme Seat	EA	1		

ITEM NO.	BID ITEM	UNIT	QTY	UNIT PRICE	UNIT TOTAL
Total Base Bid Amount					\$

ADD ALTERNATIVE 1

ITEM NO.	BID ITEM	UNIT	QTY	UNIT PRICE	UNIT TOTAL
1	Mobilization	LS	1		
2	Construction Area Signs	LS	1		
3	Traffic Control System	LS	1		
4	Survey and Construction Staking	LS	1		
5	Temporary Water Pollution Control and Erosion Control	LS	1		
6	Relocate Street Light	EA	0		
7	Relocate Roadside Sign	EA	4		
8	Adjust Electric Utility Vault to Grade	EA	0		
9	Remove Tree (Pending Arborist Evaluation)	EA	9		
10	Roadway Excavation	CY	138		
11	Aggregate Base (Class 2)	CY	79		
12	Hot Mix Asphalt (Type A)	TON	16		
13	Minor Concrete (Curb and Gutter)	CY	3		
14	Minor Concrete (Curb)	CY	2		
15	Minor Concrete (Sidewalk)	CY	9		
16	Minor Concrete (Curb Ramp)	CY	4		
17	Minor Concrete (Bus Bay)	CY	38		
18	Detectable Warning Surface	SQFT	36		
19	Retaining Wall Type 1 (Cast In Place)	LF	0		
20	Roadside Sign (One Post - Metal)	EA	1		
21	Thermoplastic Traffic Stripe	LF	0		

ITEM NO.	BID ITEM	UNIT	QTY	UNIT PRICE	UNIT TOTAL
22	Thermoplastic Pavement Marking	SQFT	0		
23	Thermoplastic Pavement Marking (Green)	SQFT	0		
24	Simme Seat	EA	1		
Total Add Alternative 1 Bid Amount					\$

TOTAL BASE BID	\$
TOTAL ADD ALTERNATIVE 1	\$
TOTAL BASE BID PLUS ADD ALTERNATIVE 1	\$

Base Bid Amount in words: _____

The contingency is reserved for unforeseen project tasks. No payment will be made to the Contractor for any portion of the contingency unless a contract change order is approved by the City.

BIDDER'S ACKNOWLEDGEMENT OF ADDENDUM(S)

Acknowledgement of Addendums(s): Receipt of the following addendum(s) issued during the time of bidding is acknowledged and the information contained therein has been considered in the preparation of this bid proposal.

Note: Failure to execute the following may be considered as an irregularity in the bid proposal.

Addendum No.: (None _____) (1 _____) (2 _____) (3 _____) (4 _____) (5 _____)

Check appropriate space(s)

I certify under penalty of perjury that the representations made herein are true and correct to the best of my knowledge.

Signature of Bidder

Printed Name of Bidder

WORKERS' COMPENSATION ACKNOWLEDGMENT CERTIFICATE

Labor Code section 1861 provides every contractor must submit the following certification prior to performing the work of the contract:

“I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.”

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 _____[date], at _____[city], _____[state].

On behalf of Contractor by: _____

Its: _____

Signature

NONCOLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

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 _____[date], at _____[city], _____[state].

Contractor/Bidder

JURAT CERTIFICATE

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of _____)

County of _____)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, by _____, proved to me on the basis of satisfactory evidence to be the persons who appeared before me.

(This area for official notary seal)

Signature _____

BIDDER'S BOND

KNOW ALL MEN BY THESE PRESENT:

THAT WE, _____

AS PRINCIPAL, AND _____

AS SURETY, are held and firmly bound unto the City of Capitola in the penal sum of 10 PERCENT OF THE TOTAL AMOUNT OF THE BID of the Principal above named, submitted by said Principal to the City of Capitola for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made to the City of Capitola to which said bid was submitted, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$ _____.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the Principal has submitted the above-mentioned bid to the City of Capitola, aforesaid, for certain construction specifically described as follows, for which bids are to be opened at

Thursday, May 16, 2024 @ 10:00 a.m. at Capitola City Hall, 420 Capitola Ave, Capitola CA 95010

For:

Upper Village Parking Lot Sidewalk Improvements

NOW, THEREFORE, if the aforesaid Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him/her for signature enters into a written contract. In the prescribed form, in accordance with the bid, and files the certificate of insurance and two bonds with the City, one to guarantee faithful performance, and the other to guarantee payment for labor and materials as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____ day of _____, 2020.

_____(Seal) _____(Seal)

_____(Seal) _____(Seal)

Principal

Surety

Address _____ Address _____

Note: Signatures of those executing for the surety must be properly acknowledged.

AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 2020, by and between the CITY OF CAPITOLA, a municipal corporation, hereinafter called "City," and _____, hereinafter called "Contractor;"

WITNESSETH, that the parties hereto do mutually agree as follows:

ARTICLE I

That for and in consideration of the covenants and agreements herein contained and the payments at the prices stated in the bid proposal attached hereto, and by this reference made a part hereof, the Contractor hereby covenants and agrees to furnish any and all required supervision, labor, equipment, "Standard Provisions" as hereinafter defined, and will bear any and all other expense necessary or incidental to the performance of certain work hereinafter specified, and to build, construct, reconstruct, pave or repave and complete improvements for:

Upper Village Parking Lot Sidewalk Improvements

General work description: Construct traffic calming improvements on Clares Street from 41st Avenue to Wharf Road to improve access for vehicles, bicycles, and pedestrians. The project scope includes repaving the Clares Street roadway and constructing raised crosswalks.

in strict conformity and compliance with the City's Special Project Specifications, the Plans, and Drawings, and to do everything required by this agreement, and by said Standard Specifications as hereinafter defined.

ARTICLE II

It is expressly agreed and understood by the Contractor that the City's Special Project Specifications consists of the documents on file at the Office of the Director of Public Works of the City of Capitola, entitled:

"City of Capitola Special Project Specifications"

All sections of the Standard Specifications of the State of California, Department of Transportation, dated 2018 with most recent revisions, ("State Specifications"), shall apply. Where conflicts arise between the City's Special Project Specifications and the State Specifications, the City's Special Project Specifications shall control and apply.

ARTICLE III

It is expressly agreed and understood by each and every party to this agreement that the Notice to Contractors/Notice Inviting Sealed Proposals or Bids, Instructions to Bidders, the City's Special Project Specifications, including the Standard Provisions, Technical Provisions, and Special Provisions, the City's Standard Details, the State Specifications, the Bid Proposal including all required forms and bonds, the Plans, and the Drawings are hereby incorporated and made a part of this contract (hereinafter the "Contract Documents"). The parties to this agreement do hereby expressly acknowledge that they have read, understand, and promise to comply with each and every provision of Contract Documents.

ARTICLE IV

Contractor shall conform to all laws and regulations of the United States and the State of California, as well as laws of Capitola, as may be applicable to the project.

ARTICLE V

The City hereby contracts to pay said Contractor the prices provided for in the Bid Proposal in the manner, to the extent, and at the times set forth in the Contract Documents.

ARTICLE VI

It is agreed by the parties hereto that the acceptance of the Contractor's performance will be made only by an affirmative action of the City of Capitola, by approval of a Notice of Completion, and upon the filing by the Contractor of a Release of all Claims of every nature on account of work done under this contract, together with an affidavit that all claims have been fully paid. The acceptance by the Contractor of said final payment shall constitute a waiver of all claims against the City arising out of or in connection with this contract.

IN WITNESS WHEREOF, this contract is executed by the City Manager of the City of Capitola, and the Contractor has affixed his/her signature hereto the day and year first hereinabove written.

CITY OF CAPITOLA
A Municipal Corporation

CONTRACTOR:

By:

By:

Benjamin Goldstein
City Manager

Title: _____

Date: _____

Date: _____

Approved by the City Council on _____

ATTEST:

City Clerk

FAITHFUL PERFORMANCE & MAINTENANCE BOND

WHEREAS, the City of Capitola, a municipal corporation, in the County of Santa Cruz, State of California, has awarded to _____, hereinafter designated as the "Principal," a contract for constructing the work or improvement described in the contract documents entitled:

Upper Village Parking Lot Sidewalk Improvements

WHEREAS, said Principal is about to enter into the contract with the City of Capitola:

NOW, THEREFORE, we, the Principal, and _____, a corporation organized and existing under and by virtue of the laws of the State of California, as surety, are held and firmly bound unto the City of Capitola, a municipal corporation in the County of Santa Cruz, State of California, in the sum of _____ dollars (\$_____) being not less than one hundred percent (100%) of the estimated contract costs of the work, to be paid to the City of Capitola, for the payment of which sum, well and truly to be paid, we hereby jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns;

NOW, THEREFORE THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal, his/her heirs, executors, administrators, successors, or assigns shall in all things abide by and well and truly keep and perform the covenants, conditions and agreements in the said contract and any alteration thereof made as herein provided, on his/her or their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to the true intent and meaning, and shall indemnify and save harmless the City of Capitola, its officers and agents as therein stipulated, that this obligation shall be discharged, otherwise it shall be and remain in full force and effect.

As a condition precedent to the satisfactory completion of the said contract, the above obligation in the amount of dollars _____dollars (\$_____), being not less than 10 percent of the estimated contract cost, shall remain in force for a period of one (1) year after the completion and acceptance of the said work, during which time if the Principal, his/her or its heirs, executors, administrators, successors or assigns shall fail to make full, complete and satisfactory repairs and replacements or totally protect the City of Capitola from loss or damage made evident during said period of one (1) year from the date of official acceptance of said work and resulting from or caused by defective materials or faulty workmanship in the prosecution of the work done, the above obligation in the sum of _____dollars (\$_____), shall remain in full force and effect, otherwise the obligation shall be discharged. However, notwithstanding any other provisions of this paragraph, the obligation of the surety hereunder shall continue so long as any obligation of the Principal remains.

The surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications shall in any way effect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions to the terms of the contract or to the work or to the specifications, and the surety does hereby waive its rights under California Civil Code Section 2819.

IN WITNESS whereof, the parties have executed this instrument under their seals, this ____ day of _____, 20____, by its undersigned representative, pursuant to the authority of its governing body, the day and year first hereinabove written.

PRINCIPAL

SURETY

LABOR AND MATERIAL BOND

WHEREAS, the City of Capitola, a municipal corporation in the County of Santa Cruz, State of California, has awarded to _____, hereinafter designated as the "Principal," a contract for constructing the work or improvement described in the contract documents entitled:

Upper Village Parking Lot Sidewalk Improvements

WHEREAS, said Principal is required under the terms of said contract to furnish a Labor and Material Bond, the surety of this bond will pay the same to the extent hereinafter set forth; and

WHEREAS, the said Principal is about to enter into the annexed contract with the City of Capitola to complete the work or improvement referred to above for the City of Capitola, County of Santa Cruz, State of California, all as more particularly and in detail as shown upon the Special Project Specifications and Contract Documents filed in the Public Works Department of the City of Capitola;

NOW, THEREFORE, we the Principal, and _____ a corporation organized and existing under and by virtue of the laws of the State of California, as surety, are held and firmly bound unto the City of Capitola in the sum of _____ dollars (\$ _____) such sum being not less than one hundred percent (100%) of the estimated contract cost of the work, lawful money of the United States of America, to be paid to the City of Capitola, for the payment of which sum, well and truly to be made, we hereby bind ourselves, our heirs, administrators, executors, successors and assigns jointly and severally.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if said Principal or its heirs, executors, administrators, successors or assigns, shall fail to pay for any materials, provisions, vendor supplies, or equipment as provided in the contract documents, upon, for, or about the performance of the work contracted to be done, or for any work or waiver thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or fails to pay any of the persons authorized under Civil Code Section 9100 to assert a claim against a payment bond, or fails to pay for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board for the wages of employees of the Principal or his/her subcontractor pursuant to Section 18806 of the Revenue and Taxation Code, or fails 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 and all subcontractors with respect to such work and labor that the surety or sureties will pay for the same, in an amount not exceeding the sum specified in this bond, and also, in case suit is brought upon the bond, will pay, in addition to the face amount hereof, a reasonable attorney's fee, to be fixed by the Court.

The condition of this obligation is such that its terms inure to the benefit of any of the persons and entities authorized in Civil Code Section 9100 to assert a claim against a payment bond so as to give a right of action to such persons or entities or their assigns in any suit brought upon or action to enforce liability on the bond.

The surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder shall in any manner affect its obligation upon this bond, and it does hereby explicitly waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder, and further explicitly hereby waives its rights under Civil Code Section 2819.

IN WITNESS WHEREOF, the above parties have executed this instrument under their seals this _____ day of _____, 20__, and duly signed by its undersigned representation, pursuant to authority of its governing body.

PRINCIPAL

SURETY

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

This escrow agreement is made on _____ and entered into by and between; City of Capitola whose address is 420 Capitola Avenue, Capitola, CA 95010, hereinafter called "City", and _____ whose address is _____ hereinafter called "Contractor", whose address is _____, and _____ whose address is _____, hereinafter called "Escrow Agent"

For the 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 _____ project 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 the Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner 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 the Contractor. Securities shall be held in the name of the City of Capitola, and shall designate the Contractor as the beneficial owner.
- (2) The City shall make progress payments to the Contractor for those 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 the time that the escrow created under this contract is terminated. The Contractor may direct the investment 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) The Contractor shall be responsible for paying all fees for the expenses incurred by the Escrow Agent in the 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 Contractor and shall be subject to withdrawal by Contractor t 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 the Escrow Agent accompanied by written authorization from the City to the Escrow Agent that the City consents to the withdrawal of the amount sought to be withdrawn by the Contractor.
- (7) The City shall have the right to draw upon the securities in the event of default by the Contractor. Upon seven days' 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 moneys and securities on deposit and payment of fees and charges.

(9) The 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 the 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 the Contractor in connection with the foregoing, and examples of their respective signatures are as follows:

CITY

Contractor

Authorized Signer

Authorized Signer

Name:

Name:

Title:

Title:

Address:

Address:

City, State,
Zip

City, State,
Zip

Phone:

Phone:

On behalf of the Escrow Agent:

Authorized Signer

Name: _____

Title: _____

Address: _____

City, State, _____
Zip

Phone: _____

PART 2: STANDARD PROVISIONS

SECTION 1

DEFINITIONS AND TERMS

Whenever in these specifications and other contract documents, the following abbreviations and terms or pronouns in place of them are used, the intent and meaning shall be interpreted as follows:

ABBREVIATIONS

AASHTO	American Association of State Highway and Transportation Officials
AAN	American Association of Nurserymen
ACI	American Concrete Institute
AGMA	American Gear Manufacturers Association
AIEE	American Institute of Electrical Engineers
AISI	American Iron and Steel Institute
AISC	American Institute of Steel Construction
ANSI	American National Standards Institute
AREA	American Railway Engineering Association
ASA	American Standards Association (United States of America Standards Instruction)
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air Conditions Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing Materials
AWS	American Welding Society
AWPA	American Wood-Preservers' Association
AWWA	American Water Works Association
DIR	Department of Industrial Relations
FS	Federal Specification
IEEE	Institute of Electrical and Electronic Engineers
MUTCD	Manual on Uniform Traffic Control Devices

NBFU	National Board of Fire Underwriters
NEMA	National Electrical Manufacturers Association
SAE	Society of Automotive Engineers
SPSPWC	Special Project Specifications for Public Works Construction
UL	Underwriters Laboratories

All references to specifications, standards, or other publications of any of the above are understood to refer to the current issue as revised or amended at the date of receipt of bids/Contract.

SECTION 1
DEFINITIONS AND TERMS

- 1.01 Acceptance** - The formal written acceptance by the City of the Contract which has been completed in all respects in accordance with the Drawings and Specifications and any modifications thereof previously approved.
- 1.02 Addendum** - A change in the Specifications or Drawings issued prior to the opening of Proposals.
- 1.03 Approved, Directed, Ordered, or Required** - Whenever these words or their derivatives are used, it is the intent, unless otherwise clearly stated, that approval or direction by the Engineer is indicated
- 1.04 Article** - A numbered portion of a title Section of the Specifications
- 1.05 Bidder** - Any individual, firm, partnership, corporation or combination thereof, submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.
- 1.06 City** - The City of Capitola.
- 1.07 Contract/Contract Documents** - The written agreement covering the performance of the work and the furnishing of labor; materials, tools, and equipment in the construction of the work. The Contract shall include the Notice to Contractors, Proposal, Drawings, City Special Project Specifications, Addenda, and Contract Bonds; also, any and all supplemental agreements amending or extending the work in a substantial and acceptable manner. Supplemental agreements are written agreements signed by both parties covering alterations, amendments, or extensions to the Contract and include Contract change orders.
- 1.08 Contractor** - The person or persons, firm, partnership, corporation, or combination thereof, private or municipal, who is the successful bidder and has entered into a contract with the City.
- 1.09 Council, City Council** - The City Council of the City of Capitola.
- 1.10 Days** - Working days, unless otherwise designated.
- 1.11 Director** - The Director of the Public Works Department, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.
- 1.12 Drawings** - The official drawings, working drawings, detail drawings, and supplemental drawings, or reproductions thereof, which show the location, character, dimensions, and details of the work to be done, and which are to be considered as part of the Contract.
- 1.13 Engineer** - The City Engineer acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.
- 1.14 Liquidated Damages** - The amount prescribed in the specifications, pursuant to the authority of Government Code Section 53069.85, and the Standard Specifications of the State of California, Department of Transportation dated 2018, with the most recent revisions, to be paid to the City or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portions of the work beyond the time allowed in the Specifications.

- 1.15 Plans, Constructions Plans** - The Drawings which are a part of the Contract.
- 1.16 Project** - The project, works of improvement, or other work identified in the Contract Documents.
- 1.17 Proposal** - The offer of the Bidder for the work when made out and submitted on the prescribed Proposal Form, properly signed and guaranteed.
- 1.18 Special Provisions** - The special provisions are specific clauses setting forth conditions or requirements peculiar to the work and supplementary to the Standard Provisions and Technical Provisions.
- 1.19 Specifications** - The directions, provisions and requirements contained in the City's Special Project Specifications, including the Standard Provisions, Technical Provisions, and Special Provisions, and those incorporated by reference.
- 1.20 State Specifications** - Wherever in these Specifications reference is made to the "State Specifications," reference shall be to specifications entitled, "State of California, Department of Transportation, Standard Specifications," 2018 edition with most recent revisions, and which are incorporated herein and made a part hereof by reference. Where the terms "State" or the "Engineer" are used in reference to the State Specifications, they shall be considered as meaning the "City" or "Director/Engineer" as defined hereinabove and as may be applicable.
- 1.21 Subcontractor** - A person, firm or corporation that is obligated as a party to a contract with the Contractor to perform part of the Project work. For purposes of these General Conditions 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 Project Work according to the Technical Specifications and/or Project Plans.
- 1.22 Work** - All the work specified, indicated, shown or contemplated in the Contract to construct the improvements, including all alterations, amendments or extensions thereto made by supplemental agreements or written orders of the Director.

SECTION 2
PROPOSAL REQUIREMENTS AND CONDITIONS

2.01 OBTAINING PLANS AND SPECIFICATIONS - The City's Special Project Specifications, Plans, and Drawings may be obtained at the location indicated on the Notice to Bidders and/or the Office of the Engineer, Capitola City Hall, 420 Capitola Ave, Capitola, California 95010.

2.02 CONTENTS OF PROPOSAL FORMS – Prospective bidders will be furnished proposal forms which describe the contemplated construction and, where appropriate, show the approximate estimate of the quantities of the various kinds of work to be performed or materials to be furnished, with a schedule of items for which bid prices are asked. The unit prices or lump sum amounts bid shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all work complete in place as shown on the Drawings or stipulated in the Specifications for that particular item of work.

2.03 ESTIMATED QUANTITIES – The quantities given in the Proposal are approximate only, being given as a basis for the comparison of Proposals, 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 of any class or portion of the work, or to omit portions of the work, as may be deemed necessary or advisable. No allowance will be made for anticipated profit on work which is deleted or decreased.

2.04 EXAMINATION OF DRAWINGS, SPECIFICATIONS, AND SITE OF WORK – The Bidder shall examine carefully the site of the work contemplated and the Proposal, Drawings, and Specifications therefor. The submission of a Proposal will be conclusive evidence that the bidder has investigated and is fully aware of the conditions and difficulties to be encountered, of the character, quality and quantities of work to be performed and materials to be furnished, and of the requirements of the Proposal, Drawings, and Specifications; as to the nature and location of the work, the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of material, availability of labor, water, electric power, roads and uncertainties of weather, or similar physical conditions at the site; the conformation and conditions of the ground, the character and quality and quantity of surface and subsurface materials, including groundwater, to be encountered; the character of equipment and facilities needed preliminary to, and during the, prosecution of the work; and all other matters which can in any way affect the work or the cost thereof under this Contract. Any failure by the Contractor to acquaint themselves with all available information concerning these conditions will not relieve him/her from responsibility for estimating properly the difficulty or cost of successfully performing the work.

If there is any doubt as to the true meaning of any part of the Plans, Specifications, or other Contract Documents, or if discrepancies in, or omissions from, the Drawings or Specifications are found, a request should be made to the Director for an interpretation or correction thereof, which will be given in the form of addenda to all bidders, if time permits. Otherwise, in figuring the work, bidders shall consider that any discrepancies or conflict between Drawings and Specifications shall be governed by Article 5.17 of these Specifications.

No payment shall subsequently be made to the Contractor because of error on his/her part or of negligence or failure to acquaint himself/herself with the existing conditions, limitations, or features of the site or requirements of the contract documents; or by reason of any estimate, tests, or representations of any officer, employee or agent of the City.

Where investigation of subsurface conditions has been made by the City in respect to foundation or other design, bidders may inspect the records of the City as to such investigation, including examination of samples and drill cores, if any. When logs of test borings showing a record of the data obtained by the City's investigation of subsurface conditions are made available, said logs represent only the opinion of the City as to the character of materials encountered in its test borings and are made available only for the convenience of bidders.

Investigations of subsurface conditions are made for the purpose of design, and the City assumes no responsibility whatever in respect to the sufficiency of test borings or accuracy of the log of test borings, of other preliminary investigations, or of the interpretation thereof. There is no guarantee expressed or implied that the conditions indicated are representative of those existing throughout the work, or any part of it, or that unforeseen developments may not occur.

Making such information available to bidders is not to be construed in any way as a waiver of the provisions of the first paragraph of this Article and bidders must satisfy themselves through their own investigations as to conditions to be encountered.

No information derived from such inspection of records or preliminary investigation made by the City, or from the Director, or from his/her assistants, or from the maps, Specifications, profiles, or Drawings will in any way relieve the Contractor from any risk or from properly fulfilling all the terms of the Contract. Records of such preliminary investigations as may have been made by the City may be inspected at the office of the Director of Public Works, Capitola City Hall, 420 Capitola Ave, Capitola, California 95060, or at such other locations as may be stated in the Notice to Contractors.

2.05 PROPOSAL FORM – The Proposal forms furnished by the City or its representatives, when filled out by the bidder and executed, shall be submitted as his/her Proposal. Neither the Proposal form nor any other portion of the Contract Documents or Specifications shall be detached therefrom. Proposals submitted on forms detached shall be disregarded. All Proposals should give the prices proposed, both in writing and in figures in the respective spaces provided, and shall be signed by the bidder, who should fill out all blanks in the Proposal form as therein required. In the event of a discrepancy between writing and figures, the writing shall prevail over the figures. If the unit price and the total amount named for any item do not agree, the unit price will be considered as representing the Bidder's intention.

A copy of each addendum to the Specifications or Drawings shall be attached securely to the Specifications containing the Proposal (refer to Article 2.13).

2.06 QUERIES ON BIDDING – Questions regarding the Specifications or Drawings or any other portion of the Contract or any addenda thereto shall be directed to the Director, at Capitola City Hall, 420 Capitola Ave, Capitola, California 95060, in writing. No interpretation of the meaning of the Specifications, Drawings, or other pre-bid documents will be made to any bidder orally.

2.07 REJECTION OF PROPOSALS – Proposals may be rejected if they show any alterations of form, additions not called for, conditional bids, incomplete bids, erasures, or irregularities of any kind. Proposals in which the prices, in the opinion of the City, are unbalanced, may be rejected. When Proposals are signed by an agent, other than the officer or officers of a corporation authorized to sign contracts on its behalf, or a member of a partnership, a written authorization or Power of Attorney should be on file with the City prior to opening Proposals or submitted with the Proposal; otherwise, the Proposal may be rejected as irregular and unauthorized.

2.08 PROPOSAL GUARANTEE/BIDDER'S SECURITY – All Proposals shall be presented under sealed cover and accompanied by one of the following forms of bidder's bond executed by an admitted surety, made payable to the City of Capitola. The security shall be in an amount equal to at least 10 percent of the total contract price in the Proposal. A Proposal will not be considered unless one such form of bidder's security is enclosed with it.

A bidder's bond will not be accepted unless it substantially conforms to the bond form included with the Proposal form and is properly filled out and executed. If desired, the bond form included therein, properly filled out as directed, may be executed and used as the bidder's bond. Blanks conforming to this form may be obtained by request from the City.

2.09 WITHDRAWAL OF PROPOSALS – Any Proposal may be withdrawn at any time prior to the time fixed in the Notice to Contractors for the opening of Proposals only by written request for the withdrawal of the Proposal filed with the Director of Public Works. The request shall be executed by the bidder or his/her duly authorized representative. The withdrawal of a Proposal does not prejudice the right of the bidder to file a new Proposal. This article does not authorize the withdrawal of any Proposal after the time fixed in the Notice to Contractors for the opening of Proposals.

2.10 PUBLIC OPENING OF PROPOSALS – Proposals will be opened and read publicly at the time and place indicated in the Notice to Contractors.

2.11 JOINT PROPOSALS – If two or more bidders desire to bid jointly on a single project or desire to combine their assets for so doing, they shall file an affidavit of joint venture with the City in the form approved by the City Attorney and such affidavit of joint venture will be valid only for the specified project for which it is filed. If such affidavit of joint venture is not filed as aforesaid and approved by the City prior to the time for opening Proposals on the specified project for which it is submitted, a joint proposal submitted by the same bidders may be disregarded.

2.12 DISQUALIFICATION OF BIDDERS – More than one Proposal form from an individual, firm, partnership, corporation, or a combination thereof under the same or different names will not be considered. If there is reason for believing that collusion exists among the bidders, none of the participants in such collusion will be considered for award for this Contract.

Contractors or subcontractors who are ineligible under Labor Code sections 1777.1 and 1777.7 are prohibited from working on the Project.

2.13 ADDENDUM – Addenda may be issued prior to opening of Proposals and shall become a part of the original Specifications and Drawings. The additions or changes contained in such addenda shall be considered by the bidder in preparation of his/her Proposal. These addenda will be sent to each prospective bidder at the address indicated in his/her application for a Proposal form. A copy of each addendum so issued shall be attached to the Specifications containing the Proposal submitted by the bidder to the City Clerk.

2.14 LIST OF SUBCONTRACTORS – The Contractor shall perform with his/her own organization and with workers under his/her immediate supervision work of a value not less than fifty percent (50%) of the value of all work embraced in the contract, except when certain items may be exempted by the Special Provisions from said fifty percent requirement.

In accordance with Public Contract Code sections 4100 *et seq.*, the Subletting and Subcontracting Fair Practices Act, each proposal shall have listed on the form provided with the Proposal, (a) the name, the location of the place of business, the California contractor license number, and public works contractor

registration number issued pursuant to California Labor Code Section 1725.5 of each subcontractor who will perform work or labor or render service to the general contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (0.5%) of the general contractor's total bid or \$10,000.00, whichever is greater, and, (b) the portion of the work which will be done by each such subcontractor.

If a Contractor fails to specify a subcontractor for any portion of the work to be performed under this contract in excess of one-half of one percent of the total bid, s/he agrees to perform that portion him/herself.

No Contractor or Subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. A Contractor or Subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City as part of the Proposal.

A Contractor's inadvertent error in listing a Subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive provided that any of the following apply: (1) the Subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the Subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the Subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

2.15 COMPETENCY OF BIDDER – The bidder shall be licensed under the applicable provisions of the Business and Professions Code of the State of California to do the type of work contemplated in the project, and shall be skilled and regularly engaged in the general class or type of work called for under this contract.

It is the intention to award a contract only to a bidder who furnishes satisfactory evidence that s/he has the requisite experience and ability and that s/he has sufficient capital, facilities, and plans to enable him/her to prosecute the work successfully and promptly, and to complete it within the time stated in the contract.

To determine the degree of responsibility to be credited to a bidder, any relevant evidence will be considered that the bidder, or personnel guaranteed to be employed in responsible charge of the work, has satisfactorily performed other contracts of like nature and magnitude or comparable difficulty at similar rates of progress.

2.16 RELIEF OF BIDDERS – Attention is directed to the provisions of Public Contract Code sections 5100 *et seq.*, which sections are incorporated herein by this reference, concerning relief of bidders and in particular to the requirement therein that if the bidder claims a mistake was made in his/her bid, the bidder shall give the City written notice within five (5) days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred.

2.17 BID PROTESTS – Any contractor who unsuccessfully bids on a City contract awarded by the City in accordance with the provisions of the Capitola Municipal Code (CMC), Chapter 3.16, or any

trade association representing workers who would have potentially been employed by such a contractor, may file a bid protest.

The bid protest shall be in writing and filed with the Director of Public Works within five days of the bid opening date. The City Engineer or their designated representative shall hear the bid protest prior to award of the contract. The protesting party may protest the bid award for the City's or successful bidder's failure to comply with the requirements of CMC, Chapter 3.16, the bid documents, or any other applicable provision of the CMC. The bid protest shall clearly set forth the basis for the bid protest.

Grounds not set forth in the written protest may not be considered by the City at the bid protest hearing. The City shall sustain a bid protest if the protesting party demonstrates by clear and convincing evidence that, as specified above, the City would act improperly in awarding the bid. The decision of the City Engineer shall be considered by the City Council at time of award of contract.

SECTION 3
AWARD AND EXECUTION OF CONTRACT

3.01 CONSIDERATION OF PROPOSALS – After the proposals have been opened and read, they will be checked for accuracy and compliance with these Specifications.

The right is reserved to reject any or all proposals; to waive an irregularity in a bid or bidding procedure; and to accept one schedule of a proposal and reject another, unless the bidder specifically stipulates to the contrary.

3.02 AWARD OF CONTRACT – The award of the Contract, if it is awarded, will be to the lowest responsible bidder whose Proposal complies with the requirements prescribed and who is appropriately licensed in accordance with law. Such award, if made, will be made within 30 days after the opening of the Proposals or as specified in the Proposal or Special Provisions. If the lowest responsible bidder refuses or fails to execute the Contract, the City may award the Contract to the second lowest responsible bidder. Such award, if made, will be made within 45 days after the opening of the Proposals. If the second lowest responsible bidder refuses or fails to execute the Contract, the City may award the Contract to the third lowest responsible bidder. Such award, if made, will be made within 60 days after the opening of the Proposals. The periods of time specified above within which the award of contract may be made shall be subject to extension for such further period as may be agreed upon in writing between the City and the bidder concerned.

All proposals will be compared on the basis of the City’s estimate of the quantities of work to be done.

3.03 RETURN OF PROPOSAL GUARANTEES – Within ten days after the award of the Contract to the lowest responsible bidder, the City will return the proposal guarantees, other than bidder’s bonds, accompanying such of the Proposals as are not to be further considered in making the award. Retained proposal guarantees will be held until the contract has been finally executed after which all proposal guarantees, except bidder’s bonds and any guarantees which have been forfeited, will be returned to the bidders whose Proposals they accompany.

3.04 CONTRACT BONDS – Prior to the execution of the Contract, the Contractor shall file with the City one or more surety bonds in the amounts and for the purpose noted below, duly executed by a solvent surety company satisfactory to the City, and (s)he shall pay all premiums and costs thereof and incidental thereto. The bonds shall contain a provision that the surety thereon waives the provisions of Section 2819 of the Civil Code of the State of California. Contractor and Surety shall warrant to the City that the Surety is licensed by the California Secretary of State to conduct business in the State of California and Surety shall provide proof of its authorization to conduct business in the State of California.

Each bond must be signed by both the Contractor and the Sureties.

The “**Bond for Labor and Material**” shall be in an amount of 100 percent of the contract price as determined from the prices in the Proposal form, and shall inure to the benefit of persons performing labor or furnishings materials in connection with the work of the proposed contract. This bond shall be maintained in full force and effect until all work under the Contract is completed and accepted by the City, and until all claims for materials and labor have been paid.

The “**Bond for Faithful Performance**” shall be in an amount of 100 percent of the contract price as determined from the prices in the Proposal form, and shall be so conditioned as to insure the faithful

performance by the Contractor of all work under the Contract. It shall also insure the replacing of, or making acceptable, any defective materials or faulty work.

The Bond for Faithful Performance shall remain in effect to guarantee the repair and replacement of defective equipment, materials and work, discovered within one (1) year, after final payment has been accepted by the Contractor and the payment to the City of all damages sustained by it on account of such defects, discovered within one (1) year, or in lieu thereof, a bond equal to ten (10) percent of the full amount of the contract, may be substituted for the faithful performance bond upon completion and final acceptance and final payment for the work performed under the contract, which shall remain in effect for a period of one (1) year to guarantee the repair and replacement and payment of damage. In all respects, the substitute bond shall satisfy the requirements and conditions of the original Faithful Performance Bond.

Should any surety or sureties be deemed unsatisfactory at any time by the City, notice will be given the Contractor to that effect, and s(he) shall forthwith substitute a new surety or sureties satisfactory to the City. No further payment shall be deemed due or will be made under this Contract until the new sureties shall qualify and be accepted by the City.

All alterations, extensions of time, extra and additional work, and other changes authorized by these Specifications or any part of the Contract may be made without securing the consent of the surety or sureties on the contract bonds.

3.05 EXECUTION OF CONTRACT – The Contract shall be signed by the successful bidder and returned, together with the contract bonds, within twenty days, not including Sundays and legal holidays, after the bidder has received the Contract for execution or as specified in the proposal or Special Provisions.

3.06 FAILURE TO EXECUTE CONTRACT – Failure of the lowest responsible bidder, the second lowest responsible bidder, or the third lowest responsible bidder to execute the Contract and file acceptable bonds as provided herein within twenty days or as specified in the Proposal form or Special Provisions, not including Sundays and legal holidays, after such bidder has received the Contract for execution shall be just cause for the annulment of the award and forfeiture of the proposed guarantee.

3.07 CONTRACTOR'S INSURANCE

3.07.01 General - Without limiting the responsibility of the Contractor for damages as set forth in Article 7.18, the Contractor must obtain all insurance required under this Article, in a form approved by the City, and Contractor must not allow any Subcontractor to commence work on any Subcontract until all insurance required of Contractor has been likewise obtained by the Subcontractor, and such insurance is approved by the City. Approval of the insurance by City shall not relieve or decrease the liability of Contractor hereunder. Contractor shall procure and maintain for the duration of the Contract, and at least 5 years thereafter, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

3.07.02 Minimum Scope and Limit of Insurance - Without limiting any of the other obligations or liability of Contractor, Contractor shall provide and maintain, until the work is completed and accepted by the City, the following minimum insurance coverages, unless otherwise specified in the particular specifications.

- a. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit. Such CGL shall include, or be endorsed to include, the following:
 - i. Cross Liability Coverage
 - ii. Blanket Contractual Liability Coverage
 - iii. Contractor's Protective Liability Coverage
 - iv. Products and Completed Operations Coverage
 - v. Broad Form Property Damage Coverage
 - vi. Explosion, Collapse and Underground Property Damage Liability Coverage

- b. **Workers’ Compensation Insurance** as required by the State of California, with Statutory Limits. 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.

- c. **Employers’ Liability Insurance** with a limit of no less than \$1,000,000 per accident for bodily injury or disease.

- d. **Automobile Liability Insurance** coverage all automobiles, trucks, tractors, trailers, motorcycles, or other automotive equipment, whether owned or rented by Contractor or owned by employees of Contractor. Such insurance shall be on Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), with limits no less than \$1,000,000 per accident for bodily injury and property damage.

- e. **Professional Liability** (Error’s & Omissions), with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

- f. **Contractors Pollution Legal Liability and/or Asbestos Legal Liability** with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

3.07.03

Insurance Provisions - The insurance provided by the above insurance policies shall name as additional insured the City of Capitola, its officer, agents, and employees and shall be primary insurance to the full limits of liability stated above to said additional insured. If said additional insured have other insurance against the loss covered by said policy, that other insurance shall be excess insurance only. The comprehensive general liability policy shall be endorsed to provide insurance to said additional insured with respect to omissions and supervisory acts or omissions, including passive negligence with respect to said work, and shall not be subject to reduction or cancellation without thirty (30) days prior written notice to the City of Capitola.

In the event the work called for in this contract is to be performed as a joint project with the State of California, or a County, or any City within a County, or other agency, or is to be performed on lands under the jurisdiction of the State of California, or a County, or

any City within a County, the policy of insurance required by paragraph 3.07.02, entitled “Minimum Scope and Limit of Insurance” shall name the State of California, that County, and/or that City or other agency additional insured in addition to naming City and the statement contained in paragraph 3.07.03, entitled, “Insurance Provisions,” shall be modified accordingly.

SECTION 4 **SCOPE OF WORK**

4.01 WORK TO BE DONE – The work to be done consists of furnishing all labor, methods or processes, implements, tools, machinery, construction equipment, materials of any kind, and installed manufactured equipment, except as otherwise specified herein to be furnished by the City or from sources provided by the City, which are required to construct in a good and professional manner all the work herein provided for.

4.02 MAINTENANCE AND CLEAN-UP – Throughout the construction period, the Contractor shall keep the site of the work in a neat and clean condition, shall dispose of any surplus materials in an approved manner off the site, keep debris out of drainage ditches, and maintain proper housekeeping practices to the satisfaction of the Director.

When any material is to be disposed of outside of the easement or street or highway right-of-way, the Contractor shall first obtain written permission from the owner on whose property the disposal is to be made. Disposal must conform to grading ordinances of the jurisdiction in which the work is performed.

Upon completion of the work, and prior to requesting final inspection, the Contractor shall thoroughly clean the site of the work of all rubbish, excess materials, falsework, temporary structures, and equipment, and all portions of the work shall be left in a neat and orderly condition. The final inspection, acceptance, and final payment will not be made until this has been accomplished.

4.03 CHANGES & CHANGE ORDERS – The City may increase or decrease quantities of work to be done under the Contract, make revisions to the Drawings or Specifications, or require the performance of extra work and furnishing of materials therefor by the Contractor as the City requires for the proper completion or construction of the whole work contemplated. The City, at its option, may furnish said materials.

When alterations in quantities of work for which unit prices are shown in the proposal are ordered and performed, the adjustment in the contract amount shall be determined on the basis of such unit prices for the actual quantities of work done. Adjustments, if any, in the amount to be paid the Contractor by reason of any other modifications of the work as set forth in a contract change order, shall be determined by one or more of the following methods:

- a. **Lump Sum Price.** By an acceptable lump-sum proposal from the Contractor. Said proposal shall be based on a cost estimate as to materials, equipment, and labor, to which total may be added a maximum of 15 percent for overhead, profit, and all other expenses; this 15 percent limitation shall apply for work done directly by the Contractor's organization or by his/her subcontractors, and shall be added only once.
- b. **Unit Prices.** By unit prices fixed by agreement between the City and the Contractor.
- c. **Force Account.** By ordering the Contractor to proceed with the work and to keep and present in such form as the Director may order, a correct account of the cost of the change, together with all vouchers therefor.

The changes will be set forth in written Contract Change Orders which specify the work to be done in connection with the changes, the basis of compensation for the work, and any adjustments of contract time. Such Change Orders shall be approved by the Director.

Upon receipt of an approved Contract Change Order, or of a written authorization from the Director setting forth a description of the change and agreed upon changes in contract price, the Contractor shall proceed with the work so ordered. The Contractor may request the issuance of Change Orders. In the absence of an approved Contract Change Order or written authorization, the Contractor shall not be entitled to payment for any changed or extra work or any adjustment of Contract time.

When the changes increase or decrease the cost of the work, an adjustment of the Contract price will be made as set forth in the Change Order. At the option of the City, the work which is changed may be paid for on the basis of force account.

New and unforeseen items of work will be classed as extra work when the item cannot be covered by any of the various items or combination of items for which there is a bid price. The Contractor shall do such work and furnish such materials and equipment as may be required in writing by Director, but shall do no extra work except upon written order from the Director, and in the absence of such written order, (s)he shall not be entitled to payment for such extra work. All bills for extra work done in any month shall be filed in writing with the Director before the fifteenth of the following month. For such extra work, the Contractor shall receive compensation at the prices previously agreed upon in writing, or upon a failure to agree upon prices, (s)he shall be paid on force account.

If the work is done on force account, compensation shall be in accordance with Article 9.04 of these Specifications. The City reserves the right to furnish any material deemed expedient and the Contractor shall have no claim for profit on the cost of such materials. All Contractors shall have no claim for profit on the cost of such materials. All extra work shall be adjusted daily upon report sheets furnished to the Director by the Contractor and signed by both parties, which daily reports shall thereafter be considered the true record of extra work done.

4.04 PROTESTS – If the Contractor considers any work demanded of him/her to be outside of the requirements of the Contract, or considers any record or ruling or act or omissions of the Director to be unfair, s/he shall immediately, upon such work being demanded, or such record or ruling being made, ask in writing for written instructions or decision, whereupon (s)he shall proceed without delay to perform the work or to conform to the record or ruling, within 30 days after the date of receipt of the written instruction or decision, (s)he shall file a written protest with the Director stating clearly and in detail the basis of his/her protest. Except for such protests as are made of record in the manner herein specified and within the time limit stated, the records, rulings, instructions, decisions, and acts or omissions of the Director shall be final and conclusive. Instructions and decisions of the Director contained in letters transmitting Drawings to the Contractor shall be considered as written instructions and decisions subject to protest in the manner herein described.

4.05 DUST CONTROL – During the performance of all work under this contract, the Contractor shall assume all responsibility for dust control and shall furnish all labor, equipment, and means required to carry out proper and efficient measures wherever and whenever dust control is necessary to prevent the operations from producing dust damage and nuisance to persons and property. Any claims resulting therefrom shall be borne solely by the Contractor.

Full payment for dust control shall be included in the unit price bid for other items of work and no additional allowance or direct payment will be made therefor.

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SECTION 5 **CONTROL OF WORK**

5.01 AUTHORITY OF DIRECTOR – The Director shall decide all questions which may arise as to the quality or acceptability of materials furnished and work performed and as to the manner of performance and rate or progress of the work; all questions which may arise as to the interpretation of the Drawings and Specifications; and all questions as to the acceptable fulfillment of the Contract on the part of the Contractor. His/her decision shall be final and s/he shall have authority to enforce and make effective such decision and orders which the Contractor fails to carry out promptly.

5.02 DRAWINGS TO BE FURNISHED BY THE CONTRACTOR – The Drawings listed in the Specifications shall be supplemented by the Contractor with such working drawings as may be required for the prosecution of the work and approval of equipment. Such data may include shop detail drawings, reinforcing steel details, fabrication drawings, falsework and formwork drawings, pipe layouts and similar classes of drawings, which shall be favorably reviewed by the Director before any work involving these drawings is performed. No change shall be made by the Contractor in any working drawing after it has been favorably reviewed by the Director. Drawings shall contain all required detailed information of reasonable scale with enough views to clearly show the work to be done or the item to be furnished and shall be properly checked.

Working drawings will be subject to approval insofar as the details affect the character of the finished work, but details of design will be left to the Contractor who shall be responsible for successful construction of the work and operation of the equipment.

It is expressly understood, however, that approval of the Contractor's working drawing shall not relieve the Contractor of any responsibility for accuracy of dimensions and details, or for mutual agreement of dimensions and details. It is mutually agreed, that the Contractor shall be responsible for agreement and conformity of his/her working Drawings and Specifications.

The sequence of submission of working drawings shall be such that all information is available to the Director for review of each drawing as it is received. A minimum of five prints of each working drawing shall be submitted. Three prints will be retained and the balance returned within 20 calendar days with the Director's action indicated thereon. The Contractor shall make any necessary corrections and revisions to returned Drawings and shall resubmit the Drawings in the same routine as before within 20 calendar days after receipt.

Responsibility will be upon the Contractor to furnish Drawings in sufficient time for approval action including resubmittal, without delaying construction.

The cost of furnishing all working Drawings shall be included in the Contract prices for work to which the Drawings are appurtenant.

5.03 DRAWINGS AND DATA TO BE FURNISHED BY THE CITY – The City may issue supplemental Drawings for the construction work under the Contract. These drawings will show additional details as required for construction purposes. Installation instructions for City furnished materials will be furnished if required.

5.04 CONFORMITY WITH DRAWINGS AND ALLOWABLE DEVIATIONS – Finished work in all cases shall conform with the lines, grades, cross sections, and dimensions shown on the approved

Drawings furnished by the City. Deviations from the drawings as may be required by the exigencies of construction will be determined by the Director.

5.05 MAINTENANCE & OPERATION MANUALS – For use in the subsequent operation, the Contractor shall furnish two copies of maintenance and operation instructions supplied by the manufacturer for all equipment items. They shall be bound and suitably indexed in heavy, loose leaf binders.

5.06 SUPERINTENDENCE – The Contractor shall designate in writing before starting work, an authorized representative who shall have complete authority to represent and act for the Contractor. Where the Contractor is comprised of two or more persons, partnerships or corporations, functioning on a joint venture basis, said Contractor shall designate in writing to the Director the name of their authorized representative who shall have full authority to direct the work and to whom orders will be given by the Director, to be received and obeyed by the Contractor. Said authorized representative of the Contractor shall normally be present at the site of the work at all time while work is suspended, arrangements acceptable to the Director shall be made for any emergency work which may be required.

Whenever the Contractor or his/her authorized representative is not present on any part of the work where it may be desired to give direction, orders will be given by the Director, which shall be received and obeyed by the Superintendent or foreman or authorized representative who may have charge of the particular work in reference to which the orders are given. Any order given by the Director, which shall be received and obeyed by the Superintendent or foreman or authorized representative who may have charge of the particular work in reference to which the orders are given. Any order given by the director, not otherwise required by the Specifications to be in writing, will, on request of the Contractor, be given or confirmed by the Director in writing.

5.07 LAYOUT OF WORK AND SURVEYS – The work performed in connection with “Survey Monumentation” shall conform to the requirements of the County Surveyor of the County of Santa Cruz, and shall consist of locating, referencing, resetting existing survey monuments to finish grade, and in conformance with these special provisions.

Attention is also directed to Section 8771 of the California Business and Professions Code for the requirements concerning survey monumentation. Existing survey monuments shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer prior to construction operations, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Cruz. Existing survey monuments shall be reset to finish grade, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Cruz prior to the recording of the certificate of completion for the project.

5.08 INSPECTION – The Director and his/her representatives shall at all times have access to the work during its construction, and shall be furnished with every reasonable facility for ascertaining that the materials and the work are in accordance with the requirements and intentions of the Drawings and Specifications. All work done and all materials furnished shall be subject to his inspection and approval.

The right of general supervision shall not make the Contractor an agent of the City and the liability of the Contractor for all damages to persons or to public or private property arising from the execution of the work shall not be lessened because of such general supervision.

The day-to-day inspection performed by the various inspectors employed by the City shall not constitute approval or ratification of work improperly done by the Contractor. The Director is the only person authorized to recommend acceptance or rejection of work and materials.

The presence or absence of an inspector during performance of the work shall not relieve the Contractor of any of his/her obligations to fulfill his/her Contract as prescribed. It shall be the duty of the Contractor to see that the provisions of these Specifications are complied with in detail, irrespective of the inspection given the work during its progress by the Director or his representatives. Any plan or method suggested to the Contractor by the Director or an inspector, but not specified or required, if adopted or followed in whole or in part, shall be used at the risk and responsibility of the Contractor; and the City and the Director will assume no responsibility therefor.

Defective work shall be made good, and unsuitable materials may be rejected notwithstanding that such defective work or unsuitable materials have been previously inspected by the Director or that payment therefor has been included in the progress estimate.

Projects financed in whole or part with Federal or State funds shall be subject to inspection at all times by the Federal or State Agency involved.

5.09 REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORKS – All work which has been rejected shall be remedied, or removed and replaced by the Contractor in an acceptable manner at no additional cost to the City. Any work done beyond the lines and grades shown on the Drawings or established by the City, or any extra work done without written authority, will be considered as unauthorized and will not be paid for. Work so done may be ordered, remedied, removed, or replaced, in the City's sole discretion.

If the Contractor should fail to comply promptly with any order of the Director made under the provisions of this Article, the Director may cause rejected or unauthorized work to be remedied, removed, or replaced, and the costs thereof to be deducted from any monies due or to become due the Contractor.

If any portion of the work done or materials furnished under the contract shall prove defective or not in accordance with the specifications and contract drawings, and if the imperfection in the same shall not be of sufficient magnitude or importance to make the work dangerous or undesirable, the Director shall have the right and authority to retain the work instead of requiring it to be removed and reconstructed, but s/he shall make such deductions therefore in the payment due or to become due the Contractor as may be just and reasonable.

5.10 CONSTRUCTION EQUIPMENT AND PLANTS – Only equipment and plants suited to produce the quality of work required will be permitted to operate on the work. Plants shall be designed and constructed in accordance with general practice for such equipment and shall be designed and constructed in accordance with general practice for such equipment and shall be of sufficient capacity and of such character to ensure the production of sufficient material to carry the work to completion within the time limit.

The Contractor shall provide adequate and suitable equipment and plants to meet the above requirements; and, when ordered by the Director, shall remove unsuitable equipment from the work and discontinue the operation of unsatisfactory plant.

Each machine or unit of equipment shall be operated by a person experienced in handling the particular make of machine or unit of equipment in use, and shall not be operated at a speed or rate of production in excess of that recommended by the manufacturer.

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The Contractor shall identify each piece of equipment, other than hand tools, by means of an identifying number plainly stenciled or stamped on the equipment at a conspicuous location. In addition, the make, model number and empty gross weight of each unit of compacting equipment shall be plainly stamped or stenciled in a conspicuous place on the unit. The gross weight shall be either the manufacturer's rated weight or the scale weight.

5.11 ALTERNATIVE CONSTRUCTION EQUIPMENT – While certain of these Specifications may provide that equipment of a particular size and type is to be used to perform portions of the work, it is to be understood that the development and use of new or improved equipment is to be encouraged.

The Contractor may request, in writing, permission from the Director to use equipment of a different size or type in place of the equipment specified.

The Director, before considering or granting such request, may require the Contractor to furnish, at their expense, evidence satisfactory to the Director that the equipment proposed for use by the Contractor is capable of producing work equal to, or better than, that which can be produced by the equipment specified.

If such permission is granted by the Director, it shall be understood that such permission is granted for the purpose of testing the quality of work actually produced by such equipment and is subject to continuous attainment of results which, in the opinion of the Director, are equal to, or better than that which can be obtained with the equipment specified. The Director shall have the right to withdraw such permission at any time the Director determines that the alternative equipment is not producing work that is equal, in all respects, to that which can be produced by the equipment specified. Upon withdrawal of such permission by the Director, the Contractor will be required to use the equipment originally specified and shall, in accordance with the direction of the Director, remove and dispose of or otherwise remedy, at his/her expense, any defective or unsatisfactory work produced with the alternative equipment.

Neither the City nor the Contractor shall have any claim against the other for either the withholding or the granting of permission to use alternative equipment, or for the withdrawal of such permission.

Permission to use alternative equipment in place of equipment specified will only be granted where such equipment is new or improved and its use is deemed by the Director to be in furtherance of the purposes of this Article. The approval for use of particular equipment on any project shall in no way be considered as an approval of the use of such equipment on any other project.

Nothing in this Article shall relieve the Contractor of his/her responsibility for furnishing materials or producing finished work of the quality specified in these Specifications.

5.12 USE OF COMPLETED PORTIONS – The City shall have the right at any time during the progress of the work, to take over and place in service any completed or partially completed portions of the work, notwithstanding the fact that time for completion of the entire work or such portions may not have expired; but such taking possessions thereof shall not be deemed an acceptance of any other portions of the work, nor work on those portions not completed in accordance with the contract documents.

5.13 LEGAL ADDRESS OF THE CONTRACTOR – Both the address given in the proposal and Contractor's office in the vicinity of the work are hereby designated as places to either of which drawings, letters, notices, or other articles of communication to the Contractor may be mailed or delivered. The mailing or delivery at either of these places shall be deemed sufficient notice thereof upon the Contractor. Nothing herein contained shall be deemed to preclude the service of any drawing,

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letter, notice, article or communication to or upon the Contractor or his/her representative personally. The address named in the proposal may be changed at any time by written notice, from the Contractor to the City.

5.14 FINAL INSPECTION – When the work authorized by the Contract has been completed, the Director will make the final inspection.

5.15 ACCEPTANCE OF CONTRACT – When the Director has made the final inspection in accordance with these Specifications and determines that the Contract has been completed in all respects in accordance with the Drawings and Specifications, the Director will recommend that the City Council formally accept the Work of Improvement.

5.16 COORDINATION OF SPECIFICATIONS AND DRAWINGS – The Standard Provisions, Technical Provisions, Special Provisions, Drawings, Contract Change Orders, and all supplementary documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of conflict, the following shall be the rules of interpretation:

Drawings shall govern over the Standard Provisions; the Technical Provisions shall govern over both the Standard Provisions and the Drawings; the Special Provisions shall govern over the Technical Provisions, the Standard Provisions and the Drawings.

Detail Drawings shall govern over general Drawings. Figures written on Drawings shall govern over the drawings themselves.

5.17 INTERPRETATION OF SPECIFICATIONS AND DRAWINGS – The work herein provided for is to be done in accordance with the Specifications and Drawings on file in the Department of Public Works. All corrections of readily apparent errors or omissions in Specifications or Drawings may be made by the Director when such corrections are necessary for the proper fulfillment of their intention as construed by him/her. The misplacement, addition or omission of any work, letter, figure or punctuation mark which has no substantive legal effect will in no way change the due spirit, intent, or meaning of these Specifications.

Any part of the work which is not mentioned in these Specifications but is shown on the Drawings, or any part of the work not shown on the Drawings but described in these Specifications, or any part not shown on the Drawings or described in these Specifications but which is reasonably or ordinarily implied by either, shall be furnished and installed by the Contractor as if fully described in these Specifications and shown upon the Drawings.

Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Specifications or on the Drawings, or if the Contractor discovers any discrepancies during the course of the work between the Contract Drawings and conditions in the field, or any errors or omissions in the Contract Drawings, the Specifications, or in the layout given by stakes, points, or instructions, the bidder or Contractor shall apply in writing to the Director for such further explanations as may be necessary and shall conform to them as part of the Contract. In the event of any doubt or questions arising respecting the true meaning of the Specifications or Drawings, reference shall be made in writing to the Director, whose decision thereon shall be final. Any work done after such discovery until authorized by the Director, will be done at the Contractor's risk.

5.18 STATE SPECIFICATIONS – Where specifically required and referenced, the work set forth in these Specifications shall be accomplished in accordance with appropriate provisions of the State **Part 2 | Standard Provisions**

Specifications with most recent revisions insofar as they apply. Said Specifications are herein referred to as the “State Specifications” and are, by reference, made a part of these Specifications the same as though as set out in full. In the event of conflict between the State Specifications and the Standard, Special, or Technical Provisions of the City’s Special Project Specifications or the Drawings, the City’s Special Project Specifications and Drawings shall apply.

5.19 REASONABLENESS OF INTERPRETATIONS – All interpretations of these Specifications and the Drawings by the City and decisions made thereon by the Director will not be arbitrary, capricious, or unreasonable.

5.20 POTENTIAL CLAIMS AND DISPUTE RESOLUTION – No claims for extra work, materials, labor, equipment, or costs shall be considered or permitted if Contractor fails to timely notify the City of the claim and thereafter diligently pursue and exhaust all the administrative remedies and processes set forth in the Contract Documents and State Specifications, including but not limited to Change Orders, Differing Site Conditions, Initial Potential Claim Records, Supplemental Potential Claim Records, and Full and Final Potential Claims Records. Contractor must exhaust all such processes in order to preserve and pursue any claim, and failure to do so shall be deemed a waiver of the claim.

- A. In accordance with California Public Contract Code Section 20104.2, presuming Contractor has diligently pursued and exhausted the administrative procedures of the Contract, the following procedures apply to claims of \$375,000 or less between the Contractor and the City:
 - 1. The claim shall 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 shall 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.
 - i. If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the City and the Contractor.
 - ii. The City’s written response to the claim, as further documented, shall 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.
 - 3. 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 shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the City may have against the Contractor.

- i. If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the City and the Contractor.
 - ii. The City's written response to the claim, as further documented, shall 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.
 4. 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 shall schedule a meet and confer conference within 30 days for settlement of the dispute.
 5. Following the meet and confer conference, if the claim or any portion remains in dispute, the Contractor shall file a claim for money or damages 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, prior to filing a civil action to resolve the disputed claim. For purposes of those provisions, the running of the period of time within which a claim must be filed shall 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.
 6. This article does not apply to tort claims and nothing in this article is intended nor shall 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 shall submit the matter to non-binding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, shall be commenced within 30 days of the submittal, and shall 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 shall 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) shall apply to any proceeding brought under this subdivision consistent with the rules pertaining to judicial arbitration.
 - i. Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article shall be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators shall be paid necessary and reasonable hourly rates of pay not to exceed their customary rate, and such fees and expenses shall 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 shall these fees or expenses be paid by state or county funds.
 - ii. 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 shall, 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.
 3. 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 shall 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 shall pay interest at the legal rate on any arbitration award or judgment. Such interest shall accrue from date the suit was filed.
- D. Claim for money or damages required. For any all claim not covered the procedures set forth in Article 5.20, Contractor shall file a claim for money or damages 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, prior to filing a civil action to resolve the claim. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the Contractor submits his or her written claim pursuant to subdivision (a) until the time that claim is denied by the City, including any period of time utilized by the meet and confer process.

SECTION 6
CONTROL OF MATERIALS AND INSTALLED EQUIPMENT

6.01 FURNISHING AND QUALITY OF MATERIALS & EQUIPMENT – The Contractor shall furnish all materials and equipment required to complete the work, except materials or equipment that are designated in the Special Provisions to be furnished by the City or materials furnished by the City in accordance with Article 4.03.

Notwithstanding any prior inspection or approval, only materials and equipment conforming to the requirements of the Specifications shall be incorporated in the work.

The materials and equipment furnished and used shall be new and unused and of the highest commercial quality currently available. The materials and equipment shall be manufactured, handled, and used in a workmanlike manner to ensure completed work in accordance with the Drawings and Specifications.

The Contractor shall be required to furnish a written guaranty covering certain items of material and equipment for varying periods of time from the date of acceptance of the Work of Improvement. The material and equipment to be guaranteed, the form of guaranty, and the time limit of the guaranty are as specified in Article 9.09. Said guaranty shall be signed and delivered to the Director before Acceptance of the Project. Upon completion of the Work of Improvement, the amounts of the Contract bonds required in Article 3.04 may be reduced to conform to the total amount of the Contract bid prices for the items to be guaranteed and this amount shall continue in full force and effect for the duration of the guaranty period.

6.02 SOURCE OF MATERIAL AND EQUIPMENT SUBMITTALS - The Contractor shall furnish a list of his/her sources of materials and equipment to the Director. The list shall be furnished on a City form and shall be furnished to the Director in sufficient time to permit proper inspection and testing of materials and equipment to be furnished from such listed sources in advance of their use. The Contractor shall furnish without charge such samples as may be required. Inspection and tests will be made and reports rendered, but it is understood that such inspection and tests shall not be considered as a guarantee of acceptance of any material or equipment which may be delivered later for incorporation in the work. No equipment or materials which, after approval, have in any way become unfit for use, shall be used in the work.

The Contractor shall submit five copies of approval data for the materials, and equipment proposed for installation. The data shall be submitted in the same routine as prescribed for working drawings in Article 5.02. Approval data shall consist of complete material and equipment lists accompanied by catalog data sheets, cuts, performance curves, diagrams or similar descriptive material. Material and equipment lists shall give, in each case, the name of the manufacturer, trade name, catalog reference, size, finish, and all other pertinent data. It is intended that approval data should not include such materials as small pipe and small pipe fittings, conduit and conduit fittings, or tubing. Data submitted as specified herein for each major subdivision of mechanical and electrical work shall be bound together under a hard cover, provided with a complete index, and properly identified on the cover. Individual sheets shall be easily removable without tearing or other damage. The Contractor shall furnish operation and maintenance manuals or instructions if required by the Technical Provisions.

At the option of the Director, the source of supply of each of the materials shall be approved by him/her before the delivery is started. All materials proposed for use may be inspected or tested at any time

during their preparation and use. After trial, if it is found that sources of supply which appeared satisfactory do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Contractor shall furnish approved material from other sources.

6.03 STORAGE OF MATERIALS AND EQUIPMENT - Materials and equipment shall be so stored as to ensure the preservation of their quality and fitness for the work. They shall be placed under cover when directed and shall be sorted in a manner that will facilitate prompt inspection. Unless specifically authorized by the Director, no materials shall be stored overnight upon any public right of way within the City.

6.04 DEFECTIVE MATERIALS - All materials not conforming to the requirements of the Specifications and Drawings shall be considered as defective and all such materials shall be rejected, whether in place or not. They shall be removed immediately from the site of the work, unless otherwise permitted by the Director. No rejected material, the defects of which have been subsequently corrected, shall be used unless approval in writing has been given by the Director. If the Contractor should fail to comply promptly with any order of the Director made under the provisions of this Article, the Director may cause defective materials to be removed and replaced, and the costs thereof to be deducted from any monies due or to become due the Contractor.

6.05 TRADE NAMES AND ALTERNATIVES - For convenience in designation on the Drawings or in the Specifications, certain equipment or materials to be incorporated in the work may be designated under a trade name or the name of a manufacturer and his/her catalog information. The use of alternative equipment or material which is of equal quality and of the required characteristics for the purpose intended will be permitted, subject to the following requirements:

The burden of proof as the comparative quality and suitability of alternative equipment or materials shall be upon the Contractor and s/he shall furnish, at their own expense, six copies of complete description, information and performance data showing the quality of the materials or equipment offered to those specified, and such other necessary or related information as may be required by the Director. The Director will be the sole judge as to the comparative quality and suitability of alternative equipment or materials and this decision shall be final. The Contractor, pursuant to Public Contract Code, Section 3400 et seq., shall have at least 35 days after award of the Contract for submission of data substantiating a request for a substitution of "or equal" item.

6.06 TESTING MATERIALS - Unless otherwise specified in the Special Provisions or Technical Provisions called for on the drawings, all tests of materials and work, for determining compliance with requirement, shall be performed in accordance with the methods in use by the laboratory of the State Department of Transportation or by nationally recognized testing organizations, at a laboratory approved by the Director.

Whenever a reference is made to a specification or test method either of the American Society of Testing Materials, the American Water Works Association, or any other authority, and the number accompanying the specification or test method representing the year of its acceptance is omitted, the reference shall mean the specification or test method in effect on the date of the Notice to Contractors.

Whenever a specification or test method of the American Society for Testing Materials, the American Water Works Association, or any other authority, includes a test procedure or test requirements, the Contractor shall submit two copies of certified test results, unless the requirement therefore is waived. No material will be accepted until these data have been passed upon by the Director and accepted.

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Samples of all materials entering into the work shall be furnished by the Contractor without charge, when requested by the Director.

Materials may be tested at any time during progress of the work.

6.07 PLANT INSPECTION - Materials and equipment which become a part of the completed work will be subject to inspection at the place of production or manufacture, at the shipping point, or at the site of the work. Materials and equipment requiring inspection at the place of production or manufacture will be designated by the Director. Where plant inspection is so designated, the Director shall be given 14 days advance notice of the start of manufacture or production. The Contractor's purchase orders for materials and equipment for which plant inspection has been designated by the Director shall bear a suitable notation advising suppliers and subcontractors of inspection requirements.

The Director or an authorized representative shall have free entry at all times to such parts of the plant as concerns the manufacture or production of materials and equipment for the City. Adequate facilities shall be furnished free of charge to make the necessary inspection.

The City assumes no obligation to inspect material or equipment at the place of manufacture or production, or at the shipping point.

6.08 CITY FURNISHED MATERIALS - Materials furnished by the City will be available at locations designated in the Special Provisions. They shall be loaded, unloaded and hauled to the site of the work by the Contractor at his\her expense. The Contractor shall be held responsible for all materials furnished to him\her, and s\he shall pay all demurrage and storage charges. The cost of handling and placing City furnished material shall be considered as included in the price paid for the Contract item involving such City furnished material.

SECTION 7
LEGAL RELATIONS AND RESPONSIBILITY

7.01 LAWS TO BE OBSERVED – The Contractor shall remain fully informed of all existing and future State and Federal laws and County and Municipal ordinances and regulations which in any manner affect those engaged or employed in the work, or the materials used in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. S\he shall at all times observe and comply with, and shall cause all his/her agents and employees to observe and comply with, all such applicable exiting and future laws, ordinances, regulations, orders and decrees of bodies or tribunals having any jurisdiction of authority over the work; and shall protect and indemnify the City, the City Council, the Director and Consulting Engineer, and all of its and their officers and agents and servants against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by him or herself or his/her employees. If any discrepancy or inconsistency is discovered in the Drawings, Specifications, or Contract for the work in relation to any such law, ordinance, regulation order, or decree, the Contractor shall forthwith report the same to the Director in writing.

7.02 LABOR DISCRIMINATION – Attention is directed to the following sections of the Labor Code:

1735. No discrimination shall be made in the employment of persons upon Public Works because of race, color, national origin or ancestry, or religion of such persons and every Contractor for Public Works violating this section is subject to all the penalties imposed for a violation of this chapter.

1420. It shall be unlawful employment practice, unless based upon a bonafide occupational qualification, or except where based upon applicable security regulations established by the United States or the States or the State of California:

(a) For an employer, because of the race, religious creed, color, national origin, or ancestry of any person, to refuse to hire or employ him/her or to bar or to discharge from employment such person, or to discriminate against such person in compensation or in terms, conditions or privileges of employment.

Contractor agrees to abide by all of the foregoing statutes, regulations, ordinances and resolutions.

7.03 REMOVED.

7.04 PREVAILING WAGES, APPRENTICESHIP, PAYROLL RECORDS – 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 shall be made available on request. The Contractor shall cause a copy of these wage rates to be posted at each job site. The Contractor and subcontractors engaged in the performance of the Work shall pay no less than these rates to all persons engaged in performance of the Work. These rates are set forth in the Notice to Contractors and excludes contracts for projects of \$25,000 or less for construction work, or projects of \$15,000 or less for alteration, demolition, repair, or maintenance work.

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

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compliance with California Labor Code Section 1777.5 governing employment and payment of apprentices on public works contracts.

In accordance with California Labor Code Section 1775, the Contractor and any Subcontractors engaged in performance of the Work shall forfeit a penalty of up to \$200 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 shall be determined by the Labor Commissioner. The Contractor or subcontractor shall 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.

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. Contractor and their subcontractors shall furnish the payroll records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.

The work of installing, assembling, repairing or reconditioning, or other work of any nature on machinery, equipment, or tools used in or upon the work shall be considered a part of the work to be performed under the Contract any laborers, workers, or mechanics working on such machinery, equipment, or too

The construction, erection, and operation of material production, proportioning, or mixing plants from which material is used wholly on the Contract or on contracts under the supervision of the City, shall be considered a part of the work to be performed under the Contract and any laborers, workers, or mechanics working on such plants shall be subject to all of the requirements relating to labor set forth in the Contract.

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.

7.05 HOURS OF LABOR – Eight hours labor constitutes a legal day's work. The Contractor shall forfeit as a penalty to the City up to \$25 for each worker employed in the execution of the Contract by the Contractor or by any subcontractor for each day during which such worker is required or permitted to labor more than eight hours in any one calendar day and 40 hours in any one calendar week in violation of Labor Code Sections 1810 to 1815, inclusive, except as provided for under Labor Code Section 1815.

7.06 APPRENTICES – The Contractor's attention is directed to the provisions of 1770 *et seq.* of the Labor Code concerning the employment of apprentices by the Contractor or any Subcontractor under him/her.

Section 1777.5, as amended, requires the Contractor or subcontractor employing tradespersons in any apprenticeship occupation to apply to the joint apprenticeship committee nearest the site of the Public Works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used on the performance of the Contract. The ratio of apprentices to journeymen in such cases shall not be less than one to five except:

- A. When unemployment in the area of coverage by the Joint Apprenticeship committee has exceeded an average of 15 percent in the 3 months prior to the request for certificate,
- B. When the number of apprentices in training in the area exceeds a ratio of one to five,
- C. When the trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis statewide or locally, or
- D. When assignment of an apprentice to any work performed under a public works contract would create a condition that would jeopardize his or her life or the life, safety, or property of fellow employees or the public at large, or the specific task to which the apprentice is to be assigned is of a nature that training cannot be provided by a journeyman.

The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if (s)he employs registered apprentices or journeymen in any apprenticeship trade on such contracts and if other Contractors on the Public Works site are making such contributions.

The Contractor and any subcontractor under him/her shall comply with the requirements of Sections 1777.5 and 1777.6 in the employment of apprentices.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, ex-officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship standards and its branch offices.

7.07 PERMITS AND LICENSES – The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the work. The Contractor shall note and comply all permit conditions provided in the Special Provisions or Technical Provisions, if any.

7.08 PATENTS AND COPYRIGHTS – The Contractor shall assume all costs arising from the use of, and shall indemnify, defend, hold harmless, and save the City and the Council, its officers, agents, and employees, harmless from liability of any nature and kind, including costs and expenses, for or on account of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article, equipment, device, or appliance manufactured, furnished, or used by him/her in the performance of the Contract, including their use by the City, unless otherwise specifically stipulated in the Specifications.

7.09 SANITARY FACILITIES – The Contractor shall conform to the rules and regulations pertaining to sanitary provisions as established by the State of California, the County of Santa Cruz and the City of Capitola, as may be applicable.

7.10 PUBLIC SAFETY – In accordance with generally accepted construction practices and applicable law, the Contractor will be solely and completely responsible for conditions of 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 the employees, if any, of 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.

Furthermore, the Contractor shall, at his/her own expense, furnish, erect and maintain such fences, barriers, lights, bridges, and signs and provide such flaggers and guards as are necessary to give adequate warning to the public of the construction and of any dangerous conditions to be encountered as a result thereof.

No material or equipment shall be stored where it will interfere with the safe passage of public traffic, and at the end of each day's work and at other times when construction operations are suspended for any reason, the Contractor shall remove all equipment and other obstructions from that portion of the roadway open for use by public traffic. Spillage resulting from hauling operations along or across any public traveled way shall be removed promptly.

Whenever the Contractor's operations require one-way traffic or creates a condition hazardous to the public traffic, s\he shall provide and station competent flaggers whose sole duties shall consist of directing the movement of public traffic through or around the work.

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7.11 ACCIDENT PREVENTION – The Contractor shall comply with all pertinent safety orders of the State of California, Department of Industrial Relations, Division of Industrial Safety, and U.S. Department of Labor, OSHA, and will also take or cause to be taken such additional measures as may be necessary for the prevention of accidents.

Prior to commencement of work, the Contractor shall (1) submit in writing the proposals for effectuating his/her provisions for accident prevention, and (2) meet in conference with the Director to discuss and develop mutual understandings relative to administration of an overall safety program.

During the performance of work under the Contract, the Contractor shall institute controls and procedures for the control and safety of persons visiting the job site.

The Contractor shall maintain an accurate record of, and shall report to, the Director in writing, exposure data and all accidents resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies or equipment incident to work performed under the Contract.

The Director will notify the Contractor of any noncompliance with the foregoing provisions. The Contractor shall after receipt of such notice, immediately take corrective action. If the Contractor fails or refuses to comply immediately, the matter will be referred to the proper authority. No part of the time lost due to any stop order issued by proper authority shall be made the subject or claim for extension of time for extra costs or damages by the Contractor.

Compliance with the provisions of this Article by subcontractors will be the responsibility of the Contractor.

No direct payment will be made by reason of the provisions of this Article and all costs in connection therewith shall be included in the prices paid for various contract items of work.

7.12 EXPLOSIVES AND STREAM POLLUTION – When the use of explosives is necessary for the prosecution of work, the Contractor shall not endanger life or property, and will be required to obtain a permit for use of explosives within City limits. All explosives shall be stored in accordance with the provisions of Division XI of the Health and Safety Code, and any applicable County or local ordinances.

Attention is called to the necessity of obtaining a permit from the Department of Fish and Wildlife of the State of California in advance of use of underwater explosives. Attention is directed to the Fish and Game Code relating to stream pollution, particularly, Section 5650.

7.13 FIRES – The Contractor shall obtain any necessary fire permits from the properly constituted authority and comply with all regulations of the County in which the work is to be performed.

7.14 INTERFERENCE WITH FIRE HYDRANTS, HIGHWAYS, AND FENCES – The Contractor shall so conduct his/her operations so as not to close or obstruct any portion of any highway, road, or street, or prevent in any way free access to fire hydrants until s/he has obtained permits therefor from the proper authorities. If any highway required to be kept open shall be rendered unsafe by the Contractor's operation s/he shall make such repairs or provide such temporary guards as shall be acceptable to the authorities having jurisdiction and to the Director. Any highway or street maintenance or repair work required by local authorities in connection with necessary operations under the Contract shall be performed by the Contractor at his/her own cost and expense. Fences subject to interference shall be maintained as effective barriers consistent with the original intent, but upon approval of the Director, they may be moved or rearranged to facilitate prosecution of the work until the work is finished, after which they shall be restored to their original or better condition.

7.15 PRESERVATION OF PROPERTY – Due care shall be exercised to avoid damage to existing improvements, utility facilities, and adjacent property. The fact that any pipe or underground facility is not shown on the drawings shall not relieve the Contractor of responsibility or ascertaining the existence of any underground improvements or facilities which may be subject to damage by reason of the operation.

Any obstruction along the line of work, such as mail-boxes or paper-boxes, posts, fences, culverts, improvements, etc., which interferes with the Contractor's operation shall be carefully removed and replaced by the Contractor as soon as possible in a satisfactory condition. Trees and shrubbery that are not to be removed, and pole lines, fences, signs, survey markers and monuments, buildings and structures, conduits, under- or above-ground pipelines, and any other improvements and facilities adjacent to the work shall be protected from injury or damage, and if ordered by the Director, the Contractor shall provide and install suitable safeguards to protect such objects from injury or damage.

If such objects are injured or damaged by reason of the Contractor's operations they shall be replaced or restored at the Contractor's expense. The facilities shall be replaced or restored to a condition as good as when the Contractor entered upon the work, or as good as required by the Specifications accompanying the work being performed under the Contract. When it becomes necessary for the Contractor to remove an existing fence as an obstruction to the work, the Contractor shall provide the necessary temporary fencing to be functionally as effective as the original for protection of livestock, equipment, or property.

Only those trees specifically designated for removal on the contract drawings shall be removed except with specific approval of the Director. Tree branches that extend over the work and must be removed, shall be cut off at the bole in a competent manner. The Contractor shall then remove other branches so that the tree will present a balanced appearance. Scars resulting from the removal of branches shall be treated with a heavy coat of an approved tree seal. The Director may make or cause to be made such temporary repairs as are necessary to restore to service any damaged facility.

The cost of such repairs shall be borne by the Contractor and may be deducted from any monies due or to become due the Contractor under the Contract.

No direct payment will be made by reason of the provisions of this article and all costs in connection therewith shall be included in the prices paid for the various contract items of work.

The Contractor, employee, and agents, shall at all times observe and comply with all conditions imposed by any instrument granting the right to enter upon property for the purpose of performing the work provided for herein, including, but not limited to, all conditions relative to the prevention and suppression of fires.

7.16 PUBLIC CONVENIENCE – Unless otherwise provided in the Special Provisions, all public traffic shall be permitted to pass through the work, and the Contractor shall so conduct operations as to offer the least possible obstruction and inconvenience to the public. The Contractor shall have under construction not greater length or amount of work than can be prosecuted properly with due regard to the rights of the public, and the Director shall be the sole judge of the length or amount of work which will afford proper convenience to the public.

In addition to the requirements for furnishing facilities for public safety as specified in Article 7.10, the Contractor shall erect such warning and directional signs as may be necessary, for expediting the passage of public traffic through or around the work and the approaches thereto. All such signs and

traffic maintenance shall be subject to the approval of the Director, and (s)he shall be notified 24 hours in advance of any disturbance of existing traffic patterns. No changes shall be made until approved by the Director.

Traffic signs, existing within the limits of the project, such as STOP signs, shall be maintained in an upright secure position, and located so as to properly control traffic, whenever it is necessary to remove them from their permanent location due to construction of the work, and shall be reinstalled in their permanent location at the earliest possible time.

Where pipelines are to be installed under the contract across certain designated streets or highways, as noted on the plans, the Contractor will only be permitted to open the trench one-half the width of the pavement at any one time so that one-way traffic can be maintained.

Construction operations shall also be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners. Water or dust palliative shall be applied if ordered by the Director for the alleviation or prevention of dust nuisance caused by the Contractor's operations. Convenient access to driveways, houses, and buildings along the line of work shall be maintained fully by the Contractor, and temporary approaches to crossings or intersecting roads or streets shall be provided and kept in good condition. When traffic control signals are shut down as provided in Section 86-1.05 of the State Specifications, the Contractor shall control traffic by use of flaggers, as directed by the Director, at those locations set forth in the Special Provisions. No STOP signs will be permitted at these locations. The flaggers required for this operation shall be paid for by the Contractor.

All of the foregoing requirements shall apply on weekends and holidays, if considered necessary by the Director. The Director may take action as necessary to provide for public convenience and charge the cost thereof to the Contractor if no representative of the Contractor is available to do same.

7.17 CONTRACTOR'S RESPONSIBILITY FOR WORK – Until the formal acceptance of the work, the Contractor shall have the charge and care of the work and of the materials to be used therein, and shall bear the risk of injury, loss, or damage, to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The materials to be used in the work include both those furnished by the City and those furnished by the Contractor, including materials for which the Contractor has received partial payment as provided in Article 9.06.

7.18 RESPONSIBILITY FOR DAMAGES; INDEMNIFICATION – The City, the City Council, the Engineer, and all officers and employees of the City shall not be answerable or accountable in any manner, for any loss or damage that may occur to the work or any part thereof; or for any of the materials or other things used or employed in performing the work; or for injury to any person or persons, either workers or the public; for damage to property from any cause which might have been prevented by the Contractor or his/her workers, or anyone employed by his/her; against all of which injuries or damages to persons and property the Contractor having control over such work must properly guard.

The Contractor shall be responsible for any damage to any person or property resulting from defects or obstructions or from any cause whatsoever during the progress of work or at any time before its completion and final acceptance and during the period of the project guarantee. To the fullest extent permitted by law, Contractor shall defend, indemnify, and hold harmless the City and its Directors, officers, officials, members, managers, departments, divisions, agents, representatives, volunteers, and employees (collectively "Indemnatee(s)"), from and against any and all claims, suits, actions, legal or administrative proceedings, judgments, debts, demands, injuries (including, without limitation, injury or

death to any person or persons), damages (including, without limitation, damage to any property including loss of use resulting therefrom, and incidental and consequential damages), liabilities, losses, debts, interest, penalties, costs, attorneys' fees, and expenses of whatsoever kind of nature (collectively "Loss(es)"), whether arising before, during, or after commencement or completion of this Contract, which in any manner, directly or indirectly, in whole or in part, result from, relate to, or arise from (or are claimed to result from, relate to, or arise from) the work called for by this Contract, or any act, omission, fault, recklessness, negligence (whether active or passive), or willful misconduct of Contractor or any of his/her/its subcontractors, or any of their respective officers, directors, agents, employees, or anyone acting under their direction, authority, control, or on their behalf or for whose acts or omissions either of them may be liable (collectively "Contractor Agent(s)"), or the condition of the premises while in the control of the Contractor or any Contractor Agent, even though the same may have resulted from the joint, concurrent, or contributory negligence, or from the passive negligence of an Indemnitee or any other person or persons. Except as provided in Section 3.07, this provision shall not be deemed to require the Contractor to indemnify the City or other Indemnitee for any Loss proximately caused by the sole negligence of an Indemnitee, or to the extent such Loss is proximately caused by the active negligence or willful misconduct of an Indemnitee. Notwithstanding anything to the contrary contained herein, Contractor's indemnification obligations shall not apply to the extent that such indemnity is void or otherwise unenforceable under applicable law in effect on or validly retroactive to the date of the Contract.

Contractor specifically acknowledges and agrees that he/she/it has an immediate and independent obligation to defend the City and the other Indemnites from any Loss that falls within the scope of this Section 7.18 (Responsibility for Damages; Indemnification), which obligation arises at the time such Loss is tendered to Contractor by the Indemnitee and continues at all times until finally resolved.

Contractor's obligations under this Section 7.18 will survive the termination of the Contract.

7.19 PAYMENT OF TAXES – The Contract prices paid for the work shall include full compensation for all taxes which the Contractor is required to pay, whether imposed by the Federal, State or local government.

7.20 COOPERATION BETWEEN CONTRACTORS – Should construction be underway by other forces or by other Contractors within or adjacent to the limits of the work specified or should work of any other nature be underway by other forces within or adjacent to said limits, the Contractor shall cooperate with all such other Contractors or other forces to the end that any unnecessary delay or hindrance to their work will be avoided. The right is reserved to perform other or additional work at or near the site (including designated material sources) at any time by the use of other forces.

When two or more Contractors are employed on related or adjacent work, or are to obtain materials from the same designated material source, each shall conduct his/her operations in such a manner as not to cause any unnecessary delay or hindrance to the other. Each Contractor shall be responsible to the other for all damage to work, to person or property caused to the other by his/her operations, and for loss caused the other due to his/her unnecessary delays or failure to finish the work within the time specified for completion.

7.21 PROPERTY RIGHTS IN MATERIAL – Nothing in the contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the work or the soil, or after payment has been made for 80 percent of the value of materials delivered to the site of the work, whether or not they have been so attached or affixed. All such materials shall

become the property of the City upon being so attached or affixed upon payment of such 80 percent of the value of materials delivered by the Contractor on the ground and not used, as provided in Article 9.06.

7.22 RIGHTS IN LAND AND IMPROVEMENTS – Nothing in these Specifications shall be construed as allowing the Contractor to make any arrangements with any person to permit occupancy or use of any land, structure, or building within the limits of the Contract for any purpose whatsoever, either with or without compensation, in conflict with any agreement between the City and any owner, former owner, or tenant of such land, structure or building.

7.23 TITLE TO MATERIALS FOUND ON THE WORK – The title to all water and to the right to the use of all water, to all soil, stone, gravel, sand, minerals, and all other materials developed or obtained in the excavation or other operations by the Contractor or any subcontractor, or any of their employees, and the right to use or dispose of the same, are hereby expressly reserved in the City and neither the Contractor, nor any subcontractor, nor any of their employees shall have any right, title, or interest in or to any part thereof; neither shall they, nor any of them, assert or make any claim thereto. The Contractor may be permitted to use in the work without charge any such materials which meet the requirements of these Specifications.

7.24 PERSONAL LIABILITY – Neither the members of the City Council, the Director, the Consulting Engineer, nor any other officer or employee of the City shall be personally responsible for any liability arising under the Contract.

7.25 TRESPASS – The Contractor shall be responsible for all damage or injury which may be caused on any property by trespass by the Contractor, any subcontractor or their employees in the course of their employment, whether the said trespass was committed with or without the consent or knowledge of the Contractor.

7.26 SUBCONTRACTING – The Contractor shall comply with Public Contract Code Sections 4100 *et seq*, inclusive, relating to subletting and subcontracting.

No contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City.

Space is provided in the Proposal for listing subcontractors, and their DIR registration information, to be employed on the Project.

In no case shall the use of subcontractors in any way alter the position of the Contractor or his/her sureties with relation to this Contract. When a subcontractor is used, the responsibility for every portion of the work shall still remain with the Contractor.

7.27 PROTECTION OF PUBLIC UTILITIES – 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 in the plans and specifications made a part of the invitation for bids. The City will compensate the Contractor for the costs of locating, repairing damage not due to the Contractor's failure to exercise reasonable

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care, and removing or relocating existing main or trunk line utility facilities located at the Work site and not identified with reasonable accuracy in plans and specifications made a part of the invitation for bids. 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.

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, on or adjacent to the Work site; provided, however, that nothing in this provision or the Contract Documents shall relieve the City from identifying main or trunk lines in the plans and specifications made a part of the invitation for bids.

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.

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.

If the Contractor while performing the Work discovers utility facilities not identified by the City in the plans and specifications made a part of the invitation for bids, the Contractor must immediately notify the City and utility in writing.

Either the City or the utility, whichever owns existing main or trunk line utility facilities located on the Work site, shall 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

The Contractor will be required to work around public utility facilities that are to remain in place within the construction area or that are to be relocated and relocation operations have not been completed, and (s)he will be held liable to the owners of such facilities for any damage or interference with service resulting from his/her operations.

The exact locations of underground facilities and improvements within the construction area shall be ascertained by the Contractor before using equipment that may damage or interfere with service resulting from his/her operations. It shall be the Contractor's responsibility to notify public utilities that (s)he is working in the vicinity of their facilities.

Other forces may be engaged in moving or reconstructing utility facilities or maintaining service of utility facilities, and the Contractor shall cooperate with such forces and conduct his/her operation in such a manner as to avoid unnecessary delay or hindrance to the work being performed by such other forces.

The Santa Cruz City Municipal Utilities (SCMU) and Soquel Creek Water District (SCWD) owns, operates and maintains its own water distribution systems; the County of Santa Cruz owns, operates and maintains its own sewer collection systems, and will cooperate with the Contractor insofar as it is reasonable and practicable. Water, as required for City projects, may be obtained at SCMU or SCWD-owned fire hydrants provided that application is made to the SCMU or SCWD and permission obtained with provision for payment.

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

7.28 PUBLICATIONS – The Contractor shall submit and obtain written approval from the Director prior to the publication of any technical articles, descriptions, or news releases, concerning this project. Approval shall be granted providing that the City is properly acknowledge, technical innovations are properly acknowledged, and such publication is in the best interest of the City.

7.29 LANDS AND RIGHTS-OF-WAY – The City shall provide the lands rights-of-way, and easements upon which the work under this contract is to be done, and such other lands as may be designated on the contract drawings for the use of the Contractor and the Contractor shall confine his/her operations to within these limits.

The Contractor shall provide at his/her own expense any additional land and access thereto that may be required for temporary construction facilities or for storage of materials.

7.30 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 shall be made and become effective at the time the City tenders final payment to the Contractor, without further acknowledgement by the parties.

7.31 TRENCHING REQUIREMENTS – Pursuant to Labor Code section 6705 and these Specifications, before the excavation of any trench or trenches, five (5) feet or more in depth, where the estimated contract expenditure is twenty-five thousand dollars (\$25,000) or more, the Contractor shall submit 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 the excavation of such trench or trenches. If such plan varies from the shoring system standards, established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer. No excavation shall be started until said plan has been approved by the City Engineer. When the estimated contract expenditure is less than twenty-five thousand dollars (\$25,000) the above-mentioned shoring plan may be required at the discretion of the City Engineer prior to or during the course of construction.

Pursuant to Public Contract Code section 7104, for any project which involves digging trenches or other excavations that extend deeper than four (4) feet:

1. The Contractor shall promptly, and before the following conditions are disturbed, notify the local public entity, in writing, of any:
 - a. Material that the contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law;
 - b. (2) Subsurface or latent physical conditions at the site differing from those indicated by information about the site made available to bidders prior to the deadline for submitting bids.

- c. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract.
2. The City shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the contractor's cost of, or the time required for, performance of any part of the work shall issue a change order under the procedures described in the contract.
3. In the event that a dispute arises between the City and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the contractor's cost of, or time required for, performance of any part of the work, the Contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all work to be performed under the contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the parties.

7.32 THIRD PARTY CLAIMS – The City shall timely notify Contractor of the receipt of any third-party claim relating to the Contract, and the City shall be entitled to recover its reasonable costs incurred in providing such notice.

SECTION 8
PROSECUTION AND PROGRESS OF WORK

8.01 ASSIGNMENT - The performance of the Contract may not be assigned except upon the written consent of the City. Consent will not be given to any proposed assignment which would relieve the original Contractor or his/her surety of their responsibilities under the Contract.

The Contractor may assign monies due or to become due him/her under the Contract and such assignment will be recognized by the City, if given proper notice thereof, to the extent permitted by law, but any assignment of moneys shall be subject to all proper setoffs in favor of the City and to all deductions provided for in the Contract and particularly all money withheld, whether assigned or not, shall be subject to being used by the City for the completion of the work in the event that the Contractor should be in default therein.

8.02 COMMENCEMENT OF WORK – The Contractor shall not begin work until s\he has received a Notice to Proceed from the City, and shall upon receiving notice, begin work within the time specified in the notice. After receipt of said notice, the Contractor shall provide written notice to the Director of the Contractor’s intention to start work, specifying the date on which s\he intends to start at least 24 hours in advance.

8.03 WORK IN PROGRESS SCHEDULE – Unless not required by the Special Provisions, the Contractor or the bidder to whom the Contract is awarded shall, prior to beginning work, submit to the Director a practicable work schedule in the form required by the Special Provisions showing the order and dates within which the Contractor proposes to carry out the work.

8.04 TEMPORARY SUSPENSION OF WORK – The Director shall have the authority to suspend the work wholly, or in part, for such period as (s)he may deem necessary when work is being performed in unsuitable weather, or when any other conditions are considered unfavorable for the proper prosecution of the work. The Director shall also have authority to suspend the work wholly or in part because of failure on the part of the Contractor to carry out orders given or to perform any provisions of the Contract. The Contractor shall immediately comply with the written order of the Director to suspend the work wholly or in part. Work suspended wholly or in part shall be resumed by the Contractor on written order of the Director when conditions are favorable and methods corrected.

8.05 TEMPORARY SUSPENSION OF WORK FOR THE CONVENIENCE AND BENEFIT OF THE CITY – The Director may order the Contractor, in writing, to temporarily suspend all or any part of the work for such period of time as may be determined by the Director to be necessary or desirable for the convenience and benefit of the City. Where such suspension has been ordered in writing as above provided and where such suspension unreasonably delays the progress of the work, the Director may make an equitable adjustment in the contract price and contract time.

8.06 SUSPENSION OF WORK BECAUSE OF CONDITIONS BEYOND CONTROL OF CITY OR CONTRACTOR – Should the work of this contract be suspended for a period of over one (1) year due to war conditions, labor conditions, legal actions, or for any other reason beyond the control of either the City or the Contractor, the work may be terminated by mutual agreement subject to the following conditions. The City shall be responsible for payment for the actual work accomplished only, based on bid prices. The pro-rated cost of such work, where not fully covered by unit costs or bid items, shall be determined by the City’s evaluation of the work done and the bid costs.

8.07 TERMINATION OF UNSATISFACTORY SUBCONTRACTS – When any portion of the work which has been subcontracted by the Contractor is not being prosecuted in a satisfactory manner, the subcontract for such work shall be terminated immediately by the Contractor upon written notice from the Director, and the subcontractor shall not again be employed on the type of work in which his/her performance was unsatisfactory.

8.08 CHARACTER OF WORKERS – If any subcontractor or person employed by the Contractor or subcontractor shall fail or refuse to carry out the directions of the Director or shall appear to the Director to be incompetent or to act in a disorderly or improper manner, (s)he shall be removed from the work immediately on the request of the Director, and such persons shall not again be employed on the work.

8.09 TIME OF COMPLETION AND LIQUIDATED DAMAGES – The Contractor shall complete all the work under the Contract within the number of days set forth in the Special Provisions or the Proposal form. When a delay occurs due to unforeseen causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of nature, acts of the public enemy, governmental acts, fires, floods, epidemics, strikes (except as caused by improper acts or omissions of the Contractor), the time of completion shall be extended for a period justified by the effect of such delay on the completion of the work. A delay of a subcontractor or supplier due to the above circumstances will be taken into consideration for extensions of time of completion.

Acts of nature means an earthquake, flood, cloudburst, cyclone, or other cataclysmic phenomena of nature beyond the power of the Contractor to foresee or to make preparation in defense against, but does not include ordinary precipitation. The number of days provided for the work as set forth in the Special Provisions includes a normal amount of days for downtime due to weather according to the time of year in which the Contract will be operational.

Should any of the unforeseen circumstances as described in the preceding portion of this Article occur, the Contractor shall file written notice with the Director within the 10 days of the beginning of such delay. The notification shall be accompanied by documentary evidence to the fact and effect of the circumstances. Circumstances of which no notification has been given within 10 days of their occurrence shall not afterward be claimed as grounds for extension of time of completion. The Director will determine the facts in the matter and his/her findings shall be final and conclusive.

If the Contract is revised by a Contract Change Order and the Director determines that such revision will cause delay in completion of the work, the Change Order will provide for extension of the time of completion.

It is agreed by the parties to the Contract that in case all the work called for under the Contract in all parts and requirements is not finished or completed within the number of days as set forth in the Special Provisions, damage will be sustained by the City, and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of a reason of such delay; and it is therefore agreed that the Contractor will pay to the City the sum set forth in the Special Provisions per day for each and every day's delay in finishing the work in excess of the number of days prescribed; and the Contractor agrees to pay said liquidated damages herein in the amount of \$500.00 per day herein provided for in the State Specifications, provided for, and further agrees that the City may deduct the amount thereof from any monies due or that may become due to the Contractor under the Contract.

8.10 TERMINATION OF CONTRACT – If the Contractor should fail to supply sufficient workers, material, supplies, and equipment, the City shall give written notice to the Contractor, which notice shall

require that the Contractor supply sufficient workers, supplies, materials, and equipment to diligently prosecute the project. If the Contractor fails to resume diligent prosecution of the work within 48 hours after such notice is delivered, the City may eject the Contractor from the job, take over all supplies, equipment and material of the Contractor on the job site, and may either obtain another Contractor to finish the project or the City may finish the project with its own forces. In such event, the Contractor shall be liable to the City for damages including but not limited to the full cost of completing the project.

8.11 RIGHT-OF-WAY DELAYS – If performance of the Contractor’s work is delayed as the result of the failure of the City to acquire or provide rights-of-way, an extension of time will be granted pursuant to provisions of Article 8.09.

8.12 CONTRACTOR’S COST DATA – The City, or any of its duly authorized representatives shall, until the expiration of three years after final payment under this Contract or any subcontractor under it, have access to and the right to examine any of the Contractor’s or subcontractor’s payrolls, records of personnel, invoices of materials, records of plant and equipment costs, and any and all other directly pertinent books, documents, papers, and records of such Contractor or subcontractor, involving transactions related to said Contract or subcontracts. In the event State or Federal funds are involved in the financing of the project, the State or Federal Government shall have the same rights of inspection as the City.

8.13 COORDINATION WITH UTILITIES – The Contractor shall be required to coordinate the work with the removal or relocation of any utility facility by any utility company or public agency where the utility facility is shown on the plans or specified in the Special Provisions to be removed or relocated by such company or agency. It shall be the Contractor’s sole responsibility to effect said coordination, and it shall be deemed, upon his/her submission of a Proposal and Schedule to do Work, that the Contractor has reviewed his/her working plans with, and coordinated any utility facility removal or relocation with, all appropriate utility companies and public agencies.

In general, the location of existing utility facilities as shown on the drawings are approximate. This information has been obtained from utility maps furnished by the various agencies involved, and the City does not guarantee either the correctness of locations or the extent of such location. Minor lines such as house water, gas and sewer facilities are not shown. It shall be the responsibility of the Contractor to ascertain the exact location of the utility facilities, and no additional compensation may be claimed for additional work involved because the actual location is different than that shown on the plans.

Unless otherwise indicated on the Drawings or specified in the Special Provisions, the Contractor shall maintain in service all drainage, water, gas, and sewer lines, including house services, power, lighting and telephone conduits, and any other surface or subsurface structure of facility of any nature that may be affected by the work; provided, however, that the Contractor for his/her convenience may arrange with the owner to temporarily disconnect house service lines or other facilities along the line of the work. The cost of disconnecting and restoring such utilities shall be borne by the Contractor.

The Contractor is responsible for the protection of and for any damage to any utility facility encountered on the project during the prosecution of the work. Any such damage to a utility facility shall be repaired to the satisfaction of the utility owning the same. The City reserves the right, if so requested by the owner, to permit the owner to repair such damage. All expenses of whatever nature arising from such damage shall be borne by the Contractor.

8.14 RESPONSIBILITY FOR ACCURACY – The Contractor shall obtain all necessary measurements for and from the Work, and shall check dimensions, elevations, and grades for all layout and construction work and shall supervise such work, for the accuracy of all of which s/he shall be responsible. Each subcontractor shall adjust, correct, and coordinate his/her work with the work of others so that no discrepancies will result in the whole work. Unless authorized by the Director, any work done without liens, levels, or grades established by the Director shall be done at the Contractor’s risk.

8.15 TEMPORARY FACILITIES AND SERVICES - The Contractor shall be responsible for providing and maintaining the necessary storage places, field office, temporary roads, fences, guards, etc., and required utilities, such as telephone, electric, and water service, at his/her expense. No water shall be withdrawn from fire hydrants for construction purposes until the Contractor has approval of the owner for such a connection.

8.16 UNFAVORABLE WEATHER AND OTHER CONDITIONS - During unfavorable weather and other conditions, the Contractor shall pursue only such portion of the work as will not be damaged thereby. No portions of the work of which the satisfactory quality or efficiency will be affected by any unfavorable conditions shall be constructed while these conditions remain, unless the Contractor employs special means or precautions, approved by the Director to overcome them.

8.17 CONSTRUCTION HOURS – Construction hours shall be limited between the hours of 8:00 a.m. and 5:00 p.m. on weekdays. Construction shall prohibited on weekends or legal holidays except in case of an emergency work approved by the Director.

It is understood, however, that two or three shift operations may be established as a regular procedure by the Contractor if (s)he first obtains written permission from the Director. Such permission may be revoked by the Director at any time if the Contractor fails to maintain adequate force and equipment for reasonable prosecution and to justify inspection of the work or fails to provide sufficient artificial light to permit the work to be carried on properly and to permit proper inspection.

The Contractor shall give the Director 24 hours prior notice of any work to be done on weekends with the location and type of work to be done specified; and any work done without such notice and without the supervision of an inspector may be ordered removed and replaced at the Contractor’s expense.

SECTION 9
MEASUREMENT AND PAYMENT

9.01 WORK TO BE DONE WITHOUT DIRECT PAYMENT – Whenever it is specified that the Contractor is to do work or furnish materials of any class for which no price is fixed in the proposal, it shall be understood that s/he is to do such work or furnish such materials without extra charge or allowance or direct payment of any kind. The cost of doing such work or furnishing such materials is to be included in the price bid for such other items of work as s/he may consider appropriate, unless it is expressly specified in the Special Provisions that such work or materials is to be paid for as extra work.

9.02 MEASUREMENT OF QUANTITIES – Payment for all work bid at a price per unit of measurement will be based upon the actual quantities of work as measured upon completion. The City does not expressly or by implication agree that the actual amount of work or materials of any class will correspond to the estimated quantities given in the proposal. The Contractor shall make no claim for anticipated profits, for loss of profit, for damages, or for any extra payment whatever because of any difference between the amount of work actually done or materials furnished and the estimated amount.

Items bid on a "Lump Sum" or "Job" basis shall result in a complete structure, operating plant or system in satisfactory working condition with respect to the functional purposes of the installation, and no extra compensation will be allowed for anything omitted but fairly implied.

9.03 REMOVED.

9.04 FORCE ACCOUNT WORK

9.04.01 General – Where extra work is to be paid for on a force account basis, the extra work will be paid for at the actual necessary cost as determined by the Director, plus an allowance for superintendence, general expense, and profit. Such an allowance will be made in accordance with the following schedule:

<u>Actual Necessary Cost</u>	<u>Allowance</u>
Labor	20 Percent
Materials	15 Percent
Equipment	15 Percent

The actual necessary cost for labor, material or equipment will be computed in accordance with Articles 9.04.02, 9.04.03, and 9.04.04, respectively. Office expense, general superintendence, and other general expense will not be included in the computation of actual necessary costs.

It is understood that labor, materials, and equipment may be furnished by the Contractor or by the subcontractor or by others on behalf of the Contractor.

When extra work paid for on a force account basis is performed by forces other than the Contractor’s organization, the Contractor shall reach agreement with such other forces as to the distribution of the payment made by the City for such work and no additional payment therefor will be made by the City.

The Contractor shall furnish the Director daily report sheets covering the direct costs of labor and materials and charges for equipment, whether furnished by the Contractor, subcontractor, or other forces and said report sheets shall be signed by the Contractor or his/her authorized agent. The daily report sheets shall provide names or identifications and classifications of workers, and hours worked; size, type and identification number of equipment, and hours operated. Material charges shall be substantiated by valid copies of vendor's invoices.

The Director will make any necessary adjustments and compile the costs of force account work on daily extra work report forms furnished by the City. When these reports are agreed upon and signed by both parties they shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit.

9.04.02 Labor – The cost of labor used in performing the work by the Contractor, a subcontractor, or other forces will be the sum of the following:

- a. The actual wage paid which shall include any employer payments to, or on behalf of, workers for fringe benefits including health and welfare, pension, vacation, and similar purposes.
- b. To the actual wages, as defined in Article 9.04.02(a), will be provided a percentage set forth in the Special Provision, which percentage shall constitute full compensation for all payment imposed by State and Federal laws including, but not limited to, compensation insurance, and social security payments.
- c. The amount paid for subsistence and travel required by collective bargaining agreements.

At the beginning of the Contract and as later requested by the Director, the Contractor shall furnish the Director three copies of a certificate from the insurance company showing labor compensation rates.

9.04.03 Materials – The cost of materials used in performing the work will be the cost to the purchaser, whether Contractor, subcontractor, or other forces, from the supplier thereof, except as the following are applicable:

- a. Cash or trade discounts available to the purchaser shall be credited to the City notwithstanding the fact that discounts may not have been taken.
- b. In materials secured by other than a direct purchase and direct billing to the purchase, the cost shall be deemed to be the price paid to the actual supplier as determined by the Engineer. Markup except for actual costs incurred in the handling of such materials will not be allowed.
- c. Payment for materials from sources owned wholly or in part by the purchaser for similar materials from said sources on Contract items or the current wholesale price for such materials delivered to the job site, whichever price is lower.
- d. If, in the opinion of the Director, the cost of materials is excessive, or the Contractor does not furnish satisfactory evidence of the cost of such materials, then the cost shall be deemed to be the lowest current wholesale price for the quantity concerned delivered to the job site less cash or trade discounts.

The City reserves the right to furnish materials for the work and no claim shall be made by the Contractor for costs and profit on such materials.

9.04.04 Equipment – The allowance made for such equipment used on force account work shall be determined from the latest schedule of equipment rental rates in use at the date hereof by the California State Transportation Department and incorporate herein by reference the same as though set out in full. Equipment shall be in good operating condition when starting work covered by the order. Rental time will not be allowed while equipment is inoperative due to breakdowns. Allowance for equipment ownership expense for use of items of equipment not listed with the Board shall be established in conformance with the items listed.

When extra work is ordered, the Contractor shall furnish a complete description of each item of equipment to be used on such extra work, listing the make, model, size, capacity, mounting, type of power and cost.

Allowance determined in accordance with this Article include all costs of operating equipment such as servicing labor and equipment, labor and parts for minor field repairs, fuel, oil, grease, and supplies, but not operating crew labor. No additional payment or allowance will be made in extra work orders for these items other than operating labor in addition to the amounts allowed for equipment use.

When equipment is obtained for the extra work from beyond the limits of the Contract, in addition to the rental rates paid while the equipment is actually in use on the work, the City will pay the cost of loading, unloading, and transporting to and from work subject to the following conditions:

- a. The point from which the equipment is to be transported shall be agreed to by the Director in advance.
- b. Transportation on low bed trailers shall not exceed rates of established haulers or applicable minimum rates of the Public Utilities Commission.
- c. Saturdays, Sundays, and Holidays will not be paid for unless directed by the Director.
- d. The City will pay an amount not to exceed the charge for moving the equipment to the work if the equipment is returned to a location other than from which it was obtained.
- e. Payment for transportation, loading, and unloading will not be made if the equipment is used on the work under the Contract in any other way than upon extra work paid for on a force account

9.05 RETENTION – In accordance with the Contract Documents and applicable law, the City may retain out of any payment due the Contractor up to 5% of the payment. In no event shall the City's total retention proceeds exceed 5% of the contract price.

Under no circumstances shall any provision of this section be construed to limit the ability of the City to withhold 150 percent of the value of any disputed amount of work from the final payment, as provided for Public Contract Code section 7107(c). In the event of a good faith dispute, nothing in this section shall be construed to require a public entity to pay for work that is not approved or accepted in accordance with the proper plans or specifications.

9.05.010 SECURITIES IN LIEU OF RETENTION – 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.

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.

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.

The Contractor will be the beneficial owner of any securities substituted for moneys withheld and will receive any interest thereon.

9.06 PARTIAL PAYMENT – At monthly intervals, as fixed by the City, the Contractor will prepare an estimate in writing of the total amount of work done and the acceptable materials furnished and delivered by the Contractor on the ground and not used, to the time of such estimate, and the value thereof. Acceptable materials shall be those materials which will become a part of the finished construction work. The basis for partial payments of lump sum or other unit Contract items will be determined by agreement between the Director and the Contractor. No such estimate of payment shall be required to be made when, in the judgment of the Director the work is not proceeding in accordance with the provisions of the Contract, or when in his/her judgment the total value of the work done since the last estimate amounts to less than \$500. No such estimate or payment shall be considered to be an acceptance of any defective work or improper materials. All progress estimates and payments shall be subject to correction in the final estimate.

9.07 FINAL ESTIMATE AND PAYMENT – As soon as practicable after completion of the work, the Director will prepare in writing and furnish to the Contractor the final estimate of the quantities of work done and all payments due under the Contract, which estimate will show deductions for prior payments and any other amounts to be retained. The amount determined due, less the amount retained, will be paid. This retained amount will not be due or payable until 35 days after the completion of the work and the filing of Notice of Completion and Acceptance in the manner provided by law and until after the Contractor has furnished the City a release by all claims by the Contractor against the City arising by virtue of the Contract except such claims in definite amounts as the Contractor may specifically exempt from the operation of the release.

At the earliest practicable time after having filed a claim, either during the performance of the work or after its completion as specified in the foregoing paragraph, it shall be the responsibility of the Contractor to submit in writing the basis for each claim, reference to the applicable provisions of the Specifications, the method of computation of the amount claimed due, and all other factual data pertaining thereto.

Failure to submit such information and details within the 90 days after filing said claims will be sufficient cause for denying the claims. No claim will be considered where there has been a failure to comply with the requirements of Article 4.04.

9.08 SCOPE OF PAYMENT - Payment for all items of work at the unit or lump sum price shall be considered as full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the items of work, and no additional allowance will be made therefor.

9.09 GUARANTEE - Should any failure of the work occur within a period of one year after acceptance of the project by the City, which can be attributed to faulty materials, poor work, or defective equipment, or should discovery be made within this period of any non-compliance with the Plans and Specifications, the Contractor shall promptly make the needed repairs, replacement, or installation at his/her expense.

The City is hereby authorized to make such repairs if the Contractor fails to make or undertake with due diligence the aforesaid repairs within ten days after s/he is given written notice of such failure; provided, however, that in case of emergency where, in the opinion of the Director, delay would cause serious loss or damages, or a serious hazard to the public, the repairs may be made, or lights, signs, and barricades erected without prior notice to the Contractor, and the Contractor shall pay the entire costs thereof.

Unless otherwise set forth in the Special Provisions, as a condition precedent to the acceptance of the Contract, the Contractor shall furnish a corporate surety bond, of an acceptable surety company authorized to do business in the State of California, to protect the City against the results of such faulty materials, poor work, or defective equipment and to guarantee the Contractor's responsibility as outlined above, for period of one year after completion and acceptance of the project by the City. Said bond shall be a sum not less than ten (10%) of the Contract amount.

PART 3: TECHNICAL PROVISIONS

Whenever reference is made to "Standard Specifications", it shall be interpreted to mean the State of California Department of Transportation Standard Specifications 2018, issued by the State of California Department of Transportation. here the term "Special Provisions" is used in the Standard Specifications, it shall be understood to mean these Specifications.

The *Standard Specifications* including *Revised Standard Specifications (RSS)* as revised by these special provisions will apply to this project.

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* or *Revised Standard Specifications (RSS)*.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* or *RSS* for any other reference to a paragraph of the *Standard Specifications* or *RSS*.

When the word "Department" appears in the Specifications, it refers to the "City."

Revisions to Standard Specifications and Revised Standard Specifications (RSS)

In the event of conflict between the Standard Specifications and these Special Provisions, the latter shall take precedence over and be used in lieu of such conflicting portions. The listing of certain salient sections from the Standard Specifications and these Special Provisions shall not in any way relieve the Contractor of complying with each and every section of the Standard Specifications.

SECTION 10
GENERAL

10.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 10, "General," of the Standard Specifications and these special provisions.

The Contractor shall prepare a traffic control plan that conforms to Section 12, Traffic Control Plan. The work shall be performed in conformance with the phases of construction shown on the Contractor's approved Traffic Control Plan. Non-conflicting work in subsequent phases may proceed concurrently with work in preceding phases.

The first order of work shall be to contact Underground Service Alert (U.S.A.). The Contractor shall contact Underground Service Alert to mark out and locate all existing utility facilities within the project area. The Contractor is responsible for repairing and restoring any damaged utility facilities to a condition satisfactory to the utility owner at no cost to the City of Capitola or County of Santa Cruz.

The second order of work shall be to place Best Management Practices (BMP). BMP's shall remain in place until the project is complete.

The order of all other work shall be such as to assure the completion of the project within the allotted time as described herein while complying with the requirements set forth in the contract documents.

The Contractor is responsible for all material and/or equipment needed to perform the project. Should the City have to supply the Contractor with material and/or equipment to do the work, the Contractor will be charged accordingly.

Full compensation for preparing roadway and coordinating with utility companies and property owners is considered included in various bid items and no additional compensation shall be provided therefore.

10.02 PROGRESS SCHEDULE

The Contractor shall submit a detailed construction schedule to the Engineer for review and approval prior to the pre-construction meeting for the project. Construction schedules shall conform to the provisions in Section 8-1.02, "Schedule," of the Standard Specifications.

The construction schedule shall be consistent in all respects with the times and order of work requirements in Section 10-1.01, "Order of Work," elsewhere in the special provisions.

10.03 OBSTRUCTIONS

Attention is directed to Section 5-1.36, "Property and Facility Preservation," Section 15, "Existing Facilities" of the Standard Specifications and these special provisions.

The Contractor's attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workmen and of the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipelines greater than 6 inches in diameter or pipelines operating at pressures greater than 60 psi (gage); underground electric supply system conductors or cables either directly buried or in duct or conduit which do not have concentric neutral conductors or other effectively grounded metal shields or sheaths; and underground electrical conductors with potential to ground of more than 300 volts.

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

Underground Service Alert

Northern California (USA) Telephone: 811 or (800) 227-2600

Pursuant to Government Code Section 4216.e, the inquiry identification number from the regional notification center shall remain valid for not more than 14 calendar days from the date of issuance, and after that date shall require regional notification center revalidation. Inquiry identification number means the number which is provided by a regional notification center to every person who contacts the center pursuant to Government Code Section 4216.2.

The Contractor is responsible for locating all underground utilities (utility location, type, size, and depth) prior to any excavation and protecting facilities in place. The existing utilities shown on the plans are approximate locations established from information available and do not include all the existing utilities. The Contractor shall use extreme caution when excavating, grading, raising manholes, and paving in the vicinity of such facilities.

The Contractor shall visit the site of the proposed work and determine the quantity and location of the manholes, valve covers and utility appurtenances to be encountered in the proposed work area and his/her bid accordingly. Damage to such utilities resulting from the Contractor's operations to complete the Project shall be repaired at the Contractor's expense.

Where possible conflicts may exist, the Contractor shall verify the grade and location of existing underground utility prior to any work by careful hand digging. It is recognized by the City and the Contractor that the locations of existing utilities as shown on the plans are approximate, their actual location is unknown. Recognition is given to the fact there may be additional existing utilities unknown to either party to the contract. Location of utilities, as shown on the drawings, represent the best information obtainable from utility maps and information furnished by the various agencies and companies involved. The City warrants neither the accuracy nor the extent of the actual utilities involved.

Contractor shall be responsible for locating all existing utilities. All existing utilities within the project limits shall remain in use during construction.

In the event the Contractor discovers existing utilities within the limits of the excavation, the Contractor shall immediately notify the Engineer and the affected utility owner by the most reasonable expeditious method and later confirm in writing. All required relocation of existing facilities that interfere with the work shall be made by the owning agencies.

Facilities damaged or disturbed shall be reset, repaired, or replaced, as directed by the Engineer, at the Contractor's expense.

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

10.04 MAINTAINING TRAFFIC

Attention is directed to Sections 7-1.03, "Public Convenience," 7-1.04, "Public Safety," and 12, "Temporary Traffic Control," of the Standard Specifications, the provisions under "Traffic Control System and Construction Area Signs" elsewhere in the special provisions, and these special provisions. Nothing in these special provisions shall be construed as relieving the Contractor from responsibility as provided in said Section 7-1.04.

Vehicular and pedestrian access to private property shall be maintained at all times unless the closing of such access is approved by the Engineer. The Contractor shall request in writing permission from the Engineer a minimum of five (5) working days in advance of making such closing.

Detours and all lights, signs, barricades, flag persons or other devices necessary to provide for safety and convenience shall be furnished, installed and maintained by the Contractor. Lighted or flashing barricades shall be used during hours of darkness.

Existing traffic signs shall be protected in place by the Contractor during the construction period.

The Contractor shall place, remove, store, maintain, relocate, replace, and dispose construction area traffic control devices and traffic control and construction area signs.

No trench shall be permitted to remain open overnight or when construction activities are not in progress. Each trench shall be backfilled to the surface. The Contractor shall not open more trench than can be successfully completed and backfilled in one day. Where this requirement is impracticable, the Contractor shall request in writing permission from the Engineer to extend the trench to its practical limit and to bridge the trench with steel plates. When necessary, trenches and other excavations shall be bridged with steel plates as required by the Engineer. The bridging shall be placed to permit an unobstructed flow of traffic. Advanced warning signs shall be required when trenches and other excavation are bridged in the travel way.

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

The Contractor shall notify local public safety authorities of this intent to begin work at least 5 working days before work is begun. The Contractor shall cooperate with local public safety authorities relative to handling traffic through the area and shall make its own arrangements relative to keeping the working area clear of parked vehicles.

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

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

Minor deviations from the requirements of this section concerning hours of work which do not significantly change the cost of the work may be permitted upon the written request of the Contractor if in the opinion of the Engineer public traffic will be better served and the work expedited. Such deviations shall not be implemented until the Engineer has issued written approval. All other modifications will be made by Contract Change Order.

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10.05 EXISTING FACILITIES

Existing facilities which are to remain in place shall be protected in conformance with the provisions in Sections 5-1.36, "Property and Facility Preservation," 7-1.05, "Indemnification," and 7-1.06, "Insurance" of the Standard Specifications.

10.06 WATERING

Watering shall conform to the provisions in Section 10-6, "Watering," of the Standard Specifications.

10.07 LINES AND GRADES

Lines and grades shall conform to the provisions in the Standard Specifications and these special provisions except that the Contractor shall be responsible for setting all lines and grades necessary to establish the lines and grades required for the completion of the work specified in these specifications, on the plans, and in the special provisions.

The City shall not provide these services. The Contractor shall be responsible for the accuracy of his/her own layout and staking work. The Contractor shall be responsible for the preservation of all established signal lines, grades, and layout points. Stakes damaged or destroyed by the Contractor, his/her employees, subcontractors, utility company employees, or the public shall be replaced by the Contractor at the Contractor's expense. Signal pole, cabinet, and striping locations shall be verified by the City prior to installation.

Full compensation for compliance with this section shall be considered included in the various items of work and no additional compensation shall be allowed.

10.08 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES

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

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

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

SECTION 11
TECHNICAL ITEM PROVISIONS

11.01 MOBILIZATION

This work shall conform to the provisions in Section 9-1.16D, "Mobilization," of the Standard Specifications, and shall consist of preparatory work and operations, including but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of all offices, buildings and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

Measurement and Payment-

The contract lump sum (LS) price paid for "Mobilization" shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in mobilization as specified herein. Partial payment for mobilization shall be made consistent with Section 9-1.16D, "Mobilization," of the Standard Specifications.

11.02 TRAFFIC CONTROL SYSTEM AND CONSTRUCTION AREA SIGNS

This work shall conform to the provisions in Section 12, "Temporary Traffic Control," of the Standard Specifications and the provisions under "Maintaining Traffic" elsewhere in the special provisions, and shall consist of installing traffic and pedestrian signing, delineators, fencing, barricades, temporary base rock or plywood walkways, temporary driveways and flaggers as necessary to maintain safe passage, and in conformance with these special provisions.

Walkways shall be open to pedestrian traffic at all times. The Contractor shall provide and install temporary fencing, signing and ramping to provide safe pedestrian traffic through the project site and shall maintain safe access to all properties at all times.

The Contractor shall submit a Traffic Control Plan at least 5 working days to the Engineer prior to beginning construction operations. The Contractor shall revise and resubmit the Traffic Control Plan until it is approved by the Engineer. The Contractor shall not begin work without an approved Traffic Control Plan.

The roadway shall be open to emergency vehicles at all times. The Contractor shall provide vehicular access to all residences and businesses at all times except when concrete, asphalt, or grading work is actively in progress next to driveway(s). The Contractor shall provide vehicular access to all residences and businesses at all times during non-working hours. When work is not actively in progress the full width of the traveled way shall be open for traffic.

The Contractor shall comply with regulatory requirements for closure of streets. At least 48 hours in advance of closing any street, alley, or other public thoroughfare, the Contractor shall notify the Police and Fire Departments, and shall comply with their requirements.

The Contractor shall notify the following waste disposal and recycling company at least 2 working days prior to performing construction operations:

Green Waste Recovery, Inc.

Telephone: (831) 768-9505 or (800) 665-2209

No streets shall be closed or construction operations done on day of waste disposal and recycling collection.

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

Construction area signs shall conform to the provisions of Section 12-3.11, "Construction Area Signs," of the Standard Specifications. Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes. Locations of signs shall be approved by the Engineer prior to their placement.

Temporary "No Parking" signs shall be attached to existing poles, street light standards or parkway trees. Temporary "No Parking" signs shall conform to the provisions in Section 12.3.11B, "Portable Signs," of the Standard Specifications. The signs shall be in place not less than 48 hours prior to starting work. Signs shall be posted at a maximum of 200 feet between signs.

Message signs notifying the public of the period of construction shall be installed at least 5 working days prior to start of construction at each end of the street and at the leg of each intersection.

The Contractor shall conduct all construction operations with the least possible obstruction and inconvenience to the public. The Contractor shall have no greater length or amount of work under construction than can be completed within a workday.

The Contractor shall provide access to all intersecting streets and properties whenever possible. If access to any property cannot be provided, then parking shall be provided and maintained until access can again be restored. If it is necessary to restrict access to certain driveways for an extended period of time, the Contractor shall notify the affected residents in writing at least 48 hours in advance.

The Contractor shall minimize the disruption to traffic by:

1. Permitting traffic to pass with the least possible inconvenience or delay.
2. Maintaining existing driveways and keeping them open and in safe condition at all times.
3. Removing or repairing any condition impeding traffic or creating a hazard.
4. Keeping existing traffic signal and roadway lighting systems in operation.

The Contractor shall protect property owner right of way by:

1. Providing the least possible inconvenience or delay.
2. Maintaining access to property.
3. Notifying in writing property owners at least 10 calendar days and again in 48 hours in advance of construction operations.

The Contractor shall be responsible for providing safeguards, safety devices, protective equipment, and any other needed actions to protect life, health, and safety of the public, and to protect property in connection with its construction operations.

The full width of the traveled way shall be open for use by traffic on Saturdays, Sundays and designated legal holidays, and when construction operations are not in progress.

The Contractor may request in writing to the Engineer deviation from the requirements of these special provisions. Such deviation shall not be implemented until the Engineer has issued written approval.

The adjustment provisions in Section 4.1.05, "Changes and Extra Work," of the Standard Specifications shall not apply to the item of traffic control system. Any adjustment in compensation for traffic control systems due to an increase or decrease in the amount of traffic control system required by changes ordered by the Engineer will be made on the basis of the cost of the increased or decreased traffic control necessary. Such adjustment will be made based on provisions in Section 4-1.05, "Changes and Extra Work," of the Standard Specifications for increased work.

Measurement and Payment-

The contract lump sum price (LS) paid for "Traffic Control System" and "Construction Area Signs" shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in preparing and revising the Traffic Control Plan, placing, removing, storing, maintaining, relocating, replacing, and disposing of the components of the traffic control system, including supervision, as shown on the approved Traffic Control Plan, and for doing all the work involved in placing, maintaining, and removing construction area signs, special signs and barricades as shown on the approved Traffic Control Plan, including compliance with the provisions in Section 12, "Temporary Traffic Control," of the Standard Specifications.

11.03 SURVEY AND CONSTRUCTION STAKING

The Contractor shall provide field surveying services to establish elevations and slopes required to layout the Upper Village Parking Lot Sidewalk Improvements. All Field Surveying work shall be considered included in the price bid for "Surveying and Construction Staking" and no additional compensation will be allowed.

The Contractor shall employ a civil engineer or land surveyor registered in the State of California to perform site surveying and construction staking to establish line and grade. Construction surveys shall comply with Section 5-1.24, "Construction Surveys," of the Standard Specifications and these special provisions except that the Contractor shall be responsible for setting all lines and grades necessary to establish the lines and grades required for the completion of the work specified on the Plans, and in these special provisions.

Contractor is to use the control monuments, horizontal and vertical datum as specified on the plans. Contractor must independently verify the primary horizontal and vertical control and inform the Engineer of any significant differences between the provided values and found values.

Contractor will use said primary control to set such stakes or marks as it determines necessary to establish the line and grades required for the performance of the work specified in the Contract. Contractor is responsible for all construction staking on the project.

Contractor shall notify the Engineer of any conflicts between the design and existing conditions and submit a Request for Information (RFI) before commencing survey.

Contractor shall maintain a complete and accurate log of control, and all survey field notes. Name of firm, job description, party chief, crew members, and date of survey shall appear on all field notes and cut sheets.

Contractor shall notify the Engineer of any existing monuments which will be disturbed or destroyed during the course of construction and Contractor will be responsible – and bear the full costs - for tying out the existing monuments and setting new monuments, per the Professional Land Surveyors' Act, Business and Professions Code Section 8771 through 8773, and to the requirements of the County Surveyor of the County of Santa Cruz.

Attention is also directed to Section 8771 of the California Business and Professions Code for the requirements concerning survey monumentation. Existing survey monuments shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer prior to construction operations, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Cruz. Existing survey monuments shall be reset to finish grade, and a corner record or record of survey shall be filed with the County Surveyor of the County of Santa Cruz prior to the recording of the certificate of completion for the project.

Contractor shall place new monuments (when possible) in a location to minimize traffic exposures for surveyors. Existing monuments to be replaced by the new monuments shall be removed and disposed of by the Contractor. New monuments shall be established before existing monuments are removed so that vertical and horizontal control shall be available at all times.

Upon completion of construction the contractor shall perform an as-built survey of the pathway improvements and submit a letter to the Engineer certifying the elevation and grades are consistent with the plans and meet the latest CBC ADA Code requirements.

Measurement and Payment-

The contract lump sum (LS) price paid for "Surveying and Construction Staking" shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in surveying and construction staking, and no additional allowance will be made therefore.

11.04 TEMPORARY WATER POLLUTION CONTROL AND EROSION CONTROL

This work shall conform to the provisions in Section 13, "Water Pollution Control", Section 21, "Erosion Control," of the Standard Specifications and these special provisions and shall consist of the preparation for developing and implementing a Water Pollution Control Program and installing temporary best management practices (BMPs).

The Contractor shall submit a Water Quality Control Plan that identifies the specific facilities and slopes to be protected, BMP's to be implemented, and meets all NPDES requirements in conformance with the Section 13-2, "Water Pollution Control Program", of the Standard Specifications.

The Contractor shall comply with all appropriate Best Management Practices and applicable design recommendations of the Engineer and Regional Water Quality Control Board (RWQCB) for preventing and removing pollutants, specifying erosion control measures, including sedimentation basins, infiltration basins, and re-vegetation of graded slopes.

Construction water quality control measures shall include the following:

1. Existing vegetation shall be retained where possible,

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2. Grading activities will be limited to the immediate area required for construction,
3. Erosion control measures such as silt fences, staked straw bales, and temporary re-vegetation shall be employed for disturbed areas to prevent soil, dirt and debris from entering the storm drain system;
4. No disturbed surfaces shall be left without erosion control measures in place during the winter and spring months; Sediment shall be retained onsite by a system of sediment basins, traps, or other appropriate measures;
5. Measures shall be taken to ensure proper collection and disposal of all pollutants handled or produced on the site during construction, including sanitary wastes, cement, and petroleum products;
6. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

Maintenance:

1. Repair of BMP deficiencies caused by soil erosion or construction must begin within 72 hours of identification and completed as soon as possible.
2. Water pollution control materials such as, but not limited to silt fence and fiber rolls, shall be stockpiled on the site in sufficient quantities to stabilize any BMP deficiencies within 24 hours prior to a forecasted rain event. The Contractor shall replenish stockpiled materials as required to quickly install measures prior to forecasted rain event.
3. The Contractor shall have adequate labor on hand to install and maintain water pollution control measures within 24 hours following notification by the Engineer or before the forecasted rain, whichever is sooner.

Good Housekeeping:

1. Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized, including the implementation of “good housekeeping” source control measures. Contractor shall comply with WPCP, state and local laws concerning pollution abatement.
2. Extreme care shall be taken when hauling any earth, sand, gravel, stone, debris, or any other substance over any public street. Occurrences of material blown, spilled, or tracked over and upon said public or adjacent private property are prohibited and shall be immediately remedied. Discharge of debris is prohibited.
3. All paved areas shall be kept clear of earth material and debris. The site shall be maintained so as to prevent sediment-laden runoff to any storm drainage system, including existing drainage swales and watercourse.
4. Contractor shall install and maintain construction entrances prior to commencement of grading. All construction vehicle traffic entering onto the paved roads must cross stabilized construction entrance ways as specified in the CASQA BMP Handbook Portal. Tracking of mud or debris onto public streets, or onto adjacent public or private property, is prohibited and shall be removed immediately as required by the Engineer.
5. Staging and work areas shall be kept orderly with neat stockpiling of construction materials. Measures shall be installed at the entrance and exits of staging and work areas to control mud from entering the roadway pavement.

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6. No earthen materials shall be stockpiled within 25 feet of drainage inlets. All stockpiles of earthen materials shall have appropriate erosion control measures installed to abate and control erosion, as well as perimeter sediment controls.

7. Sanitary facilities shall be maintained on the site in a manner to prevent inadvertent discharge or leakage of sanitary wastes into the storm drain system either by placing sanitary facilities in locations that do not drain to the storm drain system and by providing secondary containment systems to capture leaked wastes.

8. Contractor shall provide dust control as required by the appropriate federal, state, and the City of Capitola requirements.

Erosion and Sediment Control Measures

Grading and Earthwork:

1. Protect areas which have been cleared and grubbed prior to excavation or embankment operations, and which are subject to runoff.

2. If the earthwork in any area has not progressed to a point where all or part of the facilities on the WPCP for that area can be constructed, the Contractor shall construct such supplementary temporary erosion control facilities as are necessary to protect adjacent private and public property at all time.

3. Water pollution control measures shall be constructed and functioning to prevent water pollution from areas where portions of the contract have been completed and no further earthwork is planned.

Inlet Protection:

1. The Contractor shall conduct his operations in such a manner that storm runoff will be contained within the project or channeled into the storm drain system which serves the runoff area. Storm runoff from one area shall not be allowed to divert to another runoff area.

2. Active drainage inlets where runoff is likely to go shall have drainage inlet protection installed around the immediate perimeter of the inlet. The perimeter of each individual work area shall have measures installed to control sediments that would otherwise leave the work area and enter the drainage system. Regular cleaning of gravel bag inlet protection so that sediment depth never exceeds a maximum of 3 inches.

3. If there is no active drainage system within each individual work area, the Contractor shall submit a WPCP proposing measures to de-silt and remove runoff from active construction areas. This may include the use of sediment basins, sediment traps and a pumping system to remove de-silted runoff from basins or traps.

4. Construction shall conform to the provisions of Section 13, "Water Pollution Control", and Section 21, "Erosion Control", of the Standard Specifications and to these special provisions.

Temporary Drainage Inlet Protection:

1. Temporary drainage inlet protection shall be installed, maintained and later removed as shown on the Plans, as specified in these technical specifications. Temporary drainage inlet protection shall be installed at each drainage system box location where runoff will enter the storm water system.

2. The Contractor shall use temporary drainage inlet protection as one of the various measures to prevent water pollution.

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Temporary Gravel Filled Bag Dikes:

1. Temporary gravel filled bag dikes consisting of gravel bags placed in multiple layers shall be installed as shown on the plans.
2. Gravel filled bag dikes installed as part of temporary drainage inlet protection shall be maintained to provide for adequate sediment holding capacity. Sediment deposits shall be removed when the deposit reaches one-half of the temporary dike height. Removed sediment shall be deposited within the project in such a way that it is not subject to erosion by wind or water.

Stockpiles

1. Stockpiled material shall be located within the limits of construction delineated on the erosion control plan. Soils from the stockpile shall be self-contained and remain completely separate at all times. Contractor shall install weighted fiber rolls around the perimeter of the stockpile. The stockpile shall be covered with MIRAFI 140N or approved tarp material that is securely weighted around the entire perimeter with gravel bags.
2. All stockpiled materials shall be removed from the site prior to final inspection.

Street Sweeping

1. Maintain continuous street sweeping operation during all earth hauling operations. Dry brooming is not permitted. Street sweeping shall be conducted where sediment is tracked from the job site onto paved roads in accordance with the CASQA BMP Handbook.
2. Street sweeping shall start at the beginning of clearing and grubbing and shall continue until completion of the project. Street sweeping shall be performed immediately after soil disturbing activities occur or offsite tracking of material is observed, at a minimum frequency of daily.
3. Street sweeping shall be performed so that dust is minimized. If dust generation occurs during sweeping or sediment pickup is ineffective as determined by the Engineer, the use of additional best management practices will be required.
4. At the option of the Contractor, collected material may be temporarily stockpiled in accordance with the approved WPCP. Collected material shall be disposed of at least once per week.

Measurement and Payment-

The contract lump sum (LS) price paid for "Temporary Water Pollution Control and Erosion Control" shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and no additional allowance will be made therefore.

11.05 RELOCATE STREET LIGHT

The work performed in connection with "Relocate Street Light" shall conform to the provisions in Sections 86, "Electrical Work General" and Section 87 "Electrical Systems" of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-

The quantity for "Relocate Street Light" shall be measured by each (EA) unit as set forth in the Bid Proposal. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work as shown on the plans, as specified in the

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Standard Specifications, and these special provisions and no additional allowance will be made therefore.

11.06 ADJUST ELECTRIC UTILITY VAULT TO GRADE.

The work performed in connection with "Adjust Electric Utility Vault to Grade shall conform to the provisions in Section 78-23 "Adjust Utility Frames, Covers, and Manholes", Section 5-1.30, "Noncompliant and Unauthorized Work," of the Standard Specifications, and shall consist of adjusting or relocating existing water valves and covers to finish grade, and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-

The quantity for "Adjust Electric Utility Vault to Grade" shall be measured by each (EA) unit as set forth in the Bid Proposal. The contract unit price paid shall include full compensation for furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved in adjusting existing water valve covers to finish grade, complete in place, as shown on the plans and these special provisions.

11.07 REMOVE TREE

The work performed in connection with "Remove Tree" shall conform to the provisions in Section 17-2, "Clearing and Grubbing", of the Standard Specifications.

Contractor shall consult with City Arborist prior to construction to determine necessary measures for addressing tree protection, pruning and/or removal. Contractor shall conform to the following provisions for tree root excavation and treatment:

1. Hand excavate sections within 15 feet of tree trunks greater than 12 diameter inches
 - a. Sections where trees are less than 12 diameter inches should be hand excavated within 6 feet of tree trunks
2. Carefully expose roots without damaging bark coverings or shattering wood fibers
 - a. Roots should be located using non-invasive procedures. Exploration can be done either by hand, using small tools, or an AirSpade®. This tool uses compressed air to displace soil without damage to roots.
 - b. Once exposed, the roots can be examined, and determinations can be made regarding the feasibility of root removal or root severance.
 - c. If roots need to be pruned the following procedures shall be employed:
3. Post excavation root pruning is to be performed by skilled labor. Roots are to be pruned cleanly. Bark should adhere to the wood without tearing. Wood fibers should remain intact without shattering. The following tools should be used:
 - a. Hand-pruners
 - b. Loppers
 - c. Handsaw
 - d. Reciprocating saw

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e. Chainsaw

4. When completed, the pruned portions should be covered with burlap or similar material and kept moist until backfilled.

Measurement and Payment-

The quantity for "Remove Tree" shall be measured by each (EA) unit as set forth in the Bid Proposal. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work as shown on the plans, as specified in the Standard Specifications, and these special provisions and no additional allowance will be made therefore.

11.08 EARTHWORK

The work performed in connection with "Grading" shall conform to the provisions in Section 17, "Clearing and Grubbing" and Section 19, "Earthwork" of the Standard Specifications and these special provisions.

Submittals

Test Reports: Submit gradation tests for all furnished material.

Materials

A. Satisfactory Soils: Sand, gravel, friable earth, or non-expansive clays, subject to Testing Laboratory's approval. Fill and backfill material shall be free of organic material, slag, cinders, expansive soils, trash or rubble and stones having maximum dimension greater than 6 inches. Soil shall be free of regulated contaminants as defined by the California Environmental Protection Agency.

B. Unsatisfactory Soils: Expansive and other soils containing organic material, slag, cinders, trash or rubble and stones having maximum dimension greater than 6 inches. Unsatisfactory materials also include soils not maintained within 2 percent of optimum moisture content at time of compaction.

Execution

A. Preparation –

1. Notify the Engineer at least 48 hours before beginning any excavation.

2. Notify Underground Service Alert (USA) at 1-800-227-2600 at least 48 hours before beginning excavation work and have it locate and mark the facilities within the area of excavation. Notify utility companies which do not participate in USA which have underground facilities within the limits of work before beginning excavation work in accordance with each utility's notification requirements and have them locate and mark the facilities within the area of excavation. Keep marking current in accordance with the requirements of USA and other utility companies.

3. Do not proceed with underground installations until related pothole work has been completed. Determine the method and equipment required to perform potholing without damage to existing facilities. Locate existing facilities by hand digging where necessary. At a minimum, the Contractor shall utilize hand digging where recommended by Call USA guidelines. In addition to hand digging, the Contractor shall use means of potholing required by the facility owner and the Engineer.

4. Notify the Engineer immediately of any conflicts in which there is less than one foot of separation between the existing and proposed facility.

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5. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

6. Preparation of subgrade for earthwork operations including removal of vegetation, topsoil, debris, obstructions, and deleterious materials from ground surface shall conform to Section 16, "Clearing and Grubbing" of the Standard Specifications.

7. Protect and maintain erosion and sedimentation controls, as specified in Section 10-2.06, "Temporary Water Pollution Control and Erosion Control" of these special provisions.

B. Excavation

1. **Unclassified Excavation:** Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered, except as directed by the Engineer based upon the Contractor's arborist recommendations. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

2. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

3. **Excavation Drainage:** Operate pumping equipment, and/or provide other materials, means and equipment as required to keep excavation free of water and subgrade dry, firm, and undisturbed until approval of permanent work has been received from Resident Engineer. Approval by the Engineer is also required before placement of the permanent work on all subgrades.

C. Excavation for Walks and Roadway Pavements-

1. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

2. Below proposed roadway pavement scarify and re-compact top 8" thick minimum native soil to 95 percent relative compaction.

D. Excavation for Conduits and Utility Trenches

1. Excavate trenches to indicated gradients, lines, depths, and elevations.

2. Excavate trenches to uniform widths to provide 6 inch clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit, unless otherwise indicated.

3. **Trench Bottoms:** Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.

4. Excavate trenches at least 6 inches deeper than elevation required in rock or other unyielding bearing material, at least 4 inches deeper elsewhere, to allow for bedding course.

E. Subgrade Inspection

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1. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

2. Reconstruct subgrades damaged by rain, accumulated water, or construction activities, as directed by Engineer, without additional compensation.

F. Storage of Soil Materials

1. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

2. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

G. Utility Trench Backfill

1. Place backfill on subgrades free of mud and standing water.

2. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

3. Place and compact initial backfill of satisfactory soil, free of particles larger than 1 inch in any dimension, to a height of 12 inches over the utility pipe or conduit.

4. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

5. Place and compact final backfill of satisfactory soil to final subgrade elevation.

6. Install warning tape directly above utilities, minimum 6 inches above top of pipe, minimum 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

H. Soil Moisture Control

1. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.

2. Do not place backfill or fill soil material on surfaces that are muddy.

3. Remove and replace, or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

I. Compaction of Soil Backfills and Fills

1. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

2. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.

3. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:

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4. Retain applicable subparagraphs below. Percentages of maximum dry unit weight are examples only; revise to suit Project.
 5. Under pavements, scarify and re-compact top 8 inches of existing subgrade and each layer of backfill or fill soil material to 95 percent.
 6. Under walkways, scarify and re-compact top 8 inches below subgrade and compact each layer of backfill or fill soil material to 95 percent.
 7. Under lawn or unpaved areas, scarify and re-compact top 8 inches below subgrade and compact each layer of backfill or fill soil material to 85 percent.
 8. For utility trenches, compact each layer of initial and final backfill soil material to 95 percent.
- J. Grading
1. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 2. Site Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within tolerances specified in Section 19-1.03C, "Grade Tolerance" of the Standard Specifications.
- K. Base Courses
- A. Place base course on subgrades free of mud, and standing water frost, snow, or ice.
 - B. On prepared subgrade, place subbase and base course under pavements and walks as follows:
 - a. Shape base course to required crown elevations and cross-slope grades.
 - b. Compact base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 90 percent of maximum dry unit weight according to ASTM D 1557.
- L. Field Quality Control
1. Testing Agency: Contractor will engage a qualified independent geotechnical engineering testing agency to perform field quality-control testing.
 2. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.
 3. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Engineer.
 4. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.
 5. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil to depth required; compact and retest until specified compaction is obtained.
- M. Protection

1. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
2. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
3. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
4. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

N. Disposal of Surplus and Waste Materials

1. Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris, and legally dispose of it.

Measurement and Payment-

Full compensation for conforming to the provisions of this section shall be considered as included in the various contract items, and no additional allowance will be made therefore.

11.09 REMOVE THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKING

The work performed in connection with “Remove Thermoplastic Traffic Stripe and Pavement Marking” shall conform to the provisions in Sections 10-1.02D “Traffic Stripes, Pavement Markings, and Pavement Markers”, and 84-2, “Traffic Stripes and Pavement Markings” of the Standard Specifications and shall consist of removing existing traffic stripe, pavement markings and pavement markers, and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-

Full compensation for conforming to the provisions of this section shall be considered as included in the various contract items, and no additional allowance will be made therefore.

11.10 ROADWAY EXCAVATION

The work performed in connection with “Roadway Excavation” shall conform to the provisions in Section 15, “Existing Facilities,” and Section 19-2, “Roadway Excavation” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Work included in “Roadway Excavation” shall include, but not be limited to:

1. Sawcutting – Asphalt and Concrete Pavement.
2. The removal and disposal of existing asphalt pavement, PCC sidewalks, PCC pavement, curb and gutter, dikes and as identified on the plans.
3. Excavating and off-hauling demolished material.
4. Removal and disposal of other materials necessary to accommodate the proposed work, including but not limited to:
 - a. Roadside signs and delineators

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- b. Existing vegetation
- c. Other items not shown on the plans.

Contractor shall take precautionary measures to protect the existing improvements and landscaping to remain in place. Replacement and/or repair of these existing improvement resulting from damage by the Contractor will be done at the Contractor's sole expense.

Prior to demolition Contractor shall inspect the site to confirm limits and removal as shown on the plans. The drawings do not purport to show all objects existing on the site. Before commencing the demolition work, the Contractor shall verify with the Engineer all objects to be removed and all objects to be preserved.

Contractor shall provide the protections necessary to prevent damage to existing improvements, and existing utilities, indicated to remain in place. Contractor shall protect improvements and landscaping on adjoining properties. All damaged improvements and landscaping shall be replaced or restored to their original condition at the Contractor's sole expense in conformance with Section 5-1.39 "Damage Repair and Restoration," of the Standard Specifications.

Contractor shall sawcut asphalt and concrete pavement in a neat line along the edge of the portions to remain prior to removal. Sawcuts shall be smooth and vertical.

All concrete, AC pavement, and aggregate base shall be hauled off site and disposed of in a legal matter at the Contractor's sole expense.

Measurement and Payment-

The contract unit price paid per cubic yard (CY) for "Roadway Excavation" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved "Roadway Excavation" as shown on the plans and as specified in the Standard Specifications and these special provisions.

11.11 COLD PLANE ASPHALT CONCRETE PAVEMENT

The work performed in connection with "Cold Plane Asphalt Concrete Pavement" shall conform to the provisions in Section 39-3.04 "Cold Planning Asphalt Concrete Pavement" of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Existing asphalt concrete pavement shall be cold planed at the locations and to the dimensions shown on the plans and as directed by the Engineer.

The cold planing machine shall be equipped with a cutter head not less than 72 inches in width and shall be operated so as not to produce fumes or smoke. The cold planing machine shall be capable of planing the pavement without requiring the use of a heating device to soften the pavement during or prior to the planing operation.

The depth, width and shape of the cut shall be as indicated on the typical cross sections or as directed by the Engineer. The depth of the cut shall be measured from the existing grade at the project edge of pavement. The final cut shall result in a uniform surface conforming to the typical existing cross sections. The outside lines of the planed area shall be neat and uniform. Planing

asphalt concrete pavement operations shall be performed without damage to the adjacent surfacing to remain in place.

The Contractor shall furnish and operate a self-loading motor sweeper with spray nozzles for final clean-up work and shall keep the milled area cleaned and maintained at all times until the street has been resurfaced. Crack sealing operations shall not begin on any street until all grinding operations on that street have been completed.

Temporary HMA tapers shall be provided where transverse joints are planed in the pavement at conform lines. No drop-off shall remain between the existing pavement and the planed area when the pavement is opened to public traffic. HMA for temporary tapers shall be placed to the level of the existing pavement and tapered on a maximum slope of 1V to 30H to the level of the planed area.

HMA for temporary tapers shall be of commercial quality and may be spread and compacted by any method that will produce a smooth riding surface. Temporary HMA tapers shall be completely removed, including the removal of all loose material from the underlying surface, before placing the permanent surfacing. The removed material shall be disposed in accordance with local and state laws and regulations. Operations shall be scheduled so that not more than 10 days shall elapse between the time when transverse joints are planed in the pavement at the conform lines and the permanent surfacing is placed at the conform lines.

Measurement and Payment-

Full compensation for conforming to the provisions of this section shall be considered as included in the various contract items, and no additional allowance will be made therefore.

11.12 AGGREGATE BASE (CLASS 2)

The work performed in connection with "Aggregate Base (Class 2)" shall conform to the provisions in Section 26, "Aggregate Bases," of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-

The contract unit price paid per cubic yard (CY) for "Aggregate Base (Class 2)" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing "Aggregate Base (Class 2)" complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

11.13 HOT MIX ASPHALT

The work performed in connection with "Hot Mix Asphalt" shall conform to the provisions in Section 39-2 "Hot Mix Asphalt" of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Measurement and Payment-

The contract unit price paid per TON for "Hot Mix Asphalt" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in placing "Rubberized Hot Mix Asphalt" complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

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11.14 MINOR CONCRETE

The work performed in connection with “Minor Concrete” shall conform to the provisions in Sections 73, “Concrete Curbs and Sidewalks” and 90 “Concrete” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Work included in “Minor Concrete” shall include, but not be limited to:

1. Curb and Gutter
2. Sidewalk
3. Curb Ramp
4. Retaining Curb

Measurement and Payment-

The contract unit price paid per cubic yard (CY) for “Minor Concrete (Curb and Gutter)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing curb and gutter complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions. The quantity of curb and gutter shall include that portion of the curb and gutter depressed for curb ramps and no additional allowance will be made therefore.

The contract unit price paid per cubic yard (CY) for “Minor Concrete (Retaining Curb)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing curb and gutter complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions. The quantity of curb and gutter shall include that portion of the curb and gutter depressed for curb ramps and no additional allowance will be made therefore.

The contract unit price paid per cubic yard (CY) for “Minor Concrete (Sidewalk)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the item complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

The contract unit price paid per cubic yard (CY) for “Minor Concrete (Curb Ramp)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the item complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

11.15 MINOR CONCRETE (BUS BAY)

The work performed in connection with “Minor Concrete (Bus Bay)” shall conform to the provisions in Sections 40 “Concrete Pavement” and 90 “Concrete” of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Portland cement concrete (P.C.C) pavement with monolithic curb and gutter shall be class A with a flexural strength f 650 psi at the age of 28 days to be determined by Test Method ASTM C78. Polypropylene fibers (Fibermesh or approved equal), length $\frac{1}{2}$ ”, shall be added to the concrete at a rate of $1 \frac{1}{2}$ lbs/cy.

After spreading and compacting, P.C.C concrete shall be given a preliminary finish, which shall be smooth and true to grade. In advance of curing operations, the pavement shall be given a final rough broom finish with grooves having a depth of 1/8" perpendicular to the curb and gutter.

All newly – placed concrete shall be cured in accordance with the provisions in Section 90-1.03B "Curing Concrete," of the State Standard Specifications. Curing compound to be used shall be applied to the P.C.C. following the surface finishing operations immediately before the moisture sheen disappears from the surface and before any drying, shrinkage or craze cracks begin to appear. Curing compound shall be applied at a nominal rate of one gallon per 150 square feet. At any point, the application rate shall be within +/- 50 square feet per gallon of the nominal rate specified.

Sawcutting of the contraction joints must be performed within 24 hours after concrete has received final surface finish.

Contractor shall protect P.C.C Pad as specified in Section 90-1.03, "Protecting Concrete." Where public traffic will be required to cross over new pavement, and if directed by the Engineer, Type III Portland Cement shall be used in concrete. When Type III Portland Cement is used in concrete, and if permitted in writing by the Engineer, the pavement may be opened to traffic as soon as the concrete has developed a modulus of rupture of 550 pounds per square inch. The modulus of rupture will be determined by Test Method ASTM C78.

No traffic or Contractor's equipment, except as hereinafter provided, will be permitted on the pavement before a period of ten (10) calendar days has elapsed after the concrete has been placed, nor before the concrete has developed a modulus of rupture of at least 550 pounds per square inch. Concrete that fails to attain a modulus of rupture of 550 pounds per square inch within 10 days shall not be opened to traffic until directed by the Engineer.

Equipment for sawing contraction joints (weakened plane joints) will be permitted on the pavement as specified in Section 40-1.08B, "Weakened Plane Joints," of the State Standard Specifications.

Contraction joints, expansion joints and gaps between the P.C.C. pad and the existing pavement section shall be cleaned and sealed prior to permitting traffic on the pad. Joint sealing compound shall be type "A" joint seal and shall conform to the provisions of Section 51-2 "Joints" of the State Standard Specifications. The 2-component polyurethane sealant shall be State Specification 8030-61J-01 or approved equal.

Measurement and Payment-

The contract unit price paid per cubic yard (CY) for "Minor Concrete (Bus Bay)" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the item complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

11.16 DETECTABLE WARNING SURFACE

The work performed in connection with "Detectable Warning Surface" shall conform to the provisions these special provisions and shall consist of constructing detectable warning surfaces conforming to the designs and details shown on the plans.

Detectable warning surface (truncated domes) shall be:

- A. Yellow color complying with Federal Standard 595B, Color No. 33538

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- B. Prefabricated
- C. Raised truncated domes, complying with Caltrans Standard Plan A88A
- D. Cast-in-place tiles

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

Detectable warning surface (truncated domes) shall be installed to the dimensions shown on the plans, and as specified in these technical specifications.

The finished surfaces of the detectable warning surface shall be free from blemishes. Installation of detectable warning surface shall comply with the manufacturer's specifications and recommendations.

Measurement and Payment-

The contract unit price paid per square foot (SQFT) for "Detectable Warning Surface" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the item complete in place as shown on the plans and as specified in the Standard Specifications and these special provisions.

11.17 THERMOPLASTIC TRAFFIC STRIP AND PAVEMENT MARKINGS

The work performed in connection with "Thermoplastic Traffic Stripe" and "Thermoplastic Pavement Marking" shall conform to the provisions in Section 84-2, "Traffic Stripes and Pavement Markings," of the Standard Specifications and shall consist of reinstalling thermoplastic stripes, pavement markings, glass beads, and in conformance with designs and details shown on the plans and these special provisions.

Paint traffic stripes (traffic lines) and pavement markings in accordance with the provisions in Sections 84-1, "General," and 84-2, "Traffic Stripes and Pavement Markings," of the Standard Specifications and as indicated on the Plans.

Thermoplastic material for pavement markings shall be applied at a thickness of 0.100-inch. Thermoplastic pavement markings shall not be installed on pavement markers, manhole and water valve covers, survey monuments, and any utility facilities. Crosswalk markings near schools shall be yellow thermoplastic marking per California MUTCD and CVC 21368.

Replace section 84-1.03:

Cat tracking approval is required. City needs 48 hours' notice and 48 hours to review.

Measurement and Payment-

The contract unit price paid per linear foot (LF) for "Thermoplastic Traffic Stripe" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the thermoplastic traffic stripe in place as shown on the plans and as specified in the Standard Specifications and these special provisions and no additional allowance will be made therefore.

The payment quantity for a traffic stripe is the length measured along the line of the traffic stripe without deductions for gaps in the broken traffic stripe. A double extruded thermoplastic traffic stripe consisting

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of two 6-inch-wide yellow stripes is measured as 2 traffic stripes. A double sprayable thermoplastic traffic stripe consisting of two 6-inch-wide yellow stripes is measured as 1 traffic stripe. A double traffic stripe consisting of two 6-inch-wide yellow stripes separated by a 3-inch-wide black stripe is measured as a single traffic stripe.

The contract unit price paid per square foot (SQFT) for "Thermoplastic Pavement Marking" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the thermoplastic traffic stripe in place as shown on the plans and as specified in the Standard Specifications and these special provisions and no additional allowance will be made therefore.

Thermoplastic material applied in excess of the thickness specified herein these special provisions shall not be paid for.

11.18 THERMOPLASTIC PAVEMENT MARKING (GREEN)

The work performed in connection with "Thermoplastic Pavement Marking (Green)" shall conform to the provisions in Section 84-2, "Traffic Stripes and Pavement Markings," of the Standard Specifications and shall consist of reinstalling thermoplastic stripes, pavement markings, glass beads, and in conformance with designs and details shown on the plans and these special provisions.

General-

- A. Use a durable, high skid resistant, retroreflective pavement marking material suitable for use as bike path, roadway, intersection, airport, commercial, or private pavement delineation and markings.
- B. The material shall be a resilient light green color thermoplastic product, the surface of which must contain glass beads and abrasives in an alternating pattern optimizing both skid resistance and retro reflectivity.
- C. The material shall be resistant to the detrimental effects of motor fuels, lubricants, hydraulic fluids etc.
- D. The material shall be capable of being affixed to bituminous and/or Portland cement concrete pavements by the use of the normal heat of a propane torch.
- E. The material shall be capable of conforming to pavement contours, breaks and faults through the action of traffic at normal pavement temperatures. The markings shall have resealing characteristics, such that it is capable of fusing with itself and previously applied thermoplastic.
- F. The material shall not have minimum ambient and road temperature requirements for normal application, storage, or handling. When manufacture's standard application procedures require the use of a 2-component sealer, the material shall be capable of being applied with a compatible 2-component sealer recommended by the manufacturer, at a minimum ambient and surface temperatures of 45 degrees Fahrenheit without any special storage, preheating, or treatment of the material before application.
- G. The manufacturer must be ISO 9001:2008 certified and provide proof of current certification. The scope of the certification shall include manufacture of reflective highway markings.

Materials-

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A. The pavement marking material must be composed of an ester modified resin resistant to degradation by motor fuels, antifreeze, lubricants, etc. in conjunction with aggregates, pigments, binders, abrasives, and glass beads which have been factory produced as a finished product and meets the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways. The thermoplastic material shall conform to AASHTO designation M249-79 (98) with the exception of the relevant differences due to the material being supplied in a preformed state.

B. Graded Glass Beads:

1. The material must contain a minimum of thirty percent (30%) intermixed graded glass beads by weight. The intermixed beads shall be clear and transparent. Not more than twenty percent (20%) consists of irregular fused spheroids, or silica. The index of refraction shall not be less than 1.50.
2. The material must have factory applied coated surface beads and abrasives in addition to the intermixed beads at a rate of ½ lb. (± 20%) per 11 square feet. The surface beads and abrasives must be applied in an alternating arrangement across the surface of the material so that the surface is covered in what is best described as a “checkerboard” pattern of glass beads and abrasive materials. The abrasive material must have a minimum hardness of 7 (Mohs scale). The factory applied coated surface beads shall have the following specifications:
 - i. Minimum 80% rounds
 - ii. Minimum refractive index of 1.50
 - iii. Minimum SiO2 content of 70%
 - iv. Maximum Iron content of 0.1%

Size Gradation		% Retained	% Passing
US Mesh	Um		
12	1700	0-2	98-100
14	1400	0-6	94-100
16	1180	1-21	79-99
18	1000	28-62	38-72
20	850	62-71	29-38
30	600	67-77	23-33
50	300	86-95	5-14
80	200	97-100	0-3

C. Pigments (Light Green):

1. The material shall be manufactured with appropriate pigment to ensure that the resulting colors complies with the Light Green color as specified in the FHWA Memorandum dated

April 15th, 2011: Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes (IA-14)

2. Daytime chromaticity coordinates for the color used for green colored pavement shall be as follows:

1		2		3		4	
X	Y	X	Y	X	Y	X	Y
0.230	0.754	0.226	0.500	0.367	0.500	0.444	0.555

3. Night time chromaticity coordinates for the color used for green colored pavement shall be as follows:

1		2		3		4	
X	Y	X	Y	X	Y	X	Y
0.230	0.754	0.336	0.540	0.450	0.500	0.479	0.520

4. The pigment system must not contain heavy metals or any carcinogen, as defined in 29 CFR 1910.1200 in amounts exceeding permissible limits as specified in relevant Federal Regulations.

- D. Heating Indicators: The top surface of the material shall have regularly spaced indents. The closing of these indents during application shall act as a visual cue that the material has reached a molten state allowing for satisfactory adhesion and proper bead embedment and as a post-application visual cue that the application procedures have been followed.
- E. Skid Resistance: The surface of the preformed retroreflective marking materials, wherein every other shaped portion contains glass beads, or abrasives with a minimum hardness of 7 (Mohs scale), shall upon application provide a minimum skid resistance value of 60 BPN when tested according to ASTM: E 303.
- F. Thickness: The material must be supplied at a minimum thickness of 90 mils (2.29 mm)
- G. Retroreflectivity: The preformed retroreflective marking materials, upon application, shall exhibit adequate and uniform night time retroreflectivity of 50 mcd-m-2-lx-1 when measured using a Delta LTL 2000 or LTL-X Retroreflectometer using the ASTM E1710 method. Note: Initial retroreflection and skid resistance are affected by the amount of head applied during installation. When ambient temperatures are such that greater amounts of heat are required for proper installation, initial retroreflection and skid resistance levels may be affected.
- H. Environmental Resistance: The material must be resistant to deterioration due to exposure to sunlight, water, salt, or adverse weather conditions and impervious to oil and gasoline.
- I. Abrasives: The abrasives and surface beads must be applied in an alternating arrangement across the surface of the material so that the surface is covered in what is best described as a “checkerboard” pattern of glass beads and abrasive materials. The abrasive material must have a minimum hardness of 7 (Mohs scale).

- J. Sealer: A two-component sealer must be used for the installation of preformed thermoplastic material.
1. Use a two-component epoxy sealer to enhance the bond strength between the substrate (Portland cement concrete or asphalt) and preformed thermoplastic materials made from resins and/or polymers and inorganic fillers. The sealer must be environmentally friendly and contain no VOC solvents. The sealer must bond to dry and damp surfaces. The sealer must have a low viscosity that allows it to penetrate into concrete and in particular penetrate through laitance, if present.
 2. To allow application area to be re-opened to traffic, the sealer must cure rapidly. During a normal application process the sealer will have cured and bonded to the preformed thermoplastic material in less than 10 minutes. To allow for work time for corrective positioning of the performed thermoplastic material, the sealer must have a gel time of at least 20 minutes at 80 degrees Fahrenheit

Application-

- A. Asphalt: The material shall be capable of being applied using the propane torch method recommended by the manufacturer, without minimum requirements for ambient and road temperatures, and without any preheating of the pavement to a specified temperature. The material shall be capable of being applied without the use of a thermometer. The pavement shall be clean, dry, and free of debris. Supplier must enclose application instructions with each box/package.
- B. Portland Concrete: The same application procedure shall be used as described under the “Asphalt” section; however, a compatible primer sealer, recommended by the manufacturer, shall be applied to the surface prior to the application of materials to ensure proper adhesion.
- C. Packaging: the preformed thermoplastic markings shall be placed in protective plastic film with cardboard stiffeners where necessary to prevent damage in transit. Linear material must be cut to a maximum of 3-foot long pieces. Legends and symbols must also be supplied in flat pieces. The cartons shall be non-returnable, shall not exceed 40 inches in length and 25 inches in width, and be labeled for ease of identification. The weight of the individual carton must not exceed seventy (70) pounds. A protective film around the box must be applied in order to protect the material from rain or premature aging.
- D. Sealer: The sealer shall be capable of being applied to the substrate either by brush, roller, or sprayer. It shall be capable of being applied in a thin, even, uniform coat. Each cartridge must be properly labeled and packed in a heat-sealed polyethylene bag.

Measurement and Payment-

The contract unit price paid per square foot (SQFT) for “Thermoplastic Pavement Marking (Green)” shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the thermoplastic traffic stripe in place as shown on the plans and as specified in the Standard Specifications and these special provisions and no additional allowance will be made therefore.

Thermoplastic material applied in excess of the thickness specified herein these special provisions shall not be paid for.

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11.19 PAVEMENT MARKERS

The work performed in connection with Pavement Markers shall conform to the provisions in Section 82-5, "Markers", of the Caltrans Standard Specifications, the Caltrans Standard Plans, and these Special Provisions.

Non-reflective pavement markers shall be ceramic.

Adhesive shall be hot melt bituminous adhesive conforming to Section 82-5, "Markers", of the Caltrans Standard Specifications.

Any damage to the newly placed markers due to the failure of the Contractor to protect his/her work and correction of errors shall be repaired by the Contractor at no additional cost.

A blue reflector shall be installed in the center of the traffic lane adjacent to each fire hydrant on all streets within the limits of work. It is the Contractor's responsibility to locate each fire hydrant.

Measurement and Payment-

Full compensation for conforming to the provisions of this section shall be considered as included in the various contract items, and no additional allowance will be made therefore.

11.20 ROADSIDE SIGN

The work performed in connection with "Roadside Sign" and "Relocate Roadside Sign" shall comply with Section 82, "Signs and Markers" and Section 15, "Existing Facilities," of the Standard Specifications, the 2014 California Manual on Uniform Traffic Control Devices (MUTCD) Revision 3, and in conformance with designs and details shown on the plans and these special provisions.

Submittals

A. Certificate of compliance shall be provided for all products and materials proposed to be used under this section.

Materials

A. Sign Plates: Roadside sign faces shall be "retro-reflective sheeting material adhered to 0.080 gauge minimum) anodized aluminum blank. The size, shape, color and legend of the sign shall conform to Section 82-2, "Sign Panels" of the Standard Specifications.

B. Sign Posts: Sign Posts and Hardware: As shown on the Plans and specified in Section 82-3, "Roadside Signs," of the Caltrans Standard Specifications.

Execution

A. Remove Roadside Sign

Existing roadside signs and sign posts shall be removed as shown on the plans. Contractor shall coordinate signs to be salvaged with the Engineer. Contractor shall dispose of all roadside signs that are not to be relocated or salvaged at the Contractor's expense.

Existing roadside signs shall not be removed until replacement signs have been installed or until the existing signs are no longer required for the direction of public traffic, unless otherwise directed by the Engineer.

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B. Roadside Sign Relocation and Installation

Contractor shall provide and install roadside signs at locations shown on the Plans. The Contractor shall install new and relocated roadside signs on new posts and with new hardware and footings as detailed on the plans.

Installation and relocation of signs shall comply with Section 82-3, "Roadside Signs," of the Standard Specifications.

C. Roadside Sign to Remain

Contractor shall protect existing signs in place as detailed on the plans. Under direction by the Engineer, existing roadside signs that conflict or obstruct completion of the work shall be temporary removed and substituted with an appropriate temporary construction traffic control device until the existing sign can be reinstalled.

Measurement and Payment-

The quantity for "Roadside Sign" shall be measured by each (EA) unit as set forth in the Bid Proposal. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work as shown on the plans, as specified in the Standard Specifications, and these special provisions and no additional allowance will be made therefore.

Existing roadside signs to remain shown on the plans and specified herein these special provisions shall not be paid for.

11.21 RETAINING WALL TYPE 1 (CAST IN PLACE)

The work performed in connection with "Retaining Wall Type 1 (Cast In Place)" shall conform to the provisions in Sections 19-3, "Structure Excavation and Backfill," 19-5, "Compaction," 51, "Concrete Structures," 52, "Reinforcement, " and 90, "Concrete" of the Standard Specifications and in conformance with designs and details shown on the plans and these special provisions.

Work included in "Retaining Wall Type 1 (Cast In Place)" shall include, but not be limited to:

1. Structure Excavation and Backfill
2. Cast In Place Concrete
3. Bar Reinforcement
4. Guardrail
5. Drainage

Retaining wall reinforcement shall be deformed and comply with ASTM A615, Grade 40 or 60 as allowed in Section 52-1.02B, "Bar Reinforcement" of the Standard Specifications and as shown on the plans. Reinforcement shall be clean and free of rust, dirt, grease or oils. Tie wire shall be 16-gauge plain cold-drawn steel conforming to ASTM A82, clean, and free of rust, dirt, grease or oils.

Measurement and Payment-

The contract unit price per linear foot (LF) paid for "Retaining Wall Type 1 (Cast In Place)" shall include full compensation for providing all labor, materials, equipment, tools, and incidentals and for doing all work involved in installing the retaining wall in place as shown on the plans and as specified in the

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Standard Specifications and these special provisions and no additional allowance will be made therefore.

11.22 SIMME SEAT

The work performed in connection with "Simme Seat" shall conform to the provisions in the Caltrans Standard Specifications, the Caltrans Standard Plans, and these Special Provisions.

Refer to vendor specifications for general installation instructions and hardware material list.

<https://simmeseat.com/installation/>

1. For Simme-Seat installation on an existing sidewalk or other port and cement concrete paving with a minimum thickness of 4 inches, skip to Step 3.
2. For Simme-Seat installation adjacent to existing concrete or at an isolated position away from concrete paving, (Refer to Figure 1, Foundation Installation Instructions, before proceeding with Step 3).
3. With the Simme-Seat support base plate as template, mark the expansion anchor locations and use an impact drill motor and 7/8-inch masonry bit to drill four 2-1/2-inch-deep holes in the concrete sidewalk or prepared foundation.
4. Insert the four provided expansion anchors into the drilled holes and complete their installation according to (Figure 2, Anchor Installation Instructions).
5. Position the Simme-Seat support in place over the expansion anchors, shim as required to level and secure with four machine bolts and flat washers provided.(Refer to Figure 3, Support Installation)
6. Attach the two seat sections to the Simme-Seat support gusset plates with 3/8-inch bolts and lock nuts provided. (Refer to Figure 4, Seat A Assembly).
7. Insert bus stop sign post into the Simme-Seat base support tube, and mark the signpost at the top of the base support tube and at the locations of the two holes in the support tube where the securing thru-bolt connection will be made.
8. Remove the signpost from the base support tube and drill two 3/8" holes at the marked locations for the thru-bolt connection.
9. Remove the backing paper from the provided 1" wide x 7-1/4" long piece of 3M UHMW polyethylene tape and wrap the tape around the signpost, centered at the previously marked location at the top of the support tube. Install the provided finial on top of the signpost, re-insert the signpost into the base support tube, and secure the signpost in place with the 5/16" x 3-1/2" bolt, flat washer and lock nut provided. (Refer to Figure 5, Signpost Installation)

Measurement and Payment-

The quantity for "Simme Seat" shall be measured by each (EA) unit as set forth in the Bid Proposal. The contract unit price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work as shown on the plans, as specified in the Standard Specifications, and these special provisions and no additional allowance will be made therefore.

PART 4: SPECIAL PROVISIONS