

Meeting Date: 4/30/2013

Report Type: Consent

Report ID: 2013-00311



City Council Report

915 I Street, 1st Floor

www.CityofSacramento.org

Title: Contract Award: East Sacramento Water Main Replacement Phase 1

Location: District 3

Issue: This project installs water meters required under Assembly Bill 2572 and replaces water distribution mains that have exceeded their useful life.

Recommendation: Pass a Motion approving the contract plans and specifications for the project, and awarding the contract to T & S Construction Co., Inc., for an amount not to exceed \$3,551,876.

Contact: Bill Busath, Engineering Manager, (916) 808-1434; Dan Sherry, Supervising Engineer, (916) 808-1419, Department of Utilities

Presenter: None

Department: Department Of Utilities

Division: Cip Engineering

Dept ID: 14001321

Attachments:

1-Description/Analysis

2-Background

3-Location Map

4-Contract Specifications

City Attorney Review

Approved as to Form

Joe Robinson

4/17/2013 2:30:55 PM

City Treasurer Review

Reviewed for Impact on Cash and Debt

Russell Fehr

4/9/2013 10:54:29 AM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 4/16/2013 3:47:25 PM



Description/Analysis

Issue Detail: This project installs water meters required under Assembly Bill 2572 and replaces water distribution mains that have exceeded their useful life.

Policy Considerations: This action is in conformance with City Code Chapter 3.60 Articles I and III, which provide that the City Council may award competitively bid contracts to the lowest responsible bidder.

This action advances the City's obligation to meet the requirements of Assembly Bill 2572 and City Ordinance 2005-090, which require the installation of water meters on all service connections by the year 2025.

Economic Impacts: This infrastructure repair project is expected to create 15.6 total jobs (9.4 direct jobs and 6.2 jobs through indirect and induced activities) and create \$2,406,300 in total economic output (\$1,515,969 of direct output and another \$890,331 of output through indirect and induced activities).

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations: California Environmental Quality Act: The Community Development Department, Environmental Planning Services Division, has reviewed the proposed project and has determined that this project is categorically exempt from the California Environmental Quality Act (CEQA), under CEQA Guidelines Section numbers 15301, 15302(c), and 15303. The project would have no significant impact on the environment. The project consists of: installing water meters that connect to the existing utility system involving a minor alteration of that system (CEQA Guidelines Section 15301); the replacement of existing water utility systems involving negligible expansion of capacity (CEQA Guidelines Section 15302(c)); and the installation of new water meters (equipment) (CEQA Guidelines Section 15303).

Sustainability: The project is consistent with the Sustainability Master Plan goal to help to improve water conservation awareness, by providing a monthly statement of water usage to the customers. The placement of water meters,

where none previously existed, also furthers the City's progress in implementing the Water Forum Agreement and the California Urban Water Conservation Council Best Management Practices (BMPs 1, 4, and 7).

Commission/Committee Action: Not Applicable

Rationale for Recommendation: After the plans and specifications were completed, the project was formally advertised to solicit public bids. On March 27, 2013, the City Clerk opened seven bids. T & S Construction Co., Inc is the lowest responsive and responsible bidder.

Financial Considerations: On February 26, 2013, City Council approved the issuance and sale of Water Revenue Bonds to finance improvements of approximately \$239.5 million for the City's water system. Approximately \$4 million of these bonds will be used for the East Sacramento Water Main Replacement Project Phase 1.

The total cost for this rehabilitation project, including design, environmental, construction, construction management, and contingencies is estimated to be \$4.2 million. There is sufficient funding in Z14010061 (Water Funds (6005) of \$251,000 and Water Bond Funds (6310) of \$4 million) to award the construction contract and agreements. This action has no impact on the General Fund.

Emerging Small Business Development (ESBD): This project included a participation goal of 20% for emerging and small business enterprises (ESBEs) as required by Ordinance 99-007 and Resolution 99-055, relating to ESBD participation goals and policies, adopted by the City Council on February 9, 1999. The lowest responsible bidder, T & S Construction Co., Inc exceeds this goal with an ESBE participation level of 20.74%.

BACKGROUND

This project will replace the existing water distribution mains and install new water meters in the East Sacramento area. The existing water distribution system consists of old cast iron, transite and welded steel water mains found mainly within residential backyards. These mains require frequent maintenance to repair leaks and have passed the end of their useful life. Fire protection is inadequate in segments of the project area due to poor fire hydrant spacing. Therefore, additional fire hydrants will be added to the area to improve the existing fire protection.

This area has also been incorporated into the City's Water Meter Retrofit Program. The purpose of this program is to meet the requirements of Assembly Bill 2572 and City Ordinance 2005-090, which require the installation of water meters on all water service connections by the year 2025.

The project objective is to improve water system reliability, increase fire protection, and advance the City's obligation to meet AB 2572 requirements. This will be accomplished by the following:

- Abandoning existing 6", 8" and 10" water mains located within McKinley Blvd, C Street, Elvas Avenue and in residential backyards.
- Constructing approximately 24,000 lineal feet of new water mains within the public right of way.
- Install new fire hydrants to meet current fire safety standards.
- Construct 433 new residential water services with water meters.
- Retrofit 31 existing residential water services with new water meters.

To provide residents within the area notice of the project and an opportunity to express any concerns regarding the project, the Department of Utilities will distribute an informational letter containing a project description, projects limits map, water meter FAQ sheets, and contact information. A public meeting will be held on April 30, 2013, to provide further opportunity for comment. The outreach plan also includes:

- Preconstruction notification postcards and project signs.
- Informational door hangers will be provided by the Contractor at project milestones.
- Water conservation packets will be provided to residents following the water meter installation.

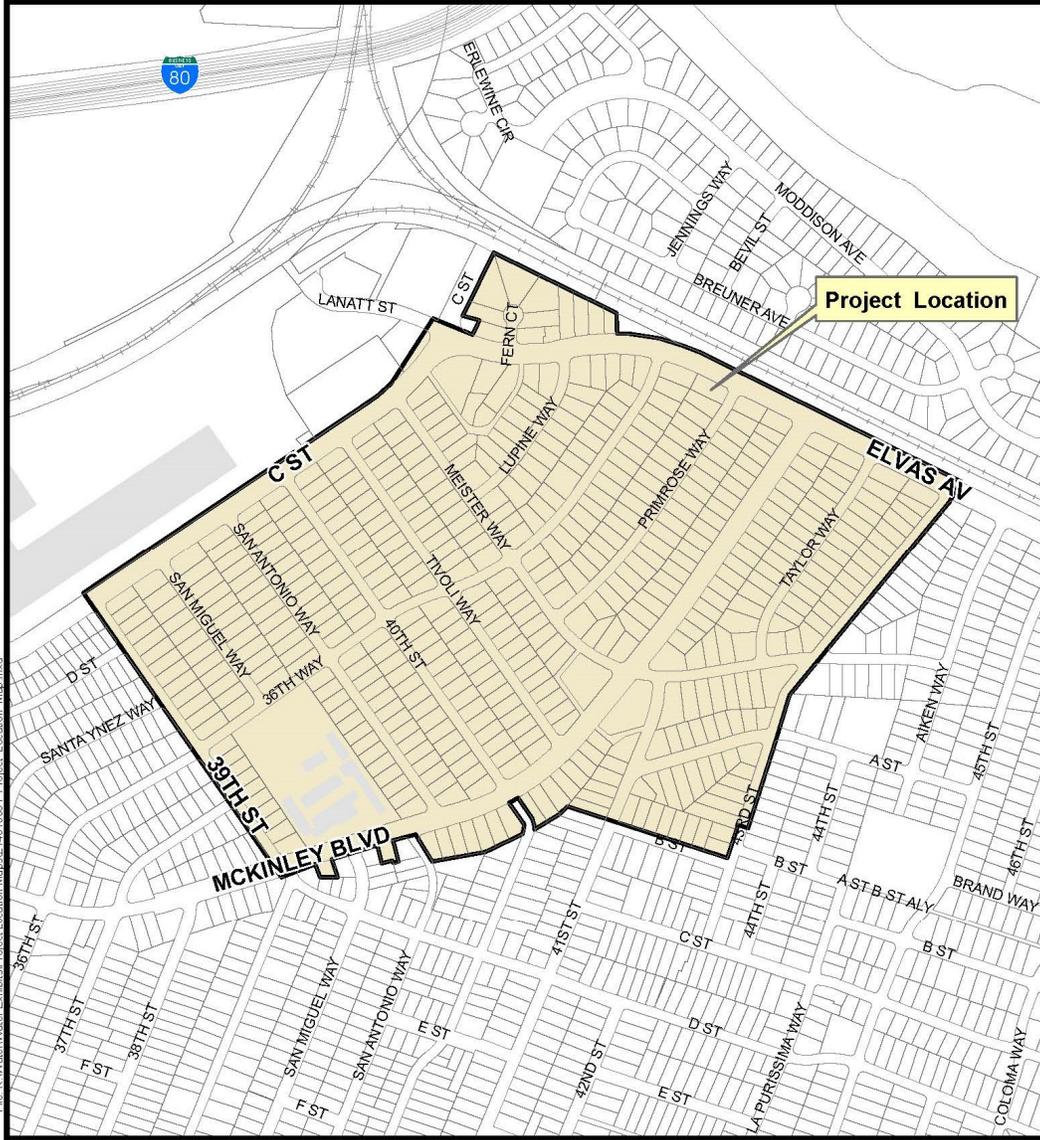
This project was advertised and seven bids were received and opened on March 27, 2013. The bids are summarized below:

	Bidders	Bid Amount
1	T & S Construction Company	\$3,551,876
2	A. Teichert & Son Inc	\$3,711,870
3	GM construction & Developers, Inc.	\$3,733,580
4	Navajo Pipelines, Inc.	\$3,756,991
5	Florez Paving	\$3,836,380
6	United Building contractors, Inc	\$4,463,235
7	McGuire Hester	\$4,997,350

T & S Construction Company was the low bidder, with a bid amount of \$3,551,876. The engineer's estimate was \$3,900,000.

LOCATION MAP

East Sacramento Water Main Replacement Project Phase 1 (PN:Z14010061)



File: R:\Water\Water\Exhibits\Project Location Maps\Z14010061 - Project Location Map.mxd

Map Prepared By
City of Sacramento
Department of Utilities





CITY OF SACRAMENTO

DEPARTMENT OF UTILITIES

ENGINEERING SERVICES DIVISION

CONTRACT SPECIFICATIONS FOR

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1

PN: Z14010061

B13141321017

Engineer's Estimate: 3,900.000

Non-Refundable Fee

\$30.00

For Pre-Bid Information Call:

Rosa Millino
Associate Engineer
(916) 808-1451

Separate Plans

Bid to be received before 2:00 PM
March 20, 2013
Historic City Hall, City Clerk's Office
915 I Street, 1st Floor
Sacramento, CA 95814

ESBE Program Goals

For information on meeting the City of Sacramento's Small Business Enterprise (SBE) and Emerging Business Enterprise (EBE) project goals, please contact Lorrie Lowry at (916) 808-5448, or visit the City of Sacramento's small business web site at: <http://www.cityofsacramento.org/econdev/business-open/small-business-certification.cfm>

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SPECIAL PROVISIONS

ESBD INFORMATION

The City of Sacramento's Emerging and Small Business Development (ESBD) program establishes an annual emerging and small business enterprise (ESBE) participation goal for City contracts, and authorizes City departments to require minimum ESBE participation levels in individual contracts. Under City Code section 3.60.270, all bidding contractors must meet or exceed participation goals established for this project in order to qualify as a responsible bidder.

For information on meeting the City of Sacramento's Small Business Enterprise (SBE) and Emerging Business Enterprise (EBE) project goals, please contact Lorrie Lowry at (916) 808-5448, or visit the City of Sacramento's small business web site at:

<http://www.cityofsacramento.org/econdev/business-open/small-business-certification.cfm>

NOTICE TO CONTRACTORS

CITY OF SACRAMENTO

Sealed Proposals will be received by the City Clerk of the City of Sacramento at the Office of the City Clerk, Historic City Hall, located at 915 I Street, 1st Floor, up to the hour of 2:00 p.m. on **March 20, 2013** and opened at 2:00 p.m. **March 20, 2013**, or as soon thereafter as business allows, in the Hearing Room, Historic City Hall, 2nd Floor, for construction of:

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1

(PN: Z14010061) (B13141321017)

as set forth in the Construction Documents.

Proposals received and work performed thereunder shall comply with the requirement of Chapter 3 of the Sacramento City Code. Each Bid Proposal shall be accompanied by bid security of at least 10% of the sum the Bid Proposal. The right to reject proposals or to waive any error or omission in any Bid Proposal received is reserved by the City. Signed proposals shall be submitted on the printed forms contained herein and enclosed in an envelope marked:

SEALED PROPOSAL FOR EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1

(PN: Z14010061) (B13141321017)

Copies of the contract documents are available at:

**Signature Reprographics
620 Sunbeam Avenue
Sacramento, CA 95814
(916) 454-0800**

A non-refundable fee of \$30.00 will be charged.

Subcontractors shall comply with the rates of wages currently established by the Director of Industrial Relations under provisions of Sections 1773 of the Labor Code of the State of California, a copy of which is on file in the office of the City Clerk. In accordance with the Sacramento City Code Section 3.60.180 and Section 1771.5 of the California Labor Code, the payment of the general prevailing rate of per diem wages or the general prevailing rate of per diem wages for holiday and overtime is not required for any Public Construction project of \$25,000 or less, or Public Maintenance project of \$15,000 or less. The City of Sacramento has an approved Labor Compliance Program. **Electronic Web submittal of Labor Compliance Reports is effective May 1, 2008.** Each contractor and every lower-tier subcontractor is required to submit certified payrolls and labor compliance documentation electronically at the discretion of and in the manner specified by the City of Sacramento.

Electronic submittal will be web-based system, accessed on the World Wide Web by a web browser. Each contractor and subcontractor will be given a Log On identification and password to access the City of Sacramento reporting system.

Use of the system may entail additional data entry of weekly payroll information including; employee identification labor classification, total hours worked and hours worked on this project, wage and benefit rates paid, etc. The contractor's payroll and accounting software might be capable of generating a 'comma delimited file' that will interface with the software.

This requirement will be "flowed down" to every lower-tier subcontractor and vendor required to provide labor compliance documentation.

All questions regarding the Labor Compliance Program should be directed to the Labor Compliance Section at (916) 808-5524.

Pursuant to Sacramento City Code Section 3.60.250, any agreement awarded pursuant to this Invitation to Bid shall contain a provision permitting the substitution of securities for any monies withheld to ensure performance under the Agreement. The terms of such provisions shall be according to the requirements and the form required by the City.

Bid protests must be filed and maintained in accordance with the provisions of Chapter 3.60.460 through 3.60.560 of the Sacramento City Code. Bid protests that do not comply with Chapter 3.60.040 through 3.60.560 of the Sacramento City Code shall be invalid and shall not be considered. A bid protest fee of \$750.00 is required at the time of filing to be considered valid in accordance with City of Sacramento Resolution No. 2003-231 dated April 29, 2003. As used herein, the term "bid protests" includes any bid protest that (1) claims that one or more bidders on this contract should be disqualified or rejected for any reason, or (2) contests a City staff recommendation to award this contract to a particular bidder, or (3) contests a City staff recommendation to disqualify or reject one or more bidders on this contract. A copy of Chapter 3.60.010 of the Sacramento City Code may be obtained from the Project Manager or from the Office of the City Clerk, located at 915 I Street, 1st Floor, Sacramento, CA 95814.

The right to reject any and all bids or to waive any informality in any bid received is reserved by the City Council.

THE FOLLOWING DOCUMENTS
ARE TO BE COMPLETED AND
SUBMITTED WITH THE BID PACKAGE

Contractor's Name: _____
(Please print)

CITY OF SACRAMENTO

SEALED PROPOSAL

(MUST BE SIGNED BY BIDDER)

The Sealed Proposal will be received not later than **March 20, 2013**, at the Office of the City Clerk, Historic City Hall, at 915 I Street, 1st Floor, Sacramento, California and opened at **2:00 PM**, or as soon thereafter as business allows, on **March 20, 2013**, by the Office of the City Clerk, 915 I Street, Historic City Hall, Hearing Room 2nd Floor, Sacramento, California.

TO THE HONORABLE CITY COUNCIL:

The undersigned hereby proposes and agrees to furnish any and all required labor, material, transportation, and services for

**EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1
(PN: Z14010061) (B13141321017)**

in the City and County of Sacramento, California.

TOTAL BID: _____ (\$_____).

The work herein described is to be performed in strict conformity with the Plans, City of Sacramento Standard Specifications (Resolution No. 89-216) and these Special Provisions, all as on file in the Office of the City Clerk, at the following unit prices.

Item No.	Description	Estimated Quantity	Unit	Unit Price	Total
1	Construction Photographs	1	LS	\$_____	\$_____
2	Mobilization	1	LS	\$_____	\$_____
3	Existing 4-Inch Fire Service to Transfer	1	LS	\$_____	\$_____
4	6" Diameter Water Main to Furnish and Install	60	LF	\$_____	\$_____
5	8" Diameter Water Main to Furnish and Install	20000	LF	\$_____	\$_____
6	12" Diameter Water Main to Furnish and Install	3885	LF	\$_____	\$_____
7	6" Diameter Gate Valve to Furnish and Install	2	EA	\$_____	\$_____
8	8" Diameter Gate Valve to Furnish and Install	101	EA	\$_____	\$_____
9	12" Diameter Gate Valve to Furnish and Install	13	EA	\$_____	\$_____
10	Standard Fire Hydrant to Furnish and Install	39	EA	\$_____	\$_____
11	Existing Fire Hydrant to Remove	30	EA	\$_____	\$_____
12	2-Inch and smaller substandard water service to Replace	16	EA	\$_____	\$_____
13	1-Inch Water Service w/meter box and Meter to furnish and Install (Main to Meter Box)	8	EA	\$_____	\$_____
14	2-Inch Water Service w/meter box and Meter to furnish and Install (Main to Meter Box)	2	EA	\$_____	\$_____
15	2-Inch by 4-Inch Irrigation Water Service w/meter box to furnish and Install (Main to Rear)	1	EA	\$_____	\$_____

16	2-Inch by 4-Inch Domestic Water Service w/meter box to furnish and Install (Main to Rear)	1	EA	\$ _____	\$ _____
17	Reconnecting Existing City Water Meter	18	EA	\$ _____	\$ _____
18	Hybrid Water Service w/meter box & Meter to Furnish and Install (Main to Front/Side Hosebib)	125	EA	\$ _____	\$ _____
19	Hybrid Water Service w/meter box & Meter to Furnish and Install (Main to Rear Hosebib)	297	EA		
20	1 ½ Inch Water Service w/Meter Box & Meter to Furnish and Install (Main to Rear Hosebib)	7	EA	\$ _____	\$ _____
21	2-Inch Water Service w/Meter Box & Meter to Furnish and Install (Main to Rear Hosebib)	4	EA	\$ _____	\$ _____
22	Meter Retrofit of 1-Inch water services	31	EA	\$ _____	\$ _____
23	Additional 1 ½ Inch Water Pipe to Furnish and Install	500	LF	\$ _____	\$ _____
24	Additional 4-inch Water Pipe to Furnish and Install	360	LF	\$ _____	\$ _____
25	1 ½- Inch Schedule 40 PVC Pipe to Install	500	LF	\$ _____	\$ _____
26	Unsuitable Material, to Remove and Replace	500	TON	\$ _____	\$ _____
27	Asphalt Concrete to Remove and Replace	500	SF	\$ _____	\$ _____
28	Concrete to Remove and Replace	500	SF	\$ _____	\$ _____
29	Existing Valves, Tees, Saddles & Water Mains to Remove or Abandon	1	LS	\$ _____	\$ _____
30	Mains to Cap	6	EA	\$ _____	\$ _____
31	Connection to Existing Water Distribution system	18	EA	\$ _____	\$ _____
32	Water Service to Abandon	433	EA	\$ _____	\$ _____
33	Water Quality to Provide	1	LS	\$ _____	\$ _____
34	Potholes	20	EA	\$ _____	\$ _____
35	2-Inch Diameter Blow-off to Furnish and Install	2	EA	\$ _____	\$ _____

TOTAL BID: \$ _____

If awarded the contract, the undersigned shall execute said contract and furnish the necessary bonds within ten (10) days after the notice of award of said contract and begin work within fifteen (15) days after the signing of the contract by the Contractor and the City or the Notice to Proceed has been prepared, whichever is applicable.

In determining the amount bid by each bidder, City shall disregard mathematical errors in addition, subtraction, multiplication and division that appear obvious on the face of the Proposal. When such a mathematical error appears on the Proposal, the City shall have the right to correct such error and to compute the total amount bid by said bidder on the basis of the corrected figure or figures.

When the unit price of an item is required to be set forth in the Proposal, and the total for the item set forth separately does not agree with a figure derived by multiplying the item unit price times the Engineer's estimate of the quantity of work to be performed for said item, the item unit price shall prevail over the sum set forth as the total for the item unless, in the sole discretion of the City, such a procedure would be inconsistent with the policy of the City's bidding procedures. The total paid for each such item of work shall be based upon the item unit price and not the total price.

Should the Proposal contain only a total price for an item and the item unit price is omitted, the City shall determine the item unit price by dividing the total price of the item by the Engineer's estimate of the quantity of work to be performed for the item of work.

If the Proposal contains neither the item price nor the total price for the item, then it shall be deemed incomplete and the Proposal shall be disregarded.

It is understood that this bid is based upon completion of the work within a period of **three hundred (300) working days** commencing on the date specified in the Notice to Proceed.

The amount of liquidated damages to be paid by the Contractor for failure to complete the work by the completion date (as extended, if applicable) shall be **seven hundred dollars (\$700.00) for each calendar day**, continuing to the time at which the work is completed. Such amount is the actual cash value agreed upon as the loss to the City resulting from the default of the Contractor.

In addition, as indicated in Section 3.10 of the Special Provisions, if any water meter that is defective or not fully compatible with the Datamatic Firefly Endpoints, for any reason, is not replaced with a compliant meter within 10 days, the Contractor shall pay \$200, per meter, in liquidated damages to compensate the City for staff time and delay.

The undersigned represents and warrants that he/she has examined the location of the proposed work and is familiar with the conditions at the place where the work is to be done. The undersigned further represents that he/she has reviewed and understands the Plans, Special Provisions, and other contract documents, and the undersigned is satisfied with all conditions for the performance of the work.

Additionally, the undersigned shall include written documentation with the Sealed Proposal of previous satisfactory experience in installation of water main pipeline placement of meters, in accordance with the following:

- **The undersigned shall provide documentation for a minimum of one (1) project of similar size and scope for the placement of water main pipeline and one project of a minimum of 500 meter placements constructed or multiple projects combined that would equal a similar size and scope or a similar construction work as approved by the Engineer and performed by the undersigned for a municipality or other public agency within the last five years. The documentation for each project shall describe the work performed, including the size and length of pipeline installed, the type of water main material installed, the size and number of meters placed, the contract amount and duration, and the time period of performance, and shall include the name, address and telephone number of the owner agency or municipality. The documentation also shall include the name of a contact person for each owner who is familiar with the work performed. The above documentation shall be included with the Sealed Proposal.**
- **A Sealed Proposal that does not include the above required documentation may be rejected as non-responsive.**

Please note that information included in the above documentation and/or obtained from such other owner agency or municipality or from another source regarding the bidder's performance on another public project also may be used by the City in determining whether the bidder is a responsible bidder.

The undersigned has carefully checked all of the above figures and understands that the City of Sacramento will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

This proposal shall not be withdrawn for the time periods specified in Section 3-2 of the City of Sacramento Standard Specifications for award of contract to respective low bidders. This proposal is submitted in accordance with Chapter 3.60 of the Sacramento City Code and Sections 1, 2, and 3 of the City of Sacramento Standard Specifications.

In accordance with Standard Specification Section 3-2, the City shall award this contract to the lowest responsible bidder, if such award is made, within forty-five (45) working days after opening of the Proposals. The City reserves the right to reject any and all bids.

BID DEPOSIT ENCLOSED IN THE FOLLOWING FORM:

\$_____ not less than ten (10) percent of amount bid.

____ CERTIFIED CHECK

____ MONEY ORDER

____ CASHIERS'S CHECK

____ BID BOND

FOR CITY USE ONLY

TYPE OF DEPOSIT

- Bid Bond
- Cashier/Certified Check
- Other _____

Reviewer's Initials: _____

CONTRACTOR

Addendum No. 1 _____

Addendum No. 2 _____ By: _____
(Signature)

Addendum No. 3 _____ Title: _____

Addendum No. 4 _____ Address: _____

No PO Box – Physical Address ONLY

City STATE ZIIP Code

Telephone No. _____

Fax No. _____

Email _____

(Federal Tax ID # or Social Security #)

Under penalty of perjury, I certify that the Taxpayer Identification Number and all other information provided here are correct.

Valid Contractor's License No. _____, Classification _____ is held by the bidder.

Expiration date _____. Representation made herein are true and correct under penalty or perjury

PN: Z14010061. (B13141321017)

KNOW ALL MEN BY THESE PRESENTS,

That we, _____

as Principal, and _____

a corporation duly organized under the laws of the State of _____ and duly licensed to become sole surety on bonds required or authorized by the State of California, as Surety, are held and firmly bound unto the City of Sacramento, hereinafter called the City, in the penal sum of ten percent (10%) of the (BASE OR LUMP SUM) Proposal of the Principal above named, or other amount as set forth in the Invitation to Bidders, submitted by said Principal to the City for the Work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH

That whereas the Principal has submitted the above mentioned proposal to the City, for which Proposals are to be opened in the Office of the City Clerk, Historic City Hall, Hearing Room 2nd Floor, 915 I Street, Sacramento, California, on **March 20, 2013**, for the Work specifically described as follows:

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1
(PN: Z14010061) (B13141321017)

NOW, THEREFORE, if the aforesaid Principal is award the Agreement and within the time and manner required under the Contract Documents, enters into a written Agreement, in the prescribed form, in accordance with the Proposal, and files two (2) bonds with the City, one to guarantee faithful performance and the other to guarantee payment for labor and materials, and files the required insurance policies with the City, all as required by the Contract Documents or by law, then the obligation shall be null and void; otherwise it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court, which sums shall be additional to the principal amount of this bond.

IN WITNESS THEREOF, We have hereunto set our hands and seal this _____ day of _____, 2013.

PRINCIPAL Seal
By: _____

Title

SURETY Seal
By _____

Title

Agent Name and Address

Agent Phone #

Surety Phone #

California License #

DRUG-FREE WORKPLACE POLICY AND AFFIDAVIT

BID MAY BE DECLARED NONRESPONSIVE IF THIS FORM (COMPLETED) IS NOT ATTACHED.
Pursuant to City Council Resolution CC90-498 dated 6/26/90 the following is required.

The undersigned contractor certifies that it and all subcontractors performing under this contract will provide a drug-free workplace by:

1. Publishing a "Drug-Free Workplace" statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Establishing a Drug-Free Awareness Program to inform employees about:
 - a. The dangers of drug abuse in the workplace.
 - b. The contractor's policy of maintaining a drug-free workplace.
 - c. Any available drug counseling, rehabilitation, and employee assistance program.
 - d. The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.
3. Notify employees that as a condition of employment under this contract, employees will be expected to:
 - a. Abide by the terms of the statement.
 - b. Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace.
4. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy on the "Drug-Free Workplace" statement.
5. Taking one of the following appropriate actions, within thirty (30) days of receiving notice from an employee or otherwise receiving such notice, that said employee has received a drug conviction for a violation occurring in the workplace:
 - a. Taking appropriate disciplinary action against such an employee, up to and including termination; or
 - b. Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement or other appropriate agency.

* I certify that no person employed by this company, corporation, or business has been convicted of any criminal drug statute violation on any job site or project where this company, corporation, or business was performing work within three years of the date of my signature below.

EXCEPTION:

Date	Violation Type	Place of Occurrence
If additional space is required use back of this form.		

*The above statement will also be incorporated as a part of each subcontract agreement for any and all subcontractors selected for performance on this project.

IN THE EVENT THIS COMPANY, CORPORATION, OR BUSINESS IS AWARDED THIS CONSTRUCTION CONTRACT, AS A RESULT OF THIS BID; THE CONTRACTOR WITH HIS/HER SIGNATURE REPRESENTS TO THE CITY THAT THE INFORMATION DISCLOSED IN THIS DOCUMENT IS COMPLETE AND ACCURATE. IT IS UNDERSTOOD AND AGREED THAT FALSE CERTIFICATION IS SUBJECT TO IMMEDIATE TERMINATION BY THE CITY.

The Representations Made Herein On This Document Are Made Under Penalty Of Perjury.

CONTRACTOR'S NAME: _____

BY: _____ Date: _____
Signature Title

Effects of violations: a. Suspension of payments under this contract. b. Suspension or termination of the contract. c. Suspension or debarment of the contractor from receiving any contract from the City of Sacramento for a period not to exceed five years.
FM 681 7/10/9

MINIMUM QUALIFICATIONS QUESTIONNAIRE

Sacramento City Code Section 3.60.020 authorizes the Sacramento City Council to adopt standard minimum qualifications for bidders on competitively bid public works construction projects, and requires, among other provisions, that a bidder meet such minimum qualifications at the time of bid opening in order to bid. On July 31, 2007, the City Council adopted Resolution No. 2007-574 establishing these standard minimum qualifications. Pursuant to City Code section 3.60.020, a bidder failing to meet these minimum qualifications at the time of bid opening shall not be considered a responsible bidder for purposes of bidding on the subject project.

All bidders must demonstrate compliance with the minimum qualifications established by Resolution No. 2007-574 by completing all of the questions contained in this questionnaire. Bidder responses shall be limited to those operating business units, offices, branches and/or subsidiary divisions of the bidder that will be involved with the performance of any project work if awarded the contract. If a bidder answers "yes" to any single question, fails to submit a fully completed questionnaire, or submits false information, this will result in a determination that the minimum qualifications are not met, and the bidder shall not be considered a qualified bidder for purposes of bidding on this contract. If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must separately meet these minimum qualifications for the Joint Venture to be considered a qualified bidder.

The City of Sacramento ("City") shall make its determination on the basis of the submitted questionnaire, as well as any relevant information that is obtained from others or as a result of investigation by the City. While it is the intent of this questionnaire to assist the City in determining whether bidders possess the minimum qualifications necessary to submit bids on the City's competitively bid public works construction contracts, the fact that a bidder submits a questionnaire demonstrating that it meets these minimum qualifications shall not in any way limit or affect the City's ability to: (1) review other information contained in the bid submitted by the bidder, and additional relevant information, and determine whether the contractor is a responsive and/or responsible bidder; or (2) establish pre-qualification requirements for a specific contract or contracts.

By submitting this questionnaire, the bidder consents to the disclosure of its questionnaire answers: (i) to third parties for purposes of verification and investigation; (ii) in connection with any protest, challenge or appeal of any action taken by the City; and (iii) as required by any law or regulation, including without limitation the California Public Records Act (Calif. Gov't Code sections 6250 et seq.). Each questionnaire must be signed under penalty of perjury in the manner designated at the end of the form, by an individual who has the legal authority to bind the bidder submitting the questionnaire. If any information provided by a bidder becomes inaccurate, the bidder shall immediately notify the City and provide updated accurate information in writing, under penalty of perjury.

QUESTIONNAIRE

NOTICE: For firms that maintain other operating business units, offices, branches and/or subsidiary divisions that will not be involved with the performance of any project work if the firm is awarded the contract, references hereafter to “your firm” shall mean only those operating business units, offices, branches and/or subsidiary divisions that will be involved with the performance of any project work.

All of the following questions regarding “your firm” refer to the firm (corporation, partnership or sole proprietor) submitting this questionnaire, as well as any firm(s) with which any of your firm’s owners, officers, or partners are or have been associated as an owner, officer, partner or similar position within the last five years

The firm submitting this questionnaire shall not be considered a responsible bidder if the answer to any of these questions is “yes”, or if the firm submits a questionnaire that is not fully completed or contains false information.

1. **Classification & Expiration Date(s) of California Contractor’s License Number(s)** held by firm:

2. Has a contractor's license held by your firm and/or any owner, officer or partner of your firm been revoked at anytime in the last five years?

Yes No
3. Within the last five years, has a surety firm completed a contract on your firm’s behalf, or paid for completion of a contract to which your firm was a party, because your firm was considered to be in default or was terminated for cause by the project owner?

Yes No
4. At the time of submitting this minimum qualifications questionnaire, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either California Labor Code section 1777.1 (prevailing wage violations) or Labor Code section 1777.7 (apprenticeship violations)?

Yes No
5. At any time during the last five years, has your firm, or any of its owners, officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of a government contract?

Yes No

6. Answer either subsection A or B, as applicable:

A. Your firm has completed three or more government construction contracts in Sacramento County within the last five years: Within those five years, has your firm been assessed liquidated damages on three or more government construction contracts in Sacramento County for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging the assessment of liquidated damages on a government contract within the last five years, you need not include that contract in responding to this question.

Yes No Not applicable

OR

B. Your firm has not completed at least three government construction contracts in Sacramento County within the last five years: Within the last three years, has your firm been assessed liquidated damages on three or more government construction contracts for failure to complete contract work on time?

NOTE: If there is a pending administrative or court action challenging an assessment of liquidated damages on a government contract within the last three years, you need not include that contract in responding to this question.

Yes No Not applicable

7. In the last three years has your firm been debarred from bidding on, or completing, any government agency or public works construction contract for any reason?

NOTE: If there is a pending administrative or court action challenging a debarment, you need not include that debarment in responding to this question.

Yes No

8. Has CAL OSHA assessed a total of three or more penalties against your firm for any "serious" or "willful" violation occurring on construction projects performed in Sacramento County at any time within the last three years?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

9. Answer either subsection A or B, as preferred:

A. In the last three years has your firm had a three year average Workers' Compensation experience modification rate exceeding 1.1?

Yes No

OR

B. In the last three years has your firm had a three-year average incident rate for total lost workday cases exceeding 10?

NOTE: Incident rates represent the number of lost workday cases per 100 full-time workers and is to be calculated as: $(N/EH) \times 200,000$, where

N = number of lost workday cases (as defined by the U.S. Dept. of Labor, Bureau of Labor Statistics)
EH = total hours worked by all employees during the calendar year
200,000 = base for 100 equivalent full-time working (working 40 hours per week, 50 weeks per year)

Yes No

10. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed penalties three or more times, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was a contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

11. In the past three years, has the federal EPA, Region IX or a California Air Quality Management District or Regional Water Quality Control Board assessed a single penalty of \$100,000 or more, either against your firm, or against the project owner for a violation resulting in whole or in part from any action or omission by your firm on a project on which your firm was the contractor in Sacramento County?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

12. In the past three years, have civil penalties been assessed against your firm pursuant to California Labor Code 1777.7 for violation of California public works apprenticeship requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

13. In the past three years, has a public agency in California withheld contract payments or assessed penalties against your firm for violation of public works prevailing wage requirements, three or more times?

NOTE: If there is a pending administrative or court action appealing a withholding or penalty assessment, you need not include that withholding or penalty assessment in responding to this question.

Yes No

14. Has your firm been assessed penalties for violation of public works prevailing wage requirements in California, in an aggregate amount for the past three years of \$50,000 or more?

NOTE: If there is a pending administrative or court action appealing a penalty assessment, you need not include that penalty assessment in responding to this question.

Yes No

VERIFICATION AND SIGNATURE

I, the undersigned, certify and declare that I have read all the foregoing answers to this Minimum Qualifications Questionnaire, and know their contents. The matters stated in these Questionnaire answers are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Signed at _____, on _____.
(Location) (Date)

Signature: _____

Print name: _____

Title: _____

NOTE: If two or more entities submit a bid on a contract as a Joint Venture, each entity within the Joint Venture must submit a separate Minimum Qualifications Questionnaire.

REQUIREMENTS OF THE NON-DISCRIMINATION IN EMPLOYEE BENEFITS CODE

INTRODUCTION

The Sacramento Non-Discrimination In Employee Benefits Code (the "Ordinance"), codified as Sacramento City Code Chapter 3.54, prohibits City contractors from discriminating in the provision of employee benefits between employees with spouses and employees with domestic partners, and between the spouses and domestic partners of employees.

APPLICATION

The provisions of the Ordinance apply to any contract or agreement (as defined below), between a Contractor and the City of Sacramento, in an amount exceeding \$100,000.00. The Ordinance applies to that portion of a contractor's operations that occur: (i) within the City of Sacramento; (ii) on real property outside the City of Sacramento if the property is owned by the City or if the City has a right to occupy the property; or (iii) at any location where a significant amount of work related to a City contract is being performed.

The Ordinance does not apply: to subcontractors or subcontracts of any Contractor or contractors; to transactions entered into pursuant to cooperative purchasing agreements approved by the Sacramento City Council; to legal contracts of other governmental jurisdictions or public agencies without separate competitive bidding by the City; where the requirements of the ordinance will violate or are inconsistent with the terms or conditions of a grant, subvention or agreement with a public agency or the instructions of an authorized representative of any such agency with respect to any such grant, subvention or agreement; to permits for excavation or street construction; or to agreements for the use of City right-of-way where a contracting utility has the power of eminent domain.

DEFINITIONS

As set forth in the Ordinance, the following definitions apply:

"Contract" means an agreement for public works or improvements to be performed, or for goods or services to be purchased or grants to be provided, at the expense of the City or to be paid out of moneys deposited in the treasury or out of the trust money under the control or collected by the City. "Contract" also means a written agreement for the exclusive use ("exclusive use" means the right to use or occupy real property to the exclusion of others, other than the right reserved by the fee owner) or occupancy of real property for a term exceeding 29 days in any calendar year, whether by singular or cumulative instrument, (i) for the operation or use by others of real property owned or controlled by the City for the operation of a business, social, or other establishment or organization, including leases, concessions, franchises and easements, or (ii) for the City's use or occupancy of real property owned by others, including leases, concessions, franchises and easements.

"Contract" shall not include: a revocable at-will use or encroachment permit for the use of or encroachment on City property regardless of the ultimate duration of such permit; excavation, street construction or street use permits; agreements for the use of City right-of-way where a contracting utility has the power of eminent domain; or agreements governing the use of City property that constitute a public forum for activities that are primarily for the purpose of espousing or advocating causes or ideas and that are generally protected by the First Amendment to the United States Constitution or that are primarily recreational in nature.

“Contractor” means any person or persons, firm partnership or corporation, company, or combination thereof, that enters into a Contract with the City. “Contractor” does not include a public entity.

“Domestic Partner” means any person who has a currently registered domestic partnership with a governmental entity pursuant to state or local law authorizing the registration.

“Employee Benefits” means bereavement leave; disability, life, and other types of insurance; family medical leave; health benefits; membership or membership discounts; moving expenses; pension and retirement benefits; vacation; travel benefits; and any other benefit given to employees. “Employee benefits” shall not include benefits to the extent that the application of the requirements of this chapter to such benefits may be preempted by federal or state.

CONTRACTOR’S OBLIGATION TO PROVIDE THE CITY WITH DOCUMENTATION AND INFORMATION

Contractor shall provide the City with documentation and information verifying its compliance with the requirements of the Ordinance within ten (10) days of receipt of a request from the City. Contractors shall keep accurate payroll records, showing, for each City Contract, the employee’s name, address, Social Security number, work classification, straight time pay rate, overtime pay rate, overtime hours worked, status and exemptions, and benefits for each day and pay period that the employee works on the City Contract. Each request for payroll records shall be accompanied by an affidavit to be completed and returned by the Contractor, as stated, attesting that the information contained in the payroll records is true and correct, and that the Contractor has complied with the requirements of the Ordinance. A violation of the Ordinance or noncompliance with the requirements of the Ordinance shall constitute a breach of contract.

EMPLOYER COMPLIANCE CERTIFICATE AND NOTICE REQUIREMENTS

- (a) All contractors seeking a Contract subject to the Ordinance shall submit a completed Declaration of Compliance Form (attachment “A”), signed by an authorized representative, with each proposal, bid or application. The Declaration of Compliance shall be made a part of the executed contract, and will be made available for public inspection and copying during regular business hours.
- (b) The Contractor shall give each existing employee working directing on a City contract, and (at the time of hire), each new employee, a copy of the notification provided as attachment “B.”
- (c) Contractor shall post, in a place visible to all employees, a copy of the notice provided as attachment “C.”

**DECLARATION OF COMPLIANCE
Equal Benefits Ordinance**

Name of Contractor

Address

The above named contractor ("Contractor") hereby declares and agrees as follows:

1. I have read and understand the Requirements of the Non-Discrimination In Employee Benefits Code (the "Requirements") provided to me by the City of Sacramento ("City") in connection with the City's request for proposals or other solicitations for the performance of services, or for the provision of commodities, under a City contract or agreement ("Contract").
2. As a condition of receiving the City Contract, I agree to fully comply with the Requirements, as well as any additional requirements that may be specified in the City's Non-Discrimination in Employee Benefits Code codified at Chapter 3.54 of the Sacramento City Code (the "Ordinance").
3. I understand, to the extent that such benefits are not preempted or prohibited by federal or state law, employee benefits covered by the Ordinance, are any of the following:
 - a. Bereavement Leave
 - b. Disability, life, and other types of insurance
 - c. Family medical leave
 - d. Health benefits
 - e. Membership or membership discounts
 - f. Moving expenses
 - g. Pension and retirement benefits
 - h. Vacation
 - i. Travel benefits
 - j. Any other benefit offered to employees

I agree that should I offer any of the above listed employee benefits, that I will offer those benefits, without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouses and domestic partners of such employees.

4. I understand that I will not be considered to be discriminating in the provision or application of employee benefits under the following conditions or circumstances:
 - a. In the event that the actual cost of providing a benefit to a domestic partner or spouse, exceeds the cost of providing the same benefit to a spouse or domestic partner of an employee, I will not be required to provide the benefit, nor shall it be deemed discriminatory, if I require the employee to pay the monetary difference in order to provide the benefit to the domestic partner or to the spouse.
 - b. In the event I am unable to provide a certain benefit, despite taking reasonable measures to do so, if I provide the employee with a cash equivalent, I will not be deemed to be discriminating in the application of that benefit.
 - c. If I provide employee benefits neither to employee's spouses nor to employee's domestic partners.
 - d. If I provide employee benefits to employees on a basis unrelated to marital or domestic partner status.
 - e. If I submit, to the Program Coordinator, written evidence of making reasonable efforts to end discrimination in employee benefits by implementing policies which are to be enacted before the

first effective date after the first open enrollment process following the date the Contract is executed with the City.

I understand that any delay in the implementation of such policies may not exceed one (1) year from the date the Contract is executed with the City, and applies only to those employee benefits for which an open enrollment process is applicable.

- f. Until administrative steps can be taken to incorporate, in the infrastructure, nondiscrimination in employee benefits

The time allotted for these administrative steps will apply only to those employee benefits for which administrative steps are necessary and may not exceed three (3) months from the date the Contract is executed with the City.

- g. Until the expiration of a current collective bargaining agreement(s) where, in fact, employee benefits are governed by a collective bargaining agreement(s).
- h. I take all reasonable measures to end discrimination in employee benefits by either requesting the union(s) involved agree to reopen the agreement(s) in order for me to take whatever steps are necessary to end discrimination in employee benefits or by my ending discrimination in employee benefits without reopening the collective bargaining agreement(s).
- i. In the event I cannot end discrimination in employee benefits despite taking all reasonable measures to do so, I provide a cash equivalent to eligible employees for whom employee benefits (as listed previously), are not available.

Unless otherwise authorized in writing by the City Manager, I understand this cash equivalent must begin at the time the union(s) refuse to allow the collective bargaining agreement(s) to be reopened or no longer than three (3) months from the date the Contract is executed with the City.

- 5. I understand that failure to comply with the provisions of Section 4. (a) through 4. (i), above, will subject me to possible suspension and/or termination of this Contract for cause; repayment of any or all of the Contract amount disbursed by the City; debarment for future contracts until all penalties and restitution have been paid in full; deemed ineligible for future contracts for up to two (2) years; the imposition of a penalty, payable to the City, in the sum of \$50.00 for each employee, for each calendar day during which the employee was discriminated against in violation of the provisions of the Ordinance.
- 6. I understand and do hereby agree to provide each current employee and, within ten (10) days of hire, each new employee, of their rights under the Ordinance. I further agree to maintain a copy of each such letter provided, in an appropriate file for possible inspection by an authorized representative of the City. I also agree to prominently display a poster informing each employee of these rights.
- 7. I understand that I have the right to request an exemption to the benefit provisions of the Ordinance when such a request is submitted to the Procurement Services Division, in writing with sufficient justification for resolution, prior to contract award.

I further understand that the City may request a waiver or exemption to the provisions or requirements of the Ordinance, when only one contractor is available to enter into a contract or agreement to occupy and use City property on terms and conditions established by the City; when sole source conditions exist for goods, services, public project or improvements and related construction services; when there are no responsive bidders to the Ordinance requirements and the contract is for essential goods or services; when emergency conditions with public health and safety implications exist; or when the contract is for specialized legal services if in the best interest of the City.

8. In consideration of the foregoing, I shall defend, indemnify and hold harmless, the City, its officers and employees, against any claims, actions, damages, costs (including reasonable attorney fees), or other liabilities of any kind arising from any violation of the Requirements or of the Ordinance by me.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am authorized to bind the Contractor to the provisions of this Declaration.

Signature of Authorized Representative

Date

Print Name

Title



YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S
NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS ORDINANCE

On (date), your employer (the "Employer") entered into a contract with the City of Sacramento (the "City") for (contract details), and as a condition of that contract, agreed to abide by the requirements of the City's Non-Discrimination In Employee Benefits By City Contractors Ordinance (Sacramento City Code Section 3.54).

The Ordinance does not require the Employer to provide employee benefits. The Ordinance does require that if certain employee benefits are provided by the Employer, that those benefits be provided without discrimination between employees with spouses and employees with domestic partners, and without discrimination between the spouse or domestic partner of employees.

The Ordinance covers any employee working on the specific contract referenced above, but only for the period of time while those employees are actually working on this specific contract.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

(Employee Benefits does not include benefits that may be preempted by federal or state law.)

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, or in the application of these employee benefits, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of the Ordinance, and after having exhausted all remedies with your employer,

You May . . .

- Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Contract Services Unit
915 I St., 2nd Floor
Sacramento, CA 95814

- Bring an action in the appropriate division of the Superior Court of the State of California against the Employer and obtain the following remedies:
 - Reinstatement, injunctive relief, compensatory damages and punitive damages
 - Reasonable attorney's fees and costs



YOUR RIGHTS UNDER THE CITY OF SACRAMENTO'S

NON-DISCRIMINATION IN EMPLOYEE BENEFITS BY CITY CONTRACTORS ORDINANCE

If your employer provides employee benefits, they must be provided to those employees working on a City of Sacramento contract without discriminating between employees with spouses and employees with domestic partners.

The included employee benefits are:

- Bereavement leave
- Disability, life and other types of insurance
- Family medical leave
- Health benefits
- Membership or membership discounts
- Moving expenses
- Pension and retirement benefits
- Vacation
- Travel benefits
- Any other benefits given to employees

If you feel you have been discriminated against by your employer . . .

You May . . .

- Submit a written complaint to the City of Sacramento, Contract Services Unit, containing the details of the alleged violation. The address is:

City of Sacramento
Contract Services Unit
915 I St., 2nd Floor
Sacramento, CA 95814
- Bring an action in the appropriate division of the Superior Court of the State of California against the employer and obtain reinstatement, injunctive relief, compensatory damages, punitive damages and reasonable attorney's fees and costs.

Discrimination and Retaliation Prohibited.

If you feel you have been discriminated or retaliated against by your employer in the terms and conditions of your application for employment, or in your employment, because of your status as an applicant or as an employee protected by the Ordinance, or because you reported a violation of this Ordinance . . .

You May Also . . .

Submit a written complaint to the City of Sacramento, Contract Services Unit, at the same address, containing the details of the alleged violation.

Construction and Demolition (C&D) Debris Recycling Requirements

As a condition of receiving this Contract, Contractor agrees to fully comply with the requirements specified herein for all demolition projects, as well as projects with a valuation of \$250,000 or more:

1. **Definitions.** For purposes of this section, the following terms, words and phrases shall have the following meanings:

“Certified C&D sorting facility” means a facility that receives C&D debris and/or processes C&D debris into its component material types for reuse, recycling, and disposal of residuals and possesses a valid certificate as a C&D sorting facility from the Sacramento Regional County Solid Waste Authority.

“Construction and demolition debris” or “C&D debris” means used or commonly discarded materials resulting from construction, repair, remodel or demolition operations on any pavement, house, building, or other structure, or from landscaping that are not hazardous as defined in California Health and Safety Code section 25100 et seq. Such materials include, but are not limited to, concrete, asphalt, wood, metal, brick, dirt, sand, rock, gravel, plaster, glass, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, masonry, plastic pipe, trees, and other vegetative matter resulting from land clearing and landscaping.

“Divert” or “diversion” means to use materials for any purpose other than disposal in a landfill or transformation facility. Methods to divert materials include on-site reuse of the materials, delivery of materials from the project site to a certified C&D sorting facility or a recycling facility, or other methods as approved in regulations promulgated by the City Department of Utilities.

“Franchised waste hauler” means a person who possesses a valid commercial solid waste collection franchise issued by the Sacramento Regional County Solid Waste Authority.

“Mixed C&D debris” means loads that include commingled recyclable and non-recyclable C&D debris generated at a project site.

“Recyclable C&D debris” means C&D debris required to be diverted from landfills as specified in the Waste Management Plan and returned to the economic mainstream in the form of raw material for new, reused or reconstituted products that meet the quality standards necessary to be used in the marketplace.

“Recycling facility” means a facility or operation that receives, processes, and transfers source-separated recyclable materials.

“Source-separated C&D debris” means recyclable C&D debris that is separately sorted and containerized at the site of generation by individual material type and segregated from mixed C&D debris prior to collection and transporting.

“Waste log” means a record detailing the management of C&D debris generated by the covered project, including the date and weight/volume of material by type that was salvaged, reused, recycled or disposed.

2. **Waste Management Plan.** A completed WMP (see **Attachment 1**) must be submitted to and approved by the City prior to commencing any work on the project. The WMP must specify the types of C&D debris that will be generated from the project; the manner in which C&D debris will be managed and/or stored on the project site; the manner in which recyclable C&D debris generated from the project will be recycled or reuse; the person who will haul, collect or transport the recyclable C&D debris from the project site; and the certified C&D sorting facility or recycling facility where recyclable C&D debris will be delivered. The WMP must be approved by the City prior to commencing any work on the project.

3. Contractor shall be solely responsible for diverting the recyclable C&D materials specified on the WMP. Mixed C&D debris shall be delivered to a SWA-certified C&D sorting facility only. Only the permit holder, the person who generates the waste, a franchised waste hauler, or the City of Sacramento can transport or haul mixed C&D debris. Source-separated C&D debris may be delivered by any person to any recycling facility that accepts such materials. (See **Attachment 2** for list of C&D Debris Haulers and Facilities).

4. During the course of the project, Contractor shall maintain a waste log (see **Attachment 3**), and keep all weight tickets or weight receipts, for all C&D debris hauled away from the project. At a minimum, the waste log shall specify the C&D debris generated by the project; the manner in which C&D debris was recycled or re-used; and the facility where the C&D debris was delivered.

5. Within 30 days after submitting the project completion report, Contractor shall submit to the City a completed waste log, along with copies of supporting weight tickets. Contractor shall maintain and keep accurate and complete records of all bills, weight receipts or weight tickets that were issued for the collection, transport or disposal of C&D debris for a period of one-year after submittal of the waste log. The records shall be made available for inspection, examination and audit by the City during the one-year retention period to validate the information provided in the WMP and in the waste log. If the City determines noncompliance by the Contractor after an audit has been conducted, Contractor shall reimburse the City for all costs incurred in performing the audit.

6. Failure by Contractor to comply with any provisions specified herein will subject Contractor to possible suspension and/or termination of this Contract for cause; repayment of any or all of the Contract amount disbursed by the City; imposition of a penalty, payable to the City (\$50-\$250 for first offense, \$251-\$500 for second offense, and \$501-\$1500 for subsequent offenses); and/or submission of a performance security deposit fee when submitting a permit application to the City for a project within one year of imposition of the penalty.

For questions or to obtain more information about the Recycling Requirements for C&D debris, contact the City of Sacramento, Solid Waste Services Division, 2812 Meadowview Road, Building 1, Sacramento, CA 95832, or telephone (916) 808-4833, or email C&D@cityofsacramento.org

C&D Debris Waste Management Plan

C&D Debris Waste Management Plan
 City of Sacramento Solid Waste Services
 2812 Meadowview Road, Building 1
 Sacramento, CA 95832
 Phone: (916) 808-4839 / Fax: (916) 808-4999
 C&D@cityofsacramento.org

Form
submitted by:

Please attach a business card, or put your name with a phone number and/or an email address.

This Waste Management Plan (WMP) must be submitted and approved before work can begin. Only one WMP is required for each public construction project. The administration fee and, if applicable, a security deposit must be submitted with this form to be approved. Administration fee is 0.04% of project bid amount (min \$40, max \$800); security deposit, if applicable, is 1% of bid amount (max \$10,000). The accompanying Waste Log must be submitted within 30 days of the project completion report, or a penalty may be imposed.

A. Building Project Information:

Job Address: _____
 Contractor: _____
 Address: _____

Engineering
 Estimate: _____
 Phone: _____
 Email: _____

B. Briefly describe the project:

C. Materials Required to be Recycled

50% of all debris must be recycled if generated during the course of your project. You can either **source-separate** them, which may be hauled by anyone, or mix them in one container and send the **mixed C&D debris** load to a **Certified Mixed C&D Sorting Facility**. Mixed C&D loads can only be hauled by a franchised hauler or self-hauled. Please see the Definitions section, on the next page, for more information.



D. Material Management.

1. How will C&D debris will be stored on the project site: _____ Mixed C&D _____ Source-Separated
2. Company to haul away debris: _____
3. Facilities to receive debris: _____

C&D Debris Waste Management Plan

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4839 / Fax: (916) 808-4999
C&D@cityofsacramento.org

E. Definitions.

Please read and understand these terms. Call Solid Waste at (916) 808-4833 if these terms are not clear to you. More information is also available online at <http://www.cityofsacramento.org/utilities/>.

1. **Self-haul or self-hauling:** This is when the general contractor or a subcontractor *who is doing work on the project* hauls their own waste materials for recycling or disposal. Note that a *jobsite cleanup crew is not doing other work on the project and is not self-hauling*. Jobsite cleanup crews need to be franchised in order to haul mixed C&D debris away.
2. **Franchised hauler:** Check the Department of Utilities (DOU) website for a list of these haulers. Only these companies and the City of Sacramento can collect and haul mixed C&D debris generated within the City for a fee.
3. **Source separation:** This means keeping wood, metal, cardboard, or other recyclables in separate containers, and sending the materials to an authorized recycler. A list of authorized recyclers can be found on the DOU web site. Source-separated materials may be hauled by anyone.
4. **Mixed C&D debris:** This means putting all recyclable debris into one container. Mixed materials must be sent to a certified mixed C&D sorting facility. Mixed materials may be either self-hauled or hauled by a franchised hauler. If your job site is crowded, this option saves the most space.
5. **Certified Mixed C&D Sorting Facility:** See the DOU web site for a list. These facilities have been certified by the Sacramento Regional Solid Waste Authority (SWA) to extract recyclable materials from mixed C&D debris.

F. Terms and Conditions

- Your approved Waste Management Plan and Waste Log must be kept on the job site for the duration of the project.
- City of Sacramento Solid Waste Services staff may enter the jobsite to inspect waste collection areas.
- **ALL Clean Wood Waste** (unpainted, untreated lumber, plywood and OSB), **Inert Materials** (concrete, asphalt paving, brick, block, and dirt), **Wooden Pallets**, **Scrap Metal**, and **Corrugated Cardboard** must be recycled.
- Only SWA-Certified Mixed C&D Sorting Facilities may be used to recycle these materials if mixed with other materials.
- Only the City of Sacramento, SWA-Franchised Haulers, or self-haulers (as defined above) may collect and transport mixed C&D material from the jobsite.
- C&D Debris may not be burned or dumped illegally.
- Your Waste Log must be completed and submitted, with supporting weight tickets, within 30 days of submitting your project completion report. All waste hauling and disposal or recycling activity must be entered on the Waste Log, including information from any subcontractors who self-hauled their own debris off-site.
- You must keep all receipts or weight-tickets from your project for a period of one year from the submittal of your waste log.
- Failure to comply with these terms and conditions may result in a fine and payment of a security deposit on future projects

C&D Debris Haulers & Facilities

C&D Debris Waste Management Plan
City of Sacramento Solid Waste Services
2812 Meadowview Road, Building 1
Sacramento, CA 95832
Phone: (916) 808-4833 / Fax: (916) 808-4999
C&D@cityofsacramento.org

Certified Mixed C&D Facilities

Allied Waste / Elder Creek Transfer and Recovery	(916) 387-8425
Florin-Perkins Public Disposal	(916) 443-5120
L&D Landfill	(916) 737-8640
Waste Management / K&M Recycle America	(916) 452-0142

Franchised Haulers

ACES Waste Services, Inc.	(866) 488-8837	Elk Grove Waste Management, LLC	(916) 689-4052
Allied Waste Services	(916) 631-0600	Mini Drops, Inc.	(916) 686-8785
All Waste Systems, Inc.	(916) 456-1555	Norcal Waste Services of Sacramento	(916) 381-5300
Atlas Disposal Industries, LLC	(916) 455-2800	North West Recyclers	(916) 686-8575
California Waste Recovery Systems	(916) 441-1985	Waste Management of Sacramento	(916) 387-1400
Central Valley Waste Services, Inc.	(209) 369-8274	Waste Removal & Recycling	(916) 453-1400
City of Sacramento Solid Waste	(916) 808-4839	Western Strategic Materials, Inc.	(916) 388-1076

Recyclers*

Recovery Stations & Landfills

Bell Marine	(916) 442-9089	Elder Creek Recovery & Transfer Station	(916) 387-8425
C & C Paper Recycling	(916) 920-2673	Kiefer Landfill	(916) 875-5555
EBI Aggregates	(916) 372-7580	L & D Landfill	(916) 383-9420
International Paper	(916) 371-4634	North Area Recovery Station	(916) 875-5555
Modern Waste Solutions	(916) 447-6800	Sacramento Recycling & Transfer Station	(916) 379-0500
PRIDE Industries, Inc.	(916) 640-1300	Waste Management Recycle America	(916) 452-0142
Recycling Industries, Inc.	(916) 452-3961		
Sacramento Local Conservation Corps	(916) 386-8394		
Smurfit-Stone Container Corporation	(916) 381-3340		
Southside Art Center	(916) 387-8080		
Spencer Building Maintenance, Inc.	(916) 922-1900		

More updated information can be found online at:
<http://www.cityofsacramento.org/utilities/>

* Please note that any facility may receive source-separated recyclable materials as long as it is authorized to do so by the State of California. This is not meant to be a complete list.

Voluntary Green Contracting Fleet Inventory List (On-Road Equipment)

In partnership with the City of Sacramento and the Sacramento Metropolitan Air Quality Management District

Green Contracting Survey (Voluntary)

The City of Sacramento and the Sacramento Metropolitan Air Quality District (SMAQMD) are conducting a joint pilot project to help meet Federal Clean Air Standards for the Sacramento region.

Attached is a Green Contracting Fleet Inventory Form. Please complete the form, remove it from the bid package and return it to SMAQMD in the postage paid envelope provided with the bid package. Please do not return the Green Contracting Fleet Inventory Form to the City of Sacramento with the bid documents or otherwise.

A limited amount of funds and other financial incentives may be available to qualified contractors participating in this joint project to assist qualified contractors with upgrading and/or replacing equipment and/or trucks.

Completing and returning the Green Contracting Fleet Inventory Form is strictly voluntary

Voluntary Green Contracting Fleet Inventory List (On-Road Equipment)

In partnership with the City of Sacramento and the Sacramento Metropolitan Air Quality Management District

Company Name:

Contact Name:

Company Address:

City, State, ZIP:

Company Phone:

City Bid Information	
Department	<input type="text"/>
Project #	<input type="text"/>
ESBE/SBE?	<input type="text"/>

Instructions:

- a) Please enter the vehicle / equipment information for each unit used in conjunction with your City of Sacramento Bid.
- b) All fields are required for both on-road heavy-duty vehicles and off-road construction equipment over 50 HP.
- c) Electronic version available at <http://www.airquality.org/ceqa/index.shtml>
For additional questions, please call (916) 874-4892
- d) 4892

Please Submit To:

Kristian Damkier, P.E.
 Sacramento Metropolitan AQMD
 777 12th St, 3rd Floor
 Sacramento, CA 95814-1908

#	VIN	License Plate	Vehicle Information			Engine Information				Annual Usage (miles)	Received Funding
			Make	Model	Year	Make	Model	Year	HP		
(ex)	1XP5AAC35RG339402	1T45678	Kenworth	T-300	2002	Cummins	ISB	2002	250	35,000	No

Voluntary Green Contracting Fleet Inventory List (On-Road Equipment)

In partnership with the City of Sacramento and the Sacramento Metropolitan Air Quality Management District

Company Name:	
Contact Name:	
Company Address:	
City, State, ZIP:	
Company Phone:	

City Bid Information	
Department	
Project #	
ESBE/SBE?	

Instructions:

- a) Please enter the vehicle / equipment information for each unit used in conjunction with your City of Sacramento Bid.
- b) All fields are required for both on-road heavy-duty vehicles and off-road construction equipment over 50 HP.
Electronic version is available at <http://www.airquality.org/ceqa/index.shtml>
- c) <http://www.airquality.org/ceqa/index.shtml>
For additional questions, please call (916) 874-4892
- d) 4892

Please Submit To:
Kristian Damkier, P.E. Sacramento Metropolitan AQMD 777 12th St, 3rd Floor Sacramento, CA 95814-1908

Equipment Serial Number	Equipment Information				Engine Information				Annual Usage (hours)
	Make	Model	Type	Year	Make	Model	Year	HP	
48W34456	Caterpillar	631G	Scraper	2003	Caterpillar	3408E	2003	485	1,600

Guidelines for City of Sacramento Boycott of Arizona and Arizona-Headquartered Businesses

Sacramento City Council Resolution No. 2010-346 calls for a boycott of the State of Arizona and businesses headquartered in Arizona. The boycott provisions prohibit employee travel to Arizona at City expense, and restrict the purchase of goods and services with Arizona headquartered businesses.

Resolution No. 2010-346 provides that “where ***practicable*** and where there is no ***significant*** additional cost to the City, the City of Sacramento shall not enter into any new, amended, extended or supplemental contracts to purchase or procure goods or services from any business or entity that is ***headquartered*** in Arizona ...”

The guidelines below are provided to city staff for implementing the Resolution.

● Definitions

- **Headquartered**: State in which a company is headquartered. This may be different than the state of incorporation, where subsidiaries are located. You may determine a company headquarters from the declaration provided in a solicitation response or by calling the company directly.
- **Practicable**: The proposed or existing vendor can be replaced without interruption to services and/or supplies, and the replacement of the vendor does not adversely affect the Sacramento economy. For example, excluding a company headquartered in Arizona, but with a Sacramento-area office would not be practicable, as it would adversely affect the local economy. The cost of transition should not be significant.
- **Significant**: Costs that exceed the following percentages or dollar thresholds:
 - For contracts valued \$250k and less – the lesser of 10% or \$25k
 - For contracts valued between \$250k and \$1m – the lesser of 10% or \$100k
 - For contracts valued between \$1m and 10m – the lesser of 8% or \$100k
 - For contracts valued at \$10m and more – the lesser of 6% or 100k
- **Related companies, subcontractors**: The policy applies only to the company with which the City enters into a contract.

● Exceptions Checklist

If the lowest bidder is headquartered in Arizona, in order to have a valid exception to the boycott Resolution, you must be able to answer yes to **at least** one of the following questions:

- Is the difference between the low bid and the second low bid “significant”? (see definitions)
OR if the vendor has a current contract and we evaluating a renewal, is there a significant cost to switch vendors?
- Does the lowest bidder have a local office in Sacramento, providing benefit to the local economy, if awarded the contract?
- Is the vendor the sole-source for this particular service/commodity?
- Is the contract award or extension in the “best interest of the City” for reasons not listed above?

City of Sacramento Boycott of Arizona-Headquartered Businesses

On June 15, 2010, the Sacramento City Council adopted Resolution No. 2010-346 opposing two Arizona laws (SB 1070 and HB 2162) that will allow Arizona police to arrest individuals suspected of being unlawfully present in the United States and to charge immigrants with a state crime for not carrying immigration documents. Sacramento City Council Resolution No. 2010-346 also called for a boycott of the State of Arizona and businesses headquartered in Arizona until Arizona repeals or a court nullifies SB 1070 and HB 1262. Resolution No. 2010-346 provides, in pertinent part, that “where practicable and where there is no significant additional cost to the City, the City of Sacramento shall not enter into any new, amended, extended or supplemental contracts to purchase or procure goods or services from any business or entity that is headquartered in Arizona ...”

Pursuant to the provisions of Resolution No. 2010-346, the City may determine that a bid from a business or entity that is headquartered in Arizona is nonresponsive and the City may reject the bid on that basis.

Bidders that are headquartered in the United States shall certify in the space below the state where the bidder is headquartered:

State Where Firm is Headquartered

Signature of Authorized Representative

Date

Print Name

Title

This Page to be completed and submitted with bid proposal

ESBE REQUIREMENTS

(City Construction Contracts no Federal Funds Used)

I. ESBE PARTICIPATION REQUIREMENT

On February 9, 1999, the Sacramento City Council adopted an Emerging and Small Business Development (ESBD) program to provide enhanced opportunities for the participation of small business enterprises (SBEs) and emerging business enterprises (EBEs) in the City's contracting and procurement activities. The ESBD program establishes an annual emerging and small business enterprise (ESBE) participation goal for City contracts, and authorizes City departments to require minimum ESBE participation levels in individual contracts so that the annual ESBE participation goal can be met. Under City Code section 3.60.270, when the bid specifications for a City contract establish a minimum participation level for ESBEs, no bidder on the contract shall be considered a responsive bidder unless its bid meets the minimum ESBE participation level required by the bid specifications.

The City has established a **minimum 20% participation level for ESBEs on this contract**. Pursuant to City code Section 3.60.270, no bidder on this contract shall be considered a responsive bidder unless its bid meets or exceeds this minimum participation level.

Bidders shall submit copies of their Certification as a SBE or EBE, and the SBE or EBE Certifications for each subcontractor, supplier, or other SBE or EBE business entity listed in the bidder's sealed proposal, within two (2) working days after being requested to do so by City. Failure to submit the requested ESBE information within this time period will be grounds for finding the bid non-responsive.

II. ESBE CERTIFICATION

- A. A SBE designated in the bid must be certified as such by the State of California, Department of General Services, or by the City, prior to the time bids are received by the City.
- B. An EBE designated in the bid must be certified as such by the City prior to the time bids are received by the City.

III. DETERMINATION OF ESBE PARTICIPATION LEVEL

- A. ESBE Participation: The percent of ESBE participation shall be determined based on the dollar value of the work to be performed or supplies to be furnished by certified ESBEs designated in the bidder's Subcontractor and ESBE Participation Verification Form, relative to the total dollar amount of the bid.
- B. Participation Credit: To receive credit for participation:(1) an ESBE subcontractor must be responsible for the execution of a distinct element of the work, must possess any license or certification required for the work, and must carry its responsibility by actually performing, managing, or supervising the work without subcontracting or otherwise shifting any portion of the work to another subcontractor; and (2) an ESBE supplier must be furnishing materials, equipment,

or supplies that the supplier sells as a recurring, although not necessarily primary, part of its business, and that are necessary for performance of the work.

- C. ESBE Bidders: The dollar value listed for an ESBE bidder on the bidder's Subcontractor and ESBE Participation Verification Form shall include only the amount of work to be performed by the ESBE bidder, and shall not include any amount to be paid by the ESBE bidder for the cost of materials, equipment, or supplies.
- D. Suppliers: Credit for an ESBE supplier of materials, equipment, or supplies is counted as one hundred (100) percent of the amount paid to the supplier for the material, equipment, or supplies. To receive this credit, ESBE suppliers must be listed on the bidder's Subcontractor and ESBE Participation Verification Form.
- E. Subcontractors (including truckers): To receive credit for an ESBE subcontractor, the subcontractor must be listed on the bidder's Subcontractor and ESBE Participation Verification Form. The dollar value listed for a subcontractor on the bidder's Subcontractor and ESBE Participation Verification Form shall not include any amount to be paid to the subcontractor for the cost of materials, equipment, or supplies.
 - Truckers: Credit for an ESBE trucker is counted as one hundred (100) percent of the amount paid to the trucker for trucking services, not including any amount paid to the trucker for the cost of any materials, equipment, or supplies being transported by the trucker.

IV. ESBE REQUIREMENTS FOR CONTRACTOR

- A. ESBE Records: The Contractor shall maintain records of all subcontracts with certified ESBE subcontractors and records of materials purchased from certified ESBE suppliers for one (1) year after receiving final payment from the City. Such records shall show the name and business address of each ESBE subcontractor or supplier and the total dollar amount actually paid each ESBE subcontractor or supplier.

Not later than 30 days after completion of the work performed under the contract, a summary of these records shall be prepared, certified correct by the Contractor's authorized representative and furnished to the City. The Contractor shall provide such other information, records, reports, certifications or other documents as may be required by City, to determine compliance with any provision of the ESD program or these specifications.

- B. Performance of ESBE Subcontractors and Suppliers: The ESBEs listed by the Contractor shall perform the work and supply the materials, equipment, and supplies for which they are listed unless the Contractor has received prior written authorization from the City to perform the work with other forces or to obtain the material, equipment, or supplies from other sources. Reasons for requesting such authorization would include:
 1. The listed ESBE fails to execute a written contract based upon the general terms, conditions, plans, and specifications for the project.

2. The listed ESBE becomes bankrupt or insolvent.
 3. The listed ESBE subcontractor fails to meet the bond requirements of the Contractor.
 4. The work performed or the materials/equipment/supplies provided by the listed ESBE are unsatisfactory or are not in accordance with the plans and specifications, or the listed ESBE fails to perform its contractual obligations.
 5. It would be in the best interest of the City.
- C. Subcontractor Substitution: No substitution of an ESBE subcontractor shall be made at any time without compliance with the Subletting and Subcontracting Fair Practices Act. If an ESBE subcontractor is unable to perform successfully and is to be replaced, the Contractor shall make reasonable efforts to replace the original ESBE subcontractor with another certified ESBE subcontractor. The new ESBE subcontractor must be certified at the time of substitution.
- D. Reporting and Utilization Requirements and Sanctions: Failure to provide specific information, records, reports, certifications, or any other documents required for compliance with these specifications, or failure to utilize one or more ESBEs in substantial compliance with the ESBE utilization indicated in the Contractor's bid (unless otherwise authorized by City as provided herein, or when such failure results from changes to the work approved by the City), shall be considered a breach of the contract, and a deduction may be made from the contract amount. The deduction shall be not more than ten (10) percent of the value of the work or materials/equipment/supplies that the subject ESBE(s) were listed to perform/provide in the Contractor's bid, and shall be deducted from any payment due to the Contractor. This is in addition to any deduction that may be made under any other provision of the contract, the Sacramento City Code, or State law.
- E. Hearing and Review of Division Manager Decision: Prior to making a deduction pursuant to Section IV(D), above, the City shall provide written notice of the proposed deduction to the Contractor, and the Contractor may, not later than five (5) working days after receiving such notice, provide a written request to City for a hearing to contest the proposed deduction. Upon receipt of a timely written request from the Contractor, the City shall schedule a hearing before the Division Manager (as defined in the City's Standard Specifications for Public Construction), and written notice of the date, time and location of the hearing shall be provided to the Contractor not less than five (5) working days prior to the date of the hearing. The hearing shall be conducted in the manner specified in Section 4-8 of the Standard Specifications, and the Division Manager shall prepare and forward to the Contractor a written decision as soon as practicable after the hearing. The Division Manager's decision shall be subject to review in accordance with the provisions of Section 4-9 of the Standard Specifications. Failure to request such review in compliance with the requirements set forth in Section 4-9 shall constitute acceptance of the Division Manager's decision by the Contractor.

The written notices and requests described above shall be provided by registered or certified mail (return receipt requested), by telecopy, by personal delivery, or by any

other method that provides reliable evidence of the date of receipt. Written notice provided by telecopy shall be deemed received on the date that it is transmitted and transmission is confirmed by the transmitting machine. Written notice provided by personal delivery shall be deemed received on the date of delivery.

V. DEFINITIONS

- A. Emerging Business Enterprise (EBE): The City shall certify EBEs utilizing the small business certification criteria and standards of the State of California, General Services Department, Office of Small Business and DVBE Services, that were in effect on December 1, 1998, provided that the size standard, industry by industry, shall be set at 50% of the State small business certification criteria and standards that were in effect on December 1, 1998.
- B. Small Business Enterprise (SBE): The City shall certify SBEs utilizing the current small business certification criteria and standards of the State of California, General Services Department, Office of Small Business and DVBE Services. The City will also accept State certified SBEs.
- C. The small business certification criteria and standards of the State of California, General Services Department, Office of Small Business and DVBE Services shall be used only for the purpose of determining whether a firm may receive certification as an EBE or SBE.
- D. Contractor: The sole proprietorship, partnership, limited liability company, corporation, or any other business entity entering into a contract with the City of Sacramento.
- E. Subcontractor: The sole proprietorship, partnership, limited liability company, corporation, or other business entity entering into a contract with the prime contractor to perform a portion of the work.
- F. Supplier: The sole proprietorship, partnership, limited liability company, corporation, or other business entity entering into a contract with the prime contractor to provide materials, equipment, or supplies necessary for performance of the work.

FOLLOWING FORMS TO BE FILLED OUT AND SIGNED

ONLY

IF AWARDED CONTRACT

WORKER'S COMPENSATION INSURANCE CERTIFICATION

TO THE CITY OF SACRAMENTO:

The undersigned does hereby certify that he is aware of the provisions of Section 3700 et seq. of the Labor Code which require every employer to be insured against liability for worker's compensation claims or to undertake self-insurance in accordance with the provisions of said Code, and that he/she will comply with such provisions before commencing the performance of the work on this contract.

Bidder

BY: _____

Title: _____

Address: _____

Date: _____

PLEASE READ CAREFULLY BEFORE SIGNING

To be signed by authorized corporate officer or partner or individual submitting the bid. If bidder is: (example)

1. An individual using a firm name, sign: "John Doe, and individual doing business as Blank Company".
2. An individual doing business under his own name, sign: Your name only.
3. A co-partnership, sign: "John Doe and Richard Doe, co-partners doing business as Blank Company, by, John Doe, Co-Partner".
4. A corporation, sign: "Blank Company, by John Doe, Secretary". (Or other title)

AGREEMENT
(Construction Contract Over \$25,000)

THIS AGREEMENT, dated for identification _____, 20___, is made and entered into between the CITY OF SACRAMENTO, a municipal corporation (“City”), and _____ (“Contractor”).

The City and Contractor hereby mutually agree as follows:

1. CONTRACT DOCUMENTS

The Contract Documents, sometimes also referred to as the “Contract,” consist of the following items, which are hereby incorporated by reference as if set forth in full in this Agreement:

- The Notice to Contractors
- The Proposal Form submitted by the Contractor
- The Instructions to Bidders
- The Emerging and Small Business Enterprise (ESBE) Requirements
- The Requirements for the Non-Discrimination in Employee Benefits by City Contractors Ordinance and the Declaration of Compliance
- The City’s Reference Guide for Construction Contracts
- The Addenda, if any
- This Agreement
- The Standard Specifications
- The Special Provisions
- The Plans and Technical Specifications
- The drawings and other data and all developments thereof prepared by City pursuant to the Contract
- Any modifications of any of the foregoing made or approved by City, including but not limited to duly authorized change orders.

Unless specifically noted otherwise, references to the “Standard Specifications” shall mean and refer to the Standard Specifications for Public Construction of the City of Sacramento approved by the Sacramento City Council on June 4, 2007 (Resolution No. 2007-350), and any subsequent amendments thereto approved by the Sacramento City Council or the Sacramento City Manager. Work called for in any one Contract Document and not mentioned in another is to be performed and executed as if mentioned in all Contract Documents. The table of contents, titles and headings contained in the Contract Documents are provided solely to facilitate reference to various provisions of the Contract Documents and in no way affect or limit the interpretation of the provisions to which they refer.

2. DEFINITIONS

Unless otherwise specifically provided herein, all words and phrases defined in the Standard Specifications shall have the same meaning and intent in this Agreement.

3. AGREEMENT CONTROLS

In the event of a conflict between any of the terms and conditions set forth in this Agreement and the terms and conditions set forth in other Contract Documents, the terms and conditions set forth in this Agreement shall prevail, except that the provisions of any duly authorized change order shall prevail over any conflicting provisions of this Agreement.

4. SCOPE OF CONTRACT

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, material and transportation necessary to perform and complete in a good and workmanlike manner to the satisfaction of City, all the Work called for in the Contract Documents entitled:

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1 (PN: Z14010061)

including the Work called for in the following alternative bid items described in the Proposal Form:

Contractor agrees to perform such Work in the manner designated in and in strict conformity with the Contract Documents.

5. CONTRACT AMOUNT AND PAYMENTS

City agrees to pay and Contractor agrees to accept, as complete payment for the above Work, in accordance with the schedule and procedures set forth in the Contract Documents and subject to deductions, withholdings and additions as specified in the Contract Documents, a total sum that shall not exceed the total bid amount set forth in Contractor's Proposal Form. In addition, subject to deductions, withholdings and additions as specified in the Contract Documents, payment for individual items of the Work shall be computed as follows:

(A) For items of the Work for which a lump sum price is specified in Contractor's Proposal Form, Contractor shall be paid the lump sum price(s) specified in Contractor's Proposal Form; and

(B) For items of the Work for which a unit price is specified in Contractor's Proposal Form, Contractor shall be paid the sum computed at such unit price, or computed at a different price if such different price is determined by City in accordance with the Standard Specifications, based on the actual amount of each such item performed and/or furnished and incorporated in the Work; provided that in no event shall the total sum for a unit price item exceed the total bid amount set forth for such item in the Contractor's Proposal Form, unless authorized by Change Order.

6. PROGRESS PAYMENTS

Subject to the terms and conditions of the Contract, City shall cause payments to be made upon demand of Contractor as follows:

(A) On or about the first of the month, the Engineer shall present to the Contractor a statement showing the amount of labor and materials incorporated in the Work through the twentieth (20) calendar day of the preceding month. After both Contractor and Engineer approve the statement in writing, and the City's labor compliance officer provides written approval, the City shall issue a certificate for ninety-five (95) percent of the amount it shall find to be due, subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations.

(B) No inaccuracy or error in said monthly estimates shall operate to release Contractor from damages arising from such Work or from enforcement of each and every provision of the Contract Documents, and City shall have the right subsequently to correct any error made in any estimate for payment.

(C) Contractor shall not be paid for any defective or improper Work.

(D) The remaining five (5) percent of the value of the Work performed under the Contract, if unencumbered and subject to any deductions or withholdings authorized or required under the Contract or any applicable Laws or Regulations, shall be released not later than sixty (60) days after completion and final acceptance of the Work by City. Acceptance by Contractor of the final

payment shall constitute a waiver of all claims against the City arising under the Contract Documents, except for disputed claims in stated amounts that the Contractor specifically reserves in writing, but only to the extent that the Contractor has complied with all procedures and requirements applicable to the presentation and processing of such claim(s) under the Contract Documents. Contractor shall be entitled to substitute securities for retention or to direct that payments of retention be made into escrow, as provided in Public Contract Code Section 22300, upon execution of the City's Escrow Agreement for Security Deposits in Lieu of Retention.

(E) The parties agree that, for purposes of the timely progress payment requirements specified in Public Contract Code Section 20104.50, the date that the City receives a statement jointly approved by the Contractor and the Engineer as provided above shall be deemed to constitute the date that City receives an undisputed and properly submitted payment request from the Contractor. Progress payments not made within 30 days after this date may be subject to payment of interest as provided in Public Contract Code Section 20104.50.

7. RETENTION OF SUMS CHARGED AGAINST CONTRACTOR

When, under the provisions of this Contract or any applicable Laws or Regulations, City is authorized or required to withhold, deduct or charge any sum of money against Contractor, City may deduct and retain the amount of such charge from the amount of the next succeeding progress estimate(s), or from any other moneys due or that may become due Contractor from City. If, on completion or termination of the Contract, sums due Contractor are insufficient to pay City's charges, City shall have the right to recover the balance from Contractor or its Sureties.

8. COMMENCEMENT AND PROSECUTION OF WORK

Contractor shall commence the Work not later than fifteen (15) working days after the date of the written Notice to Proceed from City to Contractor and shall diligently prosecute the Work to final completion. The phrase "commence the Work" means to engage in a continuous program on-site including, but not limited to, site clearance, grading, dredging, land filling and the fabrications, erection, or installation of the Work. The Notice to Proceed shall be issued within fifteen (15) calendar days following execution of the Agreement by the City and the filing by Contractor of the required Bonds and proof of insurance, provided that the Engineer may delay issuance of the Notice to Proceed if the Engineer determines in the Engineer's sole discretion that conditions on the site of the Work are unsuitable for commencement of the Work. After the Notice to Proceed is issued, the continuous prosecution of Work by Contractor shall be subject only to Excusable Delays as defined in this Agreement.

9. TIME OF COMPLETION

The entire Work shall be brought to completion in the manner provided for in the Contract Documents on or before **three hundred (300) working days** from the date of the Notice to Proceed (hereinafter called the "Completion Date") unless extensions of time are granted in accordance with the Contract Documents.

Failure to complete the entire Work by the Completion Date and in the manner provided for in the Contract Documents shall subject Contractor to liquidated damages as provided in this Agreement. Time is and shall be of the essence in the performance of the Contract and the Work.

10. PAYMENTS DO NOT IMPLY ACCEPTANCE OF WORK

The payment of any progress payment, or the acceptance thereof by Contractor, shall not constitute acceptance of the Work or any portion thereof and shall in no way reduce the liability of Contractor to replace unsatisfactory work or material, whether or not the unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

11. ACCEPTANCE NOT RELEASE

Contractor shall correct immediately any defective or imperfect work or materials that may be discovered before final acceptance of the entire Work, whether or not such defect or imperfection was previously noticed or identified by the City. The inspection of the Work, or any part thereof, shall not relieve Contractor of any of its obligations to perform satisfactory work as herein specified.

Failure or neglect on the part of City or any of its officers, employees or authorized agents to discover, identify, condemn or reject defective or imperfect work or materials shall not be construed to imply an acceptance of such work or materials, if such defect or imperfection becomes evident at any time prior to final acceptance of the entire Work, nor shall such failure or neglect be construed as barring City from enforcing Contractor's warranty(ies) or otherwise recovering damages or such a sum of money as may be required to repair or rebuild the defective or imperfect work or materials whenever City may discover the same, subject only to any statutes of limitation that may apply to any such claim.

12. CITY'S RIGHT TO TAKE POSSESSION OF THE WORK IN WHOLE OR IN PART

The City shall have the right at any time to enter upon the Work and perform work not covered by this Contract, or to occupy and use a portion of the Work, prior to the date of the final acceptance of the Work as a whole, without in any way relieving Contractor of any obligations under this Contract.

13. NO WAIVER OF REMEDIES

Neither the inspection by City, its officers, employees or agents, nor any certificate or other approval for the payment of money, nor any payment for, nor acceptance of the whole or any part of the Work by City, nor any extensions of time, nor any position taken by City, its officers, employees or its agents shall operate as a waiver of any provision of the Contract Documents nor of any power herein reserved to City or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach. All remedies provided in the Contract Documents shall be taken and construed as cumulative; in addition to each and every other remedy herein provided, the City shall have any and all equitable and legal remedies that it would in any case have.

14. WARRANTY

Except as otherwise expressly provided in the Contract Documents, and excepting only items of routine maintenance, ordinary wear and tear and unusual abuse or neglect by City, Contractor warrants and guarantees all Work executed and all supplies, materials and devices of whatsoever nature incorporated in or attached to the Work, or otherwise provided as a part of the Work pursuant to the Contract, to be absolutely free of all defects of workmanship and materials for a period of one year after final acceptance of the entire Work by the City. Contractor shall repair or replace all work or material, together with any other work or material that may be displaced or damaged in so doing, that may prove defective in workmanship or material within this one year warranty period without expense or charge of any nature whatsoever to City.

In the event that Contractor shall fail to comply with the conditions of the foregoing warranty within ten (10) days after being notified of the defect in writing, City shall have the right, but shall not be obligated, to repair, or obtain the repair of, the defect and Contractor shall pay to City on demand all costs and expense of such repair. Notwithstanding anything herein to the contrary, in the event that any defect in workmanship or material covered by the foregoing warranty results in a condition that constitutes an immediate hazard to public health or safety, or any property interest, or any person, City shall have the right to immediately repair, or cause to be repaired, such defect, and Contractor shall pay to City on demand all costs and expense of such repair. The foregoing statement relating to hazards to

health, safety or property shall be deemed to include both temporary and permanent repairs that may be required as determined in the sole discretion and judgment of City.

In addition to the above, the Contractor shall make a written assignment of all manufacturer's and other product warranties to the City, prior to completion and final acceptance of the Work by City.

The Contractor's Performance Bond shall secure the performance of the Contractor's obligations under this Section 14, and the Contractor and its Surety shall be jointly and severally liable for these obligations.

15. LIQUIDATED DAMAGES IF WORK NOT COMPLETED ON TIME

(A) The actual fact of the occurrence of damages and the actual amount of the damages that City would suffer if the entire Work, and/or any specified portion thereof, were not completed within the time(s) specified herein are dependent upon many circumstances and conditions that could prevail in various combinations, and for this reason, it is impracticable and extremely difficult to fix the actual damages. Damages that City would suffer in the event of such delay include: loss of the use of the project; expenses of prolonged assignment to the project of an architectural and/or engineering staff; prolonged costs of administration, inspection, and supervision; increased operational expenses and/or impaired operation of other facilities dependent upon completion of the project; and the loss and inconvenience suffered by the public within the City of Sacramento by reason of the delay in the completion of the project or portion thereof. Accordingly, the parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the amount(s) set forth herein as liquidated damages reflect the parties' best efforts at the time of entering into the Contract to estimate the damages that may be incurred by City and the public due to the Contractor's delay in completion of the Work and/or any specified portion thereof, and shall be presumed to be the amount of damages sustained by the failure of Contractor to complete the entire Work and/or any specified portion thereof within the time(s) specified herein.

(B) Contractor shall pay liquidated damages to City for failure to complete the entire Work by the Completion Date (as extended in accordance with the Contract Documents, if applicable) in the amount of **seven hundred dollars (\$700.00) for each calendar day** after the Completion Date (as extended in accordance with the Contract Documents, if applicable), continuing to the time at which the entire Work is completed. Such amount is the actual cash value agreed upon by the City and Contractor as the loss to City and the public resulting from Contractor's default.

The parties agree, and by execution of this Agreement, Contractor acknowledges that it understands and agrees, that the foregoing provisions provide for the imposition of liquidated damages from the Completion Date (as extended in accordance with the Contract Documents, if applicable) until the date of completion of the entire Work as determined by the Engineer in accordance with Section 8-4 of the Standard Specifications, whether or not the Work or any portion thereof is claimed or determined to be substantially complete prior to such date of completion.

(C) In the event Contractor shall become liable for liquidated damages, City, in addition to all other remedies provided by law, shall have the right to withhold any and all payments that otherwise would be or become due Contractor until the liability of Contractor under this section is finally determined. City shall have the right to use and apply such payments, in whole or in part, to reimburse City for all liquidated damages due or to become due to City. Any remaining balance of such payments shall be paid to Contractor only after discharge in full of all liability incurred by Contractor under this section or otherwise under any provision of the Contract Documents or any applicable Law or Regulation. If the sum so retained by City is not sufficient to discharge all such liabilities of Contractor, Contractor shall continue to remain liable to City until all such liabilities are satisfied in full. No failure by City to withhold any payment as specified above shall in any manner be construed to constitute a release of any such liabilities nor a waiver of the City's right to withhold payment for such liabilities.

16. INDEMNITY AND HOLD HARMLESS

(A) Contractor shall defend, hold harmless and indemnify the City, its officers, employees, and agents, and each and every one of them, from and against any and all actions, damages, costs, liabilities, claims, demands, losses, judgments, penalties, costs and expenses of every type and description, whether arising on or off the site of the Work, including, but not limited to, any fees and/or costs reasonably incurred by City's staff attorneys or outside attorneys and any fees and expenses incurred in enforcing this provision (hereafter collectively referred to as "Liabilities"), including but not limited to Liabilities arising from personal injury or death, damage to personal, real or intellectual property or the environment, contractual or other economic damages, or regulatory penalties, arising out of or in any way connected with performance of or failure to perform the Work by the Contractor, any subcontractor or agent, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, whether or not (i) such Liabilities are caused in part by a party indemnified hereunder, or (ii) such Liabilities are litigated, settled or reduced to judgment; provided that the foregoing indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, damage or expense to the extent arising from (i) the sole negligence or willful misconduct of, or defects in design furnished by, City, its agents, servants, or independent contractors who are directly responsible to City, or (ii) the active negligence of City.

(B) The existence or acceptance by City of any of the insurance policies or coverages described in this Agreement shall not affect or limit any of City's rights under this Section 16, nor shall the limits of such insurance limit the liability of Contractor hereunder. The provisions of this Section 16 shall survive any expiration or termination of the Contract.

17. CONTRACTOR SHALL ASSUME RISKS

Until the completion and final acceptance by City of all Work under this Contract, the Work shall be under Contractor's responsible care and charge, and Contractor, at no cost to City, shall rebuild, repair, restore and make good all injuries, damages, re-erectations, and repairs occasioned or rendered necessary by accidental causes of any nature, to all or any portions of the Work.

18. GENERAL LIABILITY OF CONTRACTOR

Except as otherwise herein expressly stipulated, Contractor shall perform all the Work and furnish all the labor, materials, tools, equipment, apparatus, facilities, transportation, power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner and within the time herein specified. The mention of any specific duty or liability of Contractor shall not be construed as a limitation or restriction of any general liability or duty of Contractor, and any reference to any specific duty or liability shall be construed to be solely for the purpose of explanation.

19. INSURANCE

During the entire term of this Contract and until completion and final acceptance of the Work as provided in the Contract Documents, Contractor shall maintain in full force and effect the insurance coverage described in this section.

Full compensation for all premiums that Contractor is required to pay for the insurance coverage described herein shall be included in the compensation specified for performance of the Work under the Contract. No additional compensation will be provided for Contractor's insurance premiums.

It is understood and agreed by the Contractor that its liability to the City shall not in any way be limited to or affected by the amount of insurance coverage required of or carried by the Contractor.

(A) Minimum Scope and Limits of Insurance Coverage

(1) Commercial General Liability Insurance, providing coverage at least as broad as ISO CGL Form 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one million dollars (\$1,000,000) per occurrence. The policy shall provide contractual liability and products and completed operations coverage for the term of the policy.

(2) Automobile Liability Insurance providing coverage at least as broad as ISO Form CA 00 01 on an occurrence basis for bodily injury, including death, of one or more persons, property damage and personal injury, with limits of not less than one million dollars (\$1,000,000) per occurrence. The policy shall provide coverage for owned, non-owned and/or hired autos as appropriate to the operations of the Contractor.

(3) Workers' Compensation Insurance with statutory limits, and Employers' Liability Insurance with limits of not less than one million dollars (\$1,000,000). The Worker's Compensation policy shall include a waiver of subrogation.

(B) Additional Insured Coverage

(1) Commercial General Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects general liability arising out of activities performed by or on behalf of Contractor, products and completed operations of Contractor, and premises owned, leased or used by Contractor. The general liability additional insured endorsement must be signed by an authorized representative of the insurance carrier.

If the policy includes a blanket additional insured endorsement or contractual additional insured coverage, the above signature requirement may be fulfilled by submitting that document with a signed declaration page referencing the blanket endorsement or policy form.

(2) Automobile Liability Insurance: The City, its officials, employees and volunteers shall be covered by policy terms or endorsement as additional insureds as respects auto liability.

(C) Other Insurance Provisions

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

(1) Contractor's insurance coverage shall be primary insurance as respects City, its officials, employees and volunteers. Any insurance or self-insurance maintained by City, its officials, employees or volunteers shall be in excess of Contractor's insurance and shall not contribute with it.

(2) Any failure to comply with reporting provisions of the policies shall not affect coverage provided to City, its officials, employees or volunteers.

(3) Coverage shall state that 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.

(4) City will be provided with thirty (30) days written notice of cancellation or material change in the policy language or terms.

(D) Acceptability of Insurance

Insurance shall be placed with insurers with a Bests' rating of not less than A:V. Self-insured retentions, policy terms or other variations that do not comply with the requirements of this Section 19 must be declared to and approved by the City Risk Management Division in writing prior to execution of this Agreement.

(E) Verification of Coverage

(1) Contractor shall furnish City with certificates and required endorsements evidencing the insurance required. The certificates and endorsements shall be forwarded to the City representative designated by City. Copies of policies shall be delivered to the City on demand. Certificates of insurance shall be signed by an authorized representative of the insurance carrier.

(2) The City may withdraw its offer of contract or cancel the Contract if the certificates of insurance and endorsements required have not been provided prior to execution of this Agreement. The City may withhold payments to Contractor and/or cancel the Contract if the insurance is canceled or Contractor otherwise ceases to be insured as required herein.

(F) Subcontractors

Contractor shall require and verify that all subcontractors maintain insurance coverage that meets the minimum scope and limits of insurance coverage specified in subsection A, above.

20. FAILURE TO MAINTAIN BONDS OR INSURANCE

If, at any time during the performance of this Contract, Contractor fails to maintain any item of the bonds and/or insurance required under the Contract in full force and effect, Contractor shall immediately suspend all work under the Contract and notify City in writing of such failure. After such notice is provided, or if City discovers such failure and notifies Contractor, the City thereafter may withhold all Contract payments due or that become due until notice is received by City that such bonds and/or insurance have been restored in full force and effect and that the premiums therefor have been paid for a period satisfactory to the Division of Risk Management. Contractor shall not resume work until notified by City to do so, and the City shall have no responsibility or liability for any costs incurred by Contractor as a result of such suspension of Work.

In addition to the foregoing, any failure to maintain any item of the required bonds and/or insurance at any time during the performance of this Contract will be sufficient cause for termination of the Contract by City.

The Contractor shall be solely responsible for, and shall defend, indemnify and hold harmless the City, its officers, employees and agents against and from, any and all damages, claims, losses, actions, costs or other expenses of any kind incurred by any party as a direct or indirect result of any suspension of Work or termination of the Contract under the provisions of this Section.

21. EXCUSABLE DELAYS

For the purpose of these Contract Documents, the term "Excusable Delay" shall mean, and is limited to, delay caused directly by: acts of God; acts of a public enemy; fires; inclement weather as determined by the Engineer; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; sitdowns; acts of a governmental agency; priorities or privileges established for the manufacture, assemble, or allotment of materials necessary in the Work by order, decree or otherwise of the United

States or by any department, bureau, commission, committee, agent, or administrator of any legally constituted public authority; changes in the Work ordered by City insofar as they necessarily require additional time in which to complete the Work; the prevention of Contractor from commencing or prosecuting the Work because of the acts of others, excepting Contractor's subcontractors or suppliers; or the prevention of Contractor from commencing or prosecuting the Work because of a Citywide failure of public utility service.

The term "Excusable Delay" shall specifically not include: (i) any delay that could have been avoided by the exercise of care, prudence, foresight and diligence on the part of Contractor; (ii) any delay in the prosecution of any part of the Work that does not constitute a Controlling Operation, whether or not such delay is unavoidable; (iii) any reasonable delay resulting from time required by City for review of any Contractor submittals and for the making of surveys, measurements and inspection; and, (iv) any delay arising from an interruption in the prosecution of the Work on account of reasonable interference by other Contractors employed by City that does not necessarily prevent the completion of the entire Work within the time specified. Excusable Delays, if any, shall operate only to extend the Completion Date (not in excess of the period of such delay as determined by City) and shall not under any circumstances increase the amount City is required to pay Contractor except as otherwise provided in these Contract Documents.

22. CONTRACTOR TO SERVE NOTICE OF DELAYS

Whenever Contractor foresees any delay in the prosecution of the Work, and in any event as soon as possible (not to exceed a period of ten (10) calendar days) after the initial occurrence of any delay that Contractor regards as or may later claim to be an Excusable Delay, the Contractor shall notify the Engineer in writing of such delay and its cause, in order that the Engineer: (i) may take immediate steps to prevent if possible the occurrence or continuance of the delay; or (ii) if this cannot be done, may determine whether the delay is to be considered excusable, how long it continues, and to what extent the prosecution and completion of the Work are delayed thereby. Said written notice shall constitute an application for an extension of time only if the notice requests such an extension and sets forth the Contractor's estimate of the additional time required together with a full description of the cause of the delay relied upon.

After the completion of any part or whole of the Work, the Engineer, in estimating the amount due Contractor, will assume that any and all delays that may have occurred in its prosecution and completion were not Excusable Delays, except for such delays for which the Contractor has provided timely written notice as required herein, and that the Engineer has found to be excusable. Contractor shall not be entitled to claim Excusable Delay for any delay for which the Contractor failed to provide such timely written notice.

23. EXTENSION OF TIME

If the Contractor complies with Section 22, above, and the Engineer finds a delay claimed by the Contractor to be an Excusable Delay, the Contractor shall be allowed an extension of time to complete the Work that is proportional to the period of Excusable Delay determined by the Engineer, subject to the approval by City of a change order granting such time extension. During a duly authorized extension for an Excusable Delay, City shall not charge liquidated damages against the Contractor for such delay.

If the City extends the time to complete the Work as provided herein, such extension shall in no way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such extension of time relieve or release the sureties of the Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such extension of time. The granting of any extension of time as provided herein shall in no way operate as a waiver on the part of City of its rights under this Contract, excepting only extension of the Completion Date for such period of Excusable Delay as may be determined by the Engineer and approved by a duly authorized change order.

24. NO PAYMENT FOR DELAYS

No damages or compensation of any kind shall be paid to Contractor or any subcontractor because of delays in the progress of the Work whether or not such delays qualify for extension of time under this Agreement; except that this provision shall not preclude the recovery of damages for a delay caused by the City that is unreasonable under the circumstances and that is not within the contemplation of the parties, provided that the Contractor timely submits all such written notice(s) and fully complies with such other procedures as may be specified in the Contract Documents or any Laws or Regulations for Contractor to claim damages for such delay.

25. CHANGES IN THE WORK

Changes in the Work authorized or directed in accordance with the Contract Documents and extensions of time of completion made necessary by reason thereof shall not in any way release any warranty or guarantee given by Contractor pursuant to the provisions of the Contract Documents, nor shall such changes in the Work relieve or release the Sureties on Bonds provided pursuant to the Contract Documents. By executing such Bonds, the Sureties shall be deemed to have expressly agreed to any such change in Work and to any extension of time made by reason thereof.

26. TERMINATION AFTER COMPLETION DATE

In addition to any other rights City may have, if any services or work required under the Contract (including but not limited to punch list items) are not completed as of the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), City may terminate the Contract at any time after the Completion Date (as adjusted by any extensions of time for Excusable Delays granted pursuant to the Contract Documents), by providing a written notice to Contractor specifying the date of termination. Such notice also may specify conditions or requirements that Contractor must meet to avoid termination of the Contract on such date. If Contractor fails to fulfill all such conditions and requirements by such termination date, or, if no such conditions or requirements are specified, Contractor shall cease rendering services and performing work on such termination date, and shall not be entitled to receive any compensation for services rendered or work performed after such termination date. In the event of such termination, Contractor shall remain liable to City for liquidated damages incurred for any period of time prior to the termination date.

In addition to any other charges, withholdings or deductions authorized under the Contract or any Laws or Regulations, if City terminates the Contract pursuant to this section, City may withhold and deduct from any payment and/or retention funds otherwise due Contractor any sum necessary to pay the City's cost of completing or correcting, or contracting for the completion or correction of, any services or work under the Contract that are not completed to the satisfaction of the City or that otherwise are deficient or require correction as of such termination date, including but not limited to incomplete punch list items. Such costs shall include all of the City's direct and indirect costs incurred to complete or correct such services or work, including the City's administrative and overhead costs. If the amount of payment(s) and/or retention funds otherwise due the Contractor are insufficient to pay such costs, City shall have the right to recover the balance of such costs from the Contractor and/or its Surety(ies).

27. TERMINATION FOR CONVENIENCE

Upon written notice to the Contractor, the City may at any time, without cause and without prejudice to any other right or remedy of the City, elect to terminate the Contract for the convenience of City. In such case, the Contractor shall be paid (without duplication of any items, and after deduction and/or withholding of any amounts authorized to be deducted or withheld by the Contract Documents or any Laws or Regulations):

- (A) For Work executed in accordance with the Contract Documents prior to the effective date of termination and determined to be acceptable by the Engineer, including fair and reasonable sums for overhead and profit on such Work;
- (B) For reasonable claims, costs, losses, and damages incurred in settlement of terminated contracts with subcontractors, suppliers, and others; and
- (C) For reasonable expenses directly attributable to termination.

Contractor shall not be paid for any loss of anticipated profits or revenue for any Work not performed prior to termination, nor for any economic loss arising out of or resulting from such termination, except for the payments listed in this section. Contractor's warranty under Section 14 of this Agreement shall apply, and Contractor shall remain responsible for all obligations related to such warranty, with respect to all portions of the Work performed prior to the effective date of the termination for convenience pursuant to this section. The City shall be entitled to have any or all remaining Work performed by other contractors or by any other means at any time after the effective date of a termination for convenience pursuant to this section.

28. TERMINATION FOR BREACH OF CONTRACT

If Contractor abandons the Work under this Contract, or if the Contract or any portion of the Contract is sublet or assigned without the consent of the City, or if the Engineer determines in the Engineer's sole discretion that the conditions of the Contract in respect to the rate of progress of the Work are not being fulfilled or any part thereof is unnecessarily delayed, or if Contractor violates or breaches, or fails to execute in good faith, any of the terms or conditions of the Contract, or if Contractor refuses or fails to supply enough properly skilled labor or materials or refuses or fails to make prompt payment to subcontractors for material or labor, or if Contractor disregards any Laws or Regulations or proper instruction or orders of the Engineer, then, notwithstanding any provision to the contrary herein, the City may give Contractor and its Sureties written notification to immediately correct the situation or the Contract shall be terminated.

In the event that such notice is given, and, in the event such situation is not corrected, or arrangements for correction satisfactory to the City are not made, within ten (10) calendar days from the date of such notice or within such other period of time as may be specified by the City in the notice, the Contract shall upon the expiration of said period cease and terminate. In the event of any such termination, City may take over the Work and prosecute the Work to completion, or otherwise, and the Contractor and its Sureties shall be liable to City for any cost occasioned City thereby, as hereinafter set forth.

In the event City completes the Work, or causes the Work to be completed, no payment of any kind shall be made to Contractor until the Work is complete. The cost of completing the Work, including but not limited to, extra costs of project administration and management incurred by City, both direct or indirect, shall be deducted from any sum then due, or that becomes due, to Contractor from City. If sums due to Contractor from City are less than the cost of completing the Work, Contractor and its Sureties shall pay City a sum equal to this difference on demand. In the event City completes the Work, and there is a sum remaining due to Contractor after City deducts the costs of completing the Work, then City shall pay such sum to Contractor. The Contractor and Contractor's Sureties shall be jointly and severally liable for all obligations imposed on Contractor hereunder.

No act by City before the Work is finally accepted, including, but not limited to, exercise of other rights under the Contract, actions at law or in equity, extensions of time, payments, assessments of liquidated damages, occupation or acceptance of any part of the Work, waiver of any prior breach of the Contract or failure to take action pursuant to this section upon the happening of any prior default or breach of Contractor, shall be construed to be a waiver or estoppel of the City's right to act pursuant to this Section upon any subsequent event, occurrence or failure by Contractor to fulfill the terms and conditions of the Contract. The rights of City to terminate the Contract pursuant to this Section and

pursuant to Sections 26 and 27 are cumulative and are in addition to all other rights of City pursuant to the Contract and at law or in equity.

29. CONTRACTOR BANKRUPT

If Contractor should commence any bankruptcy proceeding, or if Contractor is adjudged a bankrupt, or if Contractor makes any assignment for the benefit of creditors, or if a receiver is appointed on account of Contractor's insolvency, then the City may, without prejudice to any other right or remedy, terminate the Contract and complete the work by giving notice as provided in Section 28 above.

30. SURETIES' OBLIGATIONS UPON TERMINATION

If the City terminates the Contract pursuant to Section 28 or Section 29 above:

(A) The Surety under Contractor's performance bond shall be fully responsible for all of the Contractor's remaining obligations of performance under the Contract as if the Surety were a party to the Contract, including without limitation Contractor's obligations, as provided in the Contract Documents, to complete and provide a one-year warranty of the entire Work, pay liquidated damages and indemnify, defend and hold harmless City, up to the full amount of the performance bond.

(B) The Surety under Contractor's payment bond shall be fully responsible for the performance of all of the Contractor's remaining payment obligations for work, services, equipment or materials performed or provided in connection with the Work or any portion thereof, up to the full amount of the payment bond.

31. ACCOUNTING RECORDS OF CONTRACTOR

During performance of the Contract and for a period of three (3) years after completing the entire Work, Contractor shall maintain all accounting and financial records related to the Contract and performance of the Work in accordance with generally accepted accounting practices, and shall keep and make such records available for inspection and audit by representatives of the City upon reasonable written notice.

32. USE TAX REQUIREMENTS

During the performance of this Agreement, CONTRACTOR, for itself, its assignees and successors in interest, agrees as follows:

(A) Use Tax Direct Payment Permit: For all leases and purchases of materials, equipment, supplies, or other tangible personal property used to perform the Agreement and shipped from outside California, the Contractor and any subcontractors leasing or purchasing such materials, equipment, supplies or other tangible personal property shall obtain a Use Tax Direct Payment Permit from the California State Board of Equalization ("SBE") in accordance with the applicable SBE criteria and requirements.

(B) Sellers Permit: For any construction contract and any construction subcontract in the amount of \$5,000,000 or more, Contractor and the subcontractor(s) shall obtain sellers permits from the SBE and shall register the jobsite as the place of business for the purpose of allocating local sales and use tax to the City. Contractor and its subcontractors shall remit the self-accrued use tax to the SBE, and shall provide a copy of each remittance to the City.

(C) The above provisions shall apply in all instances unless prohibited by the funding source for the Agreement.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement on the date set for opposite their names.

CONTRACTOR

Under penalty of perjury, I certify that the taxpayer identification number and all other information provided here are correct.

DATE _____

BY _____

Print Name

Title

BY _____

Print Name

Title

Federal ID#

State ID#

City of Sacramento Business Operation Tax Certificate No. (City will not award contract until Certificate Number is obtained)

Type of Business Entity (*check one*):

- _____ Individual/Sole Proprietor
- _____ Partnership
- _____ Corporation
- _____ Limited Liability Company
- _____ Other (*please specify:* _____)

CITY OF SACRAMENTO
a municipal corporation

DATE _____

BY _____

For: John F. Shirey, City Manager

Original Approved As To Form:

Attest:

City Attorney

City Clerk

CITY OF SACRAMENTO
PERFORMANCE BOND
Department of Utilities

Bond #: _____
Premium: _____
Page 1 of 1

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City has conditionally awarded to *(here insert full name and address of Contractor)*:

as principal, hereinafter called Contractor, an agreement for construction of:

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1
(PN: Z14010061) (B13141321017)

in accordance with the plans, specifications, drawings, conditions, and project manual prepared therefore, which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract, Contractor is required to furnish a bond for the faithful performance of the Contract.

NOW, THEREFORE, we the Contractor and *(here insert full name and address of Surety)*:

_____, a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, as obligee, in the sum of _____ DOLLARS \$ _____), for the payment of which sum well and truly to be made, we the Contractor and Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally. The condition of this obligation is such that, if the Contractor, Contractor's heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and fully perform all covenants, conditions and agreements required to be kept and performed by Contractor in the Contract and any changes, additions or alterations made thereto, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meanings, and shall indemnify and save harmless the City, its officers, employees and agents, as therein provided, then this obligation shall be null and void; otherwise shall be and remain in full force and effect. This obligation shall remain in full force and effect until (1) the date that the Contractor no longer has any remaining obligation of performance under the Contract, or (2) the date that is one year after the date that the work to be performed under the Contract is accepted as complete by the City, whichever occurs later.

As part of the obligation secured hereby and in addition to the sum specified above, there shall be included all costs, expenses and fees, including attorney's fees, reasonably incurred by City in successfully enforcing such obligation, all to be taxed as costs and included in any judgement rendered.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed thereunder, or to the specifications accompanying the same, shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety.
SIGNED AND SEALED on _____, 2013.

(Contractor) (Seal)

By _____

Title _____

ORIGINAL APPROVED AS TO FORM:

City Attorney

(Surety) (Seal)

By _____

Title _____

Agent Name and Address _____

Agent Phone # _____

Surety Phone # _____

California License # _____

Surety Email: _____

WHEREAS, the City of Sacramento, in the State of California, hereinafter called City, has conditionally awarded to:

hereinafter called Contractor, a contract for construction of:

EAST SACRAMENTO WATER MAIN REPLACEMENT PROJECT PHASE 1
(PN: Z14010061) (B13141321017)

Which contract is by reference incorporated herein and made a part hereof, and is hereinafter referred to as the Contract; and

WHEREAS, under the terms of the Contract and pursuant to Chapter 5 of Title 3 of Part 6 of Division 4 of the California Civil Code (commencing with Civil Code Section 9550), Contractor is required to furnish a good and sufficient payment bond to secure payment of the claims to which reference is made in Civil Code Section 9554.

NOW, THEREFORE, we the Contractor and (*here insert full name and address of Surety*):

_____, a corporation a corporation duly authorized and admitted to transact business and issue surety bonds in the State of California, hereinafter called Surety, are held and firmly bound unto the City, and unto all persons or entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions in the sum of _____ DOLLARS (\$_____), on the condition that if Contractor shall fail to pay for any materials or equipment furnished or used in performance of the Contract, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board or the Employment Development Department from the wages of employees of the Contractor and all subcontractors with respect to such work or labor, then the Surety shall pay the same in an amount not exceeding the sum specified above. If suit is brought upon this bond, Surety shall pay, in addition to the above sum, all costs, expenses and fees, including attorney's fees, reasonably incurred by any party in successfully enforcing the obligation secured hereby, all to be taxed as costs and included in any judgment rendered. 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, and shall bind Contractor, Surety, their heirs, executors, administrators, successors and assigns, jointly and severally.

It is hereby stipulated and agreed that this bond shall inure to the benefit of all persons, companies, corporations, political subdivisions, State agencies and other entities entitled to assert a claim against a payment bond under any of the aforesaid Civil Code provisions, so as to give a right of action to them or their assigns in any suit brought upon this bond. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or to the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration or addition.

IN WITNESS WHEREOF, this instrument has been duly executed by authorized representatives of the Contractor and Surety.
SIGNED AND SEALED on _____ 2013.

(Contractor) (Seal)
By _____
Title _____

(Surety) (Seal)
By _____
Title _____
Agent Name and Address _____

ORIGINAL APPROVED AS TO FORM:

City Attorney

Agent Phone # _____
Surety Phone # _____
California License # _____
Surety Email: _____

**EXCERPTS FROM THE CALIFORNIA LABOR CODE RELATING TO
APPRENTICES ON PUBLIC WORKS
Chapter 1 of Division 2
APPRENTICES ON PUBLIC WORKS**

1773.3. An awarding agency whose public works contract falls within the jurisdiction of Section 1777.5 shall, within five days of the award, send a copy of the award to the Division of Apprenticeship Standards. When specifically requested by a local joint apprenticeship committee, the division shall notify the local joint apprenticeship committee regarding all such awards applicable to the joint apprenticeship committee making the request. Within five days of a finding of any discrepancy regarding the ratio of apprentices to journeymen, pursuant to the certificated fixed number of apprentices to journeymen, the awarding agency shall notify the Division of Apprenticeship Standards.

1776. (a) Each contractor and subcontractor shall keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by him or her in connection with the public work. Each payroll record shall contain or be verified by a written declaration that it is made under penalty of perjury, stating both of the following: (1) The information contained in the payroll record is true and correct. (2) The employer has complied with the requirements of Sections 1771, 1811, and 1815 for any work performed by his or her employees on the public works project.

(b) The payroll records enumerated under subdivision (a) 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 subdivision (a) 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 subdivision (a) shall be made available upon request by the public for inspection or for copies thereof. However, 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 paragraph (2), the requesting party shall, prior to being provided the records, reimburse 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 office of the contractor.

(c) The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the division.

(d) A contractor or subcontractor shall file a certified copy of the records enumerated in subdivision (a) with the entity that requested the records within 10 days after receipt of a written request.

(e) Any copy of records made available for inspection as copies and 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 to prevent disclosure of an individual's name, address, and social security number. The name and address of the contractor awarded the contract or the subcontractor performing the contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent disclosure of an individual's name and social security number. A joint labor management committee may maintain an action in a court of competent jurisdiction against an employer who fails to comply with Section 1774. The court may award restitution to an employee for unpaid wages and may award the joint labor management committee reasonable attorney's fee and costs incurred in maintaining the action. An action under this subdivision may not be based on the employer's misclassification of the craft of a worker on its certified payroll records. Nothing in this subdivision limits any other available remedies for a violation of this chapter.

(f) The contractor shall inform the body awarding the contract of the location of the records enumerated under subdivision (a), including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.

(g) The contractor or subcontractor shall have 10 days in which to comply subsequent to receipt of a written notice requesting the records enumerated in subdivision (a). In the event that the contractor or subcontractor fails to comply within the 10-day period, he or she shall, as a penalty to the state or political subdivision on whose behalf the contract is made or awarded, forfeit twenty-five dollars (\$25) 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. A contractor is not subject to a penalty assessment pursuant to this section due to the failure of a subcontractor to comply with this section.

(h) The body awarding the contract shall cause to be inserted in the contract stipulations to effectuate this section.

(i) The director shall adopt rules consistent with the California Public Records Act, (Chapter 3.5 (commencing with Section 6250), Division 7, Title 1, Government Code) and the Information Practices Act of 1977, (Title 1.8 (commencing with Section 1798), Part 4, Division 3, Civil Code) governing the release of these records, including the establishment of reasonable fees to be charged for reproducing copies of records required by this section.

(j) This section shall remain in effect only until January 1, 2003, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2003, deletes or extends that date.

1776. (a) Each contractor and subcontractor shall keep an accurate payroll record, showing the name, address, social security number, work classification, and 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 under subdivision (a) 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 subdivision (a) 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 subdivision (a) shall be made available upon request by the public for inspection or for copies thereof. However, 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 paragraph (2), the requesting party shall, prior to being provided the records, reimburse 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 office of the contractor.

(c) The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the division.

(d) Each contractor shall file a certified copy of the records enumerated in subdivision (a) with the entity that requested the records within 10 days after receipt of a written request.

(e) Any copy of records made available for inspection as copies and 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 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. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent disclosure of an individual's social security number.

(f) The contractor shall inform the body awarding the contract of the location of the records enumerated under subdivision (a), including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.

(g) The contractor shall have 10 days in which to comply subsequent to receipt of written notice specifying in what respects the contractor must comply with this section. In the event that the contractor fails to comply within the 10-day period, he or she shall, as a penalty to the state or political subdivision on whose behalf the contract is made or awarded, forfeit twenty-five dollars (\$25) 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.

(h) The body awarding the contract shall cause to be inserted in the contract stipulations to effectuate this section. These stipulations shall fix the responsibility for compliance with this section on the prime contractor.

(i) The director shall adopt rules consistent with the California Public Records Act, (Chapter 3.5 (commencing with Section 6250), Division 7, Title 1, Government Code) and the Information Practices Act of 1977, (Title 1.8 (commencing with Section 1798), Part 4, Division 3, Civil Code) governing the release of these records, including the establishment of reasonable fees to be charged for reproducing copies of records required by this section.

(j) This section shall become operative January 1, 2003.

1777.5. (a) Nothing in this chapter shall prevent the employment of properly registered apprentices upon public works.

(b) Every apprentice employed upon public works shall be paid the prevailing rate of per diem wages for apprentices in the trade to which he or she is registered and shall be employed only at the work of the craft or trade to which he or she is registered.

(c) Only apprentices, as defined in Section 3077, who are in training under apprenticeship standards that have been approved by the Chief of the Division of Apprenticeship Standards and who are parties to written apprentice agreements under Chapter 4 (commencing with Section 3070) of Division 3 are eligible to be employed at the apprentice wage rate on public works. The employment and training of each apprentice shall be in accordance with either (1) the apprenticeship standards and apprentice agreements under which he or she is training or (2) the rules and regulations of the California Apprenticeship Council.

(d) When the contractor to whom the contract is awarded by the state or any political subdivision, in performing any of the work under the contract, employs workers in any apprenticeable craft or trade, the contractor shall employ apprentices in at least the ratio set forth in this section and may apply to any apprenticeship program in the craft or trade that can provide apprentices to the site of the public work for a certificate approving the contractor under the apprenticeship standards for the employment and training of apprentices in the area or industry affected. However, the decision of the apprenticeship program to approve or deny a certificate shall be subject to review by the Administrator of Apprenticeship. The apprenticeship program or programs, upon approving the contractor, shall arrange for the dispatch of apprentices to the contractor. A contractor covered by an apprenticeship program's standards shall not be required to submit any additional application in order to include additional public works contracts under that program.

"Apprenticeable craft or trade," as used in this section, means a craft or trade determined as an apprenticeable occupation in accordance with rules and regulations prescribed by the California Apprenticeship Council. As used in this section, "contractor" includes any subcontractor under a contractor who performs any public works not excluded by subdivision (o).

(e) Prior to commencing work on a contract for public works, every contractor shall submit contract award information to an applicable apprenticeship program that can supply apprentices to the site of the public work. The information submitted shall include an estimate of journeyman hours to be performed under the contract, the number of apprentices proposed to be employed, and the approximate dates the apprentices would be employed. A copy of this information shall also be submitted to the awarding body if requested by the awarding body. Within 60 days after concluding work on the contract, each contractor and subcontractor shall submit to the awarding body, if requested, and to the apprenticeship program a verified statement of the journeyman and apprentice hours performed on the contract. The information under this subdivision shall be public. The apprenticeship programs shall retain this information for 12 months.

(f) The apprenticeship program that can supply apprentices to the area of the site of the public work shall ensure equal employment and affirmative action in apprenticeship for women and minorities.

(g) The ratio of work performed by apprentices to journeymen employed in a particular craft or trade on the public work may be no higher than the ratio stipulated in the apprenticeship standards under which the apprenticeship program operates where the contractor agrees to be bound by those standards, but, except as otherwise provided in this section, in no case shall the ratio be less than one hour of apprentice work for every five hours of journeyman work.

(h) This ratio of apprentice work to journeyman work shall apply during any day or portion of a day when any journeyman is employed at the jobsite and shall be computed on the basis of the hours worked during the day by journeymen so employed. Any work performed by a journeyman in excess of eight hours per day or 40 hours per week shall not be used to calculate the ratio. The contractor shall employ apprentices for the number of hours computed as above before the end of the contract or, in the case of a subcontractor, before the end of the subcontract. However, the contractor shall endeavor, to the greatest extent possible, to employ apprentices during the same time period that the journeymen in the same craft or trade are employed at the jobsite. Where an hourly apprenticeship ratio is not feasible for a particular craft or trade, the Chief of the Division of Apprenticeship Standards, upon application of an apprenticeship program, may order a minimum ratio of not less than one apprentice for each five journeymen in a craft or trade classification.

(i) A contractor covered by this section that has agreed to be covered by an apprenticeship program's standards upon the issuance of the approval certificate, or that has been previously approved for an apprenticeship program in the craft or trade, shall

employ the number of apprentices or the ratio of apprentices to journeymen stipulated in the applicable apprenticeship standards, but in no event less than the 1-to-5 ratio required by subdivision (g).

(j) Upon proper showing by a contractor that he or she employs apprentices in a particular craft or trade in the state on all of his or her contracts on an annual average of not less than one hour of apprentice work for every five hours of labor performed by journeymen, the Chief of the Division of Apprenticeship Standards may grant a certificate exempting the contractor from the 1-to-5 hourly ratio, as set forth in this section for that craft or trade.

(k) An apprenticeship program has the discretion to grant to a participating contractor or contractor association a certificate, which shall be subject to the approval of the Administrator of Apprenticeship, exempting the contractor from the 1-to-5 ratio set forth in this section when it finds that any one of the following conditions is met: (1)

Unemployment for the previous three-month period in the area exceeds an average of 15 percent. (2) The number of apprentices in training in the area exceeds a ratio of 1 to 5. (3) There is a showing that the apprenticeable craft or trade is replacing at least one-thirtieth of its journeymen annually through apprenticeship training, either on a statewide basis or on a local basis. (4) Assignment of an apprentice to any work performed under a public works contract would create a condition that would jeopardize his or her life or the life, safety, or property of fellow employees or the public at large, or the specific task to which the apprentice is to be assigned is of a nature that training cannot be provided by a journeyman.

(l) When an exemption is granted pursuant to subdivision (k) to an organization that represents contractors in a specific trade from the 1-to-5 ratio on a local or statewide basis, the member contractors will not be required to submit individual applications for approval to local joint apprenticeship committees, if they are already covered by the local apprenticeship standards.

(m) (1) A contractor to whom a contract is awarded, who, in performing any of the work under the contract, employs journeymen or apprentices in any apprenticeable craft or trade shall contribute to the California Apprenticeship Council the same amount that the director determines is the prevailing amount of apprenticeship training contributions in the area of the public works site. A contractor may take as a credit for payments to the council any amounts paid by the contractor to an approved apprenticeship program that can supply apprentices to the site of the public works project. The contractor may add the amount of the contributions in computing his or her bid for the contract.

(2) At the conclusion of each fiscal year, the California Apprenticeship Council shall distribute training contributions received by the council under this subdivision, less the expenses of the Division of Apprenticeship Standards for administering this subdivision, by making grants to approved apprenticeship programs for the purpose of training apprentices. The funds shall be distributed as follows: (A) If there is an approved multiemployer apprenticeship program serving the same craft or trade and geographic area for which the training contributions were made to the council, a grant to that program shall be made. (B) If there are two or more approved multiemployer apprenticeship programs serving the same craft or trade and geographic area for which the training contributions were made to the council, the grant shall be divided among those programs based on the number of apprentices registered in each program. (C) All training contributions not distributed under subparagraphs (A) and (B) shall be used to defray the future expenses of administering this subdivision. (3) All training contributions received pursuant to this subdivision shall be deposited in the Apprenticeship Training Contribution Fund, which fund is hereby created in the State Treasury. Notwithstanding Section 13340 of the Government Code, all money in the Apprenticeship Training Contribution Fund is hereby continuously appropriated for the purpose of carrying out this subdivision and to pay the expenses of the division in administering this subdivision.

(n) The body awarding the contract shall cause to be inserted in the contract stipulations to effectuate this section. The stipulations shall fix the responsibility of compliance with this section for all apprenticeable occupations with the prime contractor.

(o) This section does not apply to contracts of general contractors or to contracts of specialty contractors not bidding for work through a general or prime contractor when the contracts of general contractors or those specialty contractors involve less than thirty thousand dollars (\$30,000).

(p) All decisions of an apprenticeship program under this section are subject to Section 3081.

1777.6. It shall be unlawful for an employer or a labor union to refuse to accept otherwise qualified employees as registered apprentices on any public works, on the ground of the race, religious creed, color, national origin, ancestry, sex, or age, except as provided in Section 3077, of such employee.

1777.7. (a) (1) A contractor or subcontractor that is determined by the Chief of the Division of Apprenticeship Standards to have knowingly violated Section 1777.5 shall forfeit as a civil penalty an amount not exceeding one hundred dollars (\$100) for each full calendar day of noncompliance. The amount of this penalty may be reduced by the Chief if the amount of the penalty would be disproportionate to the severity of the violation. A contractor or subcontractor that knowingly commits a second or subsequent violation of Section 1777.5 within a three-year period, where the noncompliance results in apprenticeship training not being provided as required by this chapter, shall forfeit as a civil penalty the sum of not more than three hundred dollars (\$300) for each full calendar day of noncompliance. Notwithstanding Section 1727, upon receipt of a determination that a civil penalty has been imposed by the Chief, the awarding body shall withhold the amount of the civil penalty from contract progress payments then due or to become due. (2) In lieu of the penalty provided for in this subdivision, the Chief may, for a first-time violation and with the concurrence of an apprenticeship program described in subdivision (d), order the contractor or subcontractor to provide apprentice employment equivalent to the work hours that would have been provided for apprentices during the period of noncompliance.

(b) In the event a contractor or subcontractor is determined by the Chief to have knowingly committed a serious violation of any provision of Section 1777.5, the Chief may also deny to the contractor or subcontractor, and to its responsible officers, the right to bid on or be awarded or perform work as a subcontractor on any public works Contract for a period of up to one year for the first violation and for a period of up to three years for a second or subsequent violation. Each period of debarment shall run from the date the determination of noncompliance by the Chief becomes a final order of the Administrator of Apprenticeship.

(c) (1) An affected contractor, subcontractor, or responsible officer may obtain a review of the determination of the Chief imposing the debarment or civil penalty by transmitting a written request to the office of the Administrator within 30 days after service of the determination of debarment or civil penalty. A copy of this report shall also be served on the Chief. If the Administrator does not receive a timely request for review of the determination of debarment or civil penalty made by the Chief, the order shall become the final order of the Administrator. (2) Within 20 days of the timely receipt of a request for review, the Chief shall provide the contractor, subcontractor, or responsible officer the opportunity to review any evidence the Chief may offer at the hearing. The Chief shall also promptly disclose any nonprivileged documents obtained after the 20-day time limit at a time set forth for exchange of evidence by the Administrator. (3) Within 90 days of the timely receipt of a request for review, a hearing shall be commenced before the

Administrator or an impartial hearing officer designated by the Administrator and possessing the qualifications of an administrative law judge pursuant to subdivision (b) of Section 11502 of the Government Code. The affected contractor, subcontractor, or responsible officer shall have the burden of providing evidence of compliance with Section 1777.5. (4) Within 45 days of the conclusion of the hearing, the Administrator shall issue a written decision affirming, modifying, or dismissing the determination of debarment or civil penalty. The decision shall contain a statement of the factual and legal basis for the decision and an order. This decision shall be served on all parties and the awarding body pursuant to Section 1013 of the Code of Civil Procedure by first-class mail at the last known address of the party that the party has filed with the Administrator. Within 15 days of issuance of the decision, the Administrator may reconsider or modify the decision to correct an error, except that a clerical error may be corrected at any time. (5) An affected contractor, subcontractor, or responsible officer who has timely requested review and obtained a decision under paragraph (4) may obtain review of the decision of the Administrator by filing a petition for a writ of mandate to the appropriate superior court pursuant to Section 1094.5 of the Code of Civil Procedure within 45 days after service of the final decision. If no timely petition for a writ of mandate is filed, the decision shall become the final order of the Administrator. The decision of the Administrator shall be affirmed unless the petitioner shows that the Administrator abused his or her discretion. If the petitioner claims that the findings are not supported by the evidence, abuse of discretion is established if the court determines that the findings are not supported by substantial evidence in light of the entire record. (6) The Chief may certify a copy of the final order of the Administrator and file it with the clerk of the superior court in any county in which the affected contractor or subcontractor has property or has or had a place of business. The clerk, immediately upon the filing, shall enter judgment for the state against the person assessed in the amount shown on the certified order. A judgment entered pursuant to this section shall bear the same rate of interest and shall have the same effect as other judgments and be given the same preference allowed by the law on other judgments rendered for claims for taxes. The clerk shall not charge for the service performed by him or her pursuant to this section. An awarding body that has withheld funds in response to a determination by the Chief imposing a penalty under this section shall, upon receipt of a certified copy of a final order of the Administrator, promptly transmit the withheld funds, up to the amount of the certified order, to the Administrator.

(d) If a subcontractor is found to have violated Section 1777.5, the prime contractor of the project is not liable for any penalties under subdivision (a), unless the prime contractor had knowledge of the subcontractor's failure to comply with the provisions of Section 1777.5 or unless the prime contractor fails to comply with any of the following requirements: (1) The contract executed between the contractor and the subcontractor or the performance of work on the public works project shall include a copy of the provisions of Sections 1771, 1775, 1776, 1777.5, 1813, and 1815.

(2) The contractor shall continually monitor a subcontractor's use of apprentices required to be employed on the public works project pursuant to subdivision (d) of Section 1777.5, including, but not limited to, periodic review of the certified payroll of the subcontractor.

(3) Upon becoming aware of a failure of the subcontractor to employ the required number of apprentices, the contractor shall take corrective action, including, but not limited to, retaining funds due the subcontractor for work performed on the public works project until the failure is corrected. (4) Prior to making the final payment to the subcontractor for work performed on the public works project, the contractor shall obtain a declaration signed under penalty of perjury from the subcontractor that the subcontractor has employed the required number of apprentices on the public works project.

(e) Any funds withheld by the awarding body pursuant to this section shall be deposited in the General Fund if the awarding body is a state entity, or in the equivalent fund of an awarding body if the awarding body is an entity other than the state.

(f) The Chief shall consider, in setting the amount of a monetary penalty, in determining whether a violation is serious, and in determining whether and for how long a party should be debarred for violating this section, all of the following circumstances: (1) Whether the violation was intentional. (2) Whether the party has committed other violations of Section 1777.5. (3) Whether, upon notice of the violation, the party took steps to voluntarily remedy the violation. (4) Whether, and to what extent, the violation resulted in lost training opportunities for apprentices. (5) Whether, and to what extent, the violation otherwise harmed apprentices or apprenticeship programs. If a party seeks review of a decision by the Chief to impose a monetary penalty or period of debarment, the Administrator shall decide de novo the appropriate penalty, by considering the same factors set forth above.

(g) The interpretation of Section 1777.5 and this section shall be in accordance with the regulations of the California Apprenticeship Council. The Administrator may adopt regulations to establish guidelines for the imposition of monetary penalties and periods of debarment and may designate precedential decisions under Section 11425.60 of the Government Code.

NOTE: THE ABOVE CALIFORNIA LABOR CODE SECTIONS ARE AVAILABLE FROM THE INTERNET @ www.dir.ca.gov/.

DAS 10 (Rev. 04-02)

SPECIAL PROVISIONS

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	
	<input type="checkbox"/> Exempt payee	
	Address (number, street, and apt. or suite no.)	Requestor's name and address (optional)
City, state, and ZIP code		
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number											
				-			-				
Employer identification number											
				-							

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here	Signature of U.S. person ▶	Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

2013 Withholding Exemption Certificate**590**

This form can only be used to certify exemption from nonresident withholding under California Revenue and Taxation Code (R&TC) Section 18662. Do not use this form for exemption from wage withholding.

File this form with your withholding agent. (Please type or print)

Withholding agent's name _____

Payee's name _____		Payee's <input type="checkbox"/> SSN or ITIN <input type="checkbox"/> FEIN <input type="checkbox"/> CA corp. no. <input type="checkbox"/> CA SOS file no.	
Address (number and street, PO Box, or PMB no.) _____			Apt. no./ Ste. no. _____
City _____		State _____	ZIP Code _____

Read the following carefully and check the box that applies to the payee.

I certify that for the reasons checked below, the payee named on this form is exempt from the California income tax withholding requirement on payment(s) made to the entity or individual.

- Individuals — Certification of Residency:**
I am a resident of California and I reside at the address shown above. If I become a nonresident at any time, I will promptly notify the withholding agent. See instructions for General Information D, Who is a Resident, for the definition of a resident.
- Corporations:**
The above-named corporation has a permanent place of business in California at the address shown above or is qualified through the California Secretary of State (SOS) to do business in California. The corporation will file a California tax return and withhold on payments of California source income to nonresidents when required. If this corporation ceases to have a permanent place of business in California or ceases to do any of the above, I will promptly notify the withholding agent. See instructions for General Information F, What is a Permanent Place of Business, for the definition of permanent place of business.
- Partnerships or limited liability companies (LLC):**
The above-named partnership or LLC has a permanent place of business in California at the address shown above or is registered with the California SOS, and is subject to the laws of California. The partnership or LLC will file a California tax return and will withhold on foreign and domestic nonresident partners or members when required. If the partnership or LLC ceases to do any of the above, I will promptly inform the withholding agent. For withholding purposes, a limited liability partnership (LLP) is treated like any other partnership.
- Tax-Exempt Entities:**
The above-named entity is exempt from tax under California Revenue and Taxation Code (R&TC) Section 23701 _____ (insert letter) or Internal Revenue Code Section 501(c) _____ (insert number). The tax-exempt entity will withhold on payments of California source income to nonresidents when required. If this entity ceases to be exempt from tax, I will promptly notify the withholding agent. Individuals cannot be tax-exempt entities.
- Insurance Companies, Individual Retirement Arrangements (IRAs), or Qualified Pension/Profit Sharing Plans:**
The above-named entity is an insurance company, IRA, or a federally qualified pension or profit-sharing plan.
- California Trusts:**
At least one trustee and one noncontingent beneficiary of the above-named trust is a California resident. The trust will file a California fiduciary tax return and will withhold on foreign and domestic nonresident beneficiaries when required. If the trustee becomes a nonresident at any time, I will promptly notify the withholding agent.
- Estates — Certification of Residency of Deceased Person:**
I am the executor of the above-named person's estate. The decedent was a California resident at the time of death. The estate will file a California fiduciary tax return and will withhold on foreign and domestic nonresident beneficiaries when required.
- Nonmilitary Spouse of a Military Servicemember:**
I am a nonmilitary spouse of a military servicemember and I meet the Military Spouse Residency Relief Act (MSRRA) requirements. See instructions for General Information E, MSRRA.

CERTIFICATE: Please complete and sign below.

Under penalties of perjury, I hereby certify that the information provided in this document is, to the best of my knowledge, true and correct. If conditions change, I will promptly notify the withholding agent.

Payee's name and title (type or print) _____ Daytime telephone no. _____

Payee's signature ► _____ Date _____

**SPECIAL PROVISIONS FOR
EAST SACRAMENTO
WATER MAIN REPLACEMENT PROJECT
PHASE 1
(PN: Z14010061)**

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APPENDIX

Appendix A: Water Book Pages, & Location Description Examples

Appendix B: Notification Letters

Appendix C: Traffic Alert Form

SECTION 1. GENERAL CONSTRUCTION REQUIREMENTS

1.01 Scope of Work

The work to be performed under these Special Provisions consists of furnishing and placing 6-inch, 8-inch, and 12-inch diameter water mains. Also included is furnishing and installing fittings, valves, fire hydrants, other appurtenances, water services, meter setters, meter boxes, meter lids, and meters at various commercial and residential properties within designated areas of the City of Sacramento as indicated on the plans, and connecting to the existing distribution system as indicated on the Plans. This contract also covers connecting city water services to existing residential water services, removing existing fire hydrants and abandoning existing mains as shown on the Plans and in these Special Provisions.

The Contractor shall provide all labor, materials, tools, and equipment to complete in place all work necessary to furnish, install, remove, abandon, pressure test, disinfect, and connect the water pipe, appurtenances as shown in the Plans and as specified in these Special Provisions. The work shall be so performed that upon contract completion the project shall be ready for use as described in these Special Provisions.

1.02 Specifications

The work to be performed under this contract shall be done in accordance with the Special Provisions contained herein. In these Special Provisions, reference is made to the Standard Specifications of the City of Sacramento, adopted June 2007, referred to herein as "City Standard Specifications". Reference may also be made to the State of California, Department of Transportation, Standard Specifications referred herein as "State Standard Specifications".

The general requirements of this contract shall be governed by these Special Provisions first, followed by Sections 1 through 8 of the City Standard Specifications. Other Standards or Specifications specified in these Special Provisions govern only the applicable technical specifications.

1.03 Interpretation of Contract Documents

Questions from bidder's concerning the interpretation of any portion of the contract documents may be directed to Rosa Millino of the City of Sacramento, Department of Utilities, 1395 35th Ave, Sacramento, California, 95822, phone (916) 808-1451.

Interpretation, where necessary, will be made by the City in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practicable to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract.

It shall also be the bidder's responsibility to call to the attention of the Engineer any missing pages or drawings in the contract documents, including the addenda. These items shall be brought to the attention of the Engineer at least one (1) week prior to the bid opening date.

1.04 Governing Documents

- 1) All work performed under this contract shall be in accordance with the following general requirements:
 - a) Sealed Proposal
 - b) Agreement
 - c) City Standard Specifications - Sections 1 through 8

- 2) All work performed under this contract shall be in accordance with the following provisions:
 - a) Special Provisions
 - b) Contract Plans
 - c) City Standard Specifications - Sections 10 through 38
 - d) California Labor Code - Chapter 4 of Division 3

In the event of a conflict in the Contract Documents, the governing priorities, when appropriate, shall be in accordance with section 5-3 of the City Standard Specifications.

1.05 Shop Drawings and Submittals

The Contractor's shop drawings and submittals shall include, but not be limited to, the following:

1. Construction Activity Time Schedule
2. Traffic Control Plan
3. Water Distribution Pipe
4. Gate Valves and Fittings
5. Fire Hydrant Assemblies
6. City and Residential Water Service Materials
7. Meters (including registers)
8. Public Notification Information
9. Phasing Plan
10. Meter boxes and lids

11. Erosion, Sediment, and Pollution Control Plan
12. Street Resurfacing Material
13. Blow-off Material

The Contractor shall keep one copy of the approved Traffic Control Plan and the Water Quality Control Plan at the construction site at all times.

To achieve standardization of appearance, maintenance, and replacement, like items of materials provided under these Special Provisions shall be the end product of one manufacturer.

Contractor shall comply with shop drawings and submittal and procedures in accordance with Section 5-7 of the City Standard Specifications.

1.06 Project Signs

Prior to beginning any onsite work the contractor shall install a total of 5 project signs. The signs shall be supplied by the City and are approximately 30 inches by 54 inches. Signs will be installed in the following locations or as directed by the Engineer:

- C St and 39th St
- McKinley Blvd and 39th St
- B St and 43rd St
- Elvas Ave and 43rd St
- C St and Elvas Ave

Height of sign installation shall be as directed by the Engineer. In general, the signs shall be affixed to a 4"x4" post and installed a minimum of 7 feet and maximum of 10 feet above surrounding grade. If acceptable to the Engineer an existing sign post may be used, otherwise, the Contractor shall be required to install a new post. The sign and post installed by the Contractor shall be removed at the end of the project and the sign returned to the City.

1.07 Manufacturer's Instructions

Contractor shall provide and comply with manufacturer's installation instructions and procedures in accordance with Section 5-16 of the City Standard Specifications.

1.08 Equipment to be Supplied

All equipment, material and supplies called for on the Plans and Specifications shall be new and currently manufactured items, unless otherwise specified.

All equipment shall be complete and in operation to the satisfaction of the Engineer at the time of acceptance of the work.

1.09 Proof of Compliance with Contract

In order that the Engineer may determine whether the Contractor has complied with the requirements of the contract documents not readily determinable through inspection and tests of plant, equipment, work, or materials, the Contractor shall at any time when requested, at the Contractor's expense, submit to the Engineer properly authenticated documents or other satisfactory proofs as to his compliance with such requirements.

1.10 Construction Activity Time Schedule

The Contractor shall submit a detailed schedule in accordance with Section 7-2 of the Standard Specifications. No progress payments will be made for work completed prior to acceptance of the schedule.

The activity time schedule shall indicate the chronological sequence in which the Contractor proposes to carry out each aspect of the work, the calendar dates on which the Contractor will begin the several salient elements of the work (procurement and delivery of materials, posting of "No Parking" signs, notification of property owners, scheduling of equipment, excavation of trenches, placement of pipe, etc), and the contemplated dates for completing said salient elements.

The Contractor shall contact the Engineer at least forty-eight (48) hours in advance of any change in the work schedule. If the Contractor desires to make a major change in his method or operations after commencing construction, or if the activity time schedule fails to reflect the actual progress of the work, the Contractor shall submit a revised schedule to the Engineer in advance of beginning revised operations.

At the very minimum, the Contractor shall update the construction activity time schedule every thirty (30) calendar days throughout the duration of the project.

1.11 Weekly Updates

Every Monday the Contractor shall submit an address list of all residential water service installed and/or connected the prior week and a list of addresses scheduled for installation in the upcoming week.

To allow the Engineer the opportunity to determine or adjust the new service diameter and location, the Contractor shall include potholing information in the weekly update. This shall include the address, existing service location and the existing diameter of both City and Residential Service lines. This potholing information shall be on file with the engineer five (5) working days prior to scheduling and/or installing the new service.

1.12 Same Superintendent and Work Crew Required

In addition to Contractor's obligations to utilize competent and skilled workers and to remove unsatisfactory workers as specified in Section 7-6 of the Standard Specifications, Contractor shall maintain the same Superintendent and work crew on the job site throughout performance of the Contract, and Contractor shall not change Contractor's Superintendent and/or work crew prior to completion of the Work unless approved in writing by the Engineer prior to such change; provided that the Engineer's approval shall not be required for Contractor to replace employees terminated by Contractor.

1.13 Water Quality Control

Water Quality Control measures shall be at a minimum in accordance with Section 16 of the City Standard Specifications. The Contractor shall prepare and submit a site specific erosion, sediment and pollution control plan (ESC Plan) that identifies all construction activities that could impact water quality and provide all the necessary mitigation BMP measures that will eliminate the discharge of any pollutants to the city's drainage system or waterways. The ESC Plan shall be submitted a minimum of 48 hours prior to start of the work. The Contractor shall not begin work until an accepted ESC Plan is on file with the Engineer.

1.14 Record Drawings

The Contractor shall maintain a neatly and accurately marked set of record drawings in accordance with Section 5-8 of the City Standard Specifications.

The record drawings shall include any deviations to the plans, including but not limited to, locations for gate valves, fire hydrants, blow-offs, meter setters placed, service material type, etc. Location description examples of the information the Contractor shall compile can be found in Appendix A.

1.15 Definitions

For definitions not found herein refer to Section 1 of the City Standard Specifications.

“Provide” shall mean furnish and install in accordance to the Plans and Specifications.

“Hybrid Water Service” shall consist of a 1-inch City Service (including meter setter assembly) followed by 1 ½-inch diameter Residential Water Service materials.

“Residential Water Service” or “Residential Water System” shall mean the water service pipe and appurtenances from the property owner’s side of the curb stop (or meter setter) to and including all points of connection at the house.

“Retrofit” shall mean intercepting existing Water Service Laterals, and placing metering appurtenances and a water meter box and meter in accordance with the Plans and Specifications.

“Water Distribution Personnel” shall mean an appointed representative from the Department of Utilities.

“Water Service Lateral” or “City Service” shall mean the water service pipe placed from the water main up to and including the curb stop (or meter setter).

1.16 Project Closeout

The issuance of a punch list, final acceptance of the work, and the final payment shall be in accordance with Section 8-4 of the City Standard Specifications.

When the contractor notifies the Engineer that the project has been completed the Engineer shall perform a walk through and develop a list of deficient work items. After the contractor completes correction of the deficiencies to the satisfaction of the Engineer, a final walk through will be scheduled with the City Operation and Maintenance personnel. At the final walk through a punch list will be developed and submitted to the Contractor. The Contractor shall notify the Engineer when punch list items have been completed. The Engineer will then inspect the punch list work. If the work is completed to the satisfaction of the Engineer, and if as-built drawings are completed and submitted, a completion report will be prepared.

As part of the as-built drawings, a Construction Information Table is included on the Plans. Contractor shall fill out and sign the table after project completion.

1.17 Permanent Survey Monuments

Contractor is responsible for verifying that the arrangements have been made for preserving and/or perpetuating all permanent survey monuments that will be affected by the work in accordance with Section 5-6 of the City Standard Specifications.

1.18 City Ordinance Related to Construction Work

The City has adopted an ordinance amending Chapter 12.20 of the City Code that establishes additional minimum requirements and restrictions relating to construction activities within the City limits and establishes administrative penalties associated with non-compliance of these requirements. The ordinance includes the following general categories:

- A. Working hours for the City's "Primary Streets"
- B. Traffic control plan requirements
- C. Access to private property
- D. Maintenance of construction areas
- E. Repair of traffic control systems
- F. Care of existing known facilities
- G. Public notification
- H. Noise levels
- I. Administrative Penalties

Copies of the ordinance are available from the City Clerk's Office, 915 I Street, Sacramento, CA 95814.

1.19 Order of Work

Construction work at the Theodore Judah Elementary School shall take place during the school summer break, June 13th thru September 6th 2013. The Contractor shall schedule and coordinate all required work at the Theodore Judah Elementary School property, or within 500 feet from the school with Sacramento City Unified School District staff Ed Petralli, at 916-752-3027.

1.20 Daily Coordination Required

In addition to the responsibilities of the Contractor and the Contractor's Superintendent as detailed in Section 5-4 of the Standard Specifications, the Contractor's Superintendent or other Contractor representative approved by City shall meet with City's representative(s) at the job site each working day, once each morning and once each afternoon, for a total of approximately one hour per working day. The purpose of such required meetings shall be to maintain close coordination

between the Contractor and City throughout performance of the Contract, and the matters to be addressed at such meetings shall include, but are not limited to the following: reviewing the current working day's projected work schedule, updating the City representative on the current working day's completed work, communicating regarding customer notification, placement of meter boxes, type of meter box to place at each property identified on the daily work schedule, valve placements and abandonments, identifying concrete work scheduled for the next working day, quantities of completed services placed each day, pay estimates, job walks as required by the City representative to identify anomalies, and reviewing USA markings.

1.21 Lead Free Water Works Pipe and Fittings

Notwithstanding any other provision of the Contract Documents, all materials installed shall comply with the requirements of Section 116875 of the California Health & Safety Code.

1.22 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 2. PUBLIC CONVENIENCE & PROTECTION OF EXISTING IMPROVEMENTS

2.01 Public Right-of-Way and Easements

All water, sewer and drainage mains constructed as part of this project are to be placed within Public Street and alley rights-of-way. The Contractor shall confine his or her operations within the limits of existing street right-of-way or easements as much as practicable.

This project encroaches onto private property. As a condition of receiving or continuing to receive city water service, private property owners are required, per City Code 13.04.065, to provide access to the premises for the purpose of this project. Should the owner of a property within the project limits refuse to allow such access, the Contractor shall notify the City, who shall attempt to gain proper authorization for access.

If the Contractor finds it necessary to encroach onto private property outside the limits of the project, the Contractor shall make all necessary arrangements with the owner of the property for such encroachment. A copy of any written agreements entered into between the Contractor and the property owner concerning encroachment onto private property shall be provided to the Engineer prior to beginning any work on the property described in the agreement.

2.02 Existing Utilities

The location, alignment, and depth of existing underground utilities as shown on the Plans are taken from public records and no responsibility is assumed for the accuracy thereof. For the most part, underground utility services are not shown on the Plans.

Attention is directed to the provisions in Section 6-19 of the Standard Specifications.

The Contractor will insure that utility services to customers in the project are maintained.

The Contractor is responsible for the protection of and for damage to existing overhead and underground utility lines and services encountered during the course of construction. The Contractor shall notify the respective utility owner prior to any interruption of service.

The Contractor is expected to "pothole" existing underground utilities a minimum of ten (10) working days in advance at any location where an existing utility may be in conflict with the proposed work.

The cost of relocating existing overhead or underground utilities not specified on plans to be relocated, but which the Contractor elects to relocate or cut and reconnect for his/her own convenience, shall be borne by the Contractor.

2.03 Maintaining Water, Sewer, and Drainage Flows

The Contractor shall be responsible for maintaining water, sewer, and drainage flows including emergency repairs and temporary bypasses in accordance with Section 13-2 of the City Standard Specifications.

In addition to Section 13-2 provisions, any landscaping irrigation water lines cut or broken by the Contractor, but not immediately repaired, shall be capped until repairs can be made. The Contractor shall make repairs within 2 working days of having cut or broken such irrigation lines unless otherwise approved by the Engineer. In the interim, the Contractor shall be responsible for ensuring all locations served by the irrigation lines continue to be provided adequate water. Any landscaping that dies, or fails to recover as a result of the Contractor's actions shall be replaced in kind.

2.04 Maintaining Existing Electrical Facilities

Maintaining existing electrical facilities shall be in accordance with Section 34-7 of the City Standard Specifications and these Special Provisions.

The Contractor shall ascertain the exact location and depth of existing electrical facilities before any electrical work begins. Any damage done to existing electrical facilities that is caused by the Contractor shall be repaired immediately and at the Contractor's expense. The Contractor shall trench under all existing traffic signal and street lighting conduits.

Temporary shutdowns of traffic signals shall be in accordance with Section 34-7 of the City Standard Specifications.

2.05 Work Performed by City Crews

The Contractor is advised that the City retains the option of performing with City crews, all or a portion of any work involved in relocation, repairing, or otherwise restoring existing sewer, water, and drainage systems and services to developed properties within the limits of the project that may be in conflict with the proposed

project improvements. Any such work performed by City forces will be at the discretion and convenience of the City.

Should the Contractor desire City forces to cut and repair existing water, sewer, or drain services, the Contractor shall contact the Engineer at least three (3) working days in advance to schedule and coordinate the work.

All work performed and materials provided by the City will be paid for by the Contractor or removed from this contract at no additional cost to the City in accordance with Section 4-5 of the City Standard Specifications.

2.06 Maintenance of Traffic and Public Safety

The Contractor's attention is directed to Sections 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 7-4, and 16-3 of the City Standard Specifications.

Spillage shall be removed immediately in accordance with Section 6-6 of the City Standard Specifications.

Water or dust palliative shall be applied in accordance with Section 6-6 of the City Standard Specifications.

Contractor shall not interfere with or impair any railroad operations in accordance with Section 6-6 of the City Standard Specifications.

The Contractor shall be required to establish traffic scheduling and control measures acceptable to the Engineer prior to starting any work. The Contractor shall submit to the Engineer for review and approval a plan in accordance with Section 6-10 of the City Standard Specifications. This plan shall be submitted a minimum of ten (10) working days prior to the scheduled commencement of any work by the Contractor. **The Contractor will not be allowed to begin work until an approved plan is on file with the Engineer.**

The Contractor shall notify Norm Colby, via the Engineer, at the Traffic Signal Maintenance Shop, (916) 808-6635, ten (10) working days before any electrical work begins.

The Contractor's traffic control plan shall provide for the following:

1. The Contractor shall provide access to all driveways or alleys at all times except when excavation is in progress, when forms are in place, or when concrete or asphalt is being placed. The Contractor shall take precautions so as not to entrap vehicles on private property during the progress of the work.

Driveways may be closed only during normal working hours and only after giving property owners a minimum of twenty-four (24) hours written notice in advance of the closure.

2. Rear access to building and existing parking areas behind buildings shall be maintained. Contractor may close such access for a limited time only if arrangements have been made with property owners. Contractor shall give property owners forty-eight (48) written hours notice in advance of the closure.
3. Vehicle and pedestrian access to driveways, houses, and commercial businesses along the streets, alleys, and easements within the limits of the project shall be maintained. Access for emergency vehicles shall be available along all streets within the construction area at all times.
4. The entire roadway width of all streets within the limits of the project shall be kept open for traffic at night, during weekends, on holidays, and during other time periods when work is not in progress. Steel plates or other approved methods shall be used to cover all open excavations in roadways during non-working hours.
5. For work done before 7:00 A.M. or after 6:00 P.M., or during all daylight hours between 6:00 P.M. Friday to 7:00 A.M. Monday, arrangements shall be made with the property owners in advance and approved by the Engineer.
6. City working hours are defined to be between 7am and 6pm, Monday through Friday, excluding Legal holidays unless otherwise defined in these Special Provisions. Working hours in Elvas Ave, C Street and McKinley Blvd shall be 8:30am to 4pm.

The Contractor is also alerted that Regional Transit has bus routes within this project area. The Contractor is required to coordinate with Regional Transit for any street closures or bus service that may be disrupted during the course of construction.

Contractor shall perform the following notification procedures prior to closing a street/alley to through traffic:

1. Police Department - Provide the Police Communications Center with the street/alley closure limits and estimated duration of closure, by calling 264-5025 and faxing the information to 264-7770 one (1) working day prior to the closure.
2. Fire Department - Provide the Fire Communications Center with the street/alley closure limits and estimated duration of closure, by calling 228-3035 and faxing the this information to 228-3075 one (1) working day prior to the closure.

3. Solid Waste Division - Provide the street/alley closure limits and estimated duration of closure, by calling 808-4952 and faxing the information to 808-1494 five (5) working days prior to the street closure.
4. On Street Parking Division - Provide the street/alley closure limits and estimated duration of closure, by calling 808-5874 and faxing the information to 808-7501 five (5) working days prior to the street closure.
5. Regional Transit - Provide the street/alley closure limits and estimated duration of closure, by calling Lynn Cain at 321-5375 and faxing the information to 557-4541 five (5) working days prior to the street closure.

The information faxed to the above shall include:

- Name of Project
- Project Number
- Contractor Name and phone number
- City Inspector Name and phone number
- Department of Utilities Project
- Name and Limits of Street being closed
- Duration of closure

A copy of the fax receipt shall be given to the project inspector.

2.07 Protection of Existing Improvements

The Contractor shall be responsible for repairing damage to existing improvements, utilities, and adjacent property in accordance with Section 13-1 of the City Standard Specifications.

The Contractor shall operate irrigation systems, identify existing damage, and report findings to the Engineer prior to beginning construction at each residence. The Contractor shall replace irrigation features to match pre-construction conditions. Any removed or damaged landscaping features shall be relocated or replaced to match pre-construction conditions at no additional cost to the City.

2.08 Storage of Equipment or Materials and Stockpiling Limits

Materials and equipment shall be stored in accordance with Section 5-15 of the City Standard Specifications.

Materials and equipment for the project shall be stockpiled within the current construction phase only, and shall not be stockpiled within the public street right-of-way in excess of an amount representing a ten (10) day supply at current rates of

pipe laying or water service construction. Equipment and materials shall not front any single address in excess of ten (10) days unless otherwise accepted by the Engineer.

Stockpiles within the public right-of-way shall be no higher than 6 ft in height, and shall not impede traffic, nor access to residences.

Should stockpiling of materials within the public right-of-way prove to be a nuisance to the adjacent residents, the materials and/or equipment shall be moved within two (2) working days following direction by the Engineer.

2.09 Notification to Property Owners

The Contractor shall be responsible for notifying all residents for the following situations:

- Notify seven days prior to commencing any work on public streets
- Notify seven days prior to commencing any work on private property
- Notify 24 hours prior to commencing work on private property
- Notify 24 hours prior to a water service shutdown on private property
- In the event the Contractor returns to the property for additional work, the seven working day and twenty four hour notification process shall be repeated

Notifications shall include the Contractors name, a contact person and phone number, a brief summary of the work, and the estimated duration of the work. Notifications shall be as shown in Appendix B.

For properties receiving a meter box in a non-traffic location, or driveway, the Contractor shall also be responsible for marking proposed water service and meter box locations and notifying these property owners of the proposed location two days prior to placement. Where meter boxes are to be placed within a sidewalk, no additional notification is necessary.

2.10 Removal of On-Street Parking

The Contractor's operations may require the prohibition of on-street parking of vehicles along all or a portion of the length of the project for a limited period of time. In such instances, the removal of on-street vehicle parking shall be in accordance with Section 6-18 of the City Standard Specifications.

2.11 Dust Control

The Contractor shall be responsible for the control of dust within the limits of the project at all times in accordance with Section 16-2 of the City Standard Specifications.

The Contractor shall keep all streets and alleys as well as all grounds adjacent to the project site clean and free of dust, mud, and debris resulting from the Contractor's operations in accordance with Section 16-3 of the City Standard Specifications.

Spillage of earth, gravel, concrete, asphalt, or other materials resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor in accordance with Section 16-3 and section 6-2 of the City Standard Specifications.

2.12 Phasing of Construction

The Contractor shall be required to produce and submit a phasing plan that is acceptable to the Engineer prior to starting any work. This plan shall illustrate the streets and properties impacted during each phase of construction, as well as the sequence of phases. This plan shall be submitted and approved a minimum of ten (10) calendar days prior to the scheduled commencement of any work by the Contractor.

The plan shall limit the number of phases to no less than three (3) with each separate phase of generally equal size in regard to quantity of new services and linear footage of new distribution main placed.

The Contractor shall construct the new distribution system and services in the phased manner identified in the phasing plan. All changes to the implementation of the phasing plan must be approved in writing by the engineer.

Each phase shall be completed prior to beginning construction of the next phase, and shall include fully tested and operational new water mains, completed services, final paving, and other required surface restoration, and all other items within these Special Provisions that fall within each phased area. The sole exception includes the abandonment of existing mains, hydrants, and valves.

2.13 Potholes and Excavations on Private Property

Unless otherwise approved by the Engineer, all potholes and/or excavations on private property shall be backfilled with native material on a daily basis. Sand may be substituted for native material where Meter box is to be located. Use of plates or plywood as temporary cover prior to meter box placement is not allowed.

2.14 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 3. WATER CONSTRUCTION REQUIREMENTS

3.01 AWWA Standards - Water Mains

These Special Provisions contain reference to certain standards of the American Water Works Association (AWWA). Copies of these standards are available for reference at the City of Sacramento, Department of Utilities, Engineering Services Division located at 1395 35th Ave in Sacramento.

IN SUBMITTING A BID, THE CONTRACTOR CERTIFIES THAT HE/SHE IS FAMILIAR WITH FIELD HANDLING, INSTALLATION, INSPECTION, DISINFECTION, PRESSURE TESTING AND ALL OTHER REQUIREMENTS CONTAINED IN THE AWWA STANDARDS.

3.02 Opening Direction of Valves and Fire Hydrants

The opening direction of valves and fire hydrants shall be in accordance with Section 27-7 of the City Standard Specifications.

3.03 Trench Excavation and Backfill

Trench excavation and backfill shall conform to the construction Plans and the provisions of Section 27-3 and 27-8 of the City Standard Specifications.

3.04 Pavement Cutting and Surface Restoration

Surface cutting and restoration shall conform to the following:

Type of material to cut and restore	City Standard Specification
Asphaltic pavement restoration material	Section 22 & 27
Curb, gutter and sidewalk cutting and restoration	Section 24 & 27
Concrete pavement (Alleys and Vee gutters) cutting and restoration	Section 19 & 27

All materials shall conform to Section 10 of the City Standard Specifications.

Existing pavement to be removed shall be ground or saw cut full depth to provide a neat straight pavement break along both sides of the pipe trench. A "T" trench as shown on Standard Drawing W-701 is required. The minimum pavement section within public street right-of-way shall be four (4") inches of asphalt concrete over twelve (12") inches of Class 2 aggregate base.

The Contractor, at his/her option, may perform the pavement saw cutting operation after the pipe installation operation, just prior to pavement repair. No pavement cutting shall precede trenching by more than five calendar days except when saw cutting is used. Where the initial pavement cut is not performed by saw cutting and takes place more than one calendar day before trench excavation, the Contractor shall fill the pavement cuts with asphalt concrete patching mix and maintain a smooth riding surface until trenching begins.

Upon completion of trench backfill, existing pavement as well as any curbs, gutters, sidewalks, driveways, or other improvements that have been cut or damaged as a result of the construction activities shall be replaced. The replacement of pavement, curb, gutter or other improvements shall match that of the original as close as practical unless otherwise indicated on the Plans or in these Special Provisions. Segments of saw cut pavement which were damaged during construction shall be re-saw cut to a neat straight line.

The Contractor shall repair disturbed lawn areas by carefully and evenly cutting the lawn to preserve the sod until the trench excavated for the water service lateral or residential water service is backfilled and compacted. Any existing lawn removed during excavation shall be replaced with sod to match preconstruction conditions. The removed sod may be replaced over the backfilled trench provided the sod is in an acceptable condition for re-use as determined by the Engineer. Sod unsuitable for re-use shall be replaced with new sod to match preconstruction conditions.

All fences or shrubbery in the way of construction shall be removed and replaced. The Contractor may re-use the existing fence material provided the Engineer approves the material, prior to installation. If the Engineer does not approve the re-use of the material, the Contractor shall replace with new material. Any private property or any existing improvements damaged by the construction operations shall be replaced with new materials at no additional cost.

Masonry work damaged as a result of the construction shall be repaired by an experienced brick mason to match existing improvements. Existing bricks shall be salvaged and reused to preserve the integrity of the improvement.

Driveways consisting of exposed aggregate concrete or flat concrete shall be replaced by an experienced concrete finisher to match existing improvements.

3.05 Disinfection and Pressure Testing of Water Mains

Disinfection and pressure testing of water mains, related valves and fittings, as well as flushing of the water main, shall conform to Sections 27-12 and 27-13 of the City Standard Specifications. All pressure and disinfection testing shall be made in the presence of the Engineer.

3.06 Distribution System Shutdowns for Water Main Installation & Connections

After successful completion of hydrostatic pressure testing and disinfection, the Contractor shall connect the new water mains to the existing water system at the locations indicated on the Plans. Connections to existing water mains shall be made in accordance with Section 27-14 of the City Standard Specifications.

To coordinate and schedule a water main shutdown, Contractor shall provide the Engineer with a project schedule that includes date and location for all required project shutdowns as described in "Construction Activity Time Schedule" of these Specifications. The contractor must provide the inspector updates of this schedule including the shutdown activities before 3:00 PM on the Monday that falls a minimum of 11 days before the shutdown is required. If these coordination requirements are not performed, the City cannot provide the shutdown.

The Contractor shall expose the existing water main at tie-in locations 24 hours prior to a tie-in and have all materials and equipment necessary for the connection work at the job site prior to beginning the shutdown.

The City will not conduct a shutdown until the Contractor is capable of completing the work within a 4 hour period.

Without exception, all opening and closing of the valves on existing water mains will be performed by City crews only.

Where indicated in the Plans, the Contractor shall cut existing pipe, remove existing plugs or bulkheads, clean pipe ends, prepare connections and make the new connection to existing water mains. The Contractor shall temporarily cap existing mains as necessary and as approved by the Engineer to maintain service to City customers.

Water released from cutting or opening existing mains shall be removed and disposed of by the Contractor. The excavation shall be kept dry until all necessary work within the work area has been performed.

3.07 Water Shutdowns for Residential Water Service Tie-Ins

All residential water service shutdowns shall be approved by the Engineer. Residential water service shutdowns for water service connections will be approved once complete preparation, satisfactory to the Engineer, is made to minimize the length of time for any residential water service shutdown.

Maximum time of interruption of water service to any residence or business shall be four (4) hours.

3.08 Plugged Fixtures

The Contractor shall be responsible for removing all sediment that builds up at faucets, sprinklers, and clogs interior house plumbing as a result of installing and connecting residential water services.

The Contractor shall open all exterior faucets and shall attempt to have the homeowner open all interior faucets in order to help prevent fixtures from plugging.

3.09 Construction of Residential Water Services

All residential water services shall be, at a minimum, one and a half (1-1/2") inch diameter copper pipe from the new 1-inch meter to the above ground tee at the hose bib connection.

When adequate volume is not provided to all points on the property by a hose bib connection at the front or side of the house, 1-1/2 inch Schedule 40 PVC pipe shall be installed and connected to the back half of the property. Alignment and connection point shall be at the approval of the Engineer. Materials and placement shall meet the applicable requirements of the City Standard Specifications and these Special Provisions.

Installation and connection of residential water services shall be performed in accordance with the applicable sections of the latest revised Uniform Plumbing Code (hereinafter called UPC). No connections shall be made until installation and testing of the distribution system and water service laterals are complete. All underground work shall be inspected prior to backfilling.

An address list of residential water services covered under this contract may be found on the plans. This list provides the Contractor with information the City has for many of the existing residential water services covered under this contract. The information given on this list is historical information, and is partially complete. The City makes no guarantee as to the accuracy of this record. **It is the Contractor's responsibility to locate the existing water service laterals and curb or corporation stops for abandonment purposes.**

Proposed service hookup locations may require adjustment due to residential plumbing and irrigation systems. The Contractor shall work with the Engineer in finding a suitable hookup location.

In determining the suitable hookup location, the following guidelines shall be considered; however, the final decision shall be determined by the Engineer:

- When there is a 3/4-inch water pipe located in the front or the side of a property, hookup location shall be determined by the Engineer.
- When there is not a 3/4-inch water pipe located either in the front or the side of a property but there is a 3/4-inch pipe located in the back of the property, the Contractor shall connect the residential service pipe to the back hose bib.
- If there is more than one 3/4-inch pipe in the back, the Contractor shall utilize the connection closest to the building and least distance to the meter box, taking a path around, not under, the house.
- For homes with an existing service connection to the back of the property, and an existing service of 1 1/4-inch or greater, or if the irrigation system is connected prior to connection to the home, and pipe connections at the front of the property are less than 1 2-inch, the Contractor shall connect residential service to the back hose bib.

Residential water services shall be placed using directional bore or by open cut trench. Pipe alignment shall not pass under any dwelling or structure. In the event that work occurs beyond the City right-of-way, directional bore shall be utilized unless approved by the engineer.

Typical residential water service hookup details can be found on the Plans. Not all residential water service hookups will match the typical details. No separate payment will be made to the Contractor for hookups installed that vary from the typical details. The Contractor is encouraged to visit the project site to better acquaint him/herself with each residential water service hookup.

All work relating to connecting residential water services and abandoning existing water services at each residence shall be completed within four (4) hours.

3.10 Connection to New or Existing Residential Services

Meter diameter shall match the new city-service diameter.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box and the valve at the meter setter shall be left in an open position, so that the residential water service is operable when this item is complete. If the residential water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found.

Connection to Existing Service at the Hose Bib

The Contractor shall connect to existing residential services using the appropriate adapter, bushing, reducer or other required fitting, and as shown on the Plans.

Reconnection of Existing Water Service on Property Owner's Side of the Meter Box

The Contractor shall use a flex coupling, and additional brass coupler, bushings, reducers, or other required fittings, as approved by the Engineer.

3.11 Water Meters

The definition of "meters" outside of section 3.10 shall mean the meter, register, and all other components assembled as one unit as specified in this section.

METERS AND REGISTERS

All meters and registers shall be compatible with Datamatic's Firefly Endpoints. All meters shall be guaranteed free from manufacturing defects in materials and workmanship and must be adaptable to field programmable registers without interruption of the customer's service.

Testing of meters for compatibility with the Datamatic Firefly Endpoints will be completed by the Engineer, and costs borne by the City. Meters that fail to meet the compatibility requirement shall be retested. Cost for all retests of meters will be borne by the Contractor and deducted from payment due Contractor for work performed under the terms of the contract. Any meter that is defective or not fully compatible with the Datamatic Firefly Endpoints, for any reason, shall be replaced with a compliant meter within 10 days or pay \$200, per meter, in liquidated damages to compensate the City for staff time and delay.

Unless otherwise noted in these contract documents, all meters supplied for the project shall be positive displacement type meters. Two inch and smaller positive displacement meters shall have absolute encoder type registers.

Meters installed that are 3" and greater shall be compound meters with bypass and shall have absolute encoder type registers, unless otherwise noted in these Special Provisions. All irrigation services that are 1 ½" and greater shall be turbine meters and shall have an absolute encoder type register.

Absolute Encoder Type Registers for Positive Displacement, Compound and Turbine Meters

General Description

Registers furnished under these specifications shall be the product of a manufacturer with at least ten (10) years of experience in the manufacture of

absolute encoder-based registers. The registers shall have the capability of providing encoded meter information as described in the following specification. Specifications for the required cold-water meters can be found below in separate specifications. Registers provide low voltage conversions are acceptable; however, registers utilizing generator pulses are not acceptable under this standard.

Construction

Registers shall be of the absolute encoder type and permanently, hermetically sealed in a copper or stainless steel can to provide protection from moisture, high strength, and resistance to handling damage. Similar size, type and registration or registers shall be interchangeable.

All registers 1 ½" and above must be removable without disassembly of the water meter or the service line. Registers must be free of opening to protect the internal electronics of the register.

Registers shall be equipped with low flow indicators. Registers shall read in cubic feet. The register is independent of the meter. Therefore, register's Manufacture Date and Identification Number shall be printed on the face of the register. The manufacturer of the meter and register shall provide meter serial numbers with barcodes on the meter, register lid and shipping box. In addition, the contractor will supply for each shipment an electronic spreadsheet providing meter serial numbers for the City to expedite tracking and inventory purposes.

Register lenses constructed of minimum 1/4" tempered are preferred but not required; glass domed (non-tempered) register lenses are acceptable for durability in pit installations. All other register assembly and material requirements stated herein shall also apply. Registers shall be equipped with a hinged lid to completely protect the register lens.

The absolute Encoder Register output shall be a factory-potted NICOR Hydroconn AMR Series III in-line male connector with female metal contacts and Hydroconn AMR Series II End Cap (No Substitute). The register cable shall be Nicor's three (3) conductor cable and measure 36" long from surface of the register to the end of the connector for 5/8" through 2" meters and 6 feet long for all meters 3" and above.

Operation

Upon inquiry from a remote location, the absolute encoder register shall disclose the exact position of the six most prominent number rollers. All power necessary for data transmission shall be supplied from the interrogation device. All registers shall be fully compatible with Datamatic Firefly meter interface unit (MIU).

All registers shall employ a device to offer a reliable transfer of the roller bank assembly to ensure accuracy and to prevent ambiguous readings. For reliability and durability, the position of each roller shall NOT be determined by using any type of mechanical contacts which can wear out over time. Optical character recognition

(OCR) is the preferred technology, but is not required, for determining roller position, as this method reads the actual position of the index odometer wheels when interrogated by a Datamatic Firefly (MIU) Meter Interface Unit.

Data transmission shall be instantaneous and supplied in an ASCII format without conversion or modification. Registers must operate reliably down to at least 4.5 volts.

Pin out connection: When meter side connector is viewed end-on with the molded arrow at the 12 o'clock position, the contacts occupy the 2, 6 and 10 o'clock positions.

<u>O'clock Position</u>	<u>Function</u>
2	Power/Clock
6	Ground/common/return
10	Encoder Data

Warranties

All encoded registers shall be free from defects in materials and workmanship for ten (10) years from the date of purchase.

Positive Displacement Type Meters 1" - 2"

General Description

Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American Market. Meters shall be new, first line quality, positive displacement type cold water service. Meters must be of the oscillating piston or nutating disc type. Multi-jet and Single-jet meters are not acceptable under this specification. Meters shall comply with AWWA Standard C700 latest revision and the minimum specification herein. Any low lead bronze shall not have less than 85% copper content. In addition, meter manufacturers will meet all guidelines established by California Bill AB1953 and ANSI/NFS Standard 61 Annex F and Annex G requirements. They shall be designed for use with potable water below 80 degrees F.

Type

Cold water service meter for measuring potable water in residential services, positive displacement meters only, sealed register.

Cases: 1"

All meters 5/8" through 1" shall have an NSF approved, low lead bronze outer main case body with a separate, removable measuring element. The low lead bronze case shall not have less than 85% copper content. The meter case casting shall have

raised characters denoting the meter size and the direction of water flow. The casting shall be permanently marked with the serial number of the meter in a manner so that the number is easily read from above. All bottom plates shall be isolated from the potable water by a full rubber liner. Meters shall be provided with bronze bottom plate and held in place with stainless steel bolts with integral washer heads. Cases must be capable of withstanding working pressures of one hundred fifty (150) psi. Thread protectors shall be supplied for the connection ends.

Length

Meters must conform to AWWA C700 standard as most recently revised.

Main cases: 1 ½” through 2”

All meters 1 ½” through 2” shall have a body main case made of high quality copper alloy, with a separate, removable measuring element. The meter casting shall have raised characters denoting the size meter and the direction of water flow. The casting shall be permanently marked with the serial number of the meter in a manner so that the number is easily read from above. Meters shall be of the split case design.

Laying Length

Meters must conform to AWWA C700 standard as most recently revised. The laying length of PD meter and/or strainer assembly shall be as follows:

Meter Size	Meter
1 ½”	13” Max
2”	17” Max

Register Housings

Register housing shall be constructed of an engineered polymer and provide full protection of the register assembly. Registers shall comply with AWWA C700 section 4.1.3 performance requirements in the latest revision. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamper-resistant plugs, tamperproof screws, or locked devices are acceptable.

Measuring Chambers

The measuring chamber shall be of the two-piece oscillating piston or nutating disc design. No inferential-type meters will be allowed. Chambers shall be manufactured from an engineered polymer. Chambers shall be separate from the outer casing and so secured in the main case that the accuracy of the meter will not be affected by any distortion of the case. All wear prone surfaces shall be reinforced with a nylon material. All measuring chamber assemblies shall operate smoothly and be capable of sustaining long-term accuracy.

All motion from the piston shall be transferred to the register via magnetic drive. Piston oscillations or disc nutations must not exceed the figure recommended in Table one (1) of AWWA Standards C-700 latest version for the size of the meter being bid.

Registration Accuracy

All meters shall meet or exceed the following flow requirements:

Size	Low Flow GMP @ 95%	Normal Flow GMP 98.5% - 101.5%	Continuous Flow GPM
1"	3/4	3-50	25
1 1/2"	1 1/2	5-100	50
2"	2	8-160	80

Magnetic Coupling

The piston oscillations will be transferred to the sealed register through the use of a magnetic coupling. Meters with stuffing boxes, spindles and packing glands will not be acceptable.

Headloss

Meters shall conform to AWWA C-700 specifications as currently revised.

Pressure Capability

Meters shall operate up to a working pressure of 150 psi without damage or leakage. Accuracy shall not be affected by pressure variation up to 150 psi.

Strainers

All meters shall be provided with a strainer screen installed in the meter. Strainer screens shall be rigid, fit securely, be easy to remove and have an effective straining area at least two times that of the main case inlet.

Warranties

Meters shall be warranted by the manufacturer to meet AWWA **new meter accuracy** standards according to the following time periods and registered usage amounts, whichever occurs first:

Size Meter	Years Guaranteed	Registered Usage
1" C700	5 years from date of shipment	1,100,000 US Gallons
1 1/2" C700	5 years from date of shipment	1,600,000 US Gallons
2" C700	5 years from date of shipment	2,100,000 US Gallons

Turbine Type Meters 1 1/2" through 10"

General Description

Meters furnished under these specifications shall be the product of a manufacturer with at least ten (10) years experience in meter manufacturing for the American Market. Meters shall be new, first line quality, turbine type for cold-water service. Meter sizes shall be inclusive and shall comply with the Class II AWWA Standard C701 latest revision and the minimum specification herein. Any low lead bronze shall not have less than 85% copper content. In addition, meter manufacturers will meet all guidelines established by California Bill AB1953 and ANSI/NFS Standard 61 Annex F and Annex G requirements. They shall be designed for use with potable water below 80 degrees F

Registration Accuracy

All Turbine Type Meters shall meet or exceed the AWWA latest standard, as follows:

Size	Low Flow GMP @ 95%	Normal Flow GMP 98.5% - 101.5%	Minimum Intermittent Flow GPM
1 1/2"	3	4-160	200
2"	3	4-200	250
3"	4	8-450	550
4"	7	15-1000	1200
6"	15	30-2000	2000
8"	25	50-3000	3000
10"	55	75-6500	7000

Main Cases

The body main case shall be of bronze composition of a high tensile strength or epoxy coated ductile iron on 1 1/2" – 10" sizes and be capable of resisting distortion under pressure up to one hundred and fifty (150) psi. All meters shall have the size and direction of flow indicated on the case and shall be designed for easy removal of all interior parts without disturbing the connections to the pipeline.

Register Housings

The register housing shall be constructed of an engineered polymer and provide full protection of the register assembly. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamperproof screws, or other locking devices are also acceptable.

Measuring Chambers

The measuring elements or chamber for all meters shall be of engineered polymer and shall be separate from the case and easily detached and removed there from.

Rotor spindles shall be of tungsten carbide, stainless steel or titanium alloy supported by radial bearings made of PTFE graphite compounds, synthetic sapphire, or sapphire/ceramic jewel..

Laying Length

The laying length of Turbine meters and/or strainer assembly shall be as follows:

Meter Size	Meter/Meter & Strainer	Strainer	* Test Plug
1 1/2"	13"	7" Max	1" NPT
2"	17"	7" Max	1 1/2" NPT
3"	12"	7" Max	2" NPT
4"	14"	9" Max	2" NPT
6"	18"	9" Max	2" NPT
8"	20"	10 1/4" Max	2" NPT
10"	26"	16" Max	2" NPT

*Spool pieces with a test port are acceptable

Rotors

The measuring impellers, vanes or rotors for all meters shall be polypropylene, nylon, hard rubber or engineered polymers and shall be mounted on a horizontal axis in the center of the measuring element with rotations of the turbine transmitted to the register by means of magnets. Straightening vanes of corrosion resistant material as required shall precede the rotor.

Strainers

Integrally-cast stainless steel plate type strainers are required on sizes 1 1/2" through 6" turbine meters. Separate external epoxy coated steel plate strainers are acceptable on sizes 8" to 10". Strainers shall be rigid, easily removable, and have an effective straining area at least double that of the meter main case inlet. External strainer connections shall conform to the main case and shall be accompanied by gaskets, bolts and nuts.

Warranties

At a minimum, all meters shall carry the following published warranties; Meters shall be guaranteed to be free from defects in materials and workmanship for a period of 24 months after installation and to meet AWWA C-701 Accuracy Standards for two (2) years from date of shipment.

Compound Type Meters 2" through 8"

General Description

Meters combining turbine and displacement meters furnished under these specifications shall meet or exceed the performance specifications of AWWA C702, latest revision. Any low lead bronze shall not have less than 85% copper content. In addition, meter manufacturers will meet all guidelines established by California Bill AB1953 and ANSI/NFS Standard 61 Annex F and Annex G requirements. They shall be designed for use with potable water below 80 degrees F.

Laying Length

The laying length of Compound meters and/or strainer assembly shall be as follows:

Meter Size	Meter or Meter with Strainer	Strainer
2"	15 ¼"	7" Max
3"	17"	7" Max
4"	20"	9" Max
6"	24"	9" Max
8"	42" Max	14" Max

Registration Accuracy

All Compound Meters shall meet or exceed the AWWA's flow standards as follows:

Size	Low Flow GMP @ 95%	Normal Flow GMP 98.5% - 101.5%	Minimum Intermittent Flow GPM
2"	¼	2-160	170
3"	½	4-325	450
4"	¾	6-575	1000
6"	1 ½	10-1500	2000
8"	2 1/2	16-1875	3000

Minimum accuracy through changeover shall be no less than 95% of actual throughput.

Main Cases

The body main case shall be of bronze composition or epoxy coated cast iron on 2" through 8" models. Cases must be capable of withstanding working pressure of one hundred and fifty (150) psi. Outer cases shall permit separate removal of measuring chambers. Meters shall be designed for easy removal of all interior parts without disturbing the connections to the pipeline.

Automatic Valves

Automatic valves shall be as specified in Section 2.10 of the AWWA Standard unless the meter design does not require a crossover valve to meet meter accuracy or other performance specifications of AWWA C702.

Spring-loaded valves shall be a Poppet-type suitable for such purpose. Spring tension shall offer sufficient resistance to the incoming water to divert all small rates of flow through the bypass meter until such time as the pressure loss is great enough to ensure efficient operation of the main measuring section. Spring-loaded valves shall have components made of the following or approved equal: Valve cages made of copper alloy or stainless steel are preferred but NOT required, springs and screws of stainless steel, and spindles and cones of engineered polymer. Spring-

loaded valves shall be self-flushing and fast opening and closing. They shall be easily detached and removed from the case.

Valve assemblies utilizing gates are acceptable if the manufacturer can assure an accuracy level of at least 97% at changeover.

Register Housing

The register housing shall be constructed of an engineered polymer and provide full protection of the register assembly. Register assemblies shall be secured to the main case in a tamper resistant fashion to prohibit unauthorized removal. Seal screws, tamper-resistant plugs, tamperproof screws, or locking devices are acceptable.

Measuring Unit Assemblies

Measuring chambers and cages shall be bronze or engineered polymer. They shall be easily detached and removed from the case. Rotor spindles shall be of tungsten carbide steel or titanium alloy, and must be supported by PTFE, graphite radial, or sapphire/ceramic jewel bearings. Replaceable thrust bearings shall be provided. The main line and bypass chambers shall be interchangeable in all meters of the same size and model. Intermediate gear trains shall be made of non-corrosive materials or synthetic polymer. The bypass chamber assemblies shall be positive displacement type and shall not be cast as part of the outer case.

Strainers

Meters shall be provided with a strainer. All strainers shall be stainless steel plate type. Separate external bronze or integrally cast epoxy coated strainers on meters 2" through 6". Steel plate epoxy coated strainers on 8" and above. Strainers shall be rigid, and have an effective straining area at least double that of the meter main case inlet. Strainer connections shall conform to the main case and shall be accompanied by gaskets, bolts and nuts.

Connections and Companion Flanges

Main case connections and flanges shall meet or exceed AWWA Standard as specified in Table 4 of the AWWA Standard.

Warranties

All meters shall carry the following published warranties: Meters shall be guaranteed to be free from defects in materials and workmanship and to meet AWWA Accuracy Standards for two (2) years from date of installation.

3.12 Contractor Receipt of City Supplied Material

The City will supply all lid locks to be installed on the meter box lids, and all meters three inches and larger. The Contractor shall pick up all materials at the City's Corporation Yard Located at 5730 24th Street. The Contractor shall be responsible

for scheduling pick-up, receiving and transporting these items from the City of Sacramento Corporation Yard. All materials, once received, shall become the responsibility of the Contractor. Replacement of lost or damaged material shall be at the Contractors expense.

The Contractor shall submit a request for parts to the Engineer. The Contractor shall coordinate with the Engineer on an appropriate time schedule and quantity of materials. The Parts Warehouse will have the parts available for pickup within five business days of receiving the request from the Engineer. The contractor shall schedule operations so that the number of occasions where these materials are picked up is kept to a maximum of six (6) for the entire project. For exceptions, the Contractor shall coordinate with the Engineer.

Upon completion of the project, any unused city supplied materials shall be returned to the City's Corporation Yard located at 5730 24th Street. All equipment shall be like new condition to the satisfaction of the Engineer. The cost of damaged or unreturned material will be charged against the Contractor's retention at closeout. The Contractor shall coordinate with the Engineer on an appropriate time schedule for returning unused parts.

3.13 Placement of Meter Boxes

Properties with an existing sidewalk shall have the meter box placed in the sidewalk. Those without an existing sidewalk shall have the meter box placed in the non-traffic area behind the curb.

Meter box and meter setter shall be installed to match vertical slope of surrounding conditions to a maximum vertical angle of 45 degrees. Should field conditions exceed this maximum angle the Contractor shall place the meter box and meter setter in an Engineer approved manner.

Excavation for meter boxes shall be a minimum of eight inches (8") around all sides of the box to allow for proper compaction of the backfill and surface restoration around the box unless otherwise determined in the field by the Engineer.

When removing sidewalk for the purpose of placing a meter box, an entire single flag of concrete shall be removed and replaced. Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54" X 54" (20.25 sq ft, typ). The Contractor shall attempt to place the meter box such that only one flag of concrete need be removed without causing damage to the existing curb and gutter. Should the Contractor determine that the meter box location should fall on a joint between two flags of concrete, for reasons acceptable to the Engineer; both flags shall be removed and replaced.

Unless directed to by the Engineer, meter boxes are not to be placed within driveways. Surface restoration shall be as specified elsewhere in the Special Provisions.

The Contractor shall work with the Engineer in finding a suitable meter box location. This work shall be done at least one week prior to installing the service saddle on the new water main. Because this neighborhood has all existing sidewalks, the Contractor shall plan on placing the meter box in the sidewalk at a location that is the least distance away from the proposed connection point.

3.14 Meter Boxes and Lids

Meter Boxes and lids shall be constructed of materials in accordance with the appropriate sections of ANSI/SCTE and shall be tested per the appropriate ASTM sections.

The meter box lids shall provide a slip resistant surface with a coefficient of friction greater than 0.5. Materials shall be resistant to chemicals, sunlight exposure, water absorption, and flammability. Lids shall have a 1 ¾" diameter hole with a 4" diameter, 1/8" deep recessed area centered over the 1 ¾" diameter hole to accommodate an automated meter reading endpoint and lid lock. All meter box lids shall sit flush with the rim of the meter box body and shall be seated no more than 1/16-inch into the body of the meter box. Lids shall be compatible with the automated meter reading infrastructure specified in the Water Meter section of these specifications.

For 1-inch services the nominal meter box size shall be 13"W x 24"L x 12"D. For 1½-inch and 2-inch services the nominal size shall be 17"W x 30"L x 12"D.

The manufacturer shall submit documentation showing compliance with material strength and proof of design testing.

Sidewalk and Driveway Meter Boxes and Lids

Meter boxes and lids shall be constructed of a polymer concrete material with fiber reinforced plastic or a bulk moulding compound. All meter box and lids shall be identical in composition and have a matching "concrete gray" appearance. Meter boxes and lids shall meet all test provisions of the latest edition of the ANSI/SCTE 77 Tier 15 application or ASTM-C857: Load Category A-16.

The lids shall be marked "WATER", with a nominal lettering height of 1-inch and shall be indented into the surface of the lid to resist wear. To facilitate removal, the lid shall include two ½" x 2 ⅝" - 4" (2 ⅝" minimum length, and not to exceed 4" in length) pockets with integrated lifting bar to accommodate a standard manhole hook. No lids shall have a reading lid.

Landscape Meter Boxes and Lids

Meter boxes and lids shall be constructed of a concrete or a polymer concrete material with fiber reinforced plastic material.

Meter boxes constructed of a polymer concrete material with fiber reinforced plastic material shall meet all test provisions of the latest edition of the ANSI/SCTE 77 Tier 8 application.

Concrete meter boxes and lids shall have a compressive strength at yield of 3000 psi when tested per ASTM C-39: Load Category A-0.3.

Lids shall be "concrete gray" in appearance. To facilitate removal, the lid shall include two $\frac{1}{2}$ " x $2\frac{5}{8}$ "- 4" ($2\frac{5}{8}$ " minimum length, and not to exceed 4" in length) pockets with integrated lifting bar to accommodate a standard manhole hook. No lids shall have a reading lid. The lids shall be marked "WATER", with a nominal lettering height of 1-inch and shall be indented into the surface of the lid to resist wear.

Alley, Traffic or Unimproved Street Location Meter Boxes and Lids

Meter boxes shall be constructed of an H20 traffic rated (per AASHTO-H20 load test) concrete material and shall meet the Cal Trans No. 5T or 6T State Specification. Lids shall be H20 rated.

The lid shall be "locked" into the meter box body with a 300 series $\frac{3}{8}$ "-16 stainless steel button head with pin in hex bolt with washer. The hex shall be $\frac{7}{32}$ " hex with pin. Each Lid shall have the term "PROPERTY OF CITY OF SACRAMENTO" welded onto the top. The letters shall be 1" in height.

Meter Boxes for 3" and Larger Meters

For 3-inch through 6-inch services the nominal meter box size shall be 30"W x 48"L x 12"-18"D. For 8-inch services the nominal meter box size shall be 30"W x 60"L x 12"-18"D. Meter boxes for 3" and larger meters shall meet the applicable specifications above for the specific application of the meter box.

3.15 Contractor Source Documents for Monthly Billing

The City shall provide the contractor with an electronic spreadsheet to maintain. The following information will be already populated by the City:

Contractor Source Document (to be used for monthly billings)

- Physical address (street number and name)
- Assessor's Parcel Number (APN)

The contractor shall record the following on the electronic spreadsheet:

- Meter number/serial number (via Barcode only, no manual input)
- Meter manufacturer
- Meter location
- Meter size
- Service size and material type
- Bid items completed
- Extra concrete quantity
- Additional comments depicting unusual situations
- Date Paid
- Add/Delete
- Total Concrete (SF)

Note: Meter serial number shall not be manually populated into the electronic spreadsheet. A barcode reader shall be used.

The Contractor is expected to correct any misinformation on the electronic spreadsheet, e.g. addresses.

An example of the spreadsheet can be found in the Appendix. The Contractor shall submit the spreadsheet electronically and provide a hard copy of the spreadsheet at the time each monthly billing is generated and no later than the 20th of each month. The Contractor shall also submit a weekly update on 11"x17" sized paper.

3.16 De-watering

A determination of groundwater level has not been made for this project. The Contractor shall be responsible for the control, removal, and disposal of any groundwater in accordance with Section 27-3 of the City Standard Specifications.

3.17 Tree Preservation Requirements

Trees within the project area shall be protected by the following means:

1. The contractor shall hire an International Society of Arboriculture (ISA) certified arborist to do any required pruning for equipment clearance. The contractor shall contact the City Arborist (Dan Pskowski, 768-8604) for a root inspection(s) for trenching activities within the dripline(s) of the trees.
2. If during excavation for the project, tree roots greater than two inches in diameter are encountered, work shall stop immediately until the project arborist can perform an on-site inspection. All roots shall be cut clean and the tree affected may require supplemental irrigation/fertilization and pruning as a result of the root cutting. The project sponsor will be responsible for any costs

incurred. Depending upon the amount of roots encountered and the time of year, wet burlap may be required along the sides of the trench.

3. The contractor shall be held liable for any damage to existing trees, i.e. trunk wounds, broken limbs, pouring of any deleterious materials, or concrete washout under the dripline of the trees. Damages will be assessed using the A Guide to Plant Appraisal eighth edition, published by the International Society of Arboriculture. An appraisal report shall be submitted for review by the City Arborist.
4. Tree protection methods noted above shall be identified on all construction plans for the project.

3.18 Cultural Resources

Observation will be employed by the Contractor and the Engineer during this project to ensure that any cultural resources identified during the project are treated in accordance with the guidelines set forth in CEQA.

Construction activities will be monitored nearing depths of native soil.

Trenches will be monitored for any cultural indicators such as changes in soil color, composition, or texture; human bone; artifacts; and structural remains and features.

3.19 Payment

No separate payment will be made to the Contractor for complying with the requirements of this section. The cost of such work shall be included in whatever bid item the Contractor deems appropriate.

END OF SECTION

SECTION 4. ITEMS OF THE PROPOSAL

Item No. 1 Construction Photographs

This item shall consist of providing pre-construction and post-construction photographs or video of all work. Photographs or video shall meet the requirements of Section 11 of the City Standard Specifications, except as modified herein or as directed by the Engineer.

Photographs or video of all existing conditions within the limits of construction shall be taken. The addresses of the properties affected by construction shall be clearly identified on each photograph or in the video. Pre-construction photographs or video shall be accepted by the City prior to the start of construction. Photographs or video shall include all pavement and landscaping features within the construction area. The Contractor shall submit as many photographs or as much video as necessary to clearly depict the condition of the existing pavement and landscaping features within the limits of construction. Special emphasis shall be placed on existing pavement, structures, flowerbeds, trees, or any other improvements in close proximity to the construction area. Upon completion of work at each affected property, the Contractor shall have post-construction photographs or video taken at the same locations and from the same perspective that the pre-construction photos or video were taken. All photographs or video shall be taken with a digital still camera or video recorder and provided to the City on a DVD.

Each DVD shall be formatted as follows: For digital photographs stored on a DVD, a folder shall be established for each street in the project. Each street folder shall contain folders titled for each address that a meter retrofit has been performed. Videos shall be stored on DVD's utilizing the following format: Each street within the project shall be stored as a chapter name. Video taken at each address on a particular street shall be stored in the chapter entitled for that street. When submitting pre or post construction photographs or video, the Contractor shall provide a table of contents indentifying each DVD submitted and the chapter content therein.

Contractor shall be paid half of the lump sum price upon approval of the pre-construction photos, and the remaining amount upon acceptance and approval of the post-construction photographs.

Payment for construction photographs shall be at the contract lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, required processing, and equipment, and for performing all work necessary to complete this item in accordance with the City Standard Specifications, these Special Provisions, and as directed by the Engineer.

Item No. 2 Mobilization (Note: The maximum amount bid for "Mobilization" shall be three (3) percent or less of the total base bid.)

This item shall consist of preparatory work and operations, including, but not limited to, those items necessary for bonding, insurance, movement of personnel, equipment, supplies, and incidentals to the project site(s), and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items.

Payment and contract amount for "Mobilization" shall conform to Section 11 - Mobilization of the State Standard Specifications. The contract lump sum price paid for mobilization shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in mobilization.

Item No. 3 Existing 4-Inch Fire Service to Transfer

This item shall consist of furnishing and installing necessary fittings in the new main with a gate valve and connecting the existing service to the new water main, to the alignments and the details shown on the Plans. The gate valve, and all associated lateral pipe and fittings necessary to intercept and transfer service to the new main shall be the same diameter and material as the existing service. Unless otherwise directed, intercept and connect the existing service lateral as close as practicable to the new water main using acute angled fittings of 45 degrees or less.

This item shall also include furnishing and installing elbows to change the horizontal and vertical alignment of the proposed Fire Service to avoid conflicts with existing underground utilities or to maintain proper depth of bury through vertical curves

Materials and placement shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions. The existing service shall not be disrupted until the new water main is connected and operable.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the Fire Service.

Payment shall be at the contract lump sum price bid for each fire service reconnected and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 4 6-Inch Diameter Water Main to Furnish and Install

Item No. 5 8-Inch Diameter Water Main to Furnish and Install
Item No. 6 12-Inch Diameter Water Main to Furnish and Install

This item shall consist of furnishing and placing water main pipe, fire hydrant leads, elbows and fittings at the locations, to the alignments and to the details shown on the Plans.

This item shall also include furnishing and installing elbows to change the horizontal and vertical alignment of the proposed water main to avoid conflicts with existing underground utilities or to maintain proper depth of bury through vertical curves.

The water main pipe material shall be ductile iron pipe or polyvinyl chloride (PVC), except for 12-inch main, which shall be ductile iron pipe (DIP). Materials and placement shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item. The Contractor shall restore surfaces in kind unless otherwise specified on the Plans or in these Special Provisions. Pavement cutting and restoration shall conform to the provisions of the City Standard Specifications and these Special Provisions. Striping and speed bump replacement, concrete, landscaping, asphaltic concrete, or any other material replacement encountered, shall be included in this item.

This item also includes all work such as but not limited to excavating, shoring, traffic control, etc involved in assisting City crews with installing the proposed 12" hot tap on the existing 16-inch water main in McKinley Blvd.

Payment shall be at the contract unit price bid per linear foot of water main furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 7 6-Inch Diameter Gate Valve to Furnish and Install
Item No. 8 8-Inch Diameter Gate Valve to Furnish and Install
Item No. 9 12-Inch Diameter Gate Valve to Furnish and Install

This item shall consist of furnishing and installing gate valves, including gate valve boxes, at the locations indicated on the Plans and in conformance with the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions. This item shall include furnishing and installing gate valves on the standard hydrant lead.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price bid for each gate valve furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 10 Standard Fire Hydrant to Furnish and Install

This item shall consist of furnishing and installing a standard fire hydrant at the locations indicated on the Plans. The standard fire hydrant shall be installed in accordance with Standard Drawing W-201 and Sections 10, 27, and 38 of the City Standard Specifications.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

The fire hydrant lead and valve shall be paid for under separate items.

Payment shall be at the contract unit price bid for each standard fire hydrant furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 11 Existing Fire Hydrant to Remove

The Contractor shall remove existing fire hydrants in their entirety including but not limited to the existing fire hydrant gate valve, stand pipe, gate valve box and lid, and shall abandon fire hydrant leads in place where indicated on the Plans. The Contractor shall abandon fire hydrant leads by plugging the end with two feet (2') of Class "C" or Class "D" Portland cement concrete meeting the applicable requirements of the Standard Specifications. The Contractor shall deliver hydrants to the Corporation Yard, 5730 24th Street, Bldg. 9. All pipe removed shall become the property of the Contractor and shall be disposed of away from the project site.

Work on this item shall not begin until all new water systems are connected and operable and old water mains are capped and/or abandoned as indicated on the Plans.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price bid for each standard fire hydrant removed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 12 2-inch and Smaller Substandard Water Service to Replace

Substandard water services encountered during construction shall be removed and replaced in accordance with Sections 10, 27, and 38 of the Standard Specifications.

A 2-inch and smaller water service shall be considered substandard if not made of copper tubing. This item shall consist of furnishing and installing all required water service piping and all other items to place and connect water services as shown on the detail in the Appendix from the water main to the point of service at the property. Water service pipe for a 2-inch and smaller water service shall be in accordance with Section 10, 27 and 38 of the Standard Specifications. The service piping placed shall match existing size unless smaller than 1-inch diameter, in which case a 1-inch diameter service shall be placed. The new pipe shall be placed from the existing curb stop to the existing corporation stop or gate valve. If the existing curb stop and box is located behind the sidewalk, the Contractor shall replace the service pipe back to the existing curb stop. If the curb stop is located under a concrete surface, the Contractor may tunnel no more than three feet under the concrete to connect to the existing curb stop. If tunneling is used, the Contractor shall use a CDF material to backfill the area. The service must be embedded in six inches of sand prior to placing CDF. If existing corporation stop or gate valve cannot be reused through no fault of the Contractor, the work associated with installing a new corporation stop or gate valve will be considered extra work and paid per Section 8 of the Standard Specifications.

If the Contractor finds a substandard service, the Contractor shall notify the Engineer and shall cover the excavation with temporary plates until the Engineer has made an inspection.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box so the residential water system is operable when this item is complete. (The installation of the meter box shall be paid for under a separate item.)

Maximum time for shutdown of any water service to any residence or business shall be four (4) hours.

The removed material shall become the property of the Contractor and he will dispose of at their discretion.

The exact number and location of substandard water services to replace shall be determined in the field. The quantity of substandard water services to be replaced shown on the Proposal is for bidding purposes only. The unit price indicated for substandard services to be replaced will not be adjusted because the actual number of required substandard services varies from the quantity shown in the Proposal.

This item shall include the cost of saw cutting and repairing or replacing existing street, alley, curb, gutter or sidewalk, providing any new sod, shrubbery, fencing, and repair or replacement of other existing improvements on private property that may be damaged as a result of the installation of the water services.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the unit price bid per each substandard water service replaced and shall include full compensation for furnishing all labor, material, tools, equipment and incidentals and for doing all work involved in replacing substandard water services as specified in these Special Provisions and as directed by the Engineer.

**Item No. 13 1-Inch Water Service w/Meter Box and Meter to Furnish and Install
(main to meter box)**

**Item No. 14 2-Inch Water Service w/Meter Box and Meter to Furnish and Install
(main to meter box)**

These items shall consist of furnishing and installing water services from the water main to the point of service at the property. Each water service shall include furnishing and placing a saddle, corporation stop, meter box, meter lid, meter setter, meter and all required lateral pipe, and all other items to place and connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

All USA markings identifying water features will be verified by the Contractor. All costs associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box to the meter-setter so that the customer's water service is in service when this item is complete.

If the residential water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found. This item shall include replacing up to 5 feet of the customer's service. Addition footage shall be paid under a separate item.

When the existing main servicing the home is in the street Right-of-Way and the existing water service is located at the back of the sidewalk or curb, the Contractor shall place the new meter box adjacent to the existing water service curb stop so that the new service can easily be transferred to the existing service.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street

surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the meter service retrofit. Additional surface restoration beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item.

The quantity of 1-inch and two inch diameter water services shown on the plans are for bidding purposes only. The unit price indicated will not be adjusted because the actual number of water services placed may vary from the quantity shown on the plans.

For residential services with existing meters, contractor shall transfer existing water meter to new meter box.

Payment shall be at the contract unit bid price for each water service and shall include full compensation for furnishing and installing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 15 2-inch by 4-inch Irrigation Water Service w/Meter Box to Furnish and Install (main to rear)

Item No. 16 2-Inch by 4-inch Domestic Water Service w/Meter Box to Furnish and Install (main to rear)

These items shall consist of furnishing and installing water services from the water main to the property's existing point of connection in the rear of the property as shown in the Plans.

The pipe material for the 4-inch services shall be Drisco Plex 4000 DIPS (HDPE DR 9) or approved equal (From meter to connection point/rear).

The pipe material for the 2-inch portion of the service (from the main to the meter box) shall be in accordance with Section 10, 27 and 38 of the Standard Specifications.

Each water service shall include furnishing and placing a saddle, corporation stop, meter box, meter lid, meter setter and all required lateral pipe and all other items to place and connect water services as shown on the Plans.

These two services have existing meters that will require relocation by the Contractor to the new meter boxes. The existing irrigation service has an RP device which the Contractor will be required to relocate to the new connection point and to test the RP device after installation.

The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

All costs associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

When contractor is connecting to existing service at the hose bib, the Contractor shall furnish and install pipe, shut off valves, union, and fittings where none previously existed, or existing material is galvanized, or existing is not in a working condition, as determined by the Engineer.

The quantity of water services to install and connect from the main to the hose bib/rear as shown on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

This item shall include up to one hundred fifty feet (150') of water service. Additional footage shall be paid under a separate item.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the meter service retrofit. Additional surface restoration beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item.

Payment shall be at the contract unit price bid for each water service installed and connected from the main to hose bib and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 17 Reconnecting Existing City Water Meter

This item shall consist of reconnecting an existing water meter to the new water main. This item includes the furnishing and installation of a saddle and corporation stop. The contractor shall intercept the existing water service and reconnect it to the new corporation stop using copper water pipe. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions. See detail in Plans drawing No CD-1.

All USA markings identifying water features will be verified by the Contractor. All costs associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

The Contractor shall reconnect the existing water service to the new water main so that the customer's water service is in service when this item is complete.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing curb, gutter, sidewalk, driveway, alley or street surface, provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the water service retrofit.

The quantities for this bid item are for bidding purposes only. The unit price indicated will not be adjusted because the actual number of water meters reconnected may vary from the quantity show on the plans.

Payment shall be at the contract unit price bid for each existing water meter that is reconnected to the new main and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 18 Hybrid Water Service w/Meter Box and Meter to Furnish and Install (main to front/side hose bib),

Item No. 19 Hybrid Water Service w/Meter Box and Meter to Furnish and Install (main to rear hose bib),

Item No. 20 1 1/2-Inch Water Service w/Meter Box and Meter to Furnish and Install (main to rear hose bib),

Item No. 21 2-Inch Water Service w/Meter Box and Meter to Furnish and Install (main to rear hose bib),

These items shall consist of furnishing and installing water services from the water main to the property hose bib located at the front, side or rear of the house.

Each water service shall include furnishing and placing a saddle, corporation stop, meter box, meter lid, meter setter, meter and all required lateral pipe, preparing the hose bib for hook-up in accordance with the UPC and all other items to place and

connect water services as shown on the Plans. The water services and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

Water services installed on corner properties where the Contractor elects to connect to the back of the house to minimize the length of the water service shall be paid for under a "main to front/side hose bib" item.

All costs associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item.

Information regarding existing service location shall be supplied to the City ten (10) working days prior to placing the saddle and/or constructing the service.

When contractor is connecting to existing service at the hose bib, the Contractor shall furnish and install pipe, shut off valves, union, and fittings where none previously existed, or existing material is galvanized, or existing is not in a working condition, as determined by the Engineer.

The quantity of water services to install and connect from the main to the hose bib as shown on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

This item shall include up to eighty feet (80') of water service from the main to the hose bib where connecting to the front or side of the structure, and one hundred fifty feet (150') of water service where connecting to the rear of the structure. Additional footage shall be paid under a separate item.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the meter service retrofit. Additional surface restoration beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item.

Payment shall be at the contract unit price bid for each water service installed and connected from the main to hose bib and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 22 Meter Retrofit of 1-inch Water Services

This item shall consist of furnishing and installing 1-inch meter setters, curb stops, boxes and lids and meters on existing residential and commercial water services in accordance with Section 10, 27 and 38 of the Standard Specifications and the applicable details as shown in the Appendix of these Special Provisions. All meter retrofits shall be installed in accordance with the installation methods outlined in American Water Works Association Standards M6 - Manual of Water Supply Practices (AWWA), the UPC, and Technical Drawings located in the Appendix of these Special Provisions.

Service Size	Technical Dwg.
<ul style="list-style-type: none"> • 1" service to retrofit 	W-402R

1-inch meter setters shall be installed on 1-inch services (including ¾ -in services). The Contractor is responsible for supplying all fittings and any additional pipe necessary to complete the meter retrofit installation and shall adjust pipe diameter, pipe material, and horizontal or vertical alignments.

It shall be the Contractor's responsibility to locate the existing water service laterals curb or corporation stops. All USA markings identifying water features will be verified by the Contractor. All cost associated with this work including all re-work if the USA markings are found to be incorrect shall be included in this item. The City will provide a list of addresses of properties that need to be retrofitted and any service location records that exist. The service location records are provided as a reference only and in no way does City guarantee the accuracy of the records. This information is located in the Appendix.

Contractor shall be responsible for furnishing and installing 1-inch and smaller pipe, fittings, meter valves (straight and angled), meter setters, meter boxes, lids, and all other materials required to complete the installation of the service retrofit.

If a backflow prevention assembly is found at any of the listed retrofit addresses in the field, the Contractor shall contact the Engineer for direction on replacement, removal, or other required action.

The quantity of 1-inch service retrofits shown on the bid proposal is for bidding purposes only. The unit price indicated for 1-inch meter service retrofits will not be adjusted because the actual number of required meter service retrofits varies from the quantity shown on the bid proposal.

Water main shut downs to turn off the service during the meter retrofit of a water service will not be allowed. The Contractor shall be responsible for shutting off the service during the meter retrofit of the water service by crimping the service or utilizing other AWWA approved method.

The Contractor shall reconnect the existing water service on the property owner's side of the meter box so that the residential water service is operable when this item is complete. If the residential water service is in such poor condition that the contractor cannot reconnect to the service, the Contractor shall replace a portion of the service until a suitable connection point can be found. This item shall include replacing up to 5 feet of the customer's service. Additional footage shall be paid under a separate item.

Surface restoration associated with this item shall be in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Pavement cutting shall be perpendicular and parallel to the centerline of the road. The Contractor shall saw cut, repair or replace existing sidewalk, driveway, alley or street surface, up to 54"x 54" (20.25 sq ft.), provide new sod, shrubbery, fencing, and repair or replacement of existing improvements on private property that may be damaged as a result of the installation of the meter service retrofit. Additional surface restoration beyond 20.25 sq. ft. per each retrofit location, as directed by the Engineer, shall be paid under a separate bid item.

Payment shall be at the unit price bid per each retrofit and shall include full compensation for furnishing all labor, material except as furnished by the City, tools, equipment and incidentals and for doing all work involved with the installation of 2-inch and smaller service retrofits as specified in these Special Provisions and as directed by the Engineer.

Item No. 23 Additional 1 1/2-inch Water Pipe to Furnish and Install

Item No. 24 Additional 4-inch Water Pipe to Furnish and Install

This item shall consist of furnishing and installing residential water pipe where field conditions require service lengths in excess of limits identified in previous bid items. Water service pipe and their installation shall meet the applicable requirements of Sections 10, 27, and 38 of the City Standard Specifications and these Special Provisions.

For the 4-inch water service the pipe material shall be DriscoPlex 4000 DIPS (HDPE DR 9) or approved equal.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

The quantity of residential water pipe to furnish and install as shown on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid per lineal foot of water service furnished and installed that is in excess of the prescribed limits and shall include full

compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 25 1 ½-Inch Schedule 40 PVC Pipe, to Furnish and Install

When adequate volume is not provided to all points on the property by a hose bib connection at the front of the house, 1 ½-inch Schedule 40 PVC pipe shall be furnished and installed and connected to the back half of the property. Alignment and connection point shall be at the approval of the Engineer. Materials and placement shall meet the applicable requirements of the City Standard Specifications and these Special Provisions.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item unless otherwise specified. Asphalt concrete and concrete removal and replacement required to complete this item in place shall be paid for under separate bid items.

The quantity of PVC pipe to install on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual lineal footage varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid per linear foot of Schedule 40 PVC pipe furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 26 Unsuitable Material, to Remove and Replace

This item shall consist of furnishing all labor, equipment and materials to remove and replace unsuitable materials in accordance with the requirements in Section 14-8 of the City Standard Specifications, these Special Provisions and as directed by the Engineer.

Measurement for payment for unsuitable material shall be based upon a weight of the material placed based on conversion factor of 140 lbs/cf to verify unsuitable material replaced.

Payment shall be at the contract unit price bid per ton for unsuitable material removed and replaced and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 27 Asphaltic Concrete, to Remove and Replace

This item shall include miscellaneous asphaltic concrete removal and replacement for right-of-way and private property repairs. This work is not shown on the Plans but shall be performed by the Contractor at the direction of the Engineer.

Asphaltic concrete requiring removal and replacement for installation of the water main, water service laterals, capping and abandoning water main, connecting existing and new mains, and gate valves shall not be included in this item.

Asphaltic concrete shall be removed and replaced in accordance with the City Standard Specifications and these Special Provisions on Pavement Cutting and Surface Restoration.

The quantity of asphalt paving shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

Payment shall be at the unit price bid per square foot of asphaltic concrete to remove and replace and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals, and for performing all work necessary to complete this item in place.

Item No. 28 Concrete, to Remove and Replace

Concrete encountered on private property shall be removed and replaced as necessary to install and connect residential water services and to abandon back yard water services and shall be paid for under this item. Concrete shall meet the applicable portions of Sections 10, 19, and 24 of the City Standard Specifications. Limits of concrete removal and replacement shall be approved by the Engineer prior to work.

All concrete used for surface restoration in public right-of-way shall be included in the appropriate bid items of these Special Provisions.

The quantity of concrete shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

This item shall cover all concrete pavement replacement not specified in the previous bid items. The removal and replacement of on-site concrete patios and walkways, driveways, and sidewalks in order to construct new water services, shall be paid for under this item. Where directed by the Engineer, the Contractor shall remove concrete pavement and replace the surface in accordance with the section of the Water Construction Requirements of these Special Provisions, entitled "Pavement Cutting and Surface Restoration" and shall be paid for under this item of the contract. Unless otherwise directed by the Engineer, newly placed concrete paving shall match existing pavement edges. Limits of concrete removal and replacement shall be approved by the Engineer prior to work.

Included in this item are the saw cutting, excavation, removal and disposal of existing concrete pavement. Existing manhole/vault head and covers, valve or meter box and lids, castings and other associated appurtenances shall be salvaged and reset at the

proposed grades. At the Engineers discretion, any box or lids damaged by the Contractor's operation shall be repaired or replaced by the Contractor for no additional charge.

Payment shall be at the unit price bid per square foot of concrete to remove and replace and shall include full compensation for furnishing all labor, material, tools, equipment, incidentals, and for performing all work necessary to complete this item in place.

Item No. 29 Existing Valves, Tees, Saddles and Water Mains, to Remove or Abandon

This item shall consist of disconnecting existing taps and removing or abandoning existing valves, tees, saddles and water mains as indicated on the Plans or as directed by the Engineer in accordance with these Special Provisions.

All abandoned taps from live mains shall be removed such that no protrusions remain. The method of abandoning the mains depends on the type of existing pipe. Asbestos-cement, steel, and cast iron pipe shall be plugged with two (2) feet of concrete. Steel pipe shall be abandoned by welding 1/4-inch thick steel plate on cut ends. Use of a restrained MJ cap to abandon steel main, rather than welding, in the event that valve shutdown does not effect a positive shutdown will be subject to Engineer approval and shall continue to be paid under this item.

Cut pipe removed during this procedure shall become the property of the Contractor and shall be disposed of at the Contractor's expense.

Removal of existing valves shall include removing all appurtenances associated with the valve including, but not limited to, risers, valve boxes and lids.

All items to be removed as indicated on the Plans shall become the property of the Contractor and shall be disposed of at the Contractor's expense.

Payment shall be at the contract lump sum and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 30 Mains to Cap

This item shall consist of furnishing and installing the necessary pipe and fittings to permanently cap existing water mains, which are to remain live, at the locations and to the details shown in the Plans or as directed by the Engineer. Main shall be exposed at the point of capping a minimum of one working day prior to capping for Engineer's final approval of cut location.

The method of capping the mains depends on the type of existing pipe. Asbestos-cement pipe shall be transition flex coupling, 3' PVC pipe, and an MJ cap with a thrust block. Cast iron pipe shall be capped by installing an MJ cap and a thrust block.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment for capping mains shall be at the contract unit price bid per each main to cap and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 31 Connection to Existing Water Distribution System

This item shall consist of connecting the new water main to the existing water distribution main at the locations indicated, to the details shown on the Plans and in accordance with Section 27-14 of the City Standard Specifications.

Connections made between different phases of the work outlined in these contract specifications shall not be considered an "existing connection".

The Contractor shall pothole tie-in locations to locate existing water mains.

The Contractor shall furnish and install fittings, restraints and pipe necessary to connect mains. When cutting into an existing main, up to 15 feet of new pipe may be required for each tie-in. The Contractor shall use 45 degree (maximum) elbows to match existing pipe elevations, which shall be installed in accordance with Standard Drawing W-103 of the City Standard Specifications.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit bid price for each connection to the existing water distribution system and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 32 Water Service, to Abandon

The Contractor shall abandon water services where alley or backyard easement mains provide water to the home, once the home has been connected to the new water service and is operable.

The Contractor shall turn off the corporation stop and cut and abandon service at the corporation stop and hose bib prior to making the new water service connection. If there are hose bibs off the service, the Contractor shall cut and cap the service on the far side of the hose bib so that the hose bibs remain operable. If the Contractor is unable to

locate either the curb or corporation stops, he shall use an Engineer approved alternate construction method to abandon the existing water service.

The existing house shut off valve shall be removed and the above ground tee shall be plugged. The Contractor shall remove the riser.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item unless otherwise specified. Concrete removal and replacement required to complete this item in place shall be paid for under separate bid items.

The quantity of alley or backyard easement services to abandon on the Bid Sheet is for bidding purposes only. The unit price indicated will not be adjusted because the actual number varies from the quantity shown on the Bid Sheet.

Payment shall be at the contract unit price bid for each water service abandoned and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

Item No. 33 Water Quality, to Provide

This item shall consist of furnishing, installing, and maintaining water quality control measures (BMPs) elements associated with this project in accordance with Section 16 of these Standard Specifications.

Payment shall be at the lump sum price bid and shall include full compensation for furnishing all labor, materials, tools, equipment, processing and incidentals and for doing all work involved in designing, placing and maintaining in effective condition all erosion, sediment and pollution control BMPs as specified in these Special Provisions, and as directed by the Engineer.

Item No. 34 Potholes

This item shall consist of potholing at the locations indicated on the Plans or as directed by the Engineer.

Prior to connecting to existing 6-inch, 8-inch and 16-inch water mains in C Street, Elvas Ave, McKinley Blvd, 41st St and 43rd St, Contractor shall pothole to verify the existing pipe material to connect.

The quantity of potholes shown on the Proposal is for bidding purposes only. The unit price indicated will not be adjusted because the actual quantity varies from the quantity shown on the Proposal.

If the Contractor chooses to pothole to determine if proposed main shall be placed over or under existing water mains, this shall not be paid for under this item. It shall be included in the price to furnish and install new water main.

Payment shall be at the contract unit price bid per each pothole and shall include full compensation for furnishing all labor, materials, tools, equipment, and for performing all work necessary to complete this item in place.

Item No. 35 2-Inch Diameter Blow-off to Furnish and Install

This item shall consist of furnishing and installing a two inch (2") blow-off at the locations indicated on the Plans and shall be installed in accordance with Standard Drawing W-201 and Sections 10, 27, and 38 of the City Standard Specifications and as detailed in the Plans.

Surface restoration associated with this item shall be performed as specified elsewhere in these Special Provisions and paid for under this item.

Payment shall be at the contract unit price for each 2-inch blow-off valve furnished and installed and shall include full compensation for furnishing all labor, materials, tools and equipment, and for performing all work necessary to complete this item in place.

END OF SECTION

APPENDIX A

Location Description Examples and Abbreviations

Water Book Legend and Water Book Pages

Measurement Examples

Fire Hydrant - include address where hydrant is located and distance and direction from water main.

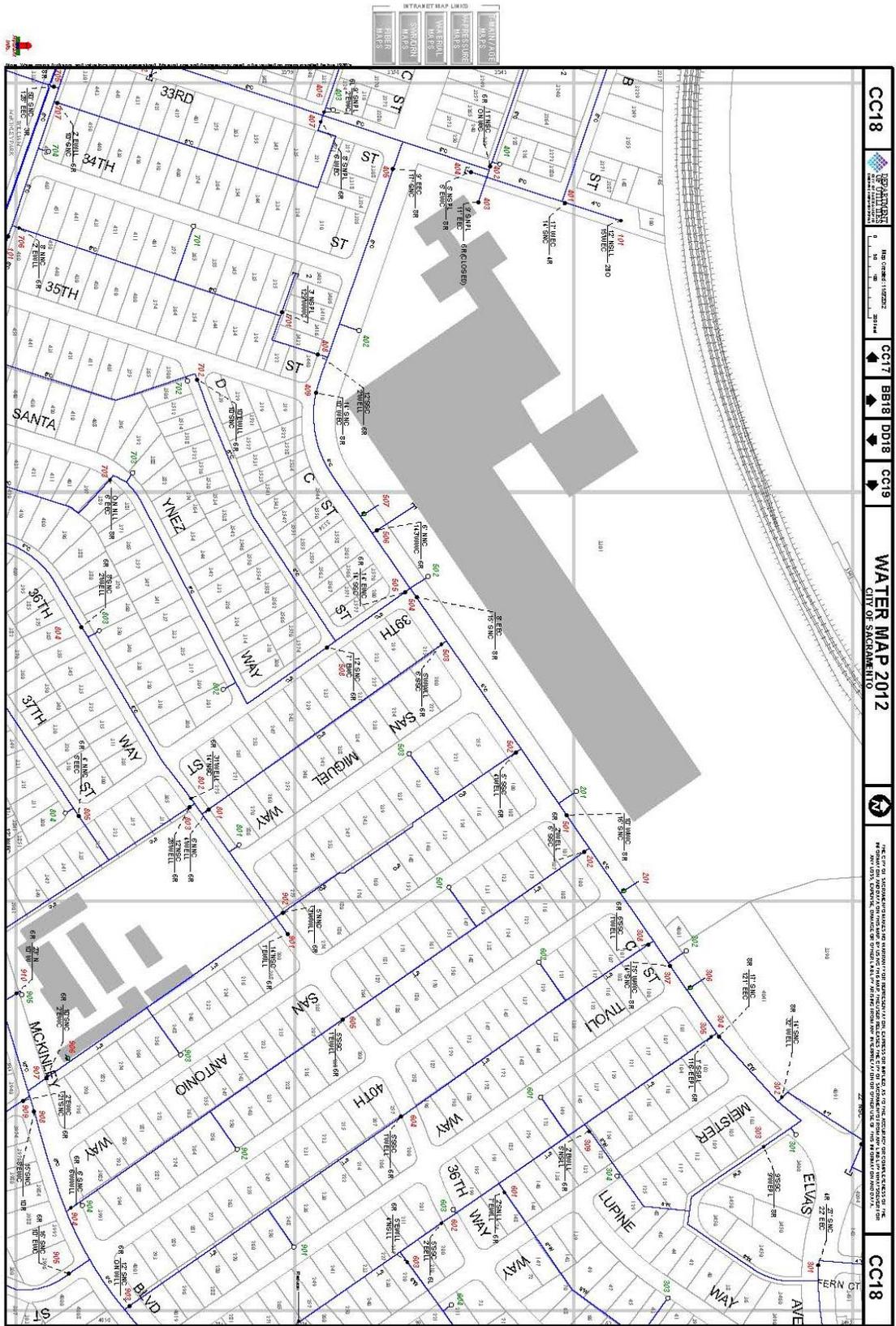
FH Located in front of 1500 10th Ave.
 Brand name (type) of FH
 Model number
 10' north of main

Fire Hydrant Gate Valve - include distance and direction from fire hydrant.

FH GV 9' south of Fire Hydrant

Meter Box - include address and location.

MB 1400 Wentworth Ave: 45" NSPL, 5' EEC



CC18 **CC17** **BB18** **DD18** **CC19** **WATER MAP 2012** **CC18**
 CITY OF SANTA ANA, CALIFORNIA

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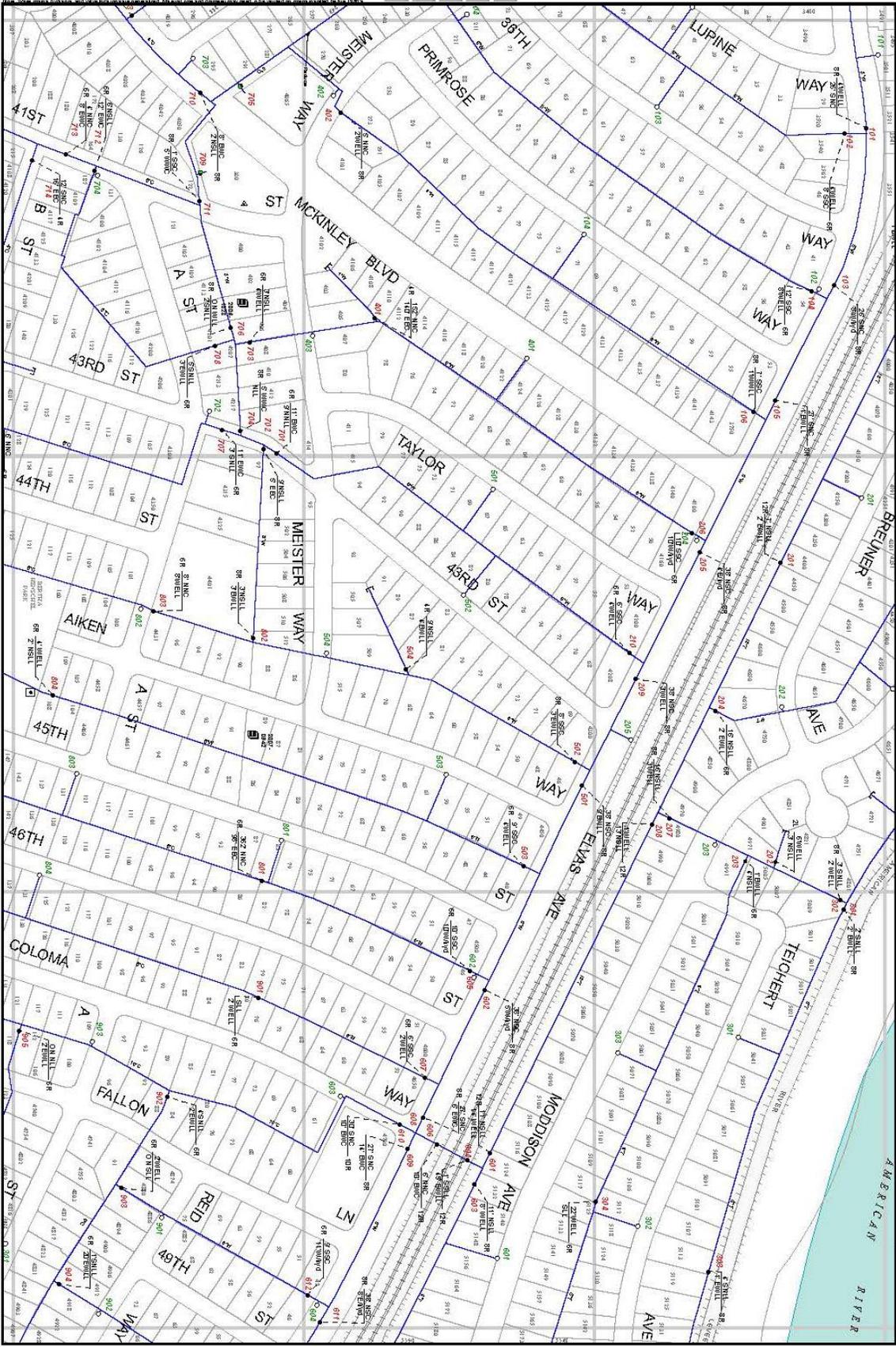
VALVES								
New ID	Old ID	Old Map	Size/Open	Type	Turns	SVC Type	Location	SVC Address
101	154	8	2B0	BLV/LV			12' NSLL 146 33rd St. - 15'WEC 33rd St.	
201	144	8	8R	SVV/LV		FS	FOR 3301 C ST. 11'SNC - 48'WVC 40TH ST.	
202	68	8	6R	GTV/LV			2'WELL 101 San Antonio Wy. - 6' SSC C St.	
301	105	8	4R	GTV/LV			27' SNC Elvas Av. - 22' EEC Fem Ct.	
302	134	8	8R	GTV/LV			14' SNC Elvas Ave - 32' WELL 4041 C St	
303	104	8	8R	GTV/LV			9' SSC Alley (Elvas Av. & Meister Wy.) - 10' EEC C St.	
304	89	8	8R	GTV/LV			17' SNC C St. - 121' EEC Tivoli Wy.	
305	90	8	6R	GTV/LV			1' SSPL C St. - 116' EEPL Tivoli Wy. - 1' NSLL 4088 C St.	
306	143	8	4R	SVV/LV		FS	13'SNC - 13'WEC FOR 4041 C ST.	
307	85	8	8R	GTV/LV			75' WVC Tivoli Wy. - 14' SNC C St.	
308	86	8	6R	GTV/LV			6' SSC C St. - 1' WELL	
309	91	8	6R	GTV/LV			2'EWLL Meister Wy. - 100' WVC Lupine Wy. - 5' NSLL - 3' EWLL 5'NSLL 124	
401	153	8	4R	GTV/LV			17' WEC 33rd St. - 14' SNC B St	
402	135	8	6R	GTV/LV			11'NSC (B & C Sts.) - ON WC 33rd St.	
403	8	8	6R	CLOSED			9' SNPL Alley (B & C) - 11' EEC 33rd St. (closed & buried)	
404	152	8	8R	GTV/LV			5' SNPL of Alley - Bet. C St & B St. and 5' EWC of 33rd St.	
405	9	8	8R	GTV/LV			9' EEC 33rd St. - 17' SNC C Street	
406	10	8	6L	GTV/LV			9' SNPL Alley (C & D) - 2'WVC 33rd St.	
407	11	8	6R	GTV/LV			8' SNPL Alley (C & D) - 6'WEC 33rd St.	
408	24	8	6R	GTV/LV			12'SSC - 2' WELL 3416 C St.	
409	25	8	8R	GTV/LV			14' SNC C St. - 10' WEC 35th St.	
501	128	8	8R	GTV/LV			10' WVC San Antonio Wy. - 16' SNC C St.	
502	59	8	6R	GTV/LV			5' SSC C St. - 4'WELL 3911 C ST.	
503	50	8	6R	GTV/LV			5'WVLL 3930 C ST - 6' SSC C St. - 3' WELL 215 39th St.	
504	35	8	8R	GTV/LV			8' EEC 39th St. - 15' SNC C St.	
505	34	8	6R	GTV/LV			14' EWC 39th St. - 14' SSC C St.	
506	33	8	6R	GTV/LV			6' NNC C St. - 143'WVVC	
507	32	8	8R	SVV/LV		FS	Fire Service - 6' NNC C St. - 196'WVC FOR 3301 C ST.	
508	139	8	6R	GTV/LV			12' SNC D St. - 7' EWC 39th St.	
601	92	8	6R	GTV/LV			2'SNLL 144 - 7'EWLL	
602	93	8	6L	GTV/LV				
603	94	8	6R	GTV/LV			5'EWLL - 4'NSLL 3210	
604	87	8	6R	GTV/LV			5'SSC - 1'WELL 257 36TH ST	
605	89	8	6R	GTV/LV			5'SSC - 1'EWLL 200 40TH ST.	
701	129	8	2	GTV/LV			3' NSPL Alley - 129'WVC 34th St.	
702	26	8	6R	GTV/LV			10'EWLL 3506 D ST. - 10'SNC	
703	36	8	8R	GTV/LV			ON NLL - 6' EEC Santa Ynez Wy. - on NLL & 2' EEPL 397 Santa Ynez Wy.	
705	18	8	3R	GTV/LV			50' SNC McKinley Blvd. - 128' EEC 33rd St.	
706	20	8	6R	GTV/LV			8' NNC McKinley Blvd. - 2' EWLL 460 35th St.	
707			6R	GTV/LV			2' EWLL of 3301 - 10' SNC of McKinley Blvd	
801	51	8	6R	GTV/LV			6'NNC - 4'WELL 275 39TH ST.	
802	52	8	6R	GTV/LV			31'WELL - 14'NSC 275 39TH ST.	
803	53	8	6R	GTV/LV			12'NSC - 28'WELL 275 39TH ST.	
804	39	8	6R	GTV/LV			8'SNC 36th Wy. - 2'WELL 360 36th Wy.	
805	54	8	6R	GTV/LV			4' NNC 37th St. (W) - 5'EEC 39th St.	
901	61	8	6R	GTV/LV			14'NSC - 1'EWLL 274 36TH ST.	
902	60	8	6R	GTV/LV			5'NNC San Miguel Wy. - 3'WVLL 274 36th Wy.	
903	88	8	6R	GTV/LV			12' SNC McKinley Blvd. - ON WLL 4010 MCKINLEY	
904	78	8	6R	GTV/LV			6' SNC McKinley Blvd. - 6' WVLL 3991	
905	79	8	6R	GTV/LV			16' SNC McKinley Blvd. - 10' EWC 40th St.	
906	0	8	4	SVV/LV				
907	70	8	6R	GTV/LV			10'SNC McKinley Blvd. - 2' EWC San Antonio Wy.	
908	71	8	10R	GTV/LV				
909	72	8	6R	GTV/LV				
910	62	8	6R	GTV/LV			23' N & 10' W of Sewer Manhole at San Miguel Wy. & McKinley Blvd.(Gate for HYD.#26)	

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
201	30	8	I	STD	13B-5 1/4E	13' S	16' N	N side C St. at San Antonio Wy.
301	64	8	PS	STD	P55-4H	8' S	11' N	NE Cor C St. & Alley (Elvas Av. & Meister Way)
302	33	8	I	STD	13B-5 1/4E	12'S 6'W	14' N	NS OF C ST. bet 40th St. & Tivoli Wy.
303	62	8	G	STD	G6-4 1/2H	115' E	118' W	E side Lupine Wy. - 2' SNLL 43 Lupine Wy.
304	72	8	G	STD	G6-4 1/2H	8' N	11' S	E side Meister Wy. - 5' EWLL 129 Meister Wy.
401	6	8	C	STD	C7B-5E	10' S & 3' W	11' N	NW Cor 33rd & Alley (B & C) IN MH
402	9	8	K	STD	K8-5 1/4H	14' S	21' N	(HYD REPL. 2010) N side C St. bet 34th & 35th Sts.
403	7	8	C	STD	C7B-5E	8' S	17' N	NW Cor 33rd & Alley (C & D) IN MH
501	31	8	I	STD	I1B-4 1/4E	110' E	114' W	1'NSLL E. SIDE OF SAN ANTONIO WAY
502	13	8	I	STD	13B-5 1/4E	12' S	16' N	N side C St. at 39th St.
503	24	8	I	STD	I1B-4 1/4E	130' NE	132' SW	N side San Miguel Wy. - 3' EWLL 231 San Miguel Way
601	41	8	I	STD	I1B-4 1/4E	115' E	118' W	2'SNLL E SIDE OF TIVOLI WAY.
602	34	8	I	STD	I1B-5 1/4E	111' E	114' W	1'SNLL E SIDE OF 40TH ST.
603	42	8	I	STD	I1B-4 1/4E	4' E	5' W	N SIDE OF 36TH WAY
604	73	8	G	STD	G6-4 1/2H	10' S	13' N	E side Meister - Front of 211 Meister Wy
701	67	8	I	STD	13B-5 1/4E	No Gate	150' W	E side 34th St. - SLL 375 34th St.
702	10	8	I	STD	13B-5 1/4E	No Gate	3' NE	S side D St. bet 35th & 39th Sts.
703	11	8	M	STD	M8-5 1/4H	8' E	19' W	
704	68	8	AD	STD	AD8-5 1/4H	4'S	7'S	NW Cor 34th St. & McKinley Blvd.
801	25	8	I	STD	I1B-4 1/4E	20' S	22' N	W Cor San Miguel Wy. & 36th Wy. NWCOR.
802	14	8	C	STD	C7B-5E	12' N	30' S	S Cor Santa Ynez Wy & 39th St. SWCOR
803	15	8	C	STD	C7B-5E	8' S	14' N	N side 36th Wy. - WLL 350 36th Wy.
804	20	8	C	STD	C7B-5E	14' N	33' S	S Cor 39th St. & 37th St. SWCOR.
901	36	8	I	STD	I1B-4 1/4E	115' W	117' E	N SIDE OF TIVOLI 3'NSLL 248
902	35	8	M	STD	M6-5 1/4H	115' W	117' E	NLL W SIDE OF 40TH ST.
903	32	8	I	STD	I1B-4 1/4E	110' W	117' E	W SIDE OF SAN ANTONIO WAY 1'NSLL
904	37	8	I	STD	I1B-4 1/4E	3' W	5' E	N side McKinley - 3' NSLL 3991 McKinley Blvd.
905	26	8	I	STD	13B-5 1/4E	16' S		N side McKinley Blvd. & San Miguel Wy.

CC18



- HYDRANT MAP LINES
- RIER
- WATER
- SEWER
- STORM
- TRUNK
- BRANCH
- VALVE
- HYDRANT
- WATER
- SEWER
- STORM
- TRUNK
- BRANCH
- VALVE
- HYDRANT



CC19

WATER MAP 2012

CITY OF SACRAMENTO

CC18 BB19 DT18 CC20

CC19

VALVES								
NewID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	106	8	8R	GTVLV			26' SNC Elvas Av. - 4'WELL 3524	
102	107	8	6R	GTVLV			8' SSC Elvas Av. - 4'WELL 3526	
103	108	8	8R	GTVLV			26' SNC Elvas Av. - 8'W OF HYDRANT 102	
104	109	8	6R	GTVLV			12' SSC Elvas Av. - 8'WELL #41	
105	110	8	8R	GTVLV			27' SNC Elvas Av. - 1'EWLL 3750	
106	111	8	6R	GTVLV			7' SSC Elvas Av. - 1'WWLL 3750	
201	12	4	12R	GTVLV			7' NSLL & 2' EWLL 4400 Breuner Av.	
202	33	5	2L	GTVLV			5'WELL 4821 - 3' NSLL & 8' WELL 4821 Breuner Av.	
203	34	5	6R	GTVLV			1'EWLL - 4'NSLL 5005	
204	13	4	6R	GTVLV			16' NSLL & 2' EWLL 4800 Moddison Av.	
205	113	8	8R	GTVLV			38' NSC Elvas Av. - 4'E OF HYDRANT 204	
206	112	8	6R	GTVLV			10' SSC Elvas Av. - 10'W OF HYDRANT 204	
207	35	5	8R	GTVLV			16'NSLL - 3'WELL 4970	
208	36	5	12R	GTVLV			1'WELL - 13'NSLL 4970	
209	115	8	6R	GTVLV			38' NSC Elvas Av. - 3'WELL 4204	
210	114	8	6R	GTVLV			5' SSC Elvas Av. - 4'WELL 4204	
301	24	5	8R	GTVLV			4' SNLL-2' EWLL 5009 Teichert Av.	
302	25	5	8R	GTVLV			7' SNLL-2' WELL 4801 Breuner Av.	
303	26	5	8R	GTVLV			4' SNLL-1' EWLL 5113 Teichert Av.	
304	32	5	6R	GTVLV			22'WELL 5112 - SLL & 23' WELL 5112 Teichert Av.	
401	116	8	4R	GTVLV			152' NNC Meister Wy. - 140' EEC McKinley Blvd. - 14' SNLL - 2' WELL 4110 McKinley	
402	95	8	8R	GTVLV			5' NNC Meister Wy. - 2'WELL 271	
501	2	7	8R	GTVLV			38' NSC Elvas Av. - 9'EWLL 4440	
502	1	7	8R	GTVLV			8' SSC Elvas Av. - 3'EWLL #4440	
503	35	7	6R	GTVLV			9' SSC Elvas Av. - 4'WELL #4450	
504	3	7	4R	GTVLV			9'NSLL - 4'EWLL #68	
601	37	5	12R	GTVLV			11' NSLL & 14'WELL 5124 Moddison Av.	
602	36	7	8R	GTVLV			38' NSC Elvas Av. - 5'E OF HYDRANT 602	
603	38	5	8R	GTVLV			11' NSLL - 8' WELL 5124 Moddison Av.	
604	45	5	12R	GTVLV			1' SSSL-45' EWLL 5124 Moddison Av.	
605	37	7	6R	GTVLV			10' SSC Elvas Av. - 10'W OF HYDRANT 602	
606	40	7	12R	GTVLV			8' NNC Elvas Av. - 10' EWC Coloma Wy.	
607	38	7	6R	GTVLV			8' SSC Elvas Av. - 2'WELL 4600	
608	56	7	8R	GTVLV			27' SNC Elvas Av. - 6' EWC Coloma Wy.	
609	57	7	8R	GTVLV			27' SNC Elvas Av. - 14' EWC Coloma Wy.	
610	58	7	10R	GTVLV			30' SNC Elvas Av. - 10' EWC Coloma Wy.	
611	59	7	8R	GTVLV			38' NSC Elvas Av. - 8'E OF HYDRANT 604	
612	60	7	6R	GTVLV			9' SSC Elvas Av. - 11'W OF HYDRANT 604	
701	120	8	6R	GTVLV			11' EWC 43rd St. - 9' NSLL 97 43rd St.	
702	4	7	8R	GTVLV			9'NSLL #95 - 5' EEC 43rd St. - 7' NSLL 95 43rd St.	
703	117	8	6R	GTVLV			3'NSLL - 4'WELL 406	
704	121	8	8R	GTVLV			5' WWC 43rd St. - on NLL 4217 A St.	
705	146	8	6R	SVVLV		FS	103' WWC McKinley Blvd. - 7' NSPL Alley - to 4055 McKinley Blvd.	4065 McKinley Blvd
706	118	8	6R	GTVLV			ON WLL - 2'SNLL 4207	
707	122	8	6R	GTVLV			11' EWC 43rd St. - 3' SNLL 4217 A St.	
708	119	8	6R	GTVLV			5'SNLL - 3'EWLL 4207	
709	145	8	6R	SVVLV		DS	Domestic Service - 5'NNPL Alley 28'WWC - 16' WWC 41st St.	
710	96	8	8R	GTVLV			8' EWC McKinley Blvd. - 2'NSLL 4055	
711	97	8	8R	GTVLV			1' SSC Alley (Meister Wy & A St.) - 5' WWC 41st St.	
712	98	8	6R	GTVLV			5'NSLL 131 - 12' EWC 41st St.	
713	99	8	6R	GTVLV			4' NNC B St. - 8' EWC 41st St.	
714	100	8	4R	GTVLV			12' SNC B St. - 16' EEC 41st St.	
801	39	7	6R	GTVLV			362' NNC A St. (W) - 98' EEC 49th St. (2' G.F.H. Tee) 1' SNLL - 4' WELL 93 45th St.	
802	5	7	8R	GTVLV			3'NSLL - 3'EWLL #88	
803	167	7	6R	GTVLV			8' NNC A St. - 8'WELL 4431	
804	181	7	6R	GTVLV			4' WELL - 2' NSLL 109 Aiken Wy.	
901	170	7	6R	GTVLV			On SLL - 2' WELL 87 48th St. (BURIED)	
902	63	7	6R	GTVLV			4'SNLL - 2'EWLL #88	
903	64	7	6R	GTVLV			2'WELL - ON SLL 4880	
904	65	7	6R	GTVLV			1'SNLL - 20'EWLL 4831 A ST.	
905	71	7	6R	GTVLV			ON NLL 112 - 2'EWLL	

HYDRANTS								
NewID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
101	63	8	I	STD	I18-4 1/4E	30' S	34' N	N side Elvas Av. bet Fern Ct. & Lupine Wy - 2'EWLL 3501
102	60	8	G	STD	G6-4 1/2H	8' E	11' W	S side Elvas Av. bet 36th Wy. & Primrose Wy.
103	61	8	G	STD	G6-4 1/2H	120' W & 6' SNLL	103 36th Wy)	W side 36th Wy. - 5' SNLL 60 36th Wy.
104	59	8	G	STD	G6-4 1/2H	115'E Wy.	118' W	E side Primrose Wy. - NLL 73 Primrose Wy.
201	5	4	G	STD	G6-4 1/2H	84' S	87' N	S side Breuner Av. - 11' NSLL - 2' WELL 4150 Breuner Av.
202	6	4	G	STD	G6-4 1/2H	2' E	6' W	3' WELL 4670 Breuner Av. - Back of Sidewalk
203	22	5	G	STD	G6-4 1/2H	3' W	5' E	1' EWLL 4991 Moddison Av. - Back of sidewalk
204	65	8	G	STD	G6-4 1/2H	6' W	10' E	S side Elvas Av. - 10' EWLL 4150 Elvas Av.
205	66	8	M	STD	M8-5 1/4H	26' S	30' N	(HYD REPL. 2010) N side Elvas Av. at 43rd St.
301	14	5	G	STD	G6-4 1/2H	94' N	97' S	1' WELL 5031 Teichert Av. - Back of sidewalk
302	15	5	G	STD	G6-4 1/2H	104' S	106' N	3' WELL 5112 Teichert Av. - Back of sidewalk
303	21	5	G	STD	G6-4 1/2H	102' N	105' S	1' WELL 5061 Moddison Av. - Back of sidewalk
401	58	8	PS	STD	PS1B-4E	132' E	136' W	E side McKinley Blvd. - 2' SNLL 4120 McKinley Blvd.
402	44	8	PS	STD	PS1B-4E	16' W	20' E	S side Meister Wy. bet Primrose Wy. & McKinley Blvd.
403	55	8	C	STD	C7B-5E	8' W	12' E	N side Meister Wy. - 8' EWLL 407 Meister Wy.
501	57	8	G	STD	G6-4 1/2H	111' E	115' W	E side Taylor Wy. - NLL 69 Taylor Wy.
502	56	8	PS	STD	PS1B-4E	119' W	123' E	W side 43rd St. - NLL 82 43rd St.
503	2	7	PS	STD	PS1B-4E	105' E (51 Aiken	109' W	E side Aiken Wy. - SLL 51 Aiken Wy.
504	1	7	PS	STD	PS1B-4E	7' E	11' W	N side Meister Wy. - 5' WELL 509 Meister Wy.
601	20	5	G	STD	G6-4 1/2H	119' S	121' N	ELL 5156 Moddison Av. - Back of sidewalk
602	3	7	PS	STD	PS1B-4E	6' W	10.5' E	S side Elvas Av. - 8' EWLL 4550 Elvas Av.
603	5	7	I	STD		12' N	16' S	Alley S of Elvas Av. - NLL 61 Coloma Wy.

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
604	7	7	PS	STD	PS1B-4E	8' W	12' E	S side Elvas Av. bet Fallon Ln. & 49th St.
702	54	8	I	STD	I1B-4 1/4E	15' E	16' W	NW Cor 43rd & A Sts
703	43	8	I	STD	I1B-4 1/4E	22' E	24' W	NWC Tivoli Wy. & McKinley Blvd.
704	45	8	I	STD	I1B-4 1/4E	2' S	5' N	E side 41st St. - 10' NSLL 131 41st St.
801	4	7	I	STD	I1B-4 1/4E	95' E (93 45th St)	99' W	E side 45th St. - 3' NSLL 93 45th St.
802	13	7	K	STD	K3-4 1/2H	4' W	5' E	S side A St. 115' WWC Aiken Wy.
803	14	7	I	STD	I1B-4 1/4E	95' E (121 45th St)	99' W	E side 45th St. - NLL 131 45th St.
804	15	7	I	STD	I1B-4 1/4E	100' E (127 46th St)	103' W	E side 46th St. - 3' NSLL 125 46th St.
901	8	7	PS	STD	PS1B-4E	13' W	17' E	S side Reid Wy. - 13' EWLL 4886 Reid Wy.
902	9	7	PS	STD	PS1B-4E	8' W	12' E	S side Reid Wy. - 8' EWLL 4918 Reid Wy.
903	6	7	I	STD	I1B-4 1/4E	2' E	5' W	S side A St. bet Coloma Wy & Fallon Ln.

CC19

VALVES									
New ID	Old ID	Old Map	Size	Open	Type	Turns	SVC Type	Location	SVC Address
101	21	8	8R		GTVLV			9' SNC McKinley Blvd. - 6' EWLL 460 35th St.	
102	22	8	6R		GTVLV			17' SSC McKinley Blvd. - 66' WWC 35th St. (IN METER BOX)	
103	27	8	6R		GTVLV			3"WELL - 9'NNC 481 35TH ST	
104	28	8	6R		GTVLV			9'SSC - 2"WELL 501 35TH ST	
105	37	8	6R		GTVLV			7'ECC McKinley Blvd. - 3'SNC Santa Ynez Way.	
106	38	8	6R		GTVLV			8' NNC McKinley Blvd. - 112' WWC 30th St. - 2' EWLL 3563 McKinley Blvd	
107	137	8	8R		GTVLV			1' SSC - 5' EWLL 3578 McKinley Blvd.	
108	23	8	6L		GTVLV			8'SSC - 1"WELL 569 34TH ST.	
109	29	8	6R		GTVLV			14'SNLL 545 - 16' EWC Santa Ynez Wy.	
110	42	8	6R		GTVLV			5'NSLL 528 - 14' EWC 30th St - 6' NSLL 529 30th St.	
111	31	8	6R		GTVLV			8' SSC Parkway - 10"WELL 569 35TH ST.	
202	58	8	6R		GTVLV			4' SNC McKinley Blvd. - 12' WEC of 38th St.	
203	48	8	6R		GTVLV			1' NNPL McKinley Blvd. - 5' EWLL 3749 McKinley Blvd. - (BURIED)	
204	49	8	15R		GTVLV			10' SNPL McKinley Blvd. - 5' EWLL 3841 McKinley Blvd.	
205	40	8	6R		GTVLV			2' NNC McKinley Blvd. - 6' EWC 36th Wy.	
206	43	0	6R		GTVLV			5' NNC McKinley Blvd. - 6' EWC 37th St. (N)	
207	148	8	6R		GTVLV			4' SNC McKinley Blvd. - ON EC 38th St.	
208	41	8	15R		GTVLV			3' NSC McKinley Blvd. - 1' EEC 38th St.	
209	138	8	6R		GTVLV			14' EWC 36th St. - 5' SSC McKinley Blvd.	
210	44	8	6R		GTVLV			8' SNC McKinley Blvd. (E) - 8' EWC 37th St. (S)	
211	48	8	6R		GTVLV			4' EWC 38th St. - 44' NSLL 503 38th St.	
212	45	8	6R		GTVLV			18'NSLL 550 - 7' EWC 37th St - 18' NSLL 550 37th St.	
301	63	8	6R		GTVLV			15'SNC McKinley Blvd. - 24' WEC San Miguel Wy.	
302	57	8	10R		GTVLV			20' NNPL McKinley Blvd. - 7' WEPL 39th St. (N)	
303	58	8	6R		GTVLV			14' WEC 39th St. - 9'EWC D ST.	
304	64	8	6R		GTVLV			4' NNPL D St. - 10' WEC San Miguel Wy.	
306	66	8	15R		GTVLV			1' SSC D St. - 12' EEC San Miguel Wy.	
307	73	8	6R		GTVLV			4' NNPL D St. (W) - 8' EWC San Antonio Wy.	
308	74	8	6R		GTVLV			9' NSC D St. - 4' WWC San Antonio Wy.	
309	75	8	6R		GTVLV			8' SSC D St. - 8' EWC San Antonio Wy.	
310	81	8	6R		GTVLV			NC D St. - 6' EWC 40th St.	
311	82	8	6R		GTVLV			10'SNC D St. - 10'EWC 40TH ST.	
401	75	15	6R		GTVLV			4' EWPL of 3501 H St. - 18' NNC of H St	
402	74	15	6R		GTVLV			8' SNC H St. - 5'WWC	
403	78	15	6R		GTVLV			1' NNC H St. - 5' EWC Santa Ynez Wy. (N)	
404	77	15	6R		GTVLV			15'SSC H St. - 7' EWC Santa Ynez Wy. (S)	
405			6CL		GTVLV			(CLOSED)	
501	47	8	6R		GTVLV			17' WEC 35th St. - 3' NSLL 597 39th St. 597	
502	67	8	6R		GTVLV			12' NNC F St. - 17' WEC San Miguel Wy.	
601	83	8	4R		GTVLV			21' NNC E St. (W) - 9' EWC 40th St.	
602	78	8	4R		GTVLV			7' SNC E St. - 12' EWC San Antonio Wy.	
603	84	8	6R		GTVLV			16' NNC E St. - 13' EWC 40th St.	
604	77	8	6R		GTVLV			7'NNC F St. - 8' EWC San Antonio Wy.	
605	103	8	6R		GTVLV			5'SSC F St. - 7'EWC 41st St.	
701	89	15	6R		GTVLV			1' NNC H St. - 9' EWC 38th St. (N)	
702	88	15	6R		GTVLV			10' SNC - 6'EWC	
703	90	15	6R		GTVLV			12' NNC H St. - 6' EWC 37th St. (N)	
704	25	15	6R		SVLVL	DS/F/S		Fire & Dom Svcs. - 7' SNC H St. - 44' EEC 3/7th St. (3/00 H St.)	3/00 H St
705	109	15	8L		GTVLV			8' SNPL 2025 West El Camino Av - 7' WW wall Bldg G 2035 West El Camino Av	
706	195	15	6		GTVLV			6' SNC I St. - 7' EWC 36th St.	
707	196	15	4R		SVLVL	DS		Domestic Service - 2'EWLL - 3'SNC FOR 3624-3650 H ST.	
708	78	15	6R		GTVLV			NPL Alley (I & J) - 5' EWC Santa Ynez Wy.	
709	79	15	6R		GTVLV			6' EWC 38th St. - 7' NSLL 934-38th St.	
710	162	15	6R		SVLVL	FS		14' NSLL 917 - 38th St. - 8' EWC 38th St.	916 38th St
801	110	15	8R		GTVLV			14'NNC H St. - 6' EWC 38th St. (N)	
802	250	15	6R		GTVLV			9' SNC H St. - 9' EEC 38th St.	
803	251	15	6R		GTVLV			13' NNC H St. - 3' EEC 38th St (N)	
804	112	15	6R		GTVLV			27'WWC - 5'NNC 39th St. (N)	
805	252	15	6R		GTVLV			13' NSC H St. - 27'WWC (S)	
806	253	15	6R		GTVLV			12' NSC H St. - 21' WEC 39th St (S)	
808	255	15	6R		GTVLV			12' EWC San Miguel Way - 7' NSC H St	
809	256	15	6R		GTVLV			13' EWC San Miguel Way - 8' NSC H St	
810	257	15	6R		GTVLV			4' EWC San Antonio Way - 7' NSC H St	
811	258	15	6R		GTVLV			5' EWC San Antonio Way - 6' NSC H St	
813			6R		GTVLV				
814			6R		GTVLV				
815			6R		SVLVL	FS		38' EELL of 3810 H St - 12' NSC of H St	
816			6R		SVLVL			28' WEC of 39th St - 11' NSC of H St	
817			12R		GTVLV			11' NSC of H St - 26' WEC of 39th St	
818			8R		SVLVL			12' EWC of 39th St - 60' SSC H St	
819			6R		SVLVL			12' EWC of 39th St - 14' NSPL	
820			6R		SVLVL			12' EWC of 39th St - 6' NSPL	
901	29	7	8R		GTVLV			9' SNPL alley (G & H) - 9' EEC 42nd St.	
902	180	15	10R		GTVLV			13' EWC - 2'SSPL 724 - 42nd St.	
903	138	15	6R		GTVLV			1' NNC H St. - 9' EWC 40th St. (N)	
904	259	15	6R		GTVLV			6' NSC H St. - 12' WWC 40th St	
905	261	15	6R		GTVLV			8' NSC H St. - 10' EWC 40th St	
906	260	15	6R		GTVLV			6' NSC H St. - 11' WWC 40th St	
907	202	15	6R		SVLVL	FS		Fire Service - 12'SSC - 12'WWC 40th St (Children's Hospital)	

HYDRANTS									
New ID	Old ID	Old Map	Make	Typs	Pic Code	Valve Distance	Main Distance	Location	
101	69	8	AD	S'D		5'S		13' N	NE Cor 35th St. & McKinley Blvd.
201	16	8	K	S'D	K11-5 1/4H	4' E		15' W	NW Cor 36th Wy. & McKinley Blvd.
202	21	8	C	S'D	C7B-5E	15' NE-7'N		16' W	SW Cor 38th St. & McKinley Blvd.
203	18	8	C	S'D	C7B-5E	8' N		10' W	SW Cor 37th St. & McKinley Blvd.
204	23	8	C	S'D	C4B-4E	9' E		17' W	W side 39th St. - 3' NSLL 448 39th St.

DD18

HYDRANTS								
New ID	Old ID	Old Mat	Make	Type	Pic Code	Valve Distance	Main Distance	Location
301	27	8	I	STD	13B-5 1/4E	22' N & 1' E	22' S	SW Cor D St. & San Miguel Wy.
302	36	8	C	STD	C7B-5E	9'S	11' N	NE Cor 40th St. & D St.
303	47	8	C	STD	C7B-5E	14' N	18' S	SW Cor 41st & D Sts.
401	12	8	I	STD	13B-5 1/4E	12' E & 8' N	16' W	W side Santa Ynez Wy. - 2' NSLL 600 Santa Ynez Wy
402	17	8	I	STD	13B-5 1/4E	4' E	13' W	W side 35th St. - 2' NSLL 600 39th St.
403	20	15	I	STD	I2B-5 1/4E	6' E	12' W	E side 35th St. - N.L. 641 35th St
501	19	8	I	STD	I1B-4 1/4E	4' E	8' W	W side 37th St. at F St
502	22	8	C	STD	C7B-5E	3' E	8' W	NW Cor 38th St. & F St
503	71	8	C	STD	C7B-5E	4' E	13 8' W	W side 39th St. - SLL 662 39th St.
901	39	8	C	STD	C8B-5F	4' E	14' W	NW Cor 40th St. & E St
902	70	8	I	STD	13B-5 1/4E	7' E	10' W	W side San Antonio Wy. - SLL 532 San Antonio Wy.
903	28	8	I	STD	I1B-4 1/4E	16' W	19' E	NE Cor F St. & San Miguel Wy.
904	48	8	C	STD	C7B-5E	4' E	9' W	W side 41st - NLL 600 41st St
905	40	8	C	STD	C7B-5E	4' E	12' W	W side 40th St. - SLL 610 40th St.
701	39	15	C	STD	C7B-5E	4' S	6' N	NW Cor 38th & H Sts
702	103	15	I	STD	I4-4 1/4-1/2H	6' S	6' N	5'EWLL 3924 H St.
703	38	15	I	STD	I2B-4 1/4E	5' E	18' W	SW Cor 38th & I Sts
801	48	15	C	STD	C7B-5E	4' S	7' N	NW Cor 38th & H Sts
902	63	15	C	STD	C8B-5F	4' E	15' W	NW Cor 38th & H Sts
803	64	15	C	STD	C7B-5E	4' E	6' W	NW Cor San Miguel Wy & H St
804	107	15	AD	STD	AD4-6H	9' N	10' S	4' SSC H St - 70' WWWC San Antonio Way
905			UNK	STD				(6" valve is 25' EELL of 3610 H St - 12' NSC)
906				PRIV				(valve location: 38' EELL of 3610 H St - 12' NSC of H St)
902	29	8	I	STD	13B-5 1/4E	No Gate	10' W	W side San Antonio Wy. - NLL 700 San Antonio Wy.
903	50	8	C	STD	C7B-5E	4' E	12' W	W side 42nd St. - 5' SNLL 650 42nd St
904	49	8	M	STD	I6-5 1/4H	11' E, 3' N	13' W	W side 41st St. - 5' NSLL 700 41st St.
905	65	15	AD	STD	AD4-6H	26' S	30' N	18' WWWC 40th St. - 2' NNC H St.
906	83	15	M	STD	I6-5 1/4H	4' E & 3' S	8' W	NW Cor 41st & H Sts

DD18

VALVES								
NewID	Old ID	Old Map	SizeOpen	Type	Turns	SVC Type	Location	SVC Address
101	6	7	6R	GTVLV			8' NNC B St. - 2'WELL 4301 43RD ST.	
102	123	8	4R	GTVLV			12' SNC B St. - 3'EWC 43rd St.	
103	124	8	6R	GTVLV			2' NNC C St. - 8' EWC 43rd St.	
104	11	7	6R	GTVLV			11' NNC C St. - 10' EWC 44th St.	
105	11	7	6R	GTVLV			9'WWC C St. - 10' SNC 44th St.	
106	101	8	6R	GTVLV			9' NNC D St. - 10' EWC 41st St.	
107	102	8	6R	GTVLV			2' EWC D St. - 15' SNC 41st St.	
108	125	8	6R	GTVLV			12' WWC 42nd St. - 22' SNC D St.	
109	14	7	8R	GTVLV			5' SNC D St. - 9' EEC 42nd St.	
201	8	7	6R	GTVLV			5'WELL B St. - ON SLL	
202	7	7	6R	GTVLV			8' SNC B St. - 7' EWC La Purissima Way. - 1'WELL 133 44th St.	
203	9	7	6R	GTVLV			12' SNC B St. - 14' EWC La Purissima Wy. - 1'WELL 133 44th St.	
204	182	7	6R	GTVLV			88' WWC 45th St. - 5' NNPL alley	
205	42	7	6R	GTVLV			4'EWLL - 12'NSLL 4548	
206	43	7	6R	GTVLV			2'WELL - 13'NSLL 4630	
207	13	7	6R	GTVLV			4'NSLL 201 - 19'WEC La Purissima Wy.	
208	12	7	6R	GTVLV			9' SNC C St. (W) - 5'WWC La Purissima Wy. - 5' WWC La Purissima Wy.	
301	73	7	10L	GTVLV			2'SNLL 148 Fallon Ln. - 3'EWLL	
302	75	7	8R	GTVLV			13'NNPL - 8' EWC Coloma Wy. (N)	
303	41	7	6R	GTVLV			3' SNPL alley (B & Brand) - 2' EWC Coloma Wy. (N)	
304	76	7	8R	GTVLV			SP. alley (B & Brand) - 1' WWC Coloma Wy. (N)	
401	16	7	8R	GTVLV			9' NSC D St. - 7' EWC La Purissima Wy.	
402	15	7	18R	GTVLV			1' SSC D St. - 4' WWC La Purissima Wy.	
403	17	7	6R	GTVLV			9'EWC D St. - 5'SSC La Purissima Wy. - 5' SSC D St. - 8' EWC La Purissima Wy.	
404	19	7	6R	GTVLV			4' SNC E St. - 9' EEC 42nd St.	
405	127	8	10R	GTVLV			5' NNC F St. - 12' EWC 42nd St.	
406	20	7	6R	GTVLV			13' SNC F St. - 9' EEC 42nd St.	
501	44	7	6R	GTVLV			2' NSLL - 5' WWC 230 Coloma Way	
502	78	7	6R	GTVLV			1' NSLL - 12' EWC 200 Coloma Wy.	
503	45	7	6R	GTVLV			7' NNC D St. (N) - 8' EWC 45th St.	
504	18	7	6R	GTVLV			8'SSC - 3'FEEL 4444	
505	46	7	18R	GTVLV			11' SNC D St. - 1' WWLL 4517 D St.	
506	47	7	10R	GTVLV			8' SNC D St. - 7' EWLL 4525 D St.	
507	89	7	6R	GTVLV			9'NSLL 301 - 5'WWC	
508	48	7	8R	GTVLV			5' SSPL D St. - 2' WELL 4508	
509	86	7	6R	GTVLV			5'EEC - 5'NSLL 301	
510	184	7	6R	GTVLV			5' SNC D St. - 14' EWC Coloma Wy.	
511	50	7	6R	GTVLV			10'SNC - 23'EWLL 4621	
512	49	7	10R	GTVLV			10' SNC D St. - 20' WWC Coloma Wy. (N)	
513	87	7	8R	GTVLV			8'SNC - 1'WEC	
514	88	7	4R	GTVLV			5'SSC - 2'FEEL 4700 D St.	
515	51	7	4R	GTVLV			1'SNLL - 3'EWLL 450 COLOMA WAY	
901	79	7	6R	GTVLV			2' NSLL - 8' EWLL 4630 B St.	
902	90	7	6R	GTVLV			5' SSC D St. - 1' EWLL 400 Pala Wy.	
701	27	7	4R	GTVLV			10' SNPL alley (F & G) - 8' EEC 42nd St.	
702	21	7	6R	GTVLV			5' NNC F St. - 4' EWC La Purissima Wy.	
703	22	7	6R	GTVLV			5' NNPL F St. - 152' WWC 49th St. - 5' NSLL - 2' WELL 561 La Purissima Wy.	
705	92	7	6R	GTVLV			9' SNPL alley (F & G Sts.) - 7' EWC 44th St.	
706	28	7	4R	GTVLV			11' SNPL alley (F & G) - 8' WWC 45th St.	
707	30	7	8R	GTVLV			8' SNPL alley (G & H) - 9' WWC 44th St.	
801	73	7	6R	GTVLV			15'SNC F St. - 8' WWC 45th St.	
802	24	7	6R	GTVLV			12' SNC F St. - 9' EWC 45th St.	
803	102	7	4R	GTVLV			3' N OF HYDRANT 601 - 5' EEC	
804	26	7	8R	GTVLV			9' NNC F St. - 16'WELL 4510	
805	101	7	6R	GTVLV			8'EWC - 3' N OF HYDRANT 802	
806	25	7	6R	GTVLV			10' SNC F St. - 19'WELL 4510	
907	52	7	6R	GTVLV			1'EWLL - 7'NSLL 561 Pico Wy.	
908	53	7	6R	GTVLV			9' NNC F St. - 2'WELL 991	
909	105	7	6R	GTVLV			2'SNLL - 1'WELL 4643 F St.	
901	91	7	6R	GTVLV			1'SSPL 328 - 3'WWC	
902	94	7	10R	GTVLV			24' NSC 51st St. - 15' E OF HYDRANT 902	
903	93	7	8R	GTVLV			13' NSC 51st St. - 14' E OF HYDRANT 902	
904	186	7	6R	SWALV			Domestic & Fire Service - 12' NSC 51st St. - 54' EELL 5031 D St. - 20' E OF HYD 902	5031 D St.
905	185	7	6R	SWALV		DS/FS	9' WELL - 42' EWLL - 4' SLL 421 Pala Wy. - 145'EWLL PARKING LOT SUTTER HOSP.	421 Pala Way
906	107	7	8R	GTVLV			16' NSC Coloma Wy. - 134' EEC Pala Way	
907	106	7	6R	GTVLV			8' SSC - 2' SSPL Coloma Wy. - 134' EEC Pala Wy.	
908	108	7	24R	GTVLV			16'SNLL 512 - 1'EWC	
909	243	7	4R	GTVLV			9'EWC - 16'SNLL 512	

HYDRANTS								
NewID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
				PRIV				
				PRIV				
101	53	8	C	STD	C7B-5E	12° E	19° W	NW Cor 43rd & B Sts. - 8' SNLL 180 43rd St.
102	46	8	C	S'D	C8B-5F	10° S	8° N	N side C St. - 35' EEC 41st St.
103	25	7	C	S'D	C7B-5E	8° S	15° N	NW Cor 44th St. & C St.
104	36	7	C	S'D	C7B-5E	6° S & 3° E	10° N	N side D St. - 2' EWLL 4201 D St.
201	24	7	M	S'D	M6-5 1/4H	11° E	15° W	SW Cor La Purissima Wy. & B St.
202	23	7	I	STD	HB-4 1/2E	2° W	5° E	S side Brand Wy. - 3' EWLL 4546 Brand Wy.
203	27	7	I	STD	HB-4 1/4E	2° S	5° N	E side 45th St. bet B St. & C St.
204	26	7	C	STD	C7B-5E	15° N & 22° W	34° E	SE Cor La Purissima Wy. & C St.
301	18	7	PS	S'D	PS1B-4F	98° S (4830 A St)	101° N	S side A St. - WLL 4840 A St.
302	16	7	I	STD	HB-4 1/4E	100° E (151 Coloma)	10° W	E side Coloma - SLL 147 Coloma Wy.
303	19	7	PS	S'D	PS1B-4E	100° N	103° S	N side Jerry Wy. - WLL 4841 Jerry Wy.
304	17	7	I	S'D	HB-4 1/4E	2° S	4° N	E side Fallon Ln. bet Jerry Wy & Brand Wy.
305	21	7	I	STD	HB-4 1/4E	114° N 2° NSLL-7	EWLL (4824 Jerry)	N side Brand Wy. - ELL 4817 Brand Wy.
401	37	7	C	S'D	C7B-5E	7° S & 5° W	12° N 86° E	NW Cor D St. & La Purissima Wy.

DD19

HYDRANTS								
New ID	Old ID	Old Map	Make	Type	Pic Code	Valve Distance	Main Distance	Location
402	52	8	C	STD	C7B-5E	4' E	14' W	SW Cor 42nd & E Sts. - SLL 432 42nd St.
403	38	7	C	STD	C3B-5F	4' S	10' N	N side E St. - 1' WELL 4309 E St.
404	51	8	K	STD		4' E	12' W	NW Cor 42nd & F Sts.
501	28	7	I	STD	I1B-4 1/4E	3' N	6' S	E side Coloma Wy. bet B & C Sts.
502	42	7	I	STD	I3B-5 1/4E	122' W (420 45th)	305' E	W side 45th St. - SLL 420 45th St.
503	45	7	I	STD	I3B-5 1/4E	No Gate	3' E	S side of D St. bet 40th St. & Coloma Wy.
504	44	7	I	STD	I3B-5 1/4E	138' W (460 46th)	393' E	W side 46th St. - SLL 460 46th St.
801	30	7	I	STD	I1B-4 1/4E	113' S (4830 B St)	116' N	S side B St. - 1' EWLL 4830 B St.
802	29	7	I	STD	I1B-4 1/4E	116' N (4813 C St)	118' S	N side C St. - 2' EWLL 4813 C St.
903	31	7	I	STD	I1B-4 1/4E	117' N (5026 C St)	120' S	N side C St. - 3' EWLL 5026 C St.
701	39	7	C	STD	C7B-5E	1' N & 1' E	18' N	N side F St. - ELL 4325 F St.
702	41	7	C	STD	C7B-5E	4' E	11' W	NW Cor 45th St. & G St.
703	40	7	C	STD	C7B-5E	4' S	10' N	NW Cor 44 St. bet G & H Sts. at alley
801	43	7	I	STD	I1B-4 1/4E	16' S	20' N	NE Cor 45th St. & F St.
802	49	7	I	STD	I3B-5 1/4E	No Gate	3' S	W side Coloma Wy. bet Pico & Pala Wys.
901	69	7	C	STD	C3B-4D	No Gate	4' W	S side D St. bet Pico Wy. & Pale Wy.
902	78	7	D	STD	DI-4 1/2H	2' W & 4' S	2' E	4' EELL 5028 D St. - S side D St. - SW Cor 51ST ST & D ST.

DD19

APPENDIX B

Notification Letters

Constructing Water Main [Distribute 7 working day prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

The City of Sacramento, Department of Utilities, awarded a construction contract to **(Contractor)** to replace the water distribution main and water services in your neighborhood. A new water main will be constructed in the street and water services will be constructed from the new main to each home. Also, new fire hydrants will be constructed to improve fire protection in your neighborhood.

During the course of construction, on street parking may be temporarily removed to accommodate traffic and construction work. Access to your driveway may be temporarily restricted when construction takes place in front of your house. At the end of each work day, we will backfill the trench, place temporary paving or place steel plates over trench, and open all lanes of traffic to the public. Our work hours are typically between 7 AM to 6 PM.

General public and construction crew safety is of primary concern to us and we encourage you to observe the construction signs. We realize this construction project may be a temporary inconvenience and we will strive to minimize the impacts to the residents.

If you have any questions or problems, please contact any one of the project representatives listed below:

Contractor Superintendent: **Name: Phone Number**

City Inspector: **Name: Phone Number**

City Project Manager: **Name: Phone Number**

Pipeline work is scheduled to begin in your neighborhood on **_____**.

Once the pipeline is constructed, we will return to your street to install the water service to each home, disinfect and pressure test the pipelines and restore paving and landscaping. The anticipated project completion date is **_____**.

Thank you for your cooperation on this very important project.

Constructing Water Main: [Distribute 24 hours prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

The City of Sacramento, Department of Utilities has commenced with the water main replacement project for your neighborhood. A Contractor may need to access your property to collect data to help the city determine pipe size and connection location. The Contractor may need to access your back yard as part of the data collection process. Please provide access to your backyard and make arrangements for any pets that may be a problem. If special arrangements are required, please contact **(Contractor Superintendent)** at **(phone number)** or a project representative listed below.

City Inspector: **Name: Phone Number**

City Project Manager: **Name: Phone Number**

Thank you for your cooperation on this very important project.

Transferring Water Services: [Distribute 7 working day prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

(Contractor) has completed construction of the water main in your neighborhood. The next phase of our work requires connecting your new water service to your house plumbing.

Your water service will be temporary shut-off for a short period of time between the hours of 7:30 AM and 3:30 PM. This work is currently scheduled for _____

We will need access to your backyard to complete this work. Please provide access to your backyard and make arrangements for any pets that may be a problem. If special arrangements are required, please contact (Contractor Superintendent) at (phone number) or a project representative listed below.

City Inspector: Name: Phone Number

City Project Manager: Name: Phone Number

Thank you for your cooperation on this very important project.

Transferring Water Services: [Distribute 24 hours prior to beginning work]

(CITY LETTER HEAD)

Dear Resident,

Your water service will be temporary shut-off tomorrow for a short period of time between the hours of 7:30 AM and 3:30 PM.

We will need access to your backyard to complete this work. Please provide access to your backyard and make arrangements for any pets that may be a problem. If special arrangements are required, please contact (Contractor Superintendent) at (phone number) or a project representative listed below.

City Inspector: Name: Phone Number

City Project Manager: Name: Phone Number

Thank you for your cooperation on this very important project.

APPENDIX C

Traffic Alert Form



TRAFFIC ALERT REQUEST

This request will provide the Department of Transportation (DOT) with the facts it needs to determine whether a traffic alert is needed. A traffic alert is warranted when traffic and/or pedestrian impacts related to construction activities are anticipated.

The alert is sent out to the local news media and to City Council, the City Manager's Office and DOT managers. Issuance of a traffic alert does not relieve the requestor of direct communication with the contiguous or adjacent businesses and residents.

Advance notification is necessary to provide DOT with ample time to consider whether a traffic alert is necessary, draft and obtain approval on copy and provide the news media with sufficient notice to consider running the announcement. Therefore, the traffic alert must be submitted to Linda Tucker, Media and Communication Specialist with DOT, at least ten days prior to scheduled work.

DATE BIDS DUE:

DATE OF AWARD:

WHO (Project Name and PM Name):

WHAT:

WHERE:

WHEN (CONSTRUCTION START AND END DATE):

WHY:

IMPACT:

(Please indicate what roads, or lanes of roads, require closure, the streets between what blocks to be closed and any other impacts anticipated such as dust, noise and heavy equipment.

CONTACT:

The Project manager must ask Renee to add this pre-qualification language to the Sealed Proposal for each project you wish to include it. (Remove from this area of the spec before project goes out to bid.)

To be included in the Sealed Proposal, added to the end of the eighth paragraph after the bid table:

*Eighth paragraph after the bid table, **proposed language bolded:***

The undersigned represents and warrants that he/she has examined the location of the proposed work and is familiar with the conditions at the place where the work is to be done. The undersigned further represents that he/she has reviewed and understands the Plans, Special Provisions, and other contract documents, and the undersigned is satisfied with all conditions for the performance of the work. **Additionally, the undersigned shall include written documentation with the Sealed Proposal of previous satisfactory experience in installation of water main pipeline, in accordance with the following:**

- **The undersigned shall provide documentation for a minimum of three (3) projects of similar size and scope for the placement of water main pipeline performed by the undersigned for a municipality or other public agency within the last five years. The documentation for each project shall describe the work performed, including the size and length of pipeline installed, the contract amount and duration, and the time period of performance, and shall include the name, address and telephone number of the owner agency or municipality. The documentation also shall include the name of a contact person for each owner who is familiar with the work performed. The above documentation shall be included with the Sealed Proposal.**
- **A Sealed Proposal that does not include the above required documentation may be rejected as non-responsive.**

Please note that information included in the above documentation and/or obtained from such other owner agency or municipality or from another source regarding the bidder's performance on another public project also may be used by the City in determining whether the bidder is a responsible bidder.