CITY OF TEMPE, ARIZONA
PUBLIC WORKS DEPARTMENT
DIVISION OF ENGINEERING

JOB ORDER NO. 12 TO CSW CONTRACTORS, INC.
THROUGH EXISTING CONTRACT NO. C2015-240

CITY-WIDE WATER VALVE REPLACMENTS – PHASE 7

PROJECT NO. 3204961K

This **JOB ORDER NO. 12** is entered into on this 3rd day of November, 2016, by and between the **City of Tempe**, an Arizona municipal corporation ("City") and **CSW Contractors, Inc.**, an Arizona corporation ("JOC"), through the existing Contract made and entered into by and between the parties on October 22, 2015, (Contract No. C2015-240), along with that certain Addendum No. 1 entered into on October 28, 2015 and Addendum No. 2 entered into on August 19, 2016 (collectively "Contract").

SECTION 1 – JOB ORDER PRICE AND WORK LOCATION: JOC shall furnish any and all plant, materials, labor, construction equipment, services and transportation (all applicable taxes included) required for performing all work for the construction of City-Wide Water Valve Replacements – Phase 7, (Project No. 3204961K) ("Project") for the sum of Two Hundred Ninety Five Thousand Seventy Five and 31/100 Dollars($295,075.31), as detailed in the Proposal (Exhibit "A") attached hereto and incorporated herein by this reference, and to completely and totally construct the same and install the materials therein for the Project, in a good and workmanlike and substantial manner and to the satisfaction of City or its properly authorized agents and strictly pursuant to and in conformity with the Specifications and Plans for the Project and other documents that may be requested by City through its Engineer or other properly authorized agents, as provided herein. The full street or physical address of the construction work location ("Work Location") is 570 W. Southern Avenue; 525 W. Southern Avenue; 3125 S. Roosevelt Street; 3120 S. Roosevelt Street; 444 W. Geneva Drive; 3031 S. Roosevelt Street; 405 W. Fairmont Drive; 730

W. Fairmont Drive; 2710 S. Roosevelt Street; 810 W. Geneva Drive; 710 W. Geneva Drive; 600 W. Geneva Drive; 2300 S. Roosevelt Street; 2210 S. Roosevelt Street; 2150 S. Roosevelt Street; 2000 S. Roosevelt Street; 2100 S. Roosevelt Street; 280 W. University Drive and 1744 E. Southern Avenue, Tempe, Arizona. JOC shall list the Work Location in any subcontract related to this job order at any level and each subcontractor shall likewise include the Work Location in any of its subcontracts.

SECTION 2 – REQUIRED SUBMITTALS: JOC shall submit the completed forms referenced in the Forms Appendix (Exhibit "B") attached hereto to City for approval prior to receipt of a Notice to Proceed issued by City for the Project.

SECTION 3 – AMENDMENT: City of Tempe Contract No. C2015-240, as amended on November 3, 2016, the terms and conditions contained therein and all exhibits attached to the Contract and to this Job Order No. 12, are by reference incorporated into this Job Order No. 12. All provisions of the underlying Contract where not inconsistent with this Job Order No. 12 shall remain binding on the parties.

SECTION 4 – JOB ORDER TERM: Work shall start as soon as practicable, and in no case later than seven (7) calendar days after the Notice to Proceed is issued by City, and shall be completed within one hundred (100) calendar days thereafter.

[SIGNATURE PAGE TO FOLLOW]

City-Wide Water Valve Replacements – Phase 7
Project No. 3204961K

DATED this _____ day of _____, 2016.

CITY OF TEMPE, ARIZONA

By:_____
Mark W. Mitchell, Mayor

By:_____
Public Works Director

ATTEST:

Recommended by:

_____
Brigitta M. Kuiper, City Clerk

_____
Deputy PW Director/Interim City Engineer

APPROVED AS TO FORM:

_____
Judith R. Baumann, City Attorney

JOC warrants that the person who is signing this Job Order on behalf of the JOC is authorized to do so and to execute all other documents necessary to carry out the terms of this Job Order.

CSW CONTRACTORS, INC.

By:_____
Signature

_____
Printed Name

Its:_____
Title

_____
Federal I.D. No./Social Security No.

CSW
CONTRACTORS, INC.

September 21, 2016

EXHIBIT A

City of Tempe
Engineering Division
Attention: Barrett Jurgemeyer, P.E.
31 East Fifth Street
Tempe, Arizona 85281

Re: Tempe JOC City Wide Small Valve and Fire Hydrant Replacement Package #07 Rev.1

Dear Mr. Jurgemeyer:

Enclosed for your review and consideration is our bid proposal for the replacement of the following valves and fire hydrants identified by the City to be replaced:

Tempe ID #		
SE28N4VL0044	SE28N4VL0013	NE28N4FH0010
NE33N4VL0006	SE28N4VL0012	NE28N4FH0009
SE28N4VL0027	SE28N4VL0007	NE28N4FH0008
SE28N4FH0026	SE28N4FH0018	NE28N4FH0007
SE28N4VL0026	SE28N4FH0019	SE16N4VL0068
SE28N4FH0021	SE28N4FH0020	SW15N4VL0093
SE28N4VL0031	NE28N4FH0016	

Also enclosed are the corresponding GIS maps for these valve locations. As service laterals are not indicated on these maps, nor all the valves that must be closed for the shutdowns, we anticipate that the City will provide us a list of customers who will be effected with each waterline shutdown. To minimize disruption to the City of Tempe customers, CSW will complete this work during off-peak hours between 8:30am – 3:30pm on weekdays. We understand that this time frame may not be the best time to shut down a waterline in certain areas, therefore, we will be flexible in our schedule to accommodate the City and its residents and businesses. If necessary, we can complete the valve replacements during weekend or evening hours as well. We will also assist the City in distributing door hangers and/or flyers as necessary to alert the customers of the water shutdowns.

Based on the plans, the information above and the scope of work attached, CSW will complete the Tempe JOC City Wide Small Valve and Fire Hydrant Replacement #07 project for the Lump Sum price of $295,075.31.

Should you have any questions, concerns, or comments, feel free to contact me at 602-266-7000.

Sincerely,

Joseph Kilgallen

Joseph Kilgallen
Procurement and Operations Manager

8901 E. Mountain View Road, Ste. 150, Scottsdale, AZ 85258 | TEL: 602-266-7000 | FAX: 602-266-7070 | www.cswcontractors.com
AZ ROC #270136 A

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Project Name:	City Wide Small Valve & Fire Hydrant Replacement	**HD #**	2762
Customer:	City of Tempe	**Date:**	September 21, 2016
Description:	Replace Small Valves & Fire Hydrants	**Invoicing:**	JOA #7 Rev 1

Valve Number	Group	DESCRIPTION	QUANTITY	UM	UNIT COST		TOTAL
SE28N4VL0044	P	12" Gate Valve Replacement	1	Each	$ 14,599.71		$ 14,599.71
NE33N4VL0006	P	12" Gate Valve Replacement	1	Each	$ 14,564.27		$ 14,564.27
SE28N4VL0027	Q	12" Gate Valve Replacement	1	Each	$ 11,851.89		$ 11,851.89
SE28N4FH0026	Q	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 11,038.54		$ 11,038.54
SE28N4VL0026	R	8" Gate Valve Replacement	1	Each	$ 10,551.89		$ 10,551.89
SE28N4FH0021	R	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 11,038.54		$ 11,038.54
SE28N4VL0031	S	12" Gate Valve Replacement	1	Each	$ 13,094.61		$ 13,094.61
SE28N4VL0013	T	12" Gate Valve Replacement	1	Each	$ 14,129.95		$ 14,129.95
SE28N4VL0012	T	12" Gate Valve Replacement	1	Each	$ 14,129.95		$ 14,129.95
SE28N4VL0007	V	12" Gate Valve Replacement	1	Each	$ 15,441.89		$ 15,441.89
SE28N4FH0018	N	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 10,113.58		$ 10,113.58
SE28N4FH0019	N	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 10,113.58		$ 10,113.58
SE28N4FH0020	N	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 10,113.58		$ 10,113.58
NE28N4FH0016	L	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 12,163.54		$ 12,163.54
NE28N4FH0010	L	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 11,138.54		$ 11,138.54
NE28N4FH0009	M	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 10,338.58		$ 10,338.58
NE28N4FH0008	M	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 10,213.58		$ 10,213.58
NE28N4FH0007	M	6" Gate Valve Replacement & Fire Hydrant Installation	1	Each	$ 11,865.58		$ 11,865.58
SE16N4VL0068	Y	12" Gate Valve Replacement	1	Each	$ 16,404.38		$ 16,404.38
SW15N4VL0093	Y	12" Gate Valve Replacement	1	Each	$ 14,752.38		$ 14,752.38
		Fire Watch Allowance	160	Hours	$ 40.48		$ 6,476.80
		Subtotal Construction					**$ 254,135.36**
					Overhead & Profit	8.00%	$ 20,330.83
					General Liability Insurance	1.11%	$ 2,820.90
					Builders Risk Insurance	0.10%	$ 254.14
					Payment & Performance Bond	1.00%	$ 2,775.41
					Subtotal		**$ 280,316.64**
					Sales Tax	5.265%	$ 14,758.67
					Total Job Order Price		**$ 295,075.31**

QUALIFICATIONS:

1. **Group letter refers to the valves / fire hydrants that are planned to be replaced during the same shutdowns combining activities**
2. **Potholing after blue stake included.**
3. **De-watering as necessary included based on a complete line shutdown.**
4. **Bedding and shading to one foot above pipe.**
5. **1/2 Sack Slurry backfill included for valves located in paved roadways.**
6. **All Spoils to be hauled off of site.**
7. **Valve Adjustments included.**
8. **Materials testing is excluded.**
9. **Traffic Control is included.**
10. **Off-Duty police officer included within 300' of signalized intersection.**
11. **Milling for T-Top included.**
12. **6" Asphalt T-Top included.**
13. **Crack Seal Pavement Joints included.**
14. **Pedestrian traffic will be re-routed at signalized intersections for sidewalk closures.**
15. **Temporary pedestrian walkways are excluded**
16. **Concrete sidewalk panel replacement included.**
17. **Asbestos pipe removal and disposal included.**
18. **Fire Hydrants to be supplied by COT and installed by CSW.**
19. **6" Gate Valve will be replaced with each new fire hydrant.**
20. **New fire hydrants will be connected to the existing waterline with a restrained coupling / solid sleeve utilizing the existing tee**

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Cost Breakdown Structure (CBS) Register

CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	ForecastQuantit	UM	UnitCost	Total Cost (Forecast)
7	**JOA #7 (Valves & Fire Hydrants)**	1.00	LS	$254,135.38	$254,135.38
7.1	SE28N4VL0044 - 12" P	1.00	LS	$14,599.71	$14,599.71
7.1.1	Private Locator	1.00	LS	$0.00	$0.00
7.1.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.1.3	Public outreach notifications	1.00	LS	$501.08	$501.08
7.1.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.1.5	Message Boards	2.00	Each	$0.00	$0.00
7.1.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.1.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.1.8	Sawcut	1.00	Each	$249.79	$249.79
7.1.9	Demo Concrete or asphalt	1.00	Each	$245.55	$245.55
7.1.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.1.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.1.12	Pump Water	1.00	LS	$143.92	$143.92
7.1.13	Water Wagon	1.00	LS	$134.90	$134.90
7.1.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.1.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.1.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.1.17	Mill existing asphalt	1.00	LS	$384.00	$384.00
7.1.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94
7.1.19	Truncated domes	1.00	LS	$0.00	$0.00
7.1.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.1.21	Striping	1.00	LS	$0.00	$0.00
7.1.22	Landscaping	1.00	LS	$0.00	$0.00
7.1.23	Mobilization	1.00	LS	$458.59	$458.59
7.1.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.1.25	Portable Toilet	1.00	Each	$150.00	$150.00
7.2	NE33N4VL0006 - 12" P	1.00	LS	$14,564.27	$14,564.27
7.2.1	Private Locator	1.00	LS	$0.00	$0.00
7.2.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.2.3	Public outreach notifications	1.00	LS	$501.08	$501.08
7.2.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,901.62	$2,901.62
7.2.5	Message Boards	2.00	Each	$0.00	$0.00
7.2.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$1,652.00	$1,652.00
7.2.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.2.8	Sawcut	1.00	Each	$0.00	$0.00
7.2.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.2.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10

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2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.2.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.2.12	Pump Water	1.00	LS	$143.92	$143.92
7.2.13	Water Wagon	1.00	LS	$134.90	$134.90
7.2.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.2.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.2.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.2.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.2.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.2.19	Truncated domes	1.00	LS	$0.00	$0.00
7.2.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.2.21	Striping	1.00	LS	$0.00	$0.00
7.2.22	Landscaping	1.00	LS	$100.00	$100.00
7.2.23	Mobilization	1.00	LS	$458.59	$458.59
7.2.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.2.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.3	SE28N4VL0027 - 12" Q	1.00	LS	$11,851.89	$11,851.89
7.3.1	Private Locator	1.00	LS	$0.00	$0.00
7.3.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.3.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.3.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.3.5	Message Boards	2.00	Each	$0.00	$0.00
7.3.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.3.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.3.8	Sawcut	1.00	Each	$0.00	$0.00
7.3.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.3.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.3.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.3.12	Pump Water	1.00	LS	$143.92	$143.92
7.3.13	Water Wagon	1.00	LS	$134.90	$134.90
7.3.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.3.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.3.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.3.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.3.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.3.19	Truncated domes	1.00	LS	$0.00	$0.00
7.3.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.3.21	Striping	1.00	LS	$0.00	$0.00
7.3.22	Landscaping	1.00	LS	$0.00	$0.00

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.3.23	Mobilization	1.00	LS	$458.59	$458.59
7.3.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.3.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.4	SE28N4FH0026 Q	1.00	LS	$11,038.54	$11,038.54
7.4.1	Private Locator	1.00	LS	$0.00	$0.00
7.4.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.4.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.4.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.4.5	Message Boards	2.00	Each	$0.00	$0.00
7.4.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.4.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.4.8	Sawcut	1.00	Each	$0.00	$0.00
7.4.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.4.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.4.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.4.12	Pump Water	1.00	LS	$143.92	$143.92
7.4.13	Water Wagon	1.00	LS	$134.90	$134.90
7.4.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.4.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.4.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.4.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.4.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.4.19	Truncated domes	1.00	LS	$0.00	$0.00
7.4.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.4.21	Striping	1.00	LS	$0.00	$0.00
7.4.22	Landscaping	1.00	LS	$0.00	$0.00
7.4.23	Mobilization	1.00	LS	$458.59	$458.59
7.4.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.4.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.5	SE28N4VL0026 - 8" R	1.00	LS	$10,551.89	$10,551.89
7.5.1	Private Locator	1.00	LS	$0.00	$0.00
7.5.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.5.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.5.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.5.5	Message Boards	2.00	Each	$0.00	$0.00
7.5.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.5.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.5.8	Sawcut	1.00	Each	$0.00	$0.00

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.5.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.5.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.5.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.5.12	Pump Water	1.00	LS	$143.92	$143.92
7.5.13	Water Wagon	1.00	LS	$134.90	$134.90
7.5.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.5.15	Purchase 8" Valve and piping	1.00	LS	$1,700.00	$1,700.00
7.5.16	Install 8" Valve	1.00	Each	$736.65	$736.65
7.5.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.5.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.5.19	Truncated domes	1.00	LS	$0.00	$0.00
7.5.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.5.21	Striping	1.00	LS	$0.00	$0.00
7.5.22	Landscaping	1.00	LS	$0.00	$0.00
7.5.23	Mobilization	1.00	LS	$458.59	$458.59
7.5.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.5.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.6	5E28N4FH0021 R	1.00	LS	$11,038.54	$11,038.54
7.6.1	Private Locator	1.00	LS	$0.00	$0.00
7.6.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.6.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.6.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.6.5	Message Boards	2.00	Each	$0.00	$0.00
7.6.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.6.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.6.8	Sawcut	1.00	Each	$0.00	$0.00
7.6.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.6.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.6.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.6.12	Pump Water	1.00	LS	$143.92	$143.92
7.6.13	Water Wagon	1.00	LS	$134.90	$134.90
7.6.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.6.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.6.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.6.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.6.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.6.19	Truncated domes	1.00	LS	$0.00	$0.00
7.6.20	Crack Seal Joints	1.00	LS	$0.00	$0.00

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.6.21	Striping	1.00	LS	$0.00	$0.00
7.6.22	Landscaping	1.00	LS	$0.00	$0.00
7.6.23	Mobilization	1.00	LS	$458.59	$458.59
7.6.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.6.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.7	SE28N4VL0031 - 12" S	1.00	LS	$13,094.61	$13,094.61
7.7.1	Private Locator	1.00	LS	$0.00	$0.00
7.7.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.7.3	Public outreach notifications	1.00	LS	$501.08	$501.08
7.7.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.7.5	Message Boards	2.00	Each	$0.00	$0.00
7.7.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.7.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.7.8	Sawcut	1.00	Each	$0.00	$0.00
7.7.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.7.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.7.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.7.12	Pump Water	1.00	LS	$143.92	$143.92
7.7.13	Water Wagon	1.00	LS	$134.90	$134.90
7.7.14	Dewatering standby time	1.00	Each	$982.20	$982.20
7.7.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.7.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.7.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.7.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.7.19	Truncated domes	1.00	LS	$0.00	$0.00
7.7.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.7.21	Striping	1.00	LS	$0.00	$0.00
7.7.22	Landscaping	1.00	LS	$0.00	$0.00
7.7.23	Mobilization	1.00	LS	$458.59	$458.59
7.7.24	Job Management	1.00	LS	$2,158.83	$2,158.83
7.7.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.8	SE28N4VL0013 - 12" T	1.00	LS	$14,129.95	$14,129.95
7.8.1	Private Locator	1.00	LS	$0.00	$0.00
7.8.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.8.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.8.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.8.5	Message Boards	2.00	Each	$0.00	$0.00
7.8.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00

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CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.8.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.8.8	Sawcut	1.00	Each	$249.79	$249.79
7.8.9	Demo Concrete or asphalt	1.00	Each	$368.32	$368.32
7.8.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.8.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.8.12	Pump Water	1.00	LS	$143.92	$143.92
7.8.13	Water Wagon	1.00	LS	$134.90	$134.90
7.8.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.8.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.8.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.8.17	Mill existing asphalt	1.00	LS	$192.00	$192.00
7.8.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94
7.8.19	Truncated domes	1.00	LS	$0.00	$0.00
7.8.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.8.21	Striping	1.00	LS	$0.00	$0.00
7.8.22	Landscaping	1.00	LS	$0.00	$0.00
7.8.23	Mobilization	1.00	LS	$458.59	$458.59
7.8.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.8.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.9	SE28N4VL0012 - 12" T	1.00	LS	$14,129.95	$14,129.95
7.9.1	Private Locator	1.00	LS	$0.00	$0.00
7.9.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.9.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.9.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.9.5	Message Boards	2.00	Each	$0.00	$0.00
7.9.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.9.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.9.8	Sawcut	1.00	Each	$249.79	$249.79
7.9.9	Demo Concrete or asphalt	1.00	Each	$368.32	$368.32
7.9.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.9.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.9.12	Pump Water	1.00	LS	$143.92	$143.92
7.9.13	Water Wagon	1.00	LS	$134.90	$134.90
7.9.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.9.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.9.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.9.17	Mill existing asphalt	1.00	LS	$192.00	$192.00
7.9.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94

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CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.9.19	Truncated domes	1.00	LS	$0.00	$0.00
7.9.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.9.21	Striping	1.00	LS	$0.00	$0.00
7.9.22	Landscaping	1.00	LS	$0.00	$0.00
7.9.23	Mobilization	1.00	LS	$458.59	$458.59
7.9.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.9.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.10	SE28N4VL0007 - 12" V	1.00	LS	$15,441.89	$15,441.89
7.10.1	Private Locator	1.00	LS	$0.00	$0.00
7.10.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.10.3	Public outreach notifications	1.00	LS	$501.08	$501.08
7.10.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.10.5	Message Boards	2.00	Each	$0.00	$0.00
7.10.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.10.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.10.8	Sawcut	1.00	Each	$249.79	$249.79
7.10.9	Demo Concrete or asphalt	1.00	Each	$245.55	$245.55
7.10.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.10.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.10.12	Pump Water	1.00	LS	$143.92	$143.92
7.10.13	Water Wagon	1.00	LS	$134.90	$134.90
7.10.14	Dewatering standby time	1.00	Each	$982.20	$982.20
7.10.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.10.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.10.17	Mill existing asphalt	1.00	LS	$384.00	$384.00
7.10.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94
7.10.19	Truncated domes	1.00	LS	$0.00	$0.00
7.10.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.10.21	Striping	1.00	LS	$0.00	$0.00
7.10.22	Landscaping	1.00	LS	$0.00	$0.00
7.10.23	Mobilization	1.00	LS	$458.59	$458.59
7.10.24	Job Management	1.00	LS	$2,158.83	$2,158.83
7.10.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.11	SE28N4FH0018 N	1.00	LS	$10,113.58	$10,113.58
7.11.1	Private Locator	1.00	LS	$0.00	$0.00
7.11.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.11.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.11.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27

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CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.11.5	Message Boards	2.00	Each	$0.00	$0.00
7.11.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.11.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.11.8	Sawcut	1.00	Each	$0.00	$0.00
7.11.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.11.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.11.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.11.12	Pump Water	1.00	LS	$143.92	$143.92
7.11.13	Water Wagon	1.00	LS	$134.90	$134.90
7.11.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.11.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.11.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.11.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.11.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.11.19	Truncated domes	1.00	LS	$0.00	$0.00
7.11.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.11.21	Striping	1.00	LS	$0.00	$0.00
7.11.22	Landscaping	1.00	LS	$0.00	$0.00
7.11.23	Mobilization	1.00	LS	$458.59	$458.59
7.11.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.11.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.12	SE28N4FH0019 N	1.00	LS	$10,113.58	$10,113.58
7.12.1	Private Locator	1.00	LS	$0.00	$0.00
7.12.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.12.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.12.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27
7.12.5	Message Boards	2.00	Each	$0.00	$0.00
7.12.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.12.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.12.8	Sawcut	1.00	Each	$0.00	$0.00
7.12.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.12.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.12.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.12.12	Pump Water	1.00	LS	$143.92	$143.92
7.12.13	Water Wagon	1.00	LS	$134.90	$134.90
7.12.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.12.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.12.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29

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CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.12.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.12.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.12.19	Truncated domes	1.00	LS	$0.00	$0.00
7.12.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.12.21	Striping	1.00	LS	$0.00	$0.00
7.12.22	Landscaping	1.00	LS	$0.00	$0.00
7.12.23	Mobilization	1.00	LS	$458.59	$458.59
7.12.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.12.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.13	SE28N4FH0020 N	1.00	LS	$10,113.58	$10,113.58
7.13.1	Private Locator	1.00	LS	$0.00	$0.00
7.13.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.13.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.13.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27
7.13.5	Message Boards	2.00	Each	$0.00	$0.00
7.13.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.13.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.13.8	Sawcut	1.00	Each	$0.00	$0.00
7.13.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.13.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.13.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.13.12	Pump Water	1.00	LS	$143.92	$143.92
7.13.13	Water Wagon	1.00	LS	$134.90	$134.90
7.13.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.13.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.13.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.13.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.13.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.13.19	Truncated domes	1.00	LS	$0.00	$0.00
7.13.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.13.21	Striping	1.00	LS	$0.00	$0.00
7.13.22	Landscaping	1.00	LS	$0.00	$0.00
7.13.23	Mobilization	1.00	LS	$458.59	$458.59
7.13.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.13.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.14	NE28N4FH0016 L	1.00	LS	$12,163.54	$12,163.54
7.14.1	Private Locator	1.00	LS	$0.00	$0.00
7.14.2	Potholing conflicts	1.00	EA	$685.29	$685.29

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CBSCode	Description	orecastQuantIt	UM	UnitCost	Total Cost (Forecast)
7.14.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.14.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.14.5	Message Boards	2.00	Each	$0.00	$0.00
7.14.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.14.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.14.8	Sawcut	1.00	Each	$0.00	$0.00
7.14.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.14.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.14.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.14.12	Pump Water	1.00	LS	$143.92	$143.92
7.14.13	Water Wagon	1.00	LS	$134.90	$134.90
7.14.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.14.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.14.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.14.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.14.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.14.19	Truncated domes	1.00	LS	$0.00	$0.00
7.14.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.14.21	Striping	1.00	LS	$0.00	$0.00
7.14.22	Landscaping	1.00	LS	$1,125.00	$1,125.00
7.14.23	Mobilization	1.00	LS	$458.59	$458.59
7.14.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.14.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.15	NE28N4FH0010 L	1.00	LS	$11,138.54	$11,138.54
7.15.1	Private Locator	1.00	LS	$0.00	$0.00
7.15.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.15.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.15.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,191.78	$2,191.78
7.15.5	Message Boards	2.00	Each	$0.00	$0.00
7.15.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.15.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.15.8	Sawcut	1.00	Each	$0.00	$0.00
7.15.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.15.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.15.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.15.12	Pump Water	1.00	LS	$143.92	$143.92
7.15.13	Water Wagon	1.00	LS	$134.90	$134.90
7.15.14	Dewatering standby time	1.00	Each	$491.10	$491.10

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CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.15.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.15.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.15.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.15.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.15.19	Truncated domes	1.00	LS	$0.00	$0.00
7.15.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.15.21	Striping	1.00	LS	$0.00	$0.00
7.15.22	Landscaping	1.00	LS	$100.00	$100.00
7.15.23	Mobilization	1.00	LS	$458.59	$458.59
7.15.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.15.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.16	NE28N4FH0009 M	1.00	LS	$10,338.58	$10,338.58
7.16.1	Private Locator	1.00	LS	$0.00	$0.00
7.16.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.16.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.16.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27
7.16.5	Message Boards	2.00	Each	$0.00	$0.00
7.16.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.16.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.16.8	Sawcut	1.00	Each	$0.00	$0.00
7.16.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.16.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.16.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.16.12	Pump Water	1.00	LS	$143.92	$143.92
7.16.13	Water Wagon	1.00	LS	$134.90	$134.90
7.16.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.16.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.16.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.16.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.16.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.16.19	Truncated domes	1.00	LS	$0.00	$0.00
7.16.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.16.21	Striping	1.00	LS	$0.00	$0.00
7.16.22	Landscaping	1.00	LS	$225.00	$225.00
7.16.23	Mobilization	1.00	LS	$458.59	$458.59
7.16.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.16.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.17	NE28N4FH0008 M	1.00	LS	$10,213.58	$10,213.58

BBS 9/29/16

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.17.1	Private Locator	1.00	LS	$0.00	$0.00
7.17.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.17.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.17.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27
7.17.5	Message Boards	2.00	Each	$0.00	$0.00
7.17.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.17.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.17.8	Sawcut	1.00	Each	$0.00	$0.00
7.17.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.17.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.17.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.17.12	Pump Water	1.00	LS	$143.92	$143.92
7.17.13	Water Wagon	1.00	LS	$134.90	$134.90
7.17.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.17.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.17.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.17.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.17.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.17.19	Truncated domes	1.00	LS	$0.00	$0.00
7.17.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.17.21	Striping	1.00	LS	$0.00	$0.00
7.17.22	Landscaping	1.00	LS	$100.00	$100.00
7.17.23	Mobilization	1.00	LS	$458.59	$458.59
7.17.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.17.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.18	NE28N4FH0007 M	1.00	LS	$11,865.58	$11,865.58
7.18.1	Private Locator	1.00	LS	$0.00	$0.00
7.18.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.18.3	Public outreach notifications	1.00	LS	$166.61	$166.61
7.18.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$1,515.27	$1,515.27
7.18.5	Message Boards	2.00	Each	$0.00	$0.00
7.18.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$1,652.00	$1,652.00
7.18.7	Pedestrian accesss	1.00	LS	$0.00	$0.00
7.18.8	Sawcut	1.00	Each	$0.00	$0.00
7.18.9	Demo Concrete or asphalt	1.00	Each	$0.00	$0.00
7.18.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.18.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.18.12	Pump Water	1.00	LS	$143.92	$143.92

BBJ 9/29/16

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.18.13	Water Wagon	1.00	LS	$134.90	$134.90
7.18.14	Dewatering standby time	1.00	Each	$326.58	$326.58
7.18.15	Purchase 6" Valve and piping	1.00	LS	$1,250.00	$1,250.00
7.18.16	Install 6" Valve & Fire Hydrant	1.00	Each	$1,673.29	$1,673.29
7.18.17	Mill existing asphalt	1.00	LS	$0.00	$0.00
7.18.18	Patch Pave / pour adjustment	1.00	Each	$0.00	$0.00
7.18.19	Truncated domes	1.00	LS	$0.00	$0.00
7.18.20	Crack Seal Joints	1.00	LS	$0.00	$0.00
7.18.21	Striping	1.00	LS	$0.00	$0.00
7.18.22	Landscaping	1.00	LS	$100.00	$100.00
7.18.23	Mobilization	1.00	LS	$458.59	$458.59
7.18.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.18.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.19	SE16N4VL0068 - 12" Y	1.00	LS	$16,404.38	$16,404.38
7.19.1	Private Locator	1.00	LS	$0.00	$0.00
7.19.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.19.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.19.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,814.20	$2,814.20
7.19.5	Message Boards	2.00	Each	$0.00	$0.00
7.19.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$1,652.00	$1,652.00
7.19.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.19.8	Sawcut	1.00	Each	$249.79	$249.79
7.19.9	Demo Concrete or asphalt	1.00	Each	$368.32	$368.32
7.19.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.19.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.19.12	Pump Water	1.00	LS	$143.92	$143.92
7.19.13	Water Wagon	1.00	LS	$134.90	$134.90
7.19.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.19.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.19.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.19.17	Mill existing asphalt	1.00	LS	$192.00	$192.00
7.19.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94
7.19.19	Truncated domes	1.00	LS	$0.00	$0.00
7.19.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.19.21	Striping	1.00	LS	$0.00	$0.00
7.19.22	Landscaping	1.00	LS	$0.00	$0.00
7.19.23	Mobilization	1.00	LS	$458.59	$458.59
7.19.24	Job Management	1.00	LS	$1,657.75	$1,657.75

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CSW CONTRACTORS, INC..
2762 - City Wide Water Valve Replacement Project

CBSCode	Description	orecastQuantit	UM	UnitCost	Total Cost (Forecast)
7.19.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.20	SW15N4VL0093 - 12" Y	1.00	LS	$14,752.38	$14,752.38
7.20.1	Private Locator	1.00	LS	$0.00	$0.00
7.20.2	Potholing conflicts	1.00	EA	$685.29	$685.29
7.20.3	Public outreach notifications	1.00	LS	$250.54	$250.54
7.20.4	Set up/take down/plan submittal Traffic Control	1.00	LS	$2,814.20	$2,814.20
7.20.5	Message Boards	2.00	Each	$0.00	$0.00
7.20.6	Law Enforcement - Intersection Traffic Control	1.00	LS	$0.00	$0.00
7.20.7	Pedestrian access	1.00	LS	$0.00	$0.00
7.20.8	Sawcut	1.00	Each	$249.79	$249.79
7.20.9	Demo Concrete or asphalt	1.00	Each	$368.32	$368.32
7.20.10	Excavate and backfill	1.00	LS	$1,055.10	$1,055.10
7.20.11	BobTail for material/spoils haul	1.00	Each	$1,046.28	$1,046.28
7.20.12	Pump Water	1.00	LS	$143.92	$143.92
7.20.13	Water Wagon	1.00	LS	$134.90	$134.90
7.20.14	Dewatering standby time	1.00	Each	$491.10	$491.10
7.20.15	Purchase 12" Valve and piping	1.00	LS	$3,000.00	$3,000.00
7.20.16	Install 12" Valve	1.00	Each	$736.65	$736.65
7.20.17	Mill existing asphalt	1.00	LS	$192.00	$192.00
7.20.18	Patch Pave / pour adjustment	1.00	Each	$1,392.94	$1,392.94
7.20.19	Truncated domes	1.00	LS	$0.00	$0.00
7.20.20	Crack Seal Joints	1.00	LS	$75.00	$75.00
7.20.21	Striping	1.00	LS	$0.00	$0.00
7.20.22	Landscaping	1.00	LS	$0.00	$0.00
7.20.23	Mobilization	1.00	LS	$458.59	$458.59
7.20.24	Job Management	1.00	LS	$1,657.75	$1,657.75
7.20.25	Portable Toilet	1.00	Each	$0.00	$0.00
7.21	Fire Watch Allowance	160.00	Hour	$40.48	$6,476.80
S22					$254,135.38

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NW28N4

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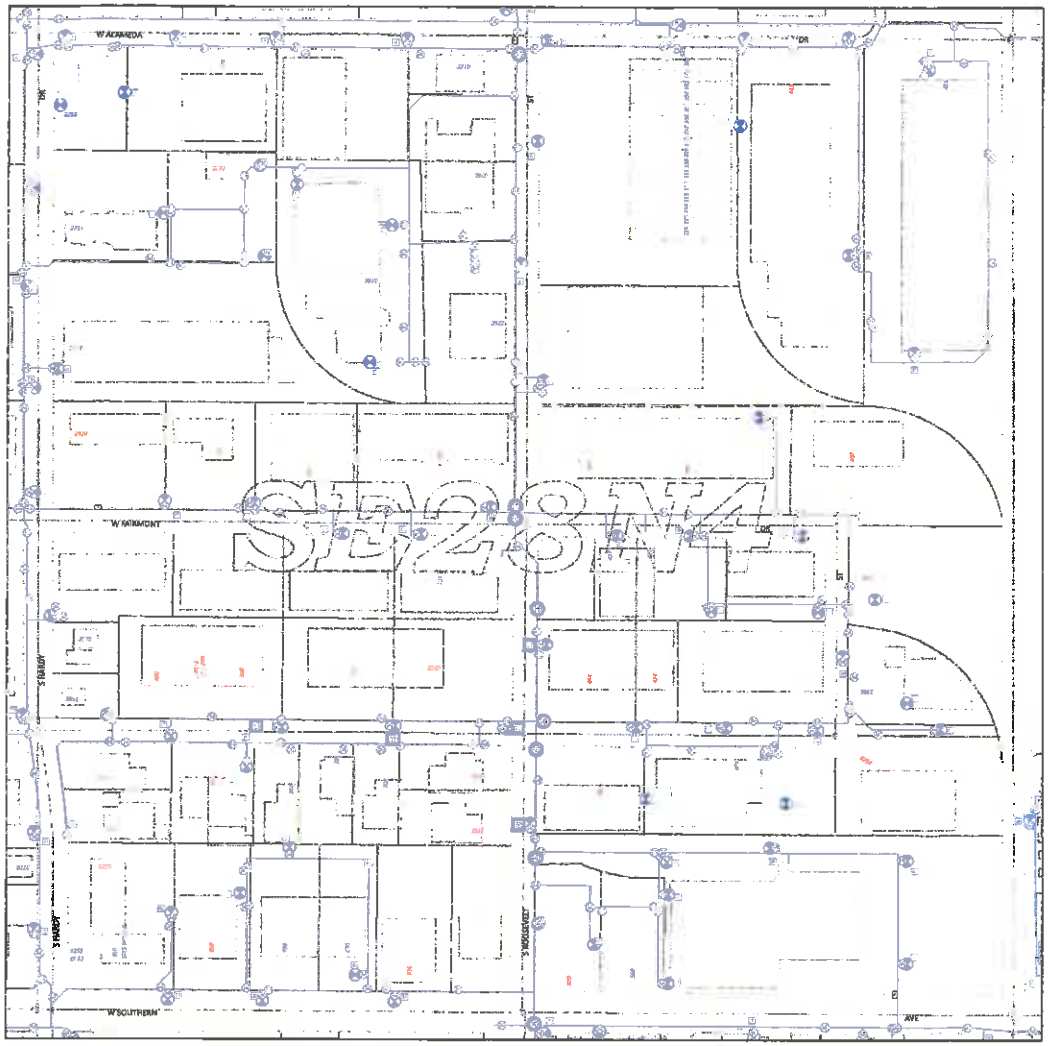

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NE33N4
PAGE 91

NW34N4
PAGE 94

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SE21N4

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SW22N4

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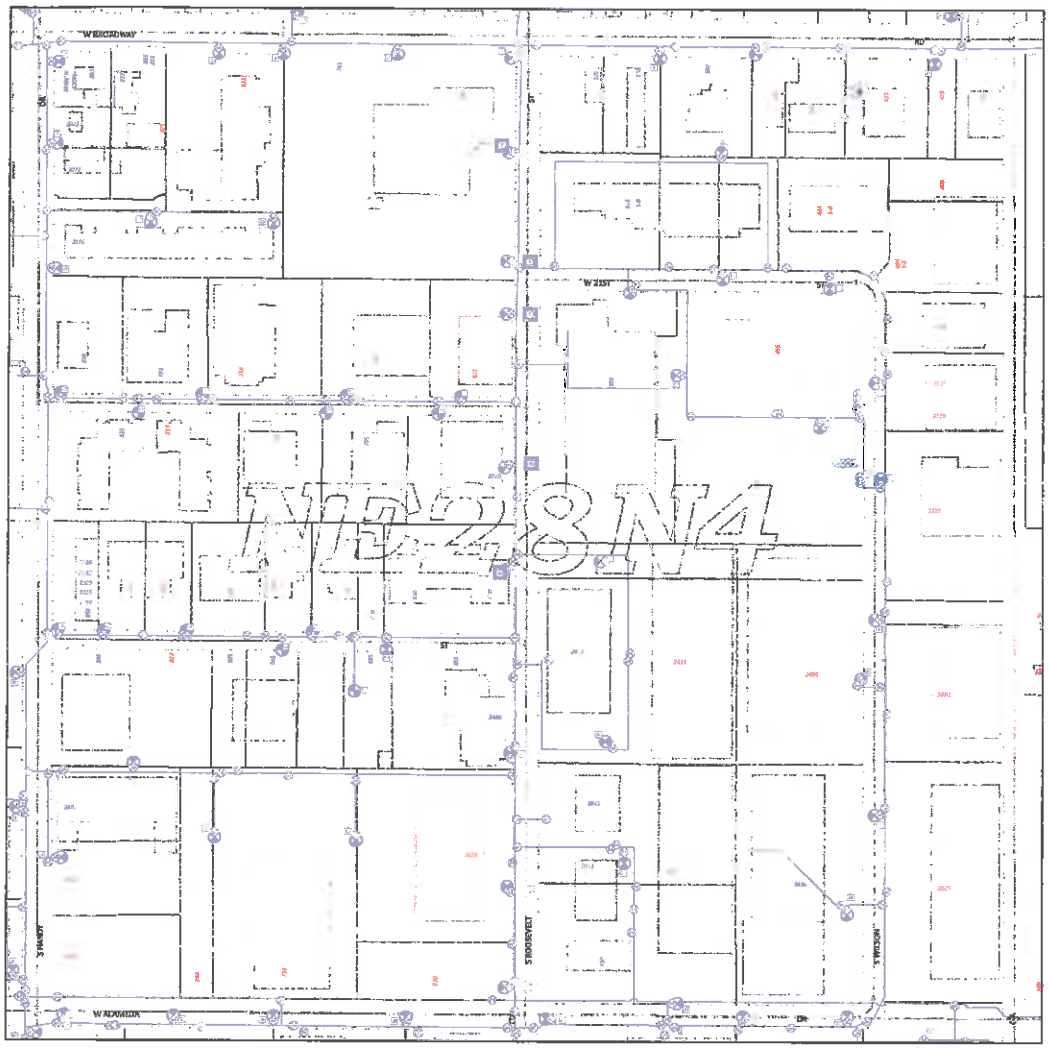

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Notes:

Number of Hydrants: 56

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	UTILITES MAPBOOK	
PRINTED troyw 7/6/2016	1 inch = 195 feet	QTR SEC: NE28N4
	PAGE 79	

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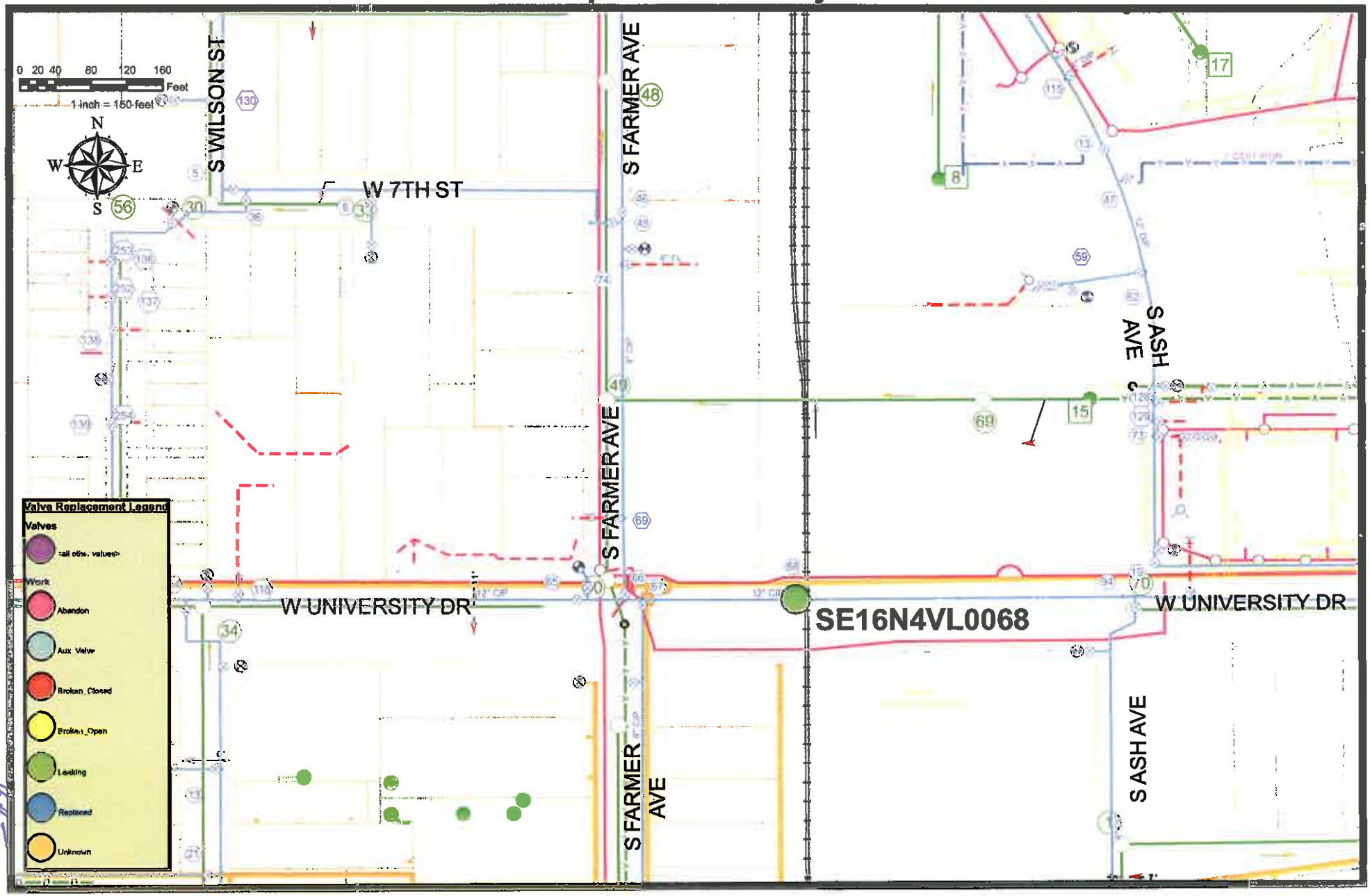
9/29/16

City of Tempe
Public Works Capital Improvements Program
Valve Replacement Project



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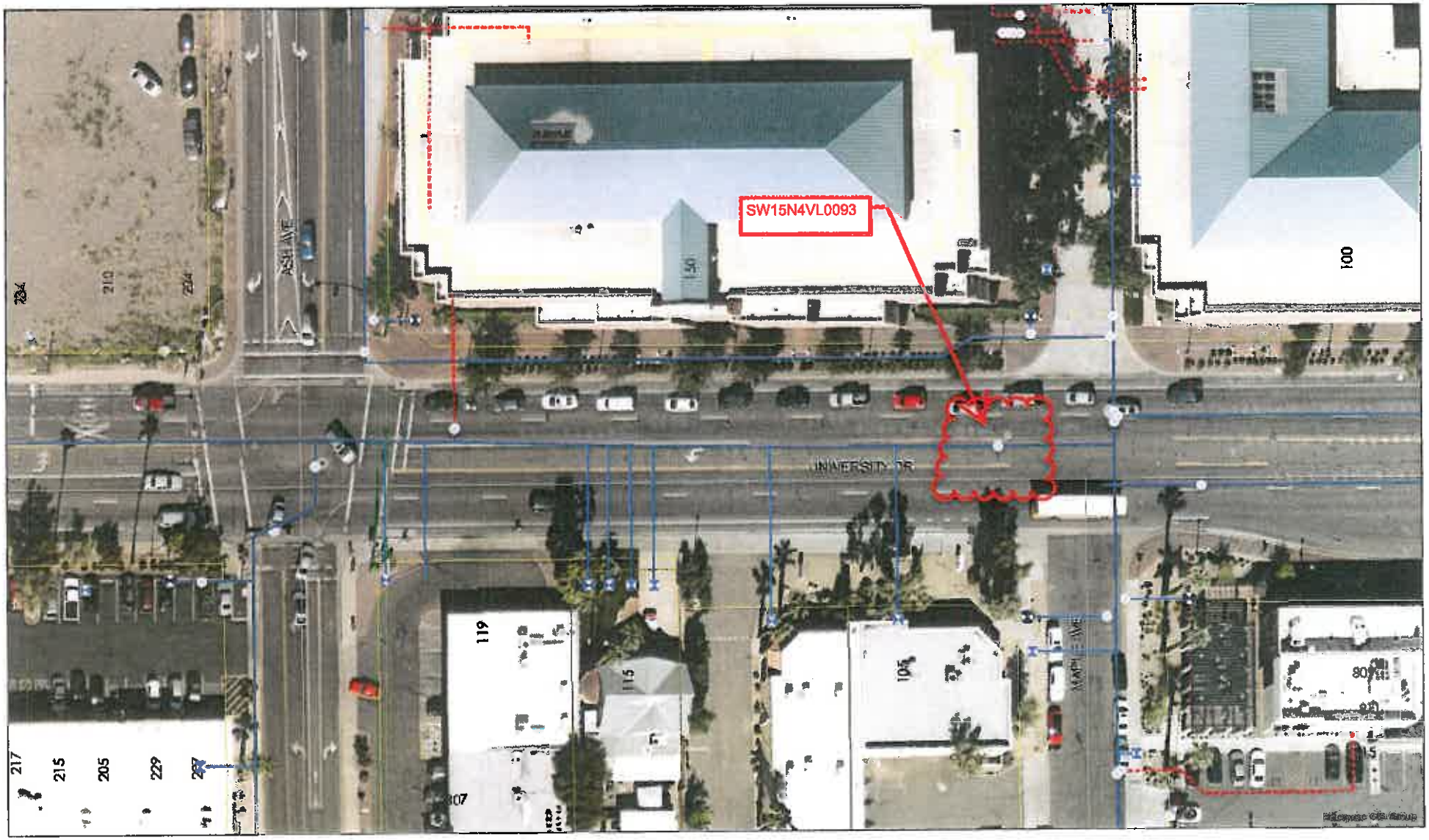
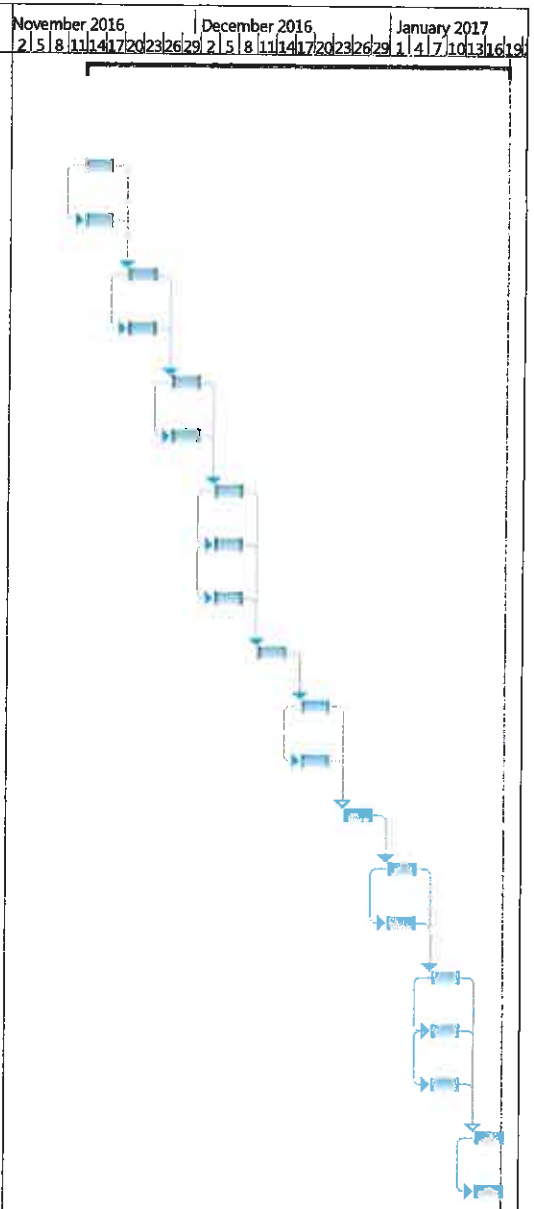


9/20/2016

BBJ
9/20/16

ID	Task Name	Group	Description	Duration	Start	Finish
1	**City Wide Small Valve & Fire Hydrant Replacements**			**49 days**	**Mon 11/14/16**	**Thu 1/19/17**
2	SE28N4VL0044	P	12" Gate Valve Replacement	4 days	Mon 11/14/16	Thu 11/17/16
3	NE33N4VL0006	P	12" Gate Valve Replacement	4 days	Mon 11/14/16	Thu 11/17/16
4	SE28N4VL0027	Q	12" Gate Valve Replacement	4 days	Mon 11/21/16	Thu 11/24/16
5	SE28N4FH0026	Q	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 11/21/16	Thu 11/24/16
6	SE28N4VL0026	R	8" Gate Valve Replacement	4 days	Mon 11/28/16	Thu 12/1/16
7	SE28N4FH0021	R	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 11/28/16	Thu 12/1/16
8	SE28N4FH0018	N	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 12/5/16	Thu 12/8/16
9	SE28N4FH0019	N	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 12/5/16	Thu 12/8/16
10	SE28N4FH0020	N	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 12/5/16	Thu 12/8/16
11	SE28N4VL0031	S	12" Gate Valve Replacement	4 days	Mon 12/12/16	Thu 12/15/16
12	SE28N4VL0013	T	12" Gate Valve Replacement	4 days	Mon 12/19/16	Thu 12/22/16
13	SE28N4VL0012	T	12" Gate Valve Replacement	4 days	Mon 12/19/16	Thu 12/22/16
14	SE28N4VL0007	V	12" Gate Valve Replacement	4 days	Mon 12/26/16	Thu 12/29/16
15	NE28N4FH0016	L	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 1/2/17	Thu 1/5/17
16	NE28N4FH0010	L	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 1/2/17	Thu 1/5/17
17	NE28N4FH0009	M	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 1/9/17	Thu 1/12/17
18	NE28N4FH0008	M	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 1/9/17	Thu 1/12/17
19	NE28N4FH0007	M	6" Gate Valve Replacement & Fire Hydrant Installation	4 days	Mon 1/9/17	Thu 1/12/17
20	SE16N4VL0068	Y	12" Gate Valve Replacement	4 days	Mon 1/16/17	Thu 1/19/17
21	SW15N4VL0093	Y	12" Gate Valve Replacement	4 days	Mon 1/16/17	Thu 1/19/17



Project: JOA #7 Schedule
Date: Thu 9/29/16

Task	Inactive Task	Manual Summary Rollup	External Milestone
Split	Inactive Milestone	Manual Summary	Deadline
Milestone	Inactive Summary	Start-only	Progress
Summary	Manual Task	Finish-only	Manual Progress
Project Summary	Duration-only	External Tasks	

EXHIBIT B

FORMS APPENDIX

The following forms shall be completed and submitted with each Job Order.

LIST OF SUBCONTRACTORS SB-1

STATUTORY PERFORMANCE BOND PB-1

STATUTORY PAYMENT BOND PB-3

AFFIDAVIT OF COMPLIANCE WITH TEMPE CITY CODE AD-1

LIST OF SUBCONTRACTORS

In accordance with the provisions of Section 108.2 of the MAG Specifications, JOC shall provide for each Job Order the information listed below regarding proposed subcontractors which are subject to approval by the City.

Subcontractor Name	Address	Type of Work	% of Total Contract

STATUTORY PERFORMANCE BOND
PURSUANT TO TITLE 34,
CHAPTER 6, OF THE ARIZONA REVISED STATUTES
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That _____ ("Principal") and _____,

a corporation organized and existing under the laws of the State of _____, with its principal office in the City of _____("Surety"), are held and firmly bound unto _____("Obligee") in the amount of _____ Dollars ($_____), for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written Contract with the Obligee, dated the 3rd day of November, 2016, to complete Project No. 3204961K, which Contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, the condition of this obligation is such, that if the principal faithfully performs and fulfills all of the undertakings, covenants, terms, conditions and agreements of the contract during the original term of the contract and any extension of the contract, with or without notice to the surety, and during the life of any guaranty required under the contract, and also performs and fulfills all of the undertakings, covenants, terms, conditions and agreements of all duly authorized modifications of the contract that may hereafter be made, notice of which modifications to the surety being hereby waived, the above obligation is void. Otherwise it remains in full force and effect.

Provided, however, that this bond is executed pursuant to the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, to the extent as if it were copied at length in this agreement.

The prevailing party in a suit on this bond shall recover as part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

DATED this day of , 2016.

_____
PRINCIPAL SEAL

BY:_____

**
_____
SURETY SEAL

BY:_____

_____
AGENCY ADDRESS

** Surety hereby acknowledges they are licensed to do business in the State of Arizona **

STATUTORY PAYMENT BOND
PURSUANT TO TITLE 34,
CHAPTER 6, OF THE ARIZONA REVISED STATUTES
(Penalty of this bond must be 100% of the Contract amount)

KNOW ALL MEN BY THESE PRESENTS:

That _____ ("Principal") and _____,

a corporation organized and existing under the laws of the State of _____,

with its principal office in the City of _____ ("Surety"), as held and firmly

bound unto _____ ("Obligee") in the amount of _____

Dollars ($_____), for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written Contract with the Obligee, dated the 3rd day of November, 2016, to complete Project No. 3204961K, which Contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, the condition of this obligation is such, that if the principal promptly pays all monies due to all persons supplying labor or materials to the principal or the principal's subcontractors in the prosecution of the work provided for in the contract, this obligation is void. Otherwise it remains in full force and effect.

Provided, however, that this bond is executed pursuant to the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions, conditions and limitations of title 34, chapter 2,

article 2, Arizona Revised Statutes, to the same extent as if they were copied at length in this agreement.

The prevailing party in a suit on this bond shall recover as a part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

DATED this day of , 2016.

_____

PRINCIPAL SEAL

BY:_____

**

_____

SURETY SEAL

BY:_____

_____

AGENCY ADDRESS

** Surety hereby acknowledges they are licensed to do business in the State of Arizona **

CITY OF TEMPE DEPARTMENT OF PUBLIC WORKS
UNCONDITIONAL WAIVER AND RELEASE
FOR CONTRACTOR'S PAYMENT
AND SETTLEMENT OF CLAIMS

Upon receipt of payment from the City of Tempe, the undersigned:

Contractor's Name: _____

Contractor's Address: _____

The undersigned has been paid and acknowledges having received final payment from the City of Tempe in the amount of $_____ [state dollar amount for final, total contract amount] for full and final payment of all work, services, equipment, labor, skill and material furnished, delivered and performed by the undersigned for the city or anyone in the construction [or other services] for **CITY-WIDE WATER VALVE REPLACEMENTS – PHASE 7** and **PROJECT NO 3204961K** at the location of 570 W. Southern Avenue; 525 W. Southern Avenue; 3125 S. Roosevelt Street; 3120 S. Roosevelt Street; 444 W. Geneva Drive; 3031 S. Roosevelt Street; 405 W. Fairmont Drive; 730 W. Fairmont Drive; 2710 S. Roosevelt Street; 810 W. Geneva Drive; 710 W. Geneva Drive; 600 W. Geneva Drive; 2300 S. Roosevelt Street; 2210 S. Roosevelt Street; 2150 S. Roosevelt Street; 2000 S. Roosevelt Street; 2100 S. Roosevelt Street; 280 W. University Drive and 1744 E. Southern Avenue; and does hereby waive and release any and all rights to mechanic's liens, any state or federal statutory bond right, any private bond right, any claim for payment and any and all rights under any applicable federal, state or local laws related to claim or payment rights for persons in the undersigned's position held on the above-referenced project against the City of Tempe, for this value received. The undersigned further agrees to defend, indemnify and hold harmless the City of Tempe against any and all liens, claims, suits, actions, damages, charges and expenses whatsoever, which the City may incur arising out of the failure or the undersigned to pay in full for all work, services, equipment, labor, skill and material furnished with regard to the project.

The undersigned, in consideration of the payment acknowledged, hereby warrants that he has already paid or will pay using the monies received from this final payment to promptly pay in full all of his contractors, subcontractors, laborers, materialmen and suppliers for all work, materials, equipment or services provided to the above-referenced project.

_____ _____
Contractor Signature Date

_____
By (Print Name and Title)

Notice: This document waives rights unconditionally and states that you have been paid for giving up those rights. This document is enforceable against you if signed, even if you have not been paid. If you have not been paid in full, use a conditional release form.

[NOTARY SEAL TO FOLLOW]

STATE OF ARIZONA)
COUNTY OF MARICOPA)

On ____ day of _____, 2016, _____ personally appeared before me, and proved by lawful identification documents to be the person who signed the preceding document in my presence, and who affirmed to me that the contents therein are truthful and accurate to the best of his/her knowledge and belief.

Notary Seal

_____
Notary Public

_____
Printed Name

My Commission Expires:

_____