



**DEPARTMENT OF ENGINEERING**

**GENERAL PROVISIONS, NOTICE TO BIDDERS,  
SPECIAL PROVISIONS, PROPOSAL AND CONTRACT  
FOR**

**PIONEER CEMETARY IMPROVEMENTS AND VENETRANS MEMORIAL  
PROJECT NO. 158008**

**Bid Opening Date – April 26, 2016**

**2:00 pm**

To be used in conjunction with the City Standard Specifications and Details dated January 2011, the State Standard Specifications and Plans dated May 2006, and the Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished.

APPROVED

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Stephen M. Kirkpatrick  
City Engineer  
No. 53367  
Expires: 6/30/2017

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# NOTICE TO BIDDERS

## Proposals Sought; Time for Receipt

Sealed Bid Proposals will be received at the City Clerk's Office of the City of Pleasanton, Civic Center, 123 Main Street, Pleasanton, CA 94566, until 2:00 P.M., **April 26, 2016**, for work as described in the Plans and Specifications entitled:

## **PIONEER CEMETERY IMPROVMENTS AND VETERANS MEMORIAL PROJECT NO. 158008**

At the above mentioned time, date and address, the Bid Proposals will be publicly opened and read.

### Scope of Work and Project Location

This work will consist of demolition and removal of existing asphaltic concrete drive aisle and curb, clearing and grubbing, installation of new asphaltic concrete paving, concrete paving, stone paving, monument, stone plinths, curb, flag poles, lighting, statue, associated landscape and irrigation modifications, and maintenance of improvements at Pioneer Cemetery, located at 5780 Sunol Blvd.

Prime contractor shall self perform 65% or more of the contract work by dollar amount.

The Engineer's cost estimate for the project is approximately **\$380,000**.

### Copies of Plans and Specifications

Plans, Specifications and all Bid Proposal and Contract Documents may be obtained at the Engineering Department of the City of Pleasanton, Civic Center, 200 Old Bernal Avenue, at a cost of **\$20.00** per set.

### Bid Security and Contract Bonds

Each Bid Proposal shall be accompanied by a cash payment, a cashier's check, or a certified check, amounting to not less than ten percent of the bid, payable to the order of the City of Pleasanton or by a bond for that amount and payable in the form contained in this bid package. The successful Bidder will be required to furnish performance and payment bonds, each in an amount not less than one hundred percent (100%) of the contract price, and a maintenance bond not less than ten percent (10%) of the contract price.

### Bids Received After Deadline

Bids received after the time established for receiving bids will not be considered. Except as provided in Section "Instruction to Bidders," no Bidder may withdraw a bid after the

time established for receiving bids or before the award and execution of the contract, unless the award is delayed for a period of ninety (90) calendar days after the date of the City's opening of bids.

### Rejection of Bids

The City reserves the right to reject any or all bids and to determine which bid is, in the City's judgment, the lowest responsive and responsible bid of a Bidder or group of Bidders. The City also reserves the right to waive any inconsequential omissions or discrepancies in any bid and to delete certain items listed in the bid as set forth therein. Costs for developing, submitting, and presenting bids are the sole responsibility of the Bidder and claims for reimbursement will not be accepted by the City.

### Contractor's License Classification

As provided in California Business & Professions Code Section 7028.15, the City has determined that at the time of bid, the Contractor shall possess a valid **Class A General Engineering Contractor**. The contractor's failure to possess the specified license shall render the Bid as non-responsive and shall act to bar award of the contract to any Bidder not possessing said license at the time of bid, unless exempted by federal or state law.

### Contractor's Department of Industrial Relations Registration

The Bidder and its Subcontractors must be registered and qualified to perform public work pursuant to section 1725.5 of the Labor Code, subject to limited legal exceptions under Labor Code section 1771.1.

This Contract will be subject to compliance monitoring and enforcement by the California Department of Industrial Relations, pursuant to Labor Code section 1771.4.

### Substitution of Securities in Lieu of Retention

At the successful Contractor's option, securities may be substituted for the required retention, in accordance with provisions of Section 22300 of California Public Contract Code.

### Prevailing Wage

In accordance with California Labor Code Sections 1770 et seq., the Contractor shall pay general prevailing rate of per diem wages to all workers employed under this contract.

### Labor Nondiscrimination

The awarded Contractor shall comply with the requirements of the State of California's Standard Specification Code Section 7-1.01A(4) "Labor Nondiscrimination" under this contract.

Questions

Questions should be directed to the project engineer either in person at 200 Old Bernal Avenue, Pleasanton, California, by mail at P.O. Box 520, Pleasanton, California 94566-0802, by phone at (925) 931-5672, or by email at [mgruber@cityofpleasantonca.gov](mailto:mgruber@cityofpleasantonca.gov). Questions will only be answered by reference to particular sections of these bid documents. If interpretation is deemed necessary, then the question shall be addressed in writing and a clarification shall be given to all prospective Bidders through addenda. To allow time for issuance of addenda, questions shall only be accepted prior to seven (7) calendar days before the bid opening date.

CITY OF PLEASANTON

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

By: \_\_\_\_\_  
Karen Diaz, City Clerk

# BID PROPOSAL

## PIONEER CEMETERY IMPROVMENTS AND VETERANS MEMORIAL PROJECT NO. 158008

DATE: \_\_\_\_\_

Proposal of \_\_\_\_\_ (hereinafter called "Bidder") a \_\_\_\_\_ organized and existing under the laws of the State \_\_\_\_\_, doing business as \_\_\_\_\_, to the City of Pleasanton, City Clerk, 123 Main Street, Pleasanton, California (hereinafter called "City").

Ladies and Gentlemen:

The Bidder, in compliance with the invitation for bids for the **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL, PROJECT NO. 158008**, City of Pleasanton, having examined the Plans and Specifications and related documents and the premises of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and supplies, declares that this proposal is made without collusion with any other person, firm or corporation and agrees to construct the project in accordance with the contract documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Bid Proposal is a part.

Bidder shall agree to commence work under this Contract within fifteen (15) calendar days after the date of written "Notice to Proceed" and fully complete the project within **eighty-five (85)** working days after start of work. Bidder shall pay as liquidated damages in the sum of **\$1,500.00** per calendar day should the successful Bidder fail to complete the work within this time limit unless the successful Bidder is granted a time extension.

Bidder acknowledges receipt of the following addendum:

<u>No.</u>	<u>Date</u>	<u>No.</u>	<u>Date</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Bidder to perform all of the work described in the Contract Documents for the total bid amount entered.

No.	Quantity (approximate)	Unit of Measure	Item Description	Sub-Total
1.	1	LS	Bonding and Mobilization	
2.	1	LS	Erosion and Sedimentation Control	
3.	1	LS	Temporary tree & Plant Protection	
4.	1	LS	Site Demolition	
5.	1	LS	Exterior Signage	
6.	1	LS	Aluminum Signage	
7.	1	LS	Electrical	
8.	1	LS	Site Grading	
9.	1	LS	Asphaltic Concrete Paving	
10.	1	LS	Stone Paving	
11.	1	LS	Site Concrete	
<b>TOTAL</b>				\$

Note: The Bidder acknowledges that the total amount set forth above is for the entire project as represented by the Contract Documents regardless of itemization.

Attached is a bid guaranty bond duly completed by a guaranty company authorized to carry on business in the State of California in the amount of at least ten percent (10%) of the total amount of the bid, or alternately, there is attached a certified or cashier's check payable to the City in the amount of at least ten percent (10%) of the total amount of the bid.

If this Bid Proposal is accepted, bidder agrees to sign the contract and to furnish the performance bond, labor and materials bond, maintenance bond, and the required evidences of insurance within ten (10) working days after receiving written notice of the award of the contract. If bidder fails to contract as provided herein or fails to provide the bonds and/or evidence of insurance, the City may at its option, determine the acceptance thereof shall be null and void, and the forfeiture of such security accompanying this Bid Proposal shall operate and the same shall be the property of the City of Pleasanton.

This Bid Proposal shall be good and may not be modified, withdrawn or canceled for a period of ninety (90) calendar days after the date of the City's opening of bids.

Bidder hereby certifies that the licensing information hereinafter stated is true and correct. Bidder further agrees, if the bid is accepted and a contract for performance of the work is entered into with the City, to so plan work and to prosecute it with such diligence that the work shall be completed within the time stipulated in the agreement. Under the penalty of perjury bidder affirms that, to the best of bidder's knowledge, the representations made in this bid are true.

Bidders are required by law to be licensed and regulated by the contractors' State License Board. Any questions concerning a contractor may be referred to the Registrar, Contractors' State License Board.

It is a misdemeanor for any person to submit a bid to a public agency in order to engage in the business or act in the capacity of a contractor within this state without having a license therefor, except for specific cases outlined in Business and Professions Code, Section 7028.15.

_____ Name of Bidder	_____ Contractor's License Number
_____ Signature of Bidder	_____ Expiration Date
_____ Print Name	_____ Address of Bidder
_____ Title of Signatory	_____ (_____)_____
_____ State of Incorporation	_____ Telephone Number
_____ DIR Registration Number	_____ Contractor's Email Address

## BID BOND FORM

Note: Bidders must use this form if a bid bond is to be used as bidder's security. This form is not necessary if cash, cashier's check made payable to the City, or certified check made payable to the City, accompanies the bid.

We, the undersigned, \_\_\_\_\_ as PRINCIPAL, and \_\_\_\_\_ a corporation organized and existing under and by virtue of the laws of the State of \_\_\_\_\_ and authorized to do business in the State of California as a surety, as SURETY, acknowledge ourselves jointly and severally bound to the CITY OF PLEASANTON for ten percent (10%) of the total bid amount.

Contractor's Bid        \$ \_\_\_\_\_  
10% Bid Bond         \$ \_\_\_\_\_

The above amount to be paid to the CITY OF PLEASANTON as follows: If the PRINCIPAL'S bid for the work required for the project, described below,

### **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL PROJECT NO. 158008**

shall be accepted and the proposed contract awarded to the PRINCIPAL, and if the PRINCIPAL shall fail to execute the contract within the time specified in the Award and Execution of Contract section of this Contract Document, and to furnish the required faithful performance and labor and material bonds; otherwise, the obligation shall be void. Bid errors shall not constitute a defense to forfeiture.

If the City of Pleasanton brings suit upon this bond and judgment is recovered, the SURETY shall pay all costs incurred by the CITY OF PLEASANTON in bringing such suit, including reasonable attorney's fees.

IN WITNESS WHEREOF, we hereunto set our hands and seals this \_\_\_\_ day of \_\_\_\_\_, 2015.

\_\_\_\_\_  
Principal

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

\_\_\_\_\_  
Surety:

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

(Notarization of Surety's signature required)

(corporate seal)

## **CERTIFICATION OF BIDDER'S EXPERIENCE AND QUALIFICATIONS**

The undersigned Bidder certifies that the Bidder is, at the time of the bidding, and shall be, throughout the period of the contract, licensed by the State of California to do the type of work required under the terms of the contract documents. Bidder further certifies that the Bidder is skilled and regularly engaged in the general class and type of work called for in the contract documents.

The Bidder represents that the Bidder is competent, knowledgeable and has special skills in the nature, extent and inherent conditions of the work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the particular facilities which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that the Bidder is aware of such peculiar risks and has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction work with respect to such hazards.

Bidder has been engaged in the contracting business, under the present business name, for \_\_\_\_\_ years. Experience in work of a similar nature to that called for in the contract documents extends over a period of \_\_\_\_\_ years.

## BIDDER'S CONTRACT EXPERIENCE

The Bidder shall list below three projects completed in the last seven (7) years of similar size and complexity that indicate the Bidder's experience as a Contractor. The Bidder must have experience performing intricate pavement work, including concrete and granite paving, on the below listed projects and shall submit photographs of the pavement work for the project.

1.

Project	Amount
Owner	Contact
Telephone	Completion Date

2.

Project	Amount
Owner	Contact
Telephone	Completion Date

3 .

Project	Amount
Owner	Contact
Telephone	Completion Date

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

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

## BIDDER'S Labor Classifications

The Bidder shall list below the anticipated labor classifications completed by Bidder. List Subcontractor's classifications under List of Subcontractors.

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> ASBESTOS        | <input type="checkbox"/> BOILERMAKER          | <input type="checkbox"/> BRICKLAYERS         | <input type="checkbox"/> CARPENTERS      |
| <input type="checkbox"/> CARPET/LINOLEUM | <input type="checkbox"/> CEMENT<br>MASON      | <input type="checkbox"/> DRYWALL<br>FINISHER | <input type="checkbox"/> DRYWALL/LATHERS |
| <input type="checkbox"/> ELECTRICIANS    | <input type="checkbox"/> ELEVATOR<br>MECHANIC | <input type="checkbox"/> GLAZIERS            | <input type="checkbox"/> IRON WORKERS    |
| <input type="checkbox"/> LABORERS        | <input type="checkbox"/> MILLWRIGHTS          | <input type="checkbox"/> OPERATING ENG       | <input type="checkbox"/> PAINTERS        |
| <input type="checkbox"/> PILE DRIVERS    | <input type="checkbox"/> PIPE TRADES          | <input type="checkbox"/> PLASTERERS          | <input type="checkbox"/> ROOFERS         |
| <input type="checkbox"/> SHEET METAL     | <input type="checkbox"/> SOUND/COMM           | <input type="checkbox"/> SURVEYORS           | <input type="checkbox"/> TEAMSTER        |
| <input type="checkbox"/> TILE WORKERS    | <input type="checkbox"/> _____                | <input type="checkbox"/> _____               | <input type="checkbox"/> _____           |

B. BIDDER'S FINANCIAL RESPONSIBILITY

Reference is hereby made to the following banks and surety companies as to the financial responsibility and general reliability of the Bidder:

1. Name of Bank \_\_\_\_\_  
Address \_\_\_\_\_
2. Name of Bank \_\_\_\_\_  
Address \_\_\_\_\_
3. Surety Company \_\_\_\_\_  
Address \_\_\_\_\_
4. Surety Company \_\_\_\_\_  
Address \_\_\_\_\_

C. LIST OF SUBCONTRACTORS

In conformance with Section 8-1.01 of the Standard Specifications and Section 4104 of California Public Contract Code, the Bidder shall provide the following information for each Subcontractor to whom the Bidder proposes to subcontract portions of the work in an amount in excess of one-half of one percent of the total Bid Proposal OR \$10,000, whichever is greater.

1. Name of Subcontractor \_\_\_\_\_  
Contractor License Number \_\_\_\_\_  
Address \_\_\_\_\_ Phone No. \_\_\_\_\_  
Individual, Partnership or Corporation \_\_\_\_\_  
Dollar Value of work to be Performed \_\_\_\_\_  
Work to be Performed \_\_\_\_\_  
Labor Classification/s \_\_\_\_\_  
DIR Registration # \_\_\_\_\_

2. Name of Subcontractor \_\_\_\_\_

Contractor License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_

Individual, Partnership or Corporation \_\_\_\_\_

Dollar Value of work to be Performed \_\_\_\_\_

Work to be Performed \_\_\_\_\_

Labor Classification/s \_\_\_\_\_

DIR Registration # \_\_\_\_\_

3. Name of Subcontractor \_\_\_\_\_

Contractor License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_

Individual, Partnership or Corporation \_\_\_\_\_

Dollar Value of work to be Performed \_\_\_\_\_

Work to be Performed \_\_\_\_\_

Labor Classification/s \_\_\_\_\_

DIR Registration # \_\_\_\_\_

4. Name of Subcontractor \_\_\_\_\_

Contractor License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_

Individual, Partnership or Corporation \_\_\_\_\_

Dollar Value of work to be Performed \_\_\_\_\_

Work to be Performed \_\_\_\_\_

Labor Classification/s \_\_\_\_\_

DIR Registration # \_\_\_\_\_

5. Name of Subcontractor \_\_\_\_\_

Contractor License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_

Individual, Partnership or Corporation \_\_\_\_\_

Dollar Value of work to be Performed \_\_\_\_\_

Work to be Performed \_\_\_\_\_

Labor Classification/s \_\_\_\_\_

DIR Registration # \_\_\_\_\_

6. Name of Subcontractor \_\_\_\_\_

Contractor License Number \_\_\_\_\_

Address \_\_\_\_\_ Phone No. \_\_\_\_\_

Individual, Partnership or Corporation \_\_\_\_\_

Dollar Value of work to be Performed \_\_\_\_\_

Work to be Performed \_\_\_\_\_

Labor Classification/s \_\_\_\_\_

DIR Registration # \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_

# INSTRUCTIONS TO BIDDERS

## General

The City of Pleasanton, hereinafter referred to as "City," will receive at the City Clerk's Office of the City of Pleasanton, Civic Center, 123 Main Street, Pleasanton, California, until the hour and day specified in the "Notice to Bidders," sealed Bid Proposals for furnishing materials, equipment and/or labor for performing the work described in these Contract Documents. All Bid Proposals shall be submitted in accordance with the provisions of the "Proposal Requirements and Conditions" set forth under Section 2 of the Standard Specifications of the State of California, except as modified herein.

## Bid Proposal Form

All Bid Proposals shall be submitted on the Bid Proposal forms which are bound herein. All Bid Proposal forms shall be filled in completely in ink with all signature blocks signed by the Bidder. The completed Bid Proposal forms shall remain bound with the Contract Documents provided and shall be sealed in an envelope addressed to the City of Pleasanton, California and clearly labeled with identifying project name and number, and bid opening date.

## Delivery of Bid Proposal

The Bid Proposal shall be delivered by the time and to the place set forth in the "Notice to Bidders." It is the Bidder's sole responsibility to see that his or her Bid Proposal is received in proper time. Any proposal received after the time fixed for opening of bids shall be returned to the Bidder unopened.

## Opening of Bid Proposals

The Bid Proposals shall be publicly opened and read at the time and place fixed in the "Notice to Bidders."

## Modifications and Alternative Proposals

Each Bidder represents that his or her Bid Proposal is based upon the materials and equipment described in the Contract Documents. Unauthorized conditions, limitations or provisions attached to a Bid Proposal will render it non-responsive and may cause its rejection. The completed Bid Proposal forms shall be without interlineations, alterations or erasures. Alternative Bid Proposals will not be considered unless written request has been submitted to the Engineer for approval at least seven (7) calendar days prior to the date for receipt of Bids. The request shall include the name of substitute material or equipment drawings, cut sheets, performance and test dates and any other data or information necessary for complete evaluation. If the Engineer approves any proposed

substitution, such approval shall be set forth in an Addendum. Oral, telegraphic, or telephonic Bid Proposals or modifications will not be considered.

#### Contractor's Department of Industrial Relations Registration

A bid will not be accepted nor any contract entered into without proof that the bidder and its subcontractors are registered with the California Department of Industrial Relations to perform public work pursuant to Labor Code Section 1725.5, subject to limited legal exceptions.

#### Discrepancies in Bid Proposals

In the event there is more than one bid item on a Bid Proposal form, the Bidder shall furnish a price for all items and failure to do so will render the Bid Proposal non-responsive and may cause its rejection. In the event there are unit price bid items on a Bid Proposal form and the "amount" indicated for a unit price bid item does not equal the product of the unit price and quantity, the unit price shall govern and the amount will be corrected accordingly. In the event there is more than one bid item on the Bid Proposal form and the total indicated on the Bid Proposal form does not agree with the sum of the amounts bid on the individual items, the price bid on the individual items shall govern and the total on the proposal will be corrected accordingly.

#### Bid Security

Each Bid Proposal shall be accompanied by cash, a cashier's check or a certified check, amounting to ten percent (10%) of the Bid, payable to the order of the City of Pleasanton or by a bond for that amount and so payable in the form contained in this bid package. The amount so posted shall be forfeited to the City if the successful bidder does not, within ten (10) working days not including Saturday, Sunday and legal holidays after date of postage of mailed written notice that the contract has been awarded, enter into a contract with the City for the work.

After the contract is duly entered into by the successful bidder, the amount of the deposit will be returned to the Bidder. All certified checks, cashier's checks, and cash deposits of the unsuccessful bidders will be returned to the bidders within two (2) weeks after the contract is entered into by the successful bidder.

#### Miscellaneous

For requirements on Bidder's examination of site, withdrawal of proposals, and disqualification of bidders, refer to Section 2 of the Standard Specifications of the State of California.

# AWARD AND EXECUTION OF CONTRACT

## General

Award and execution of Contract shall be in accordance with "Award and Execution of Contract" set forth under Section 3 of the Standard Specifications of the State of California except as modified herein.

Award of Contract: The City reserves the right to reject for any reason any or all Bid Proposals.

No Bidder shall modify, withdraw or cancel a Bid Proposal or any part thereof for ninety (90) calendar days after the time designated for the opening of Bids in the "Notice to Bidders." Within this time period of ninety (90) days and if the City so chooses, the Contract shall be awarded to the lowest responsible Bidder.

In accordance with the provisions of California Business & Professions Code Section 7028.5, the City has determined that at the time that a bid is submitted, the bidder shall possess a valid **Class A General Engineering Contractor**. Failure to possess the specified license shall render the bid as non-responsive and shall act to bar award of the Contract to any Bidder not possessing said license at the time of bid.

Execution of Contract: Within ten (10) working days, not including Saturday, Sundays and legal holidays, after date of postage of mailed notice of award to the lowest responsible Bidder, the following documents shall be submitted to the City.

- Executed contract
- Contract bonds as required by the forms contained herein including:
  - ◇ Faithful Performance Bond for 100% of contract price
  - ◇ Labor and Material Bond for 100% of contract price
  - ◇ Maintenance Bond for 10% of contract price
- Certificates of insurance
- Evidence of a current business license to conduct business in the City of Pleasanton

Failure to submit the above shall be just cause for forfeiture of the Bid Proposal security.

# CONTRACT

## PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL PROJECT NO. 158008

THIS CONTRACT is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2016, by and between \_\_\_\_\_, ("Contractor"), whose address is \_\_\_\_\_, and telephone number is \_\_\_\_\_ and the CITY OF PLEASANTON, a municipal corporation ("City").

### WITNESSETH:

WHEREAS, the City has awarded to the Contractor a contract for **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL, PROJECT NO. 158008,**

NOW, THEREFORE, in consideration of the mutual promises set forth herein, the parties agree as follows:

1. Work to be Performed. The work will generally consist of:

This work will consist of demolition and removal of existing asphaltic concrete drive aisle and curb, clearing and grubbing, installation of new asphaltic concrete paving, concrete paving, stone paving, monument, stone plinths, curb, flag poles, lighting, statue, associated landscape and irrigation modifications, and maintenance of improvements at Pioneer Cemetery, located at 5780 Sunol Blvd.

Said work is more particularly shown in the following documents which are on file with the Engineering Department of the City and are incorporated herein by this reference:

- A. Approved Plans and Specifications entitled the **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL, PROJECT NO. 158008,** and addenda thereto, if any.
  - B. Contract Change Orders approved by the City Engineer, done in accordance with the Standard Specifications.
  - C. The elements of the proposal submitted to the City by the Contractor, which the City has accepted.
2. Compensation. The City shall pay the Contractor for work actually performed at the unit prices set out in the Contractor's proposal to the City as set forth in Exhibit A of this agreement and incorporated herein. The quantities of work

stated therein are estimates only; actual quantities will be measured for payment in accordance with the specifications.

3. Method of Payment.

A. Progress Payments. As of the twentieth day of each month, Contractor may submit for review a request for progress payment, listing the amount and value of work actually performed during the preceding month, or part thereof. Upon the City Engineer's review and approval, including adjustments if any, City shall make a progress payment to the Contractor.

B. 5% Retention. Five percent (5%) of the amount due shall be retained by the City as retention. The City shall retain five percent (5%) of the contract amount for thirty-five (35) days after the Notice of Completion for the work is recorded. The Contractor may elect to receive 100 percent of payments due under the contract documents from time to time, without retention from any portion of the payment by the City, by depositing securities of equivalent value with the City in accordance with the provisions of Section 22300 of the California Public Contract Code. Such securities, if deposited by the Contractor, shall be valued by the City, whose decision on valuation of the securities shall be final. Securities eligible for investment under this provision shall be limited to those listed in Section 16430 of the California Government Code.

C. Time of Payment. Requests submitted promptly as of the 20th day of each month will be paid by the 10th day of the following month.

4. Incorporation of Contract Documents. This Contract expressly incorporates all terms and conditions contained in the Contract Documents. In the event there is any conflict between this Contract and the Contract Documents, this Contract shall control.

5. **Indemnification.** Contractor shall indemnify, save and hold harmless from and defend the City, members of the City Council and their agents, servants and employees, against any and all claims, costs, demands, causes of action, suits, losses, expense or other detriment or liability arising from or out of acts or omissions of Contractor, its agents, sub-contractors, officials or employees, in connection with the execution of the work covered by this Contract or any amendments thereto.

6. Certification re: Workers' Compensation. In accordance with Section 1861 of the California Labor Code, each contractor to whom a public works contract is awarded shall sign and file with the awarding body 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 require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

7. Department of Industrial Relations: Pursuant to Labor Code section 1771.1, the Bidder and its Subcontractors must be registered and qualified to perform public work pursuant to section 1725.5 of the Labor Code, subject to limited legal exceptions.
8. Independent Contractor. The Contractor is an independent contractor retained by the City to perform the work described herein. All personnel employed by the Contractor, including subcontractors, and personnel of said subcontractors, are not and shall not be employees of the City.
9. Warranty Against Defects. Contractor hereby warrants all work done under this contract against all defects in materials and workmanship for a period of 12 months following City's acceptance of said work. If any defects occur within said 12 months, Contractor shall be solely responsible for the correction of those defects.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

CONTRACTOR:

By: \_\_\_\_\_  
Its Authorized Agent

By: \_\_\_\_\_  
Its Authorized Agent  
(*Second signature required if a corporation*)

CITY OF PLEASANTON:

By: \_\_\_\_\_  
Nelson Fialho, City Manager

ATTEST:

\_\_\_\_\_  
Karen Diaz, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Julie Harryman, Interim City Attorney

## **CONTRACTOR'S BOND FOR FAITHFUL PERFORMANCE**

KNOW ALL PERSONS BY THESE PRESENTS:

That \_\_\_\_\_ as Principal, and \_\_\_\_\_ incorporated under the laws of the State of \_\_\_\_\_, and licensed to do business in California to execute bonds and undertakings, as Surety, are held firmly bound unto the City of Pleasanton, a municipal corporation of the State of California, in the sum of:

\_\_\_\_\_ DOLLARS, (\$\_\_\_\_\_)

for which payment, well and truly to be made, said Principal and Surety bind themselves, their administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that:

WHEREAS, the Principal has entered into a certain contract with the City of Pleasanton to do and perform the following work or to wit:

### **PIONEER CEMETERY IMPROVMENTS AND VETERANS MEMORIAL PROJECT NO. 158008**

as required by the plans and specifications, pursuant to the award made to said contractor by the Council of the City of Pleasanton on May 17, 2016, as will more fully appear by reference to the minutes of said Council of said City of said date.

NOW, THEREFORE, if the Principal shall well and truly perform the obligations agreed to be performed under Contract, comply with all the provisions of the City Code and shall construct all the modification in a proper and worker like manner in accordance with all of the requirements of the City of Pleasanton and to the satisfaction of the City Engineer, then the above obligation shall be void; otherwise to remain in full force and effect.

No cancellation or termination of this bond by the Surety shall be effective unless thirty (30) days prior written notice thereof has been delivered to the City Engineer, provided that no cancellation or termination shall affect any liability incurred or accrued hereunder prior to the expiration of said thirty (30) day period or any work performed under Contract prior to receipt of such notice.



## LABOR AND MATERIAL BOND

WHEREAS, the City of Pleasanton, State of California, and \_\_\_\_\_ (hereinafter designated as "principal") have entered into an agreement whereby principal agrees to install and complete certain designated public improvements, which agreement, dated \_\_\_\_\_, 20\_\_\_\_, and identified as the **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL, PROJECT NO. 158008**, is hereby referred to and made a part hereof, and

WHEREAS, under the terms of said agreement, principal is required before entering upon the performance of the work, to file a good and sufficient payment bond with the City of Pleasanton to secure the claims to which reference is made in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California.

NOW, THEREFORE, said principal and the undersigned, as corporate surety, are held firmly bound unto the City of Pleasanton and all contractors, subcontractors, laborers, materialmen and other persons employed in the performance of the aforesaid agreement and referred to in the aforesaid Civil Code in the sum of \_\_\_\_\_ dollars (\$\_\_\_\_\_), for materials furnished or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, that said surety will pay the same in an amount not exceeding the amount hereinabove set forth, and also in case suit is brought upon this bond, will pay, in addition to the face amount thereof, costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by City in successfully enforcing such obligation, to be awarded and fixed by the court, and to be taxed as costs and to be included in the judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall insure to the benefit of any and all persons, companies and corporations entitled to file claims under Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should the condition of this bond be fully performed, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said agreement or the specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by the principal and surety on the date set forth above.

Principal

Surety

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

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

(signature of Principal and Surety must be notarized)

**CONTRACTOR'S BOND FOR ONE YEAR MAINTENANCE**

**PIONEER CEMETERY IMPROVMENTS AND VETERANS MEMORIAL  
PROJECT NO. 158008**

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the City of Pleasanton has awarded and Contractor is about to execute a Contract for the above-referenced Project ("Contract") and the terms thereof, which are incorporated herein by reference, require the furnishing of a bond with said Contract providing for maintenance for a period of one (1) year from the date of acceptance by the City Council of said contract by the Contractor.

NOW, THEREFORE, WE, \_\_\_\_\_, as Contractor, and \_\_\_\_\_, as Surety, are held firmly bound unto the City of Pleasanton, as Agency in the penal sum of:

\_\_\_\_\_ DOLLARS, (\$\_\_\_\_\_), lawful money of the United States of America, said sum being ten percent (10%) of the estimated amount payable by Agency under the terms of the contract, for payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that if the above bounden \_\_\_\_\_, Principal(s), within a period of one (1) year after the completion and acceptance of the project fulfills the provisions of the Contract and complies with any necessary repairs or replacement of faulty materials to the **PIONEER CEMETERY IMPROVEMENTS AND VETERANS MEMORIAL, PROJECT NO. 158008** and related facilities, then the above obligation shall be void; otherwise to remain in full force and effect.

No cancellation or termination of this bond by the Surety shall be effective unless thirty (30) days prior written notice thereof has been delivered to the City Engineer, provided that no cancellation or termination shall affect any liability incurred or accrued hereunder prior to the expiration of said thirty (30) day period or any work performed under any Contract issued by the City.

This bond is executed in accordance with the rules, regulations, standards, specifications and policies of the City of Pleasanton.

Bond No. \_\_\_\_\_

IN WITNESS WHEREOF, the Principal(s) and Surety have caused these presents to be executed, and corporate names and seals to be hereunto attached by proper officers hereunto duly authorized, the day and year first herein-above written.

Contractor

Surety

By:

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

By:

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

\_\_\_\_\_  
Date Signed

Surety Address:

\_\_\_\_\_

\_\_\_\_\_

Surety Phone No. ( ) \_\_\_\_\_

(attach acknowledgments)

## GENERAL PROVISIONS

Unless otherwise stated in these Contract Documents or deemed inapplicable by the Engineer, the General Provisions of the State of California Standard Specifications are hereby incorporated with the following General Provisions.

### SECTION 1. DEFINITIONS AND TERMS

As used in these Contract Documents unless the context otherwise requires, the following terms have the meanings indicated:

Addenda: Are written or graphic instruments, clarifications or corrections, issued prior to the execution of the contract, which modify or interpret the Contract Documents.

Bidder: Any individual, partnership or corporation submitting a Bid Proposal for the work described in the Contract Documents.

Bidding Documents: Includes the Notice to Bidders, the Bid Proposal, Bid Bond, Contractor's Information Forms including the Contractor's past experience, financial responsibility and Subcontractors, and Instructions to Bidders.

City: The City of Pleasanton.

City Standard Specifications and Standard Details: Means the January 2011 edition of the City's Standard Specifications and Standard Details.

Contractor: Any individual, partnership or corporation that has entered into a Contract with the City to perform the work described in the Contract Documents.

Contract Documents: Includes the Bidding Documents, the Award and Execution of Contract Requirements, the Contract, the Labor and Material Bond, the Performance Bond, the Maintenance Bond, the City General Provisions, the Special Provisions, Project Plans, the City of Pleasanton Standard Specifications, and Standard Details, the State Standard Specifications and Plans, all Addenda issued by the City and all Change Orders executed by the City.

Engineer: The City Engineer of the City of Pleasanton, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

General Provisions: Those Specifications that apply to all projects unless specifically modified by Special Provisions.

Project Plans: Drawings specifically prepared for a particular project.

Special Provisions: Specifications specifically prepared for a particular project.

State Standard Specifications and Standard Plans: Means the May, 2006 edition of the Standard Specifications and Standard Plans of the State of California, Department of Transportation. Any reference therein to the State of California or a State agency, office or officer shall be interpreted to refer to the City or its corresponding agency, office or officer acting under this contract.

Subcontractor: Any individual, partnership or corporation that has contracted with the Contractor to provide labor, equipment and/or materials described in the Contract Documents which is an amount in excess of one-half of one (1) percent of the Contractor's total Bid.

Work: Material, equipment and labor to be provided to City by Contractor as defined by the Contract Documents.

## SECTION 2. SCOPE OF WORK

The Work presented in these Contract Documents shall be done in accordance with: 1) the Special Provisions and Project Plans, 2) the City Standard Specifications and Standard Details and 3) the State Standard Specifications and Standard Plans. In case of conflicting portions, the above order of precedence shall prevail. In case of conflict between the specifications and drawings, the specifications shall prevail.

## SECTION 3. CONTROL OF WORK AND MATERIALS

3-01. Protection of Workers in Trench Excavations: As required by Section 6705 of the California Labor Code and in addition thereto, whenever work under the Contract involves the excavation of any trench or trenches 5 feet or more in depth, the Contractor shall submit for acceptance by the City or by a registered civil or structural engineer, employed by the City, to whom authority to accept has been delegated, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation, of such trench or trenches. If such plan varies from the shoring system standards established by the Construction Safety Orders of the Division of Industrial Safety, the plan shall be prepared by a registered civil or structural engineer employed by the Contractor, and all costs therefore shall be included in the price named in the Contract for completion of the Work as set forth in the Contract Documents. Nothing in this Section shall be construed to impose tort liability on the City, the Engineer, nor any of their officers, agents, representatives, or employees.

3-02. Substitution of Materials; Assignment of Certain Rights: In accordance with the provisions of Section 3400 of the California Public Contract Code, a Contractor shall be provided a period of not less than 35 days after award of the contract for submission of data substantiating a request for a substitution of "an equal" item.

In accordance with Section 4552 of the Government Code, the Bidder shall conform to the following requirements: In submitting a bid to a public purchasing body, the Bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act [Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code], arising from purchase of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the Bidder.

#### SECTION 4. LEGAL RELATIONS AND RESPONSIBILITY

##### 4-01. Travel and Subsistence Payments:

- (a) As required by Section 1773.1 of the California Labor Code the Contractor shall pay travel and subsistence payments to each worker needed to execute the Work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with this Section.
- (b) To establish such travel and subsistence payments, the representative of any craft, classification, or type of worker needed to execute the contracts shall file with the Department of Industrial Relations fully executed copies of collective bargaining agreements for the particular craft, classification or type of work involved. Such agreements shall be filed within 10 days after their execution and thereafter shall establish such travel and subsistence payments whenever filed 30 days prior to the call for bids.

##### 4-02. State Wage Determination:

- (a) As required by Sections 1770 et seq., of the California Labor Code, the Contractor shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations. Copies of such prevailing rate of per diem wages are on file at the City's Engineering Counter, which copies shall be made available to any interested party on request. The Contractor shall post a copy of such determination at each job site.
- (b) As provided in Section 1775 of the California Labor Code, the Contractor shall, as a penalty to the City, forfeit \$50.00 for each

calendar day, or portion thereof, for each worker paid less than the prevailing rates as determined by the City Engineer for such work or craft in which such worker is employed for any public work done under the contract by it or by any subcontractor under it.

4-03. Payroll Records; Retention; Inspection; Compliance Penalties; Rules and Regulations

- (a) As required under the provisions of Section 1776 of the California Labor Code, each Contractor and subcontractor shall keep an accurate payroll record, 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 by him or her in connection with the public work.
- (b) The payroll records enumerated in Paragraph 4-03(a), herein, shall be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following basis:
  - 1. A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request.
  - 2. A certified copy of all payroll records enumerated in Paragraph 4-03(a), herein, shall be made available for inspection or furnished upon request to a representative of the body awarding the contract, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the Department of Industrial Relations.
  - 3. A certified copy of all payroll records enumerated in Paragraph 4-03(a), herein, shall be made available upon request by the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the body awarding the contract, the Division of Apprenticeship Standards, or the Division of labor Standards Enforcement. If the requested payroll records have not been provided pursuant to subparagraph 4-03(b2), herein, the requesting party shall pay the costs of preparation by the Contractor, subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal offices of the Contractor.
- (c) Each Contractor shall file a certified copy of the records, enumerated in Paragraph 4-03(a) with the entity that requested the records within 10 days after receipt of a written request.

- (d) Any copy of records made available for inspection and copies furnished upon request to the public or any public agency by the awarding body, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement, shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of the Contractor awarded the contract or performing the contract shall not be marked or obliterated.
- (e) The Contractor shall inform the body awarding the contract of the location of the records enumerated under Paragraph 4-03(a) including the street address, city and county, and shall, within five (5) working days, provide a notice of change of location and address.
- (f) In the event of noncompliance with the requirements of this Article, the Contractor shall have ten (10) days in which to comply subsequent to receipt of written notice specifying in what respects the Contractor must comply with this Article. Should noncompliance still be evident after the 10-day period, the Contractor shall, as a penalty to the state or political subdivision on whose behalf the Contract is made or awarded, forfeit \$25.00 dollars for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due. Responsibility for compliance with these Paragraphs 4-03(a) through 4-03(f) lies with the Contractor.
- (g) In conformance with State Bill 854 all contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement) unless exempted by federal or state law.

4-04. Apprentices: Attention is directed to Sections 1777.5 and 1777.6 and 1777.7 of the California Labor Code and Title 8, California Administrative Code Section 200 et seq. To insure compliance and complete understanding of the law regarding apprentices, and specifically the required ratio thereunder, the Contractor (and subcontractors) should, where some question exists, contact the Division of Apprenticeship Standards prior to commencement of the work. Responsibility for compliance with this Section 4.04 lies with the Contractor. The City policy is to encourage the employment and training of apprentices on its construction contracts as may be permitted under local apprenticeship standards.

4-05. Working Hours. The Contractor shall comply with all applicable provisions of Section 1810 to 1815, inclusive, of the California Labor Code relating to working hours. The Contractor shall, as a penalty of the City, forfeit \$25.00 for each worker employed in the execution of the contract by the Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and 40 hours in any one calendar week, unless such worker receives compensation for all hours worked in excess of eight (8) hours at not less than 1-1/2 times the basic rate of pay.

4-06. Workers' Compensation:

- (a) In accordance with the provisions of Section 1860 of the California Labor Code, the Contractor's attention is directed to the requirement that in accordance with the provisions of Section 3700 of the California Labor Code, every contractor will be required to secure the payment of compensation of his or her employees.
- (b) In accordance with the provisions of Section 1861 of the California Labor Code, each Contractor to whom a public works contract is awarded shall sign and file with the awarding body 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 require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

4-07. Prime Contractor Job Site Postings. Pursuant to Labor Code Section 1771.4, Contractor is required to post all job site notices prescribed by law or regulation. The contractor shall comply with all applicable provisions of section 16451 (d) of California labor Code relating to the posting of job site notices prescribed by regulation.

4-08. Insurance Requirements for Contractors: BIDDER'S ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW. IT IS HIGHLY RECOMMENDED THAT BIDDERS CONFER WITH THEIR RESPECTIVE INSURANCE CARRIERS OR BROKERS TO DETERMINE IN ADVANCE OF BID SUBMISSION THE AVAILABILITY OF INSURANCE CERTIFICATES AND ENDORSEMENTS AS PRESCRIBED AND PROVIDED HEREIN. IF AN APPARENT LOW BIDDER FAILS TO COMPLY STRICTLY WITH THE INSURANCE REQUIREMENTS, THAT BIDDER MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Contractor shall procure and maintain for the duration of this contract, including one year maintenance period, contract 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, the Contractor's agents, representatives, employees or subcontractors. The cost of such insurance shall be included in the Contractor's bid.

(a) Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office form number CG 00 01 (ED. 1/96) covering Commercial General Liability and name the City as additional insured.
2. Insurance Services Office form number CA 00 01 (Ed. 12/93) covering Automobile Liability, code 1 "any auto."
3. Workers' Compensation insurance as required by the Labor Code of the State of California and Employers Liability insurance, and an endorsement for waiver of subrogation.

(b) Minimum Limits of Insurance

Contractor shall maintain limits no less than:

1. General Liability: \$1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: \$1,000,000 per accident for bodily injury and property damage.
3. Workers' Compensation and Employers Liability: Workers' compensation limits as required by the Labor Code of the State of California and Employers Liability limits of \$1,000,000 per accident.

(c) Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

(d) Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

1. General Liability and Automobile Liability Coverages

- a. The City, its officers, officials, employees and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the City, its officers, officials, employees or volunteers.
- b. The Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
- c. The specific coverage obligations set forth in this Section 4-07 are minimums only, and the Contractor shall have the obligation to provide the minimum coverages stated in these Specifications or such greater or broader coverage, if available in the Contractor's policies.
- d. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the City, its officers, officials, employees or volunteers.
- e. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

2. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the City, its officers, officials, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. All Coverages

Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior

written notice by certified mail, return receipt requested, has been given to the City.

(e) Acceptability of Insurers

Insurance is to be placed with insurers with a Best's rating of no less than A:VII.

(f) Verification of Coverage

Contractor shall furnish the City with certificates of insurance and with original endorsements effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on forms provided by the City. Where by statute, the City's workers' compensation-related forms cannot be used, equivalent forms approved by the Insurance Commissioner are to be substituted. All certificates and endorsements are to be received and approved by the City before work commences. The City reserves the right to require insurance policies, at any time.

(g) Subcontractors

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for **each subcontractor.** **All coverages for subcontractors shall be subject** to all of the requirements stated herein.

4-09. Department of Industrial Relations: **This Contract** will be subject to compliance monitoring and enforcement by the California Department of Industrial Relations, pursuant to Labor Code section 1771.4 Attention is directed to Section 1725.5 of the California Labor Code. To insure compliance and complete understanding of the law regarding contractor registration the Contractor (and subcontractors) should, where some question exists, contact the Department of Industrial Relations prior to submission of bid. Responsibility for compliance with this Section lies with the Contractor and Subcontractors.

## SECTION 5. PROSECUTION AND PROGRESS

5-01. Removal, Relocation, or Protection of Existing Utilities: In accordance with the provisions of Section 4215 of the California Government Code, the Contractor shall not be assessed liquidated damages for delay in completion of the project, when such delay was caused by the failure of the City or owner of the utility to provide for the removal or relocation of such utility facilities.

5-02. Preconstruction Conference: Following award of contract, submittal of executed contract, and approval of certificates of insurance and bonds, but before start of work, a preconstruction conference shall be held at a mutually agreed time and place. The conference shall be arranged by the City and attended by City representatives including the inspector, and the Contractor, Contractor's superintendent and major subcontractors. Contractor shall present at the conference the progress and submittal schedules, and progress payment format, and provide emergency phone numbers.

The purpose of the conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedures for handling such matters established.

***5-03. Beginning of Work: The Contractor shall be prepared to begin work within fifteen (15) calendar days after "Notice to Proceed".***

## SECTION 6. MEASUREMENT AND PAYMENT

6-01. Payments: Attention is directed to Section 9-1.06, "Partial Payments," and 9-1.07, "Payment After Acceptance," of the State Standard Specifications and these City General Provisions.

As of the 20th day of each month, requests for progress payment listing amount and value of work performed during that month may be submitted for review. Upon review and approval or adjustment by the Engineer, progress payment will be made, retaining five percent (5%) of the amount due. Requests submitted promptly as of the twentieth of the month will be paid normally by the tenth of the following month.

The Bidder's attention is directed to the provisions of Section 9 of the Standard Specifications and the following modification, all of which are applicable to this Contract:

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Engineer shall, within five (5) days, make such inspection, and when the Engineer finds the work acceptable under the Contract and the Contract fully performed, the Engineer will recommend to the City Council (at the next following Council meeting) that the Contract be accepted and a "Notice of Completion" be prepared and recorded. The entire balance found to be due the Contractor, including the retained percentage, shall be paid to the Contractor by the City within fifteen (15) days after the expiration of thirty (30) days following the date of recordation of the Notice of Completion.

Contractor shall supply with each progress payment request (with the exception of the first progress payment submittal) an email, fax or letter from each subcontractor stating: (a) the date that he/she has received his/her portion of the preceding payment; and (b) if the payment received was the total amount then due. Should the payment not include the total amount invoiced due to a dispute, the subcontractor shall include the details of such dispute in his/her letter with enough information for

the City to verify that the provisions of Section 7108.5 of the CA Business and Professions Code have been met.

Before the final payment is due, the Contractor shall submit evidence satisfactory to the Engineer that all payrolls, material bills, and other indebtedness connected with the work have been paid, except that in case of disputed indebtedness or liens, the Contractor may submit in lieu of evidence of payment, a surety bond satisfactory to the City guaranteeing payment of all such disputed amounts when adjudicated in cases where such payment has not already been guaranteed by surety bond.

6-02. Substitution of Securities in Lieu of Retention: Pursuant to Section 22300 of the Public Contract Code, the contractor may substitute securities for any money held by the City to insure performance of the contract. At the request and expense of the contractor, securities equivalent to the amount withheld shall be deposited with the City or federally-chartered banks as an escrow agent, who shall return such securities to the contractor upon satisfactory completion of the contract. Deposit of securities with an escrow agent shall be subject to written agreement in accordance with the provisions of Section 22300. The City shall not certify that the contract has been completed until at least 35 days after filing by the City of a Notice of Completion. Securities shall be limited to those listed in Section 16430 of the California Government Code, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed upon by the contractor and the City.

# **ATTENTION BIDDERS:**

Your bid shall represent the cost of performing all Work described in the Contract Documents including:

Special Provisions and Project Plans,  
City Standard Specifications and Details,  
State Standard Specifications and Plans, and  
all Addenda and Change Orders.

## ***CITY STANDARD SPECIFICATIONS AND DETAILS (Approved January 2011)***

is a separate document that is available at the City of Pleasanton Engineering Department, Civic Center, 200 Old Bernal Avenue, for a non-refundable cost of \$20.

**Call (925) 931-5650 to request a copy of the  
*City Standard Specifications and Details.***

*The City Standard Specifications and Details can be viewed online at the  
City's Web Page, <http://www.cityofpleasantonca.gov/>  
(Select: Government, Departments, Community Development, Engineering,  
Standard Specifications & Details)*

## **SPECIAL PROVISIONS**

(These Special Provisions are to be used in conjunction with the City Standard Specifications and Standard Details, and the State Standard Specifications and Standard Plans)

All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. The Sections noted are those in the Standard Specifications except for the new Section(s) added. Where conflict exists between these documents and existing conditions, request clarification from the Project Engineer.

## 21-01 I DEFINITION OF BID ITEMS

### **Bid Item 1: Bonding and Mobilization**

This work shall include all labor, materials, and incidentals and for doing all work involved in bonding and mobilization for construction.

### **Bid Item 2: Erosion and Sedimentation Control**

This work shall include all labor, materials, and incidentals and for doing all work involved in installing erosion and sedimentation control measures required for construction including but not limited to: silt fence, straw wattles, dust control measures, construction entrances and all other necessary erosion control measures, and miscellaneous related work as shown on Drawings.

### **Bid Item 3: Temporary Tree & Plant Protection**

This work shall include all labor, materials, and incidentals and for doing all work involved in protection of existing trees and plants scheduled to remain against injury or damage, including cutting, breaking, or skinning of roots, trunks or branches; soil compaction by stockpiled construction materials, excavated materials or vehicular traffic within the dripline (tree canopy), protecting existing trees and plants to remain during all phases of construction, including site preparation, excavation and trenching, erection, maintenance and removal of temporary tree protection fencing and replacement of trees and plants damaged by work of this Contract, and miscellaneous related work as shown on Drawings.

### **Bid Item 4: Selective Site Demolition**

This work shall include all labor, materials, and incidentals and for doing all work involved in removing trees, other vegetation and associated root systems, removing specified and designated site improvements and structures, disposal of debris, removal and salvaging of certain items for re-use on the project or turnover to the City of Pleasanton, disconnecting, capping or sealing and abandoning site utilities in place, and miscellaneous related work as shown on Drawings.

### **Bid Item 5: Exterior Signage**

This work shall include all labor, materials, and incidentals and for doing all work involved in the exterior bronze letters and bronze medallions in the concrete paving, and miscellaneous related work as shown on Drawings.

### **Bid Item 6: Aluminum Flagpole**

This work shall include all labor, materials, and incidentals and for doing all work involved in the installation of the aluminum flagpoles, and miscellaneous related work as shown on Drawings.

### **Bid Item 7: Electrical**

This work shall include all labor, materials, and incidentals and for doing all work involved in complete installation of wiring, pull boxes, receptacle and pedestals, electrical connections to flag pole beacons, trench and backfill, concrete work, and miscellaneous related work as shown on Drawings.

**Bid Item 8: Site Grading**

This work shall include all labor, materials, and incidentals and for doing all work involved in site grading and filling to indicated elevations, subgrade preparation, and miscellaneous related work as shown on Drawings.

**Bid Item 9: Asphaltic Concrete Paving**

This work shall include all labor, materials, and incidentals and for doing all work involved in the asphaltic concrete paving, including aggregate base, as shown on Drawings.

**Bid Item 10: Stone Paving**

This work shall include all labor, materials, and incidentals and for doing all work involved in furnishing and installing granite paving, military pillars, granite statue base, granite bench, granite curb, etching and engraving letters on the granite, laser etching the photo montage on the granite, and miscellaneous related work as shown on Drawings. Photos will be provided by the City (three per pillar). Contractor shall be responsible for all costs associated with etching and schedule the delivery, etc.

**Bid Item 11: Site Concrete**

This work shall include all labor, materials, and incidentals and for doing all work involved in the concrete paving work, including, but not limited to, final subgrade preparation and paving base, concrete paving, ADA ramps, score and expansion joints, concrete curb and gutter, flagpole footings, concrete bases for stone paving, furnishing and installing truncated domes, and miscellaneous related work as shown on Drawings.

**SECTION 015639**

**TEMPORARY TREE AND PLANT PROTECTION**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Protect existing trees and plants scheduled to remain against injury or damage, including cutting, breaking, or skinning of roots, trunks or branches; soil compaction by stockpiled construction materials, excavated materials or vehicular traffic within the dripline (tree canopy). The work includes but is not limited to the following:
  - 2. Protecting existing trees and plants to remain during all phases of construction, including site preparation, excavation and trenching.
  - 3. Erection, maintenance and removal of temporary tree protection fencing.
  - 4. Replacement of trees and plants damaged by work of this Contract.
- B. Related Sections include the following
  - 1. All Division 31, 32, and 33 Sections

1.3 REFERENCES AND STANDARDS

- A. American National Standard for Tree Care Operations; ANSI Z133.1-1988, International Society of Arboriculture (ISA).
- B. Cooperative Extension U.C., Leaflet 21418, "Tree Evaluation and Casualty Loss".

1.4 QUALITY ASSURANCE

- A. Perform all work in accordance with the above named references and standards.
- B. Perform all arboricultural and related soil work under the observation of the Owner's Representative and/or an International Society of Arboriculture (ISA) Certified Arborist designated by the Owner.

1.5 PROJECT CONDITIONS

- A. Perform specified tree protection work before commencing site preparation, excavation, trenching and construction.
- B. Prior to commencing work, meet with the City Engineer and identify and mark all existing trees that are within the construction zone and are likely to require protection measures as herein specified.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Tree Protection Fencing:
  - 1. Polyethylene Safety Fencing; 48"width; 1 2" mesh opening; color orange; tensile strength 2000 to 2310 psi.
  - 2. Posts: 2x4 Douglas Fir or heavy duty punched metal "U" posts; 13 gauge steel.

## PART 3 - EXECUTION

### 3.1 PROTECTION OF EXISTING TREES AND PLANTS

- A. Tree and Plant Protection Fencing:
  - 1. Protect designated trees and plants with a temporary 4'-0" high Safety Fence enclosure.
  - 2. Locate fencing as follows:
    - a. Tree Masses: around entire tree mass at the dripline (edge of tree canopy).
    - b. Single Trees: around drip line of tree.
  - 3. Erect temporary fencing before commencing any construction work. Maintain fencing during full construction period. Remove temporary fencing when no longer needed or when acceptable to Owner's Representative.
  - 4. Obtain approval by the City Engineer of proposed fencing alignment prior to installation.
- B. Vehicles, materials storage and excavated materials are not allowed within the fenced areas and/or tree driplines.
  - 1. If access is determined to be necessary, apply a 4-inch deep layer of approved bark mulch over the required area.
  - 2. If equipment access is required, place interlocking metal matting on top of the bark mulch.
- C. Trenching and Excavation:
  - 1. Mechanical Trenching may be done outside the drip line of a tree or to within 1/3 of the tree's height, whichever is greater.
  - 2. Hand trenching is required inside the tree's drip line or within the 1/3 height zone.
- D. Root Treatment:

1. Leave large roots exposed during excavation intact if possible, by hand excavating around the root; this is a requirement for roots 4" in diameter and larger.
  2. All roots 1" in diameter and larger that require cutting shall be cut cleanly and obliquely with surfaces facing downward.
    - a. Moisten roots and surrounding soil and cover with a 4" thick layer of bark mulch to prevent desiccation.
    - b. Do not apply pruning seals or paint to the wounds.
    - c. Protect cut and exposed roots from drying. Drape a water absorbent material (burlap) from top of trench, covering roots; keep moist until soil backfill is replaced.
- E. Pruning Requirements:
1. Obtain the approval of the City Engineer for any pruning of trees required for construction clearance.
  2. All pruning work shall be performed by an ISA Certified Arborist or Tree Worker. All work shall be done in accordance with pruning techniques adopted by ISA.
- F. Tree and Plant Repair:
1. Promptly repair trees and plants scheduled to remain and damaged by construction operations in a manner acceptable to the City Engineer. Repair damaged trees promptly to prevent progressive deterioration caused by damage.
  2. All repair work shall be performed by an ISA Certified Arborist or Tree Worker. All work shall be done in accordance with techniques adopted by ISA.
- G. Tree and Plant Replacement:
1. Replace trees scheduled to remain that are damaged beyond repair by construction operations, as determined by the City Engineer, with trees of similar size and species, or by payment of an amount representing the value of the damaged material as determined by the Owner in accordance with Cooperative Extension U.C., Leaflet 21418, "Tree Evaluation and Casualty Loss
- H. Repair and replacement of trees and plants scheduled to remain and damaged by construction operations or lack of adequate protection during construction operations shall be at Contractor's expense.

#### PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this section shall be paid for at the lump sum price bid for Temporary Tree & Plant Protection and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Temporary Tree & Plant Protection, and related incidental work.

END OF SECTION

**SECTION 024113**

**SELECTIVE SITE DEMOLITION**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 INCLUDED WORK

- A. Perform demolition work as shown on the drawings and herein specified. The work includes:
  - 1. Removing trees, other vegetation and associated root systems.
  - 2. Removing specified and designated site improvements and structures.
  - 3. Removal and salvaging of certain items, for re-use on the project, or turnover to the City of Pleasanton, Operations Center, 3333 Busch Street, Pleasanton.
  - 4. Disconnecting, capping or sealing and abandoning site utilities in place.

1.3 RELATED WORK

- A. Section 312100: Site Grading
- B. Section 015639 – Temporary Tree and Plant Protection

1.4 QUALITY ASSURANCE

- A. Comply with all applicable local, state, and federal requirements regarding materials, methods of work, and disposal of excess and waste materials.
- B. Obtain and pay for all required inspections, permits, and fees. Provide notices required by governmental authorities.

1.5 PROJECT CONDITIONS.

- A. Perform demolition work before commencing site construction.
- B. Locate and identify existing underground and overhead services and utilities within contract limit work areas. Provide adequate means of protection of utilities and services not designated for removal.
- C. Provide necessary barricades, coverings, bracing, shoring, signs, lights and protection required to provide public safety and to prevent damage to existing improvements indicated to remain.

- D. Restore to original grades and conditions, areas adjacent to site disturbed or damaged as a result of demolition work.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Materials and equipment: As selected by the Contractor.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Examine the substrate under which demolition work is to be done. Notify the City Engineer, in writing, of conditions detrimental to the proper and timely completion of the work.
- B. Structures:
  - 1. Prior to starting demolition, make an inspection and report observable defects and structural weaknesses of structures designated for removal, of adjacent structures, and of other improvements to remain.

### 3.2 STRIPPING AND GRUBBING

- A. Specified in Section 312100 - Site Grading.

### 3.3 GENERAL

- A. Remove existing improvements as required to accommodate new construction whether or not indicated on the drawings and herein specified.
- B. Remove materials carefully, providing for neat and structurally sound junctions between existing and new work.
- C. Protect existing buildings, structures, facilities, utilities, trees and other plant materials to remain at all times. Repair or replace any damaged improvements at no additional cost to the Owner.

### 3.4 EXISTING UTILITIES

- A. Arrange for disconnection, disconnect and seal or cap all utilities and services designated to be abandoned and/or removed before start of site work operations. Perform all work in accordance with the requirements of the applicable utility company or agency involved.
- B. Remove deactivated plumbing and electrical conduit where it would interfere with new construction.
- C. Adjust existing catch basins, utility vaults, manholes, valve boxes or any other existing structures to meet new grades.

3.5 CLEARING

- A. Remove trees, plants, undergrowth, other vegetation, and debris, except items indicated to remain.
  - 1. Fell trees in a manner to prevent injury to adjacent facilities and to trees scheduled to remain.
  - 2. Remove stumps and roots to a clear depth of 36" below subgrades. Remove stumps and roots to their full depth within 5'-0" of underground structures, utility lines, footings, and paved areas.

3.6 SITE IMPROVEMENT

- A. Remove existing sidewalks, curbs, paving, and other structures including all base material, as required to accommodate new construction.
- B. Saw-cut existing concrete paving and curbs, and asphaltic concrete paving in neat, straight lines to provide uniform, even transition from new to adjacent existing work.

3.7 BACKFILLING

- A. Backfill any below grade voids created by demolition work as specified for backfilling in Section 312100 - Site Grading.

3.8 DISPOSAL OF WASTE MATERIALS

3.9 Stockpile, haul from site, and legally dispose of waste materials and debris. Accumulation is not permitted.

3.10 Maintain disposal routes clear, clean, and free of debris.

3.11 SALVAGED EQUIPMENT

- A. Remove, salvage and turn over to the City, certain designated site equipment and furnishings.
  - 1. Existing benches
  - 2. Existing flagpole.
- B. Salvage and store certain equipment for re-installation under this contract.

3.12 CLEANUP

- A. Upon completion of site preparation work, clean areas within contract limits, remove tools, and equipment. Provide site clear, clean, and free of materials and debris and suitable for site work operations.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this Section shall be paid for at the lump sum price bid for Selective Site Demolition and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in Selective Site Demolition, and related incidental work.

END OF SECTION

**SECTION 101400**

**EXTERIOR SIGNAGE**

PART 1 - GENERAL

1.1 PROVISIONS

All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated June 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 DESCRIPTION

Furnish and install exterior bronze letters in the concrete paving.

Furnish and install bronze medallions in granite paving.

1.3 RELATED WORK

Section 327010 – Site Concrete

Section 321440 – Stone Paving

1.4 QUALITY ASSURANCE

Letter manufacturer shall provide evidence that they regularly and presently manufacture letters similar to those specified in this section as one of their principal products.

Bronze relief fabricator to submit for approval (3) photographic examples of past projects using a photo-relief technique to render a portrait in bronze relief.

1.5 SUBMITTALS

Submit manufacturer's product data for the letters.

Submit manufacturer's product data for the medallions.

Submit shop drawings: Include plan layout and details illustrating location, sizes of letters, rails, braces and anchorage.

Sample of letter typeface in a typical ¼ size layout.

Samples: Bronze medallion.

1.6 DELIVERY AND STORAGE

Deliver materials to job in manufacturer's original sealed containers with brand name marked thereon. Protect materials from damage.

Package to prevent damage or deterioration during shipment, handling, storage and installation. Maintain protective covering in place and in good repair until removal is necessary.

Store products in dry condition inside enclosed facilities.

1.7 LETTERING REQUIREMENTS

LETTERING AND MEDALLIONS

1. Type Styles: As shown on drawings.
2. Character Height: As shown on drawings.
3. Finish: As shown on drawings.
4. Mounting Location: As shown on drawings.

1.8 COLORS AND FINISHES:

See drawings and details for specific colors and finishes.

PART 2 - PRODUCTS

2.1 GENERAL

Signs of type, size and design shown on the drawings and as specified.

Signs complete with lettering, framing and related components for a complete installation.

Provide graphics items as completed units produced by a single manufacturer, including necessary mounting accessories, fittings and fastenings.

Do not scale drawings for dimensions. Contractor to verify and be responsible for all dimensions and conditions shown by these drawings. City Engineer to be notified of any discrepancy in drawing, in field directions or conditions, and/or of any changes required for all such construction details.

The Contractor, by commencing work of this section, assumes overall responsibility, as part of his warranty of work, to assure that assemblies, components and parts shown or required within the work of the section, comply with the Contract Documents. The Contractor shall further warrant: That all components, specified or required to satisfactorily complete the installation are compatible with each other and with conditions of installations.

2.2 PRODUCTS

Bronze Letters

1. ¼" thick, sheet, ASTM B169, 220 Alloy Bronze Letters, Non-Orbital Finish

Medallions: Shall be a commercial bronze of alloy 225.

## 2.3 LETTER STANDARDS

Topography:

1. Type Style: As shown on the drawings.
2. Letter spacing: See graphic standards on drawings.
3. All text to be provided in size, colors, typefaces and letter spacing shown. Text shall be a true, clean, accurate reproduction of typeface(s) shown. Text shown in drawings are for layout purposes only;

## 2.4 MEDALLIONS

Images, sizes and materials as shown on the drawings.

## 2.5 FABRICATION

Design components to allow for expansion and contraction for a minimum material temperature range of 56 °C (100 °F), without causing buckling, excessive opening of joints or over stressing of adhesives, welds and fasteners.

Form work to required shapes and sizes, with true curve lines and angles. Provide necessary rebates, lugs and brackets for assembly of units. Use concealed fasteners whenever and wherever possible.

Shop fabricate so far as practicable. Joints fastened flush to conceal reinforcement, or welded where thickness or section permits.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

Protect products against damage during field handling and installation. Protect adjacent existing and newly placed construction, landscaping and finishes as necessary to prevent damage during installation.

Mount bronze letters and bronze medallions in proper alignment, level and plumb according to the plan. When exact position, angle, height or location is in doubt, contact CityEngineer for clarification.

Contractor shall be responsible for all letters and medallions that are damaged, lost or stolen while materials are on the job site and up until the completion and final acceptance of the job.

Furnish inserts and anchoring devices which must be set in concrete or other material for installation.. Provide setting drawings, templates, instructions and directions for installation of anchorage devices which may involve other trades.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this Section shall be paid for at the lump sum price bid for Exterior Signage and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in Exterior Signage and related incidental work.

END OF SECTION

**SECTION 103500**

**ALUMINUM FLAGPOLE**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflicts exist between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. Work Included: All labor, materials and equipment necessary to complete the installation of aluminum flagpoles work shown on the Landscape Drawings.
- B. Related Work Specified Elsewhere: Consult all other Sections, determine the extent and character of related work and properly coordinate work specified herein with that specified elsewhere to produce a complete, finished and workmanlike installation.
  - 1. Section 015639 – Temporary Tree & Plant Protection
  - 2. Section 327010 – Site Concrete
  - 3. Section 265000 – Site Electrical

1.3 SUBMITTALS

- A. Shop Drawings: Submit shop drawings in accordance with the provisions of these Specifications. Include all required details and design recommendations for the concrete foundation and aluminum flagpole anchorage.
- B. Structural Calculations: Submit two copies of signed structural calculations for the structural integrity of the flagpole and associated footing design.
- C. Installation Methods: Accompanying the shop drawings, submit at least three copies of the manufacturer's current recommended methods of installation of the flagpoles and accessory items.

1.4 QUALITY ASSURANCE

- A. Qualifications of Installers: For actual installation of flagpoles, use only personnel who are thoroughly trained and experienced in the skills involved and who are completely familiar with the manufacturer's recommended methods of installation.
- B. Design Criteria: Flagpole, base and anchorage devices shall be designed to resist 100 mph wind velocity minimum, unflagged.

1.5 PRODUCT DELIVERY AND STORAGE

- A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the installed work and materials of all other trades. Damaged products will be rejected.

## PART 2 - PRODUCTS

### 2.1 ALUMINUM FLAGPOLE

- A. Flagpoles to be fabricated and supplied by L. Ph. Bolander, 1355 Evans Avenue, San Francisco, California, (800) 434-5611.
- B. Material: Manufactured of aluminum made from all new, heat treated, seamless 6063-T6 tubing designed to withstand winds of 100MPH.
- C. Type: LSJ20' and LSJ25' – Standard ground set cone, tapered over total length.
- D. Fittings: Standard for Shoe Base HSJ Internal halyard flagpoles.
- E. Dimensions:
  - 1. Exposed Height: 20 feet - 0 inches **and** 25 feet – 0 inches.
  - 2. Overall Height: 22 feet - 6 inches **and** 28 feet – 0 inches.
  - 3. Outside Pole Diameter: 5" butt, 3" top
- F. Finish: Satin.
- G. Color: Aluminum

### 2.2 HARDWARE

- A. Concealed Halyard System: as manufactured and supplied by: L. Ph. Bollander and Sons, 1355 Evans Avenue, San Francisco, California 94124 (800) 434-5611
- B. Ball: 5 inch diameter spun seamless aluminum, gold color, anodized ball.
- C. Truck: cast of virgin aluminum, non-fouling, with one sheave, internal and stationary. Truck to be fitted with Stainless Steel Ferrule for halyard longevity.
- D. Halyard: White, UV resistant Polyester, length as required for proper tie off, with vinyl covered brass flag snaps.
- E. Snaps: Bronze 3/4-inch swivel eye
- F. Cam Cleat: no maintenance, self-locking, non-corrosive materials, mounted inside pole.
- G. Fasteners: All miscellaneous metal screws and bolts to match hardware as recommended by manufacturer.
- H. Flash collar: Spun aluminum alloy 1100 1/8"thick, finish shall match pole.
- I. Anchor Bolts: Hot dip galvanized steel bolts of size as indicated with double nuts, locks and flat washers.

### 2.3 ALUMINUM FLAGPOLE ANCHORAGE AND CONCRETE FOUNDATION

- A. Concrete Foundation: 2,500 psi at 28 days.
- B. Rough Hardware: Hot dip galvanize bolts, nuts and washers; ASTM A123.

PART 3 - EXECUTION

3.1 INSPECTION

A. Inspection:

1. Examine the substrate under which flagpole is to be installed. Notify the City Engineer, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
2. Verify that flagpole may be installed in strict accordance with the original design, all pertinent codes and regulations, and the approved shop drawings.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the .
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 INSTALLATION

- A. The vertical centerline of the flagpole shall be 90 degrees from the horizontal and shall be verified with a transit.
- B. Aluminum flagpole anchorage shall be fabricated in accordance with approved shop drawings.
- C. Provide all bolting and other fastenings required to complete the aluminum flagpole construction shown on the drawings.
- D. Bolt holes shall be 1/32-inch to 1/16-inch larger than bolts, and shall be accurately located to permit proper alignment and easy driving of bolts. A standard cut washer, or the equivalent thereof, shall be installed between each bolt head and nut and wood and/or metal fasteners. Bolts shall be taken up snug and shall be retightened at the latest practicable time during the construction work.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this Section shall be paid for at the lump sum price bid for the Aluminum Flagpole, and shall include full compensations for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in the Aluminum Flagpole.

END OF SECTION

**SECTION 265000**

**SITE ELECTRICAL**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflicts exist between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. Furnish and install all labor and materials for complete installation of wiring, pull boxes, receptacle and pedestals, electrical connections to flag pole beacons, trench and backfill, concrete work, and miscellaneous related work as shown on Drawings.
- B. Related work specified elsewhere:
  - 1. Section 327010 - Site Concrete
- C. Contractor shall visit the site prior to submission of his bid, verify all conditions that will affect the performance of his work, make all necessary measurements, and notify the City Engineer of any discrepancies between the plans and the actual field conditions, prior to bidding.
- D. Contractor shall secure all necessary permits. There shall be no charge for permits that are issued by the City.
- E. Contractor shall coordinate his work with the other trades, reviewing areas of possible conflict of space.
- F. Contractor to furnish and install all necessary temporary lighting and job site construction power as required by the National Electrical Code, OSHA, and the California State Safety Orders.

1.3 SUBMITTALS

- A. Prior to ordering any materials, Contractor shall furnish the Landscape Architect with manufacturer's literature and catalog sheets, per General Requirements section, and/or manufacturers' data sheets for the following items:
  - 1. Pull boxes
  - 2. Wire
  - 3. Wiring devices and receptacles
  - 4. Conduit and conduit fittings
  - 5. Ground rods
  - 6. Conduit sealing materials
  - 7. Wire connectors, fuse holders and water sealing materials
  - 8. Time switch
  - 9. Marker tape
  - 10. Pull box vandal inserts
  - 11. Receptacle pedestals

1.4 STANDARDS

- A. Unless otherwise indicated or specified, all materials and methods shall conform to the appropriate current sections of:
  - 1. City Standards for Public Improvements.
  - 2. The State of California, latest edition of the Department of Transportation Standard Specifications (DTSS), except for measurement and payment requirements.
  - 3. Utility company standards.
  - 4. Applicable ASTM specifications as they reasonably apply to this work, except for measurement and payment requirements.
  - 5. Where conflicts occur, most stringent requirements apply.
- B. All materials shall be new with the Underwriter's acceptance label attached.
- C. All work shall conform to the requirements of the current edition of the National Electrical Code, OSHA, California State Safety Orders and the City regulations.
- D. The complete electrical installation shall be permanently grounded per the current edition of the National Electrical Code and local regulations.

1.5 RECORD DRAWINGS: Contractor to keep accurate and scaled reproducible record plans of the entire electrical installation. Deviations and changes from the Contract Drawings shall be noted on this drawing. All work that is installed under this Contract shall be included on these drawings.

1.6 GUARANTEES: Contractor shall guarantee, in writing, for a period of one (1) year from date of acceptance, that all work installed shall be free from defects in workmanship and materials. If during this period of one (1) year any such defects appear, the Contractor shall, without cost to the City, remedy such defects. If the Contractor defaults on this guarantee, the City may have such work done and charged to the Contractor.

PART 2 - PRODUCTS

2.1 CONDUCTORS

- A. Shall be copper, thermoplastic insulated, 600V, type THWN, Southwire, Rome, Phelps Dodge, or equal.
- B. Color coding: Conductors shall be identified as to phase connections by means of color impregnated insulation or approved colored marking tapes as follows:

<u>VOLTAGE</u>	<u>A-PH.</u>	<u>B-PH.</u>	<u>NEUTRAL</u>	<u>GROUND</u>
240/120V	Black	Red	White	Green

2.2 CONDUITS

- A. Non-metallic: for use underground, schedule 40 & 80 PVC, by Carlon, PW Pipe, or approved equal. All conduits entering pull boxes shall have end bells.
- B. Metallic: for use above ground, galvanized rigid steel. As manufactured by Allied, or approved equal.

2.3 PULLBOXES

- A. Site boxes for use as pull boxes shall be reinforced concrete, light traffic rated, with checker plate steel lids with hold-down penta-head bolts. Boxes shall be complete with base section, riser, and lids. As manufactured by Christy, Carson, or approved equal
- B. Boxes located in pavement and in landscaped areas shall be set flush with final grade.
- C. Set boxes on 6" base of crushed drain rock, and as indicated on Drawings. Covers shall be marked indicating type of service, i.e. electrical, etc.
- D. Provide driven ground rods in pull boxes as indicated on Drawings.

2.4 GROUND RODS: Copper clad steel ground rods, minimum size 5/8inch diameter minimum by 10ft long, with approved ground rod clamp, as manufactured by Eritech, or approved equal.

2.5 TIME SWITCH: Digital astronomic time switch as shown on Drawings, as manufactured by Tork, Sangamo, or approved equal.

2.6 PULL BOX INSERTS: McCain vandal resistant pull box inserts with pad-lock provisions.

2.7 RECEPTACLES: 20amp 3WG 120volt GFCI tamper resistance and outdoor rated, as manufactured by Leviton, Hubbell or approved equal.

2.8 DETECTABLE MARKER TAPE: Red tape, 3" wide, as manufactured by Mule or 3M.

2.9 RECEPTACLE PEDESTAL: Custom fabricated pedestals as indicated on Drawings. Contractor will be responsible for contacting fabricators to have pedestals manufactured. Receptacle devices, outlet boxes and conduits are to be field installed.

2.10 FLAG POLE LIGHTS: Flag poles are provided with pole top 120 volt beacon LED lights to light flags.

PART 3 – EXECUTION

3.1 LIGHTING

- A. Contractor shall furnish and install the lighting controls as indicated on Drawings.
- B. Contractor shall be responsible for running conduit into the base of flag poles up to the level of the pole's hand hole, and extending wiring up to the beacon assembly at top of pole, together with branch circuit wiring from nearest pull box. Poles shall be grounded using ground lug and ground wire.
- C. Beacon lights circuit shall be controlled via new astronomic time switch, to be located in existing service pedestal.

3.2 CONDUCTORS

- A. All conductor splices shall be completely watertight, utilizing Scotch-cast 85-10 series electrical splicing kits with molds, resin and tapes. Splices shall be prepared as recommended by the manufacturer.

- B. Upon completion of the installation of the conductors in the conduits, all conduit ends shall be sealed watertight with non-hardening, non-oxidizing and non-corrosive sealing compounds, Duct-seal, Permagum, or approved equal.
- C. All conductors shall be installed free from injury, abrasion, cuts or crimping. Where necessary to provide cable lubrication for smooth conductor installation, Contractor may use jet line products "SWP" series, or approved equal.

### 3.3 CONDUITS

- A. Separate conduit runs not less than one foot horizontally and one foot vertically from gas, water sewer and drain lines.
- B. Place WARNING-ELECTRIC detectible marker strips the continuous length of trench, down 12" from finish grade. Strips shall be installed over all lighting and power conduits.
- C. All conduits entering underground pull boxes shall have wide flange end bells.

### 3.4 REPAIRS

- A. Replace existing roadways, walkways, paving, or similar surfaces to match existing work, except material used shall not be of lesser quality than required for the same material in General Work Specifications, if such work is specified therein.
- B. Bring to grade any subsidence occurring during the guarantee period by adding surfacing materials of the like kind.

### 3.5 EXCAVATION AND BACKFILLING

- A. Excavate and backfill as required for the installation of electrical work. Restore all surfaces, roadways, walks, curbs, walls existing underground installations, etc., cut by installations to original condition in an acceptable manner. Maintain all warning signs, barricades, flares and lanterns as required.
- B. Dig trenches straight and true to line and grade, with bottom clear of any rock points. Support conduit for entire length on undisturbed original earth. Minimum conduit depth of pipe crown shall be 2 feet below finished or natural grade.
- C. All backfill material, placement and compaction shall conform to applicable requirements of earthwork section of these specifications.

### 3.6 TESTS

- A. Tests shall be conducted during the construction period and at completion to determine conformity with applicable codes and with these specifications. Tests shall be performed in the presence of the City Engineer, and shall include, but are not limited to, the following:
  - 1. Circuits Continuity: Test all feeder and branch for continuity. Test all neutrals for improper grounds.
  - 2. Lighting Operation: Test lighting circuits for correct operation through their control devices, including photoelectric controls and time switch controls.
  - 3. Grounds: Perform ground resistance tests for ground rods, and concrete encased electrodes, and continuity of grounding electrode conductors, and equipment grounding conductors. Use Biddle Ground Megger or AMP ground resistance tester.

4. Circuit Numbering Verification: Select on a random basis various circuit breakers in the panelboard and cycle them on and off to verify compliance of the typed panel directories with actual field wiring.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this Section shall be paid for at the lump sum price bid for the Electrical work and shall include full compensations for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in the Electrical work.

END OF SECTION

**SECTION 312100**

**SITE GRADING**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. Site grading and filling to indicated elevations, profiles and contours.
- B. Subgrade preparation for structure slabs, curbs, walks, paving and electrical trenching.

1.3 RELATED WORK

- A. Section 024113 – Selective Site Demolition

1.4 REFERENCES AND STANDARDS

- A. Standard Specifications: Where referred to in these Specifications, "State Specifications" shall mean the California CalTrans Specifications, latest edition.
- B. Percent Compaction: As referred to in these Specifications, percent compaction or relative compaction is required in-place dry density of the material determined by the Engineer in accordance with the ASTM Test Method D1557-78.
- C. American Society for Testing and Materials, (ASTM).

1.5 QUALITY ASSURANCE

- A. Earthwork shall comply with these specifications and all applicable sections of the above named References and Standards.
- B. Testing: Performed by a qualified independent testing laboratory, under the supervision of a registered professional engineer, specializing in soils engineering.
- C. The Owner will provide and pay for testing during Site Grading operations as follows:
- D. The Owner will pay for the first round of compaction and/or other required testing in any specific area.
- E. Re-testing of failed compaction and/or other testing shall be paid for by the Contractor.

- F. Tolerances:
  - 1. Grading under this Section shall be to a tolerance as follows:
    - a. Areas 4:1 and Flatter: Plus or minus one-tenth of a foot (0.1'); however, the average grade over any one 50 foot square or 50 lineal feet of paving shall not vary more than 0.05' from the average grade shown on the Drawings.
    - b. Slopes Steeper than 4:1 plus or minus 0.5'.
- G. Layout of the Work: A licensed surveyor or registered civil engineer shall lay out and establish all lines, levels, grades and positions of all parts of the work.

## 1.6 SUBMITTALS

- A. Submit a diagrammatic plan of the fill from the road to be placed, until needed.

## 1.7 PROJECT CONDITIONS

- A. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights during hours from dusk to dawn each day and as otherwise required. Provide signs redirecting vehicular and pedestrian traffic.
- B. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by grading operations.
- C. Use all means necessary to control dust on or near the work. Thoroughly moisten all surfaces as required to prevent dust from becoming a nuisance to the public, neighbors, and concurrent performance of other work on the site.
- D. Tree Protection: Protect all trees indicated on the Drawings to remain.
- E. Promptly repair damage to adjacent facilities caused by earthwork operations. Cost of repair at Contractor's expense.
- F. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the City Engineer immediately for directions as to procedure. Cooperate with Owner and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.
- G. Locate, protect, and maintain bench marks, monuments, control points and project engineering reference points. Re-establish disturbed or destroyed items at Contractor's expense.

## PART 2 - PRODUCTS

### 2.1 GENERAL

- A. Approval Required: If fill material is required, it shall be subject to approval of the City Engineer.
- B. Notification: For approval of imported fill material (if required), notify the City Engineer at least 5 (five) working days in advance of intention to import material, designate the proposed borrow

area, and permit the Engineer to sample as necessary from the borrow area for the purpose of making acceptance tests to prove the quality of the material.

## 2.2 BACKFILL AND FILL MATERIALS

A. General: Provide acceptable soil materials for backfill and fill as follows:

1. Material for use as fill shall be any nonexpansive soil which, in the opinion of the Geotechnical Engineer, is suitable for use in constructing fills and which contains no rocks 6 inches or larger in greatest dimension with not more than 15 percent larger than 2.5 inches, and which contains at least 40 percent material smaller than 1/4 inch in diameter.
2. Nonexpansive soils are defined as those soils which have a liquid limit less than 30 percent, a plasticity index less than 12 percent, and which swell less than 3 percent when compacted as hereinafter specified for compacted fill.
3. On-site material meeting requirements specified may be used as fill.
4. Provide imported fill material as required to complete the work. Obtain rights and pay all cost for imported materials.
5. No material of a perishable, spongy, or otherwise improper nature shall be used in the fills.

## PART 3 - INSTALLATION

### 3.1 INSPECTION

- A. Examine the substrate under which the earthwork is to be done. Notify the City Engineer, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Establish extent of grading and excavation by area and elevation. Designate and identify datum elevation and project engineering reference points. Set required lines, levels, and elevations.
- B. Do not cover or enclose work of this Section before obtaining required inspections, tests, approvals, and location recording.

### 3.3 EXISTING UTILITIES

- A. Before starting grading and excavation, establish the location and extent of underground utilities in the work area by all means necessary including conductive, and electromagnetic field induction, and radio frequency toning. Exercise care to protect existing utilities during earthwork operations. Perform excavation work near utilities by hand and provide necessary shoring, sheeting, and supports as the work progresses.
- B. Maintain, protect, relocate, or extend as required, existing utility lines to remain which pass through the work area. Pay costs for this work, except as covered by the applicable utility companies.
- C. Protect active utility services uncovered by excavation.

- D. Remove abandoned utility service lines from areas of excavation. Cap, plug, or seal abandoned lines and identify termination points at grade level with markers.
- E. Accurately locate and record abandoned and active utility lines rerouted or extended on project record documents.

### 3.4 LINES AND LEVELS

- A. Finished grades shown on Plans are given in feet and decimals of feet and are to be the top of all graded or paved surfaces. Slope uniformly between given spot elevations unless otherwise indicated.
- B. Transition between changes in vertical gradient of walks and paving shall be smooth and gradual with no abrupt or sharp changes.
- C. Horizontal curves and radii shall be laid out tangent to adjacent straight lines or adjacent compound curves. Curves shall be smooth and flowing.
- D. Horizontal layout shall not vary more than 1 inch from dimensions indicated on the Drawings. Make minor field adjustments in the layout as necessary to make radii tangent and curves smooth and flowing as indicated on the Drawings.

### 3.5 SITE GRADING

- A. Perform grading within contract limits, including adjacent transition areas, to new elevations, levels, profiles, and contours indicated. Provide subgrade surfaces parallel to finished surface grades. Provide uniform levels and slopes between new elevations and existing grades.
- B. Grade surfaces to assure areas drain away from structures and to prevent ponding and pockets of surface drainage. Provide subgrade surfaces free from irregular surface changes and as follows:
  - 1. Rough Grading: Plus or minus 0.10 ft. subgrade tolerance. Finish required will be that ordinarily obtained from either blade-grader or scraper operations.
  - 2. Provide subgrade surface free of exposed boulders or stones exceeding 4" in greatest dimension in paved areas; 2" in lawn and planting areas.
  - 3. Paved Areas: Shape surface of subgrade areas to line, grade and cross-section indicated. Provide compacted subgrade suitable to receive paving base materials. Subgrade tolerance plus 0, minus 1/2".
- C. Grading at existing trees to remain:
  - 1. Review each existing tree condition with the City Landscape Architect and obtain written approval of the grading approach to be taken.
  - 2. Perform grading, within drip line of existing trees to remain, by hand methods to elevations indicated.
  - 3. Cut roots cleanly to depth 3" below proposed finish grade. Coat cut roots 1-inch in diameter and larger with tree seal.

3.6 EXCAVATING

- A. Excavate for structures to elevations and dimensions shown. Extend excavation a sufficient distance from foundations to permit placing and removal of formwork, installation of materials, services, and inspection. Hand trim foundation excavations to final grade just before concrete is placed. Remove loose, soft materials, and all organic matter. Footings shall bear on approved undisturbed bearing soil.
- B. Obtain inspection and testing of foundation excavations by the City Engineer before concrete is placed.
- C. Excavate for curbs, walks, and paving to cross-sections, elevations, and grades indicated. Allow for base material.
- D. Earth excavation shall include the satisfactory removal and disposal of all materials encountered, regardless of the nature of the materials, the condition of the materials at the time they are excavated, or the manner in which they were excavated.
- E. Overexcavate and remove unsatisfactory soil materials extending below required elevations to depth as directed by the City Engineer.
- F. Unauthorized excavation consists of removal of materials without specific direction of the City Engineer.
  - 1. Under footings, foundation bases, or retaining walls, fill unauthorized excavation by extending the indicated bottom elevation of the footing or base to the excavation bottom, without altering required top elevation. Lean concrete fill may be used to bring elevations to proper position, only when acceptable to the City Engineer.
  - 2. Elsewhere, backfill and compact unauthorized excavations as specified for authorized excavations of same classification, unless otherwise directed by the City Engineer.
- G. Shore, sheet, or brace excavations as required to maintain them secure. Remove shoring and bracing as backfilling progresses, when banks are safe against caving.
- H. Do not excavate footings or slabs to the full depth when freezing temperature may be expected, unless footings or slabs are placed immediately after the excavation has been completed. Protect excavation bottoms from freezing when the placing of concrete is delayed.

3.7 MOISTURE CONDITIONING AND SURFACE RECOMPACTION IN FILL AREAS

- A. Prior to placing any fill, scarify exposed competent foundation bearing soils to a depth of 6" and re-compact as herein specified for compacted fill.
- B. Cut out soft areas of exposed soils not readily capable of insitu compaction. Backfill with select fill or approved on-site soils and compact to density equal to requirements for subsequent backfill material.
- C. Obtain the City Engineer's approval of subgrade prior to filling.

3.8 FILLING, BACKFILLING AND COMPACTING

- A. Obtain the City Engineer's approval of all fill material.

- B. Spread approved fill material uniformly in layers not greater than 8" of loose fill thickness over entire fill area.
  - 1. Lift thickness requirements may be modified by the City Engineer to suit equipment and materials or other conditions when required to assure satisfactory compaction.
  - 2. Moisture-condition fill material by aerating or watering and thoroughly mix material to obtain moisture content permitting proper compaction.
  - 3. Place and compact each layer of fill to indicated density before placing additional fill material. Repeat filling until proposed grade, profile, or contour is attained.
  - 4. Suspend fill operations when satisfactory results cannot be obtained because of environmental or other unsatisfactory site conditions. Do not use muddy or frozen fill materials. Do not place fill material on muddy or frozen subgrade surface.
  - 5. Maintain surface conditions that permit adequate drainage of rainwater and prevent ponding of surface water in pockets. When fill placement is interrupted by rain, remove wet surface materials or permit to dry before placing additional fill material.
  
- C. Place backfill materials in uniform layers not greater than 8" loose thickness over entire backfill area.
  - 1. Place and compact each layer of backfill to the specified density before placing additional backfill.
  - 2. Use hand tampers or vibrating compactors at foundation and similar locations. Do not use large rolling equipment adjacent to foundations.
  - 3. Do not backfill against foundations until bearing surfaces have reached design strength or are properly braced, and backfilling operations approved. Provide clean backfill materials, except where granular materials are indicated. Compact in maximum 8" layers.
  
- D. Fill all areas of settlement to proper grade before subsequent construction operations are performed.
  
- E. Compaction:
  - 1. Provide compaction control for all fill and backfill.
  - 2. Compact each layer of approved fill or backfill material at foundations, slabs-on-grade, and paved areas to 95%. Extend compaction at least 5'-0" at both sides of foundations and retaining walls and at least 1'-0" beyond slabs-on-grade and paving.
  - 3. Compact top 6" of subgrade and each layer of fill material at lawns and unpaved areas to 85%.
  - 4. Water settling, puddling, and jetting of fill and backfill materials as a compaction method are not acceptable.
  - 5. Maintain moisture content of materials, during compaction operations within required moisture range to obtain indicated compaction density.
  - 6. Provide adequate equipment to achieve consistent and uniform compaction of fill and backfill materials.

### 3.9 PREPARATION OF SUBGRADE FOR PAVING

- A. Grade and compact areas to be paved as hereinbefore specified and required to accommodate pavement construction including base material.

- B. Where subgrade for paving is at existing grade and no excavating or filling has been done, prepare the subgrade as herein specified for Moisture Conditioning and Surface Recomposition in Fill Areas.

3.10 FIELD QUALITY CONTROL

- A. Quality-Control Testing During Construction: Testing service must inspect and approve subgrades and fill layers before further construction work is performed thereon.
- B. When, during progress of work, field tests indicate that installed, compacted materials do not meet specified requirements, provide additional compaction until specified density is achieved, or remove and replace defective materials with new materials as directed by the City Engineer. Cost of additional labor, materials, and testing to attain specified density at Contractor's expense.

3.11 DISPOSAL AND WASTE MATERIALS

- A. Stockpile, haul from site, and legally dispose of, at Contractor's expense, all waste materials, including excess soil from grading operations, excess excavated materials, rock, trash, and debris.
- B. Maintain disposal route clear, clean, and free of debris.

3.12 CLEANUP

- A. Upon completion of earthwork operations, clean areas within contract limits, remove tools and equipment. Provide site clear, clean, free of debris, and suitable for site work operations.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this section shall be paid for at the lump sum price bid for Site Grading and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Site Grading, and related incidental work.

END OF SECTION

**SECTION 321216**

**ASPHALTIC CONCRETE PAVING**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Aggregate base.
  - 2. Asphaltic concrete paving, as indicated and detailed on the Landscape Drawings, and herein specified.

1.3 RELATED WORK

- A. Section 312100 - Site Grading
- B. Section 327010 - Site Concrete

1.4 REFERENCES AND STANDARDS

- A. Standard Specifications: Where referred to in these Specifications, "State Specifications" shall mean the California CalTrans Specifications, latest edition.
- B. Percent Compaction: As referred to in these Specifications, percent compaction or relative compaction is required in-place dry density of material expressed as a percentage of the maximum dry density of the same material determined in accordance with the ASTM Test Method D-1557-78 (C). Optimum moisture content is the moisture content corresponding to the maximum dry density determined by the ASTM Test Method D-1557-78 (C).
- C. American Society for Testing and Materials, (ASTM).
- D. American Association of State Highway and Transportation Officials, (AASHTO).
- E. Asphalt Institute,(AI).

1.5 QUALITY ASSURANCE

- A. Asphaltic concrete paving shall comply with these specifications and all applicable sections of the above-named references and standards.
- B. Installation: Performed only by skilled workmen with satisfactory record of performance on completed projects of comparable size and quality.
- C. Provide material furnished by a bulk asphaltic concrete producer regularly engaged in the production of hot-mix, hot-laid asphaltic concrete paving materials.
- D. Tolerances:
  - 1. In-place compacted thickness:
    - a. Base course: Maximum 2" plus, minus 0".
    - b. Surface course: Maximum 1/4" plus, minus 0".
  - 2. Finished surface smoothness:
    - a. Base course: Maximum 3/8" in 10'-0".
    - b. Surface course: Maximum 1/4" in 10'-0", any direction.

1.6 SUBMITTALS

- A. Product Data:
  - 1. Submit complete materials list of items proposed for the work. Identify materials source.
  - 2. Submit pavement surface sealer and soil sterilizer product data.
- B. Material Certificates - Asphalt Concrete Paving: Provide materials certificates signed by the material producer and the Contractor, certifying that each material item complies with, or exceeds, specified requirements.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver manufactured products in manufacturer's original, unopened, and undamaged containers with labels intact and legible.
- B. Store and handle manufactured products to prevent damage and deterioration.

1.8 PROJECT CONDITIONS

- A. Review installation procedures and coordinate paving work with other work affected by asphaltic concrete paving work.
- B. Weather Limitations:
  - 1. Do not install base course materials over wet or frozen subgrade surfaces.
  - 2. Install asphalt surface materials only when base is dry and air temperature is 50 degrees F. or above.

- C. Provide temporary barricades and warning lights as required for protection of project work and public safety.
- D. Protect adjacent work from damage, soiling, or staining during paving operations.

1.9 CITY ENGINEER

- A. The Engineer will inspect subgrade and aggregate base prior to installation of paving.

PART 2 - PRODUCTS

2.1 AGGREGATE BASE

- A. Class 2 Aggregate Base conforming to requirements of Section 26 of the State Specifications.

2.2 ASPHALTIC CONCRETE

- A. Surface-Course Aggregate: Medium-graded aggregate conforming to Type B, Section 39 of the State Specifications.

- 1. Paths, Walks and Miscellaneous: maximum size 3/8-inch

<u>Sieve Sizes</u> (Square Openings)	<u>Percentage Passing Sieves</u>
¾ inch	100
½ inch	95-99
3/8 inch	75-95
No. 4	56-66
No. 8	38-49
No. 30	15-27
No. 200	2-8

- B. Paving Asphalt: Comply with Section 92 of the State Specifications for viscosity grade AR4000.

2.3 TACK COAT

- A. Asphaltic emulsion, 55 pound conforming to requirements of Sections 37 and 94 of the State Specifications.

2.4 SEAL COAT

- A. Pavement Surface Sealer: "Plush Tex"; Kosh Industries or approved equivalent and CARB requirements.

2.5 SOIL STERILIZER

- A. Granular weed growth inhibiting type herbicide, labeled for use under asphaltic concrete pavement surfaces. Material shall not damage trees and plants adjacent to pavement surfaces.

PART 3 - INSTALLATION

3.1 INSPECTION

- A. Examine the substrate under which asphaltic concrete paving is to be installed. Notify the City Engineer, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

3.2 LINES AND LEVELS:

- A. Finished grades shown on Plans are given in feet and decimals of feet and are to be the top of all graded or paved surfaces. Slope uniformly between given spot elevations unless otherwise indicated.
- B. Surfaces shall be true to within 1/4 inch when tested in any direction with a 10-foot straightedge. There shall be no pools of water standing on the pavement after a rain.
- C. Transition between changes in vertical gradient of walks and paving shall be smooth and gradual with no abrupt or sharp changes.
- D. Horizontal curves and radii shall be laid out tangent to adjacent straight lines or adjacent compound curves. Curves shall be smooth and flowing.
- E. Horizontal layout shall not vary more than 1 inch from dimensions indicated on the Drawings. Make minor field adjustments in the layout as necessary to make radii tangent and curves smooth and flowing as indicated on the Drawings.

3.3 PREPARATION OF SUBGRADE

- A. Specified in Section 312100 - Site Grading

3.4 AGGREGATE BASE

- A. Do not install until subgrade has been approved by the City Engineer.
- B. Spread the aggregate base on the prepared subgrade to such a depth that when thoroughly compacted it will conform to the grades and dimensions shown on the Drawings. Spread and compact to 95 percent in accordance with Section 26 of the State Specifications. The finished surface shall be smooth, hard, and true to line and grade.

3.5 SOIL STERILIZER

- A. Treat scheduled paved areas subgrade with soil sterilizer herbicide. Apply herbicides in strict accordance with manufacturer's installation instructions and recommended application rates.

3.6 TACK COAT

- A. Apply to contact surfaces of previously constructed asphalt or Portland cement concrete and surfaces abutting or projecting into asphalt concrete pavement.
- B. Allow to dry until at proper condition to receive paving.
- C. Protect exposed adjacent surfaces from staining.

3.7 ASPHALT CONCRETE:

- A. Spread and compact asphalt concrete surfacing in accordance with Section 39, State Specifications. The surface shall be clean and free of excess water.
- B. Avoid damaging the edges of adjoining concrete surfaces, roads, buildings, walks, or other surfaces.
- C. Asphalt concrete mix temperature shall never be less than 250 degrees. Combined mix temperature and air temperature shall be held between 280 degrees minimum and 375 degrees maximum.

3.8 SURFACE SEALER

- A. Clean asphalt paving surface of all stains, oil, dirt and other debris.
- B. Apply sealer to dry pavement in accordance with the manufacturer's printed instructions.

3.9 CLEANING

- A. Perform cleaning during installation of the work and upon completion of the work. Remove from site all excess materials, debris, and equipment. Repair damage resulting from asphaltic concrete operations.

PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this section shall be paid for at the lump sum price bid for the Asphaltic Concrete Paving and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Asphaltic Concrete Paving, and related incidental work.

END OF SECTION

**SECTION 321440**

**STONE PAVING**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.
- B. Section includes:
  - 1. Furnish and install Granite Paving, Military Pillars, Granite Statue base, Granite Bench and Granite curb.
  - 2. Etch and engrave letters on Granite. Artwork and names provided by City of Pleasanton.
- C. Related Sections:
  - 1. Section 101400 – Exterior Signage
  - 2. Section 327010 – Site Concrete
  - 3. Section 265000 - Site Electrical

1.2 REFERENCES

- A. ASTM A 123-02: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- B. ASTM C 97-02: Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone.
- C. ASTM C 119-04: Terminology Relating to Dimension Stone
- D. ASTM C 170-90 (1999): Test Method for Compressive Strength of Dimension Stone
- E. ASTM C 270-03: Specification for Mortar for Unit Masonry
- F. ASTM C 568-03: Specification for Limestone Dimension Stone
- G. ASTM C 615-03: Specification for Granite Dimension Stone
- H. ASTM C 880-98: Test Method for Flexural Strength of Dimensional Stone

1.3 DEFINITIONS

- A. Definitions contained in ASTM C 119 apply to this Section.
- B. Metric conversions: use the following for metric conversions

- C. Metric Conversions: The following metric conversions shall apply where English measurements are indicated in the text:
1. 1/16 inch (1.5 mm)
  2. 1/8 inch (3 mm)
  3. 3/16 inch (5 mm)
  4. 1/4 inch (6 mm)
  5. 5/16 inch (8 mm)
  6. 3/8 inch (10 mm)
  7. 1/2 inch (12 mm)
  8. 5/8 inch (15 mm)
  9. 13/16 inch (20 mm)
  10. 1 inch (25 mm)
  11. 1-3/16 inches (30 mm)
  12. 1-1/4 inches (32 mm)
  13. 1-1/2 inches (40 mm)
  14. 1-5/8 inches (40 mm)
  15. 2 inches (50 mm)
  16. 3 inches (75 mm)
  17. 4 inches (100 mm)
  18. 6 inches (150 mm)
  19. 8 inches (200 mm)
  20. 12 inches (300 mm)

#### 1.4 SUBMITTALS

- A. Product Data: For each stone type and each manufactured product shown on Drawings or specified.
1. For each stone variety used on Project, include physical property data.
- B. Shop Drawings: Show fabrication and installation details for stone:
1. Include dimensions and profiles of stone units.
- C. Samples: Submit samples for each stone type required, exhibiting the full range of color characteristics expected.
1. Submit a minimum of 2 each, 12 inches x 12 inches in size, in each color and finish specified.
  2. In the case of more variegated stones, color photos shall be submitted in addition to the number of samples to show the full range of color and markings to be expected.
  3. Mortar Samples: Full range of exposed color and texture.
  4. Grout and Sealant Samples For each type and color of joint grout and sealant required.

- D. Preliminary Test Reports: Submit test reports for proposed stones prior to final stone selection. Preliminary test reports shall be indicative of the stone to be proposed for the project.
  - 1. Testing of production stone is required in addition to preliminary test reports.
- E. Certification: Submit a letter of certification from the stone fabricator, stating the material being furnished is the specified material and there are sufficient reserves available to supply the project and furnish replacements if needed.
- F. Material Test Reports: From a qualified independent testing agency, as follows:
  - 1. Provide reports for each stone type.
  - 2. For metal components.
- G. Qualification Data: Submit qualification data as specified under Article, "Quality Assurance" for the following:
  - 1. Installer: shall have a minimum five years experience on the satisfactory installation of granite monuments, pillars, bases, paving and curbs.
  - 2. Fabricator: shall have a minimum five years experience on the satisfactory fabrication of the granite monuments, pillars, bases, paving, curbs and lettering (etched and engraved).

#### 1.5 QUALITY ASSURANCE

- A. Source Limitations for Stone: Obtain each stone variety from a single quarry.
  - 1. Make quarried blocks available for examination by Landscape Architect.
- B. Qualifications:
  - 1. Installer Qualifications: Engage experienced installer that has completed stone installation similar in material, design, and extent to that indicated for the project.
  - 2. Fabricator Qualifications: Engage experienced fabricator that has completed stone fabrication similar in material, design, and extent to that indicated for the project.
- C. Preconstruction Stone Testing: Engage an independent testing agency to perform the following testing for each stone variety:
  - 1. Furnish test specimens that are representative of materials.
  - 2. Physical Property Tests: ASTM standards specified for stone type.
  - 3. Flexural Strength Tests: ASTM C 880
- D. Mockups: Build mockup of typical areas as shown on Drawings. Provide one example of the engraving layout and one example of the laser etched photo montage.
  - 1. Size:
    - a. 18 inches x 18 inches
  - 2. Color consistency: demonstrate color consistency with mockup; color range shall not exceed range of color established by samples.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle materials to prevent deterioration or damage.

1. Stone shall be carefully packed and loaded for shipment using reasonable care and customary precautions against damage in transit. Material, which may cause staining or discoloration shall not be used for blocking or packing.
2. The stone shall be stacked on timber or platforms at least 4 inches above the ground. Care shall be taken to prevent staining or discoloration during storage.
3. If storage is to be for a prolonged period, polyethylene or other suitable plastic film shall be placed between wood and finished surfaces of completely dry stone.

B. Properly store cementitious materials. Do not use damp cementitious materials.

#### 1.7 PROJECT CONDITIONS

- A. Cold-Weather Requirements for Exterior Stone Paving: ACI 530.1/ASCE 6/TMS 602.
- B. Hot-Weather Requirements for Exterior Stone Paving: ACI 530.1/ASCE 6/TMS 602:

### PART 2 - PRODUCTS

#### 2.1 STONE SOURCE

- A. Varieties and Source: Subject to compliance with requirements, provide stone of the following variety and from the following source:
  1. Granite Source: Coldspring or US manufactured equal.

#### 2.2 GRANITE MATERIAL

- A. Granite: ASTM C 615.
- B. Cut stone from one block or contiguous, matched blocks in which natural markings occur.
- C. Granite Type: See drawings:
  1. Stone Variety: As noted on the Landscape drawings.
  2. Location:
    - a. Exterior Paving
  3. Finish: As noted on the Landscape drawings.
  4. Nominal Thickness: Not less than the following nominal thickness:
    - a. [13/16 inch (+1/8" -1/16")] [20 mm]
    - b. [1-3/16 inches (+1/8" -1/16")] [30 mm]
    - c. [1-9/16 inches (+1/8" -1/16")] [40 mm]
    - d. [1-15/16 inches (+1/8" -1/16")] [50 mm]

### 2.3 MORTAR MATERIALS

- A. Portland Cement: ASTM C 150, Type I or Type II, except Type III may be used for cold-weather construction.
- B. Hydrated Lime: ASTM C 207.
- C. Portland Cement-Lime Mix: ASTM C 150, Type I or Type III, and ASTM C 207.
- D. Colored Portland Cement-Lime Mix: ASTM C 150, Type I or Type III; ASTM C 207; and mortar pigments.
- E. Aggregate: ASTM C 144.
- F. Mortar Pigments: Natural and synthetic iron oxides. Use only pigments with a record of satisfactory performance in mortar and containing no carbon black.
- G. Latex Additive: Acrylic-resin water emulsion recommended by additive manufacturer for use with field-mixed portland cement mortar bed.
- H. Thin-Set Mortar: Latex-Portland Cement Mortar: ANSI A118.4. Provide products by one of the following:
- I. Water: Potable.

### 2.4 GROUT

- A. Grout Colors: Submit samples.
- B. Polymer Modified Cement Grout: ANSI A118.7.
  - 1. Polymer Type: Acrylic resin in liquid-latex form for addition to prepackaged dry-grout mix.

### 2.5 ACCESSORIES

- A. Reinforcing Wire: ASTM A 185 and ASTM A 82 except for minimum wire size.
- B. Cleaner: As recommended by stone producer.

### 2.6 STONE FABRICATION

- A. Select stone for intended use to prevent fabricated units from containing cracks, seams, and starts that could impair structural integrity or function.
- B. Fabricate stone to comply with requirements indicated and with the following references:
  - 1. Granite: NBGQA's "Specifications for Architectural Granite."
- C. Cut stone to produce pieces of thickness, size, and shape indicated, including details on Drawings and Shop Drawings.
  - 1. Pattern: As indicated on Drawings
  - 2. Joint Width: As indicated on Drawings.

- D. Carefully inspect finished stone units at fabrication plant for compliance with requirements. Replace defective units. Clean backs of stones to remove rust stains and iron particles.

## 2.7 MORTAR AND GROUT MIXES

- A. Mortar: Comply with referenced standards and with manufacturers' written instructions.
  - 1. Do not use admixtures. Do not use calcium chloride.
  - 2. Combine mortar materials and mix thoroughly. Discard mortar when it has reached initial set.
- B. Latex-Modified Portland Cement Setting Mortar: Proportion and mix portland cement, aggregate, and latex additive to comply with manufacturer's written instructions.
- C. Mortar-Bed Bond Coat: Mix neat cement and latex additive to a creamy consistency.
- D. Latex-Modified Portland Cement Bond Coat: Proportion and mix portland cement, aggregate, and latex additive to comply with manufacturer's written instructions.
- E. Cement-Paste Bond Coat: Mix either neat cement or cement and sand with water to a consistency similar to that of thick cream.
- F. Joint Grout: Comply with mixing requirements in referenced ANSI standards and with manufacturer's written instructions.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine surfaces indicated to receive stone.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Sweep concrete substrates to remove dirt, dust, debris, and loose particles.
- B. Remove substances from concrete substrates that could impair mortar bond.
- C. Clean dirty or stained stone surfaces before setting.
  - 1. Scrub with fiber brushes; drench with clear water.
  - 2. Use mild cleaning compounds.

### 3.3 INSTALLATION

- A. Do necessary field cutting as stone is set. Cut lines straight and true and finish field-cut edges to match shop-cut edges.
  - 1. Use power saws with diamond blades to cut stone.

- B. Set stone to comply with Drawings and Shop Drawings.
- C. Scribe and field-cut stone as necessary to fit at obstructions. Produce neat joints of size specified or indicated.
- D. Expansion- and Control-Joint Installation: Locate and install according to Drawings and Shop Drawings.

### 3.4 INSTALLATION TOLERANCES

- A. Variation in Line: Do not exceed 1/8 inch in 96 inches (3 mm in 2400 mm), 1/4 inch in 20 feet (6 mm in 6 m), or 3/8 inch (10 mm) maximum.
- B. Variation in Joint Width: Do not vary joint thickness more than 1/16 inch (1.5 mm) or 1/4 of nominal joint width, whichever is less.
- C. Variation in Surface Plane: Do not exceed 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 3/8 inch (10 mm) maximum from level or slope indicated.
- D. Variation in Plane between Adjacent Units (Lipping): Do not exceed 1/32-inch (0.8-mm) difference between planes of adjacent units.

### 3.5 INSTALLATION OF STONE DIRECTLY OVER CONCRETE

- A. Saturate concrete with clean water several hours before placing setting bed. Remove surface water about one hour before placing setting bed.
- B. Apply mortar-bed bond coat to damp concrete and broom to provide an even coating that completely covers the concrete. Do not exceed 1/16-inch (1.5-mm) thickness. Limit area of mortar-bed bond coat to avoid its drying out before placing setting bed.
  - 1. Place reinforcing wire mesh over concrete, lapped at joints by at least one full mesh and supported so mesh becomes embedded in middle of setting bed. Hold edges back from vertical surfaces about 1/2 inch (13 mm).
- C. Apply mortar bed to finished elevations indicated immediately after applying mortar-bed bond coat.
- D. Mix and place only that amount of mortar bed that can be covered with stone before initial set. Cut back, bevel edge, and discard material that has reached initial set before stone can be placed.
- E. Place stone before initial set of mortar occurs. Immediately before placing stone on setting bed, apply uniform 1/16-inch- (1.5-mm-) thick bond coat to bed or to back of each stone unit.
- F. Tamp and beat stone with a wooden block or rubber mallet.
  - 1. Set each unit in a single operation before initial set of mortar; do not return to areas already set.
- G. Rake out joints to depth required to receive grout or pointing mortar as units are set.
- H. Point joints after setting.

3.6 GROUTING

- A. Polymer-Modified Cement Grout for Stone Joints: ANSI A108.10 and manufacturer's written instructions.
  - 1. Do not use sanded grout for polished stone.
  - 2. Grout joints as soon as possible after initial set of setting bed. Finish joints by tooling to produce a slightly concave polished joint, free of drying cracks.
  - 3. Maintain grout in damp condition for seven days.

3.7 ADJUSTING

- A. Remove and replace stone not matching final samples and mockups.
- B. Remove and replace stone not complying with requirements.
- C. Replace non-complying stone to match final samples and mockups, comply with specified requirements. Replacement stone shall show no evidence of replacement.
- D. Patching: Minor patching in small areas may be acceptable if the repair does not distract from the overall appearance of the finished project.

3.8 PROTECTION

- A. Prohibit traffic from installed stone for a minimum of 72 hours.
- B. Protect during construction with nonstaining kraft paper, and cover with a layer of untreated plywood where adjoining areas require construction work access.

3.9 CLEANING

- A. Clean stone as work progresses. Remove mortar, sealant, and stains before tooling joints.
- B. Final Cleaning: Clean stone as recommended by fabricator or stone producer.
  - 1. Clean all finished stonework with a mild detergent using a fiber brush.
  - 2. After cleaning, rinse with clean water.
  - 3. Do not use acid or other caustic materials.
- C. When cleaning is completed, remove temporary protection.

PART 4 - MEASUREMENT AND PAYMENT

- A. All work under this section shall be paid for at the lump sum price bid for Stone Paving and shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in Stone paving and related incidental work.

END OF SECTION

**SECTION 327010**

**SITE CONCRETE**

PART 1 - GENERAL

1.1 PROVISIONS

- A. All work shall be constructed in accordance with the City of Pleasanton Standard Specifications and Details dated January 2011, and as augmented by these Specifications and Details dated June 2011, and as augmented by these Special Provisions. Where conflict exists between these documents and existing conditions, request clarification from the City Engineer.

1.2 SUMMARY

- A. This Section includes the following as indicated on the Landscape drawings:
1. Final subgrade preparation and paving base.
  2. Concrete paving, ADA ramps, score and expansion joints, concrete curb and gutter, flagpole footings, reinforcement and footings.
  3. Concrete bases for stone paving.
  4. Furnish and install truncated domes as specified in the drawings.
- B. Related Sections Include The Following:
1. Section 321440 – Stone Paving

1.3 REFERENCES AND STANDARDS

- A. Reference Standards apply to this Section and shall be the most current edition of the following:
1. American Concrete Institute (ACI) 211.1 "Recommended Practice for Selecting Proportions for Normal Concrete."
  2. ACI 301 "Specifications for Structural Concrete for Buildings."
  3. ACI 302.1R "Guide for Concrete Floor and Slab Construction."
  4. ACI 304 "Recommended Practice for Measuring, Mixing and Placing Concrete."
  5. ACI 305 "Recommended Practice for Hot Weather Concreting."
  6. ACI 306 "Recommended Practice for Cold Weather Concreting."
  7. ACI 308 "Recommended Practice for Curing Concrete."
  8. ACI Committee 309 "Recommended Practice for Consolidation of Concrete."
  9. ACI 318 "Building Code Requirements for Reinforced Concrete."
  10. American Society for Testing and Materials (ASTM) C94 "Specifications for Ready Mix Concrete."
  11. ASTM Specifications referenced for materials specified herein.

12. Cellular Concrete Association Guide Specification.

1.4 QUALITY ASSURANCE

- A. All site concrete work shall comply with these specifications and all applicable sections of the above named References and Standards.
- B. Design Criteria:
  - 1. Concrete: ACI 301, Chapter 3.
  - 2. Formwork Design: The contractor shall assume all responsibility for the safety of the formwork and shall provide all necessary design, construction, materials and maintenance to produce the required concrete work safely.
- C. Testing: Performed by a qualified independent testing laboratory selected and paid for by the Owner. The cost of re-testing rejected work shall be deducted from the amount due the Contractor for work under this section.
- D. Record of Work: Maintain field records of time, date of placing, curing, and removal of forms of concrete in each portion of work. Such record shall be available to the Architect for examination at any time.
- E. Sample Panels: Before installing concrete work, provide sample panels, of all specified finishes, minimum 3 feet x 3 feet, using specified materials. Show color, texture, pattern, edging, and joint treatments. Correct and rebuild sample panels until Architect's acceptance of the work. Retain panels during construction as a standard for completed concrete paving work.
- F. Do not change source or brands of cement and aggregate materials during the course of the work.
- G. Concrete finisher shall have a minimum 3 years' experience finishing high-volume fly ash concrete.
- H. Slip Resistance: Concrete walk surfaces shall have a minimum wet and dry coefficient of friction of 0.60 when tested in accordance with ASTM C1028.

1.5 SUBMITTALS

- A. Mix Designs: Submit concrete mix designs for each required concrete type. Obtain the City Engineer's written approval before placing concrete.
- B. Reinforcement Shop Drawings: Indicate bar sizes, spacing, locations and quantities of reinforcing steel and wire fabric, bending and cutting schedules and supporting and spacing devices.
- C. Product data:
  - 1. Submit complete materials list of items proposed for the work. Identify materials source.
    - a. Submit documentation of recycled content for products with specified recycled content.
  - 2. Submit admixture, curing compound, retarder, and accessory item product data.
  - 3. Submit material certificates for aggregates, reinforcing, joint fillers and sealants.

- a. Submit documentation of recycled content for products with specified recycled content.
- D. Submit concrete delivery tickets. Show the following:
- 1. Batch number.
  - 2. Mix by class or sack content with maximum size aggregate.
  - 3. Admixtures.
  - 4. Air content.
  - 5. Slump.
  - 6. Time of loading.
- E. Submit concrete test reports.
- F. Sealants: Submit samples and test data demonstrating that the proposed sealants will adhere to the surfaces to which they will be applied.
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Reinforcing: Unload and store on timber skids and keep free of mud.
- B. Concrete
- 1. Hauling Time: Discharge all concrete transmitted in a truck mixer, agitator or other transportation device within 1 1/2 hours, or 300 revolutions of the drum after mixing water has been added, whichever is greater.
- C. Deliver curing materials, admixtures, and retarders in manufacturer's standard unopened containers with labels legible and intact. Store and protect from freezing and damage.
- 1.7 PROJECT CONDITIONS
- A. Work notification: Notify City Engineer at least 24 hours prior to installation of concrete.
- B. Establish and maintain required lines and grade elevations. Refer to notes on the grading plans and Section covering site grading and/or earth moving
- C. Environmental Requirements
- 1. Cold Weather Placement: When depositing concrete when the mean daily temperatures are below 40 degrees F., comply with recommendations in ACI 306. Maintain concrete temperature at a minimum of 55 degrees F. for sections having a minimum dimension of less than 12 inches, or 50 degrees F. for sections having a minimum dimension of 12 inches or greater, for not less than 72 hours after depositing. The specified non-chloride accelerator or high early strength Type III cement may be used when approved by the Architect. Do not place concrete on days when the temperature at 9:00 a.m. is below 30 degrees F.
  - 2. Hot Weather Placement: When depositing concrete in hot weather, follow the recommendations in ACI 305. The temperature of concrete at time of placement shall not exceed 90 degrees F. Protect to prevent rapid drying.

- D. Do not install concrete work over wet, saturated, muddy, or frozen subgrade.
- E. Protect adjacent work.
- F. Provide temporary barricades and warning lights as required for protection of project work and public safety.

1.8 CITY ENGINEER

- A. The Engineer will inspect subgrade and aggregate base prior to installation of concrete work.

1.9 LAYOUT OF THE WORK

- A. A licensed surveyor or registered civil engineer shall lay out and establish all lines, levels, grades and positions of all parts of the work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portland cement: ASTM C150, Type 1, natural color; ACI 301 2.1.
- B. Pozzolans: Coal Fly Ash: ASTM C618; Class C or Class F.
- C. Aggregate: Provide ASTM C33 normal weight aggregates, 1" maximum size, clean, uncoated crushed stone or gravel coarse aggregate free of materials which cause staining or rust spots; fine aggregate shall be clean natural sand; ACI 301 2.4.
  - 1. Recycled crushed concrete aggregate, ASTM C33 may be used subject to approval by the City Engineer; minimum 25% desired.
- D. Water: Clean, fresh, and potable.
- E. Air-entraining admixture: ASTM C260; ACI 2.2; add as required in ACI 301 3.4.1.
- F. Water-reducing admixture: ASTM C494/A; ACI 301 2.2; Euclid, Master Builders Pozzolith, WR Grace or equivalent.
- G. The concrete shall not contain calcium chloride or admixtures containing more than 0.05% chloride ions or thiocyanates.

2.2 MIXES

- A. Provide ASTM C94 ready-mixed concrete. Batch mixing at site is not acceptable; ACI 301 3.8.
  - 1. Strength:
    - a. Concrete footing statue base and Paving: 3,000 psi minimum at 28 days; ACI 301 3.2.
    - b. All other concrete 2,500 psi minimum at 28 days; ACI 301.3.2.

2. Slump range: 2" to 4" maximum; ACI 301 3.5.
  3. Durability: ACI 301 3.4.
- B. Maximize cement content of mix:
1. Use a maximum 35% Fly Ash content of cementitious material.
- 2.3 Provide an approved water-reducing admixture in all concrete. Maximum amount of water shall not exceed 45% by weight of [cement + pozzolans].
- A. Provide an air-entraining admixture in all concrete. Air content 5% to 7%.
  - B. Indicate water added to mix at job site on each delivery ticket. Show quantity of water added. Site water tempered mixes exceeding specified slump range will be rejected as not complying with specification requirements.
- 2.4 REINFORCING STEEL (ACI 301 5.2)
- A. Use 60,000 psi yield strength for #5 and larger bars; 40,000 psi yield strength for #4 and smaller bars; conform to ASTM 615 plus (S1), Deformed Billet Steel Bars.
- 2.5 WELDED WIRE FABRIC (ACI 301 5.2.5)
- A. ASTM A185, welded plain cold-drawn steel wire fabric; 6"x 6", w 1.4 x w 1.4.
- 2.6 ACCESSORIES
- A. Aggregate Base Course: Untreated base courses shall be installed under paving where indicated in the Drawings. Material shall be 1-1/2 inch maximum size broken stone or crushed gravel conforming to the requirements of Class 2 aggregate base of Section 26-1 of the State Specifications.
  - B. Joint Filler: ASTM D1752 Type I, premolded non-extruding neoprene sponge rubber, thickness indicated; with removable polystyrene or PVC strip mechanically attached to the top edge.
  - C. Expansion Joint Dowels: No. 4 smooth steel dowels; cover one end with capped cardboard dowel sleeve.
  - D. Curing Compound: ASTM C309, non-yellowing, non-staining liquid membrane-forming type containing a fugitive dye. Chlorinated rubber compounds not acceptable for exterior use.
  - E. Joint Sealants: Two-component polysulfide or polyurethane elastomeric type complying with FS TT-S-00227, self-leveling, designed for foot traffic.
  - F. Form Release Agent: Non-staining chemical form release agent free of oils, waxes, and other materials harmful to concrete.
  - G. Rebar Supports: 100% recycled plastic.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the substrate under which the concrete work is to be installed. Notify the City Engineer, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. All foundation bearing surfaces shall be inspected and approved by the City Engineer prior to start of formwork.
- C. All formwork and reinforcing shall be reviewed and approved by the City Engineer prior to placement of concrete.

3.2 LINES AND LEVELS

- A. Finished grades shown on Plans are given in feet and decimals of feet and are to be the top of all graded or paved surfaces. Slope uniformly between given spot elevations unless otherwise indicated.
- B. Surfaces shall be true to within 1/8 inch when tested in any direction with a 10 foot straightedge. There shall be no pools of water standing on the pavement after a rain.
- C. Transition between changes in vertical gradient of walks and paving shall be smooth and gradual with no abrupt or sharp changes.
- D. Horizontal curves and radii shall be laid out tangent to adjacent straight lines or adjacent compound curves. Curves shall be smooth and flowing.
- E. Horizontal layout shall not vary more than 1 inch from dimensions indicated on the Drawings. Make minor field adjustments in the layout as necessary to make radii tangent and curves smooth and flowing as indicated on the Drawings.

3.3 PREPARATION

- A. Preparation of Subgrade: specified in Section 312100 - Site Grading.
- B. Aggregate Base
  - 1. Install under paving where indicated on the Drawings.
  - 2. Do not install until subgrade has been approved by the City Engineer.
  - 3. Spread the aggregate base on the prepared subgrade to such a depth that when thoroughly compacted it will conform to the grades and dimensions shown on the Drawings. Spread and compact in accordance with Section 26-1 of the State Specifications. The finished surface shall be smooth, hard, and true to line and grade.
- C. Remove loose material and debris from base surface before placing concrete.

### 3.4 FORMWORK AND REINFORCING

- A. General: Conform with ACI 301, Chapter 4.
- B. Install, align, and level forms. Stake and brace forms in place. Maintain following grade and alignment tolerances:
  - 1. Top of form: Maximum 1/8" in 10'-0".
  - 2. Vertical face: Maximum 1/4" in 10'-0".
- C. Construct formwork carefully so that straight lines are perfectly tangent to radii, curves are smooth and flowing, and transitions between changes in vertical gradient of curbs, flagpole foundations and paving are smooth and gradual with no abrupt or sharp changes.
- D. Coat form surfaces in contact with concrete with form release agent. Clean forms after each use and coat with form release agent as necessary to assure separation from concrete without damage.
- E. Locate, place, and support reinforcement as indicated on the Drawings.
  - 1. Paving:
    - a. Provide a single layer of welded wire fabric in all concrete under the granite paving.
    - b. Where indicated on the Drawings, provide reinforcing bars in concrete paving.
  - 2. Provide reinforcing bars in walls, curbs, steps, and other locations indicated, adequately supported and secured to prevent displacement.
- F. Install, set, and build-in work furnished under other specification sections. Provide adequate notification for installation of necessary items.

### 3.5 INSTALLATION

- A. Concrete Placement: (ACI 301 5.5.3)
  - 1. Comply with ACI 304 "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete", and as specified.
  - 2. Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placing, and curing. In cold weather comply with ACI 306, "Recommended Practice for Cold Weather Concreting". In hot weather comply with ACI 305, "Recommended Practice for Hot Weather Concreting."
  - 3. Moisten base to provide a uniform dampened condition at the time concrete is placed. Verify manholes or other structures are at required finish elevation and alignment before placing concrete.
  - 4. Place and spread concrete to the full depth of the forms. Use only square-end shovels or concrete rakes for hand-spreading and consolidating concrete. Exercise care during spreading and consolidating operations to prevent segregation of aggregate and dislocation of reinforcement.
  - 5. Place concrete in a continuous operation between expansion joints. Provide construction joints when sections cannot be placed continuously.
  - 6. Place concrete in one course, monolithic construction, for the full width and depth of concrete work. Provide minimum 4 inch thick walks and paving, except as otherwise indicated.

7. Strike-off and bull-float concrete after consolidating. Level ridges and fill voids. Check surface with a 10'-0" straightedge. Fill depressions and refloat repaired areas. Darby the concrete surface to provide a smooth level surface ready for finishing.
8. Do not clean concrete trucks and equipment on site; use a previously-designated approved site that meets environmental regulation.

### 3.6 JOINTS

- A. Construction Joints: locate and install where indicated, or if not indicated, so as to not impair the strength and appearance of the structure.
- B. Expansion Joints:
  1. Scope: install expansion joints in the following locations, whether shown on the drawings or not:
    - a. Concrete paving: minimum 20' O.C. and at all intersections.
  2. Hold joint filler straight, true to line and at proper level by stapling to 2X wood form; pour adjacent slabs separately.
  3. Neatly tool edges of joint flush with removable strip.
  4. Carefully remove the removable strip when concrete is sufficiently set.
  5. Avoid spawling tooled joint edges; any damaged edges shall be repaired to the satisfaction of the City Engineer.
- C. Score Marks:
  1. Tool score marks as indicated on the drawings.
  2. Tool straight lines with neatly formed radius edges; conform with details shown on the Drawings.

### 3.7 FINISHES

- A. Perform concrete finishing using mechanical or hand methods as required. Finishes shall match approved samples.
- B. Upon completion of floating, and after bleed water has disappeared and concrete can sustain foot pressure with nominal indentation, cut concrete away from forms. Work edges with an edging tool. Round edges to 1/4" radius.
- C. Paving to Receive Light Broom Finish:
  1. Screed and float paving to a smooth, even grade in accordance with the Drawings using overhead screeds where necessary to establish flow lines or grade breaks.
  2. Steel trowel to a smooth, hard finish.
  3. Using a stiff broom, strike clean, crisp broom marks across paving at right angles to the length of the ramp.
  4. Finish shall be uniform throughout in color and texture.
- D. Curbing::
  1. Neatly tool edges as detailed on the Drawings.

2. Bring exposed surfaces to a hard, smooth steel trowel finish and then finish with a fine hair broom to produce a uniform crisp, light broom finish parallel to the length of headers and dividers.
3. Finish of curb faces shall match finish of tops.

E. Subslabs for Stone Paving:

1. Screed and wood float to an even grade in accordance with the Drawings using overhead screeds as necessary to set flow lines.
2. Bring subslabs to a rough wood float finish to provide a good bond with masonry.
3. Set expansion joints accurately in relation to masonry paving modules; joints in subslabs shall align with joints in masonry paving.

3.8 SEALANTS

- A. Work under this Section includes furnishing and installation of all sealants, backing rods, primers and associated work and materials in expansion joints in concrete work.
- B. Prime joints and install per manufacturers printed instructions.
- C. Hold sealant flush with paving surface.
- D. Sealant shall be smooth with no voids or irregularities.

3.9 REPAIR OF SURFACE DEFECTS (ACI 301 9.1)

- A. Patching of tie holes is required.

3.10 CURING (ACI 301 12.1)

- A. Maintain concrete temperature as uniformly as possible, and protect from rapid atmospheric temperature changes.
- B. Apply curing compound in accordance with manufacturer's printed instructions.

3.11 FIELD QUALITY CONTROL (ACI 301, Chapter 16)

- A. Provide field quality control testing and inspection during concrete operations.
- B. Contractor shall provide adequate notice, cooperate with, provide access to the work, obtain samples, and assist test agency and their representatives in execution of their function.
- C. Testing:
  1. Provide slump test on first load of concrete delivered each day and whenever requested due to changes in consistency or appearance of concrete.
  2. Strength testing:

- a. Provide 1 set of 3 test specimens for each 50 cu. yd. placed in any one day. Secure samples in accordance with ASTM C172 and mold specimens in accordance with ASTM C31.
- b. Test 1 specimen at 7 days and 2 specimens at 28 days in accordance with ASTM C39.
- c. Furnish copies of field records and test reports as follows:
  - 1) 2 copies to City Engineer
  - 2) 1 copy to Contractor
  - 3) 1 copy to Ready Mix Supplier
3. Record the exact location of the concrete in the work represented by each set of cylinders and show on test reports.
4. Provide an insulated moist box for protection of the test cylinders until shipped to the laboratory.

### 3.12 MISCELLANEOUS CONCRETE REQUIREMENTS

- A. All other concrete work indicated on the drawings and/or required to complete all the work, shall be provided and installed, even though not specifically mentioned herein.

### 3.13 PROTECTION

- A. Protect concrete work from damage due to construction and vehicular traffic until final acceptance. Exclude construction and vehicular traffic from concrete pavements for at least 14 days.

### 3.14 CLEANING

- A. Perform cleaning during installation of the work and upon completion of the work.
- B. Remove all bituminous materials, form release agents, curing compounds or other materials employed in the work which would prevent proper application of sealants, liquid water proofing or other specified treatments.
- C. Remove from site all excess materials, debris, and equipment. Repair damage resulting from concrete operations.
- D. Repair any damage done to adjacent work to the satisfaction of the Owner.

## PART 4 - MEASUREMENT AND PAYMENT

- 4.1 All work under this section shall be paid for at the lump sum price bid for Site Concrete and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Site Concrete, and related incidental work.

END OF SECTION