



**CITY OF CHANDLER  
JOB ORDER PROJECT AGREEMENT**

**Small Valve Replacement**

**Project No. WA2403.401  
Council Date: August 15, 2024**

This JOB ORDER PROJECT AGREEMENT ("Job Order") is made this \_\_\_\_ day of \_\_\_\_\_ 2024, ("Effective Date"), by and between the City of Chandler, an Arizona municipal corporation, ("City") and **WaCo LLC dba WaCo Contracting**, an Arizona limited liability company, ("JOC Contractor") and is entered into pursuant to Job Order Master Agreement No. JOC2418.401 ("JOC Master Agreement"). City and JOC Contractor may be referred to individually as "Party" or collectively as "Parties").

City and JOC Contractor, in consideration of the mutual covenants herein set forth, agree as follows:

**RECITALS**

A. On or about March 8, 2024, the Parties entered into the JOC Master Agreement, which terms and conditions are made a part of and incorporated into this Job Order Project Agreement by this reference.

B. City proposes to engage JOC Contractor for construction services as more fully described in **Exhibit "A"**, which is attached to and made a part of this Job Order by this reference.

C. JOC Contractor is ready, willing, and able to provide the services described in **Exhibit "A"** for the compensation and fees set forth and as described in **Exhibit "B"**, which is attached to and made a part of this Agreement by this reference.

**ARTICLE 1. DESCRIPTION OF WORK**

The Parties enter into this Job Order Project Agreement for the **Small Valve Replacement**, Project Number **WA2403.401**. The scope of work consists of replacement of 42 valves in the potable distribution system, ranging in size from 6-inches to 16-inches in various locations, all as more particularly set forth in **Exhibit "A"** attached hereto and incorporated herein by reference.

The JOC Contractor will not accept any change of scope, or change in Agreement provisions, unless issued in writing, as a Agreement amendment or change order and signed by the authorized signatories for each party.

Performance and Payment Bonds, as set forth in **Exhibit "C"** and **Exhibit "D"** respectively attached hereto and incorporated herein by reference, will be due prior to execution of each Job Order Project Agreement in the full amount of each Job Order.

At project completion, JOC Contractor must complete Contractor's Affidavit Regarding Settlement of Claims and Certificate of Completion, as set forth in **Exhibit "E"** and **Exhibit "F"** respectively attached hereto and incorporated herein by reference.

## **ARTICLE 2. PROJECT PRICE**

City will pay JOC Contractor for completion of the Work in accordance with the JOC Master Agreement a fee not to exceed the Guaranteed Maximum Price of **\$1,800,847.17** Dollars determined and payable as set forth in JOC Master Agreement and **Exhibit "B"** attached hereto and made a part hereof by reference.

## **ARTICLE 3. AGREEMENT TIME & SCHEDULE**

JOC Contractor agrees to complete all Construction within **365** calendar days from the Notice to Proceed (NTP) Date.

## **ARTICLE 4. JOB ORDER CONTACTS**

The following parties serve in the capacity below for this Job Order Project.

|                 |                                                  |                              |
|-----------------|--------------------------------------------------|------------------------------|
| CITY:           | Construction Project Manager: Russ Slotnick      |                              |
|                 | Phone:                                           | 480-782-3411                 |
|                 | Email:                                           | russ.slotnick@chandleraz.gov |
|                 |                                                  |                              |
| JOC CONTRACTOR: | WaCo LLC dba WaCo Contracting                    |                              |
|                 | 3250 S. 35 <sup>th</sup> Ave., Phoenix, AZ 85009 |                              |
|                 | JOC Contractor Representative: Chad Watkins      |                              |
|                 | Phone:                                           | 602-753-0373                 |
|                 | Email:                                           | chad@wacoaz.com              |

## **ARTICLE 5. FORCED LABOR OF ETHNIC UYGHURS PROHIBITED**

By entering into this Agreement, Contractor certifies and agrees Contractor does not currently use and will not use for the term of this Agreement: (i) the forced labor of ethnic Uyghurs in the People's Republic of China; or (ii) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; or (iii) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, the Parties have executed this Job Order as of the Effective Date.

**"CITY" CITY OF CHANDLER**

**"JOC CONTRACTOR"  
WACO LLC DBA WACO CONTRACTING**

\_\_\_\_\_  
MAYOR

 7/19/24  
\_\_\_\_\_  
Signature Date

**RECOMMENDED BY:**

  
\_\_\_\_\_  
Daniel Haskins, P.E.  
CIP City Engineer

\_\_\_\_\_  
Chad Watkins  
Print Name

\_\_\_\_\_  
Manager

\_\_\_\_\_  
Title

\_\_\_\_\_  
chad@wacoaz.com

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Signer Email Address

\_\_\_\_\_  
City Attorney 

**ATTEST:**

\_\_\_\_\_  
City Clerk Seal

# **EXHIBIT A**

## **SCOPE OF WORK**

# WaCo Contracting - 2024 Small Valve Replacements List 1



Customer City of Chandler  
Attention: Russ Slotnick  
Contract: WA2403.401

Job Name : Small Valve Replacements  
Date: 7/16/2024  
Revision: 1

## **Job Location: Citywide**

### **NOTES:**

- 1-4)** Price as listed is for replacement of 6" - 16" valves. Includes excavation, shoring, plating, materials, and backfill. Asphalt/concrete restoration will be charged additional per bid item, and traffic control/police officer will be charged at allowance. Coordination with customers for shutdown included, but extensive notification that requires outside PIO may result in additional costs.
- 5)** Price for excavation, installation of line stop, and backfill. Include one day rental on linestop equipment, additional days will incur additional charges. Linestops require specific conditions and will need to be verified ahead of time and alternatives considered.
- 6)** Includes asphalt replacement and concrete valve adjustment per City of Chandler, MAG, and project details. Assumes TYP restoration scenarios. Patches over 30 SY will incur additional costs.
- 7)** Concrete Collar per COC detail C-317, unpaved areas. Note: Numerous valves are just back of sidewalk and field conditions will determine whether sidewalk needs to be removed. If sidewalk is replaced than collar will be done under minimum concrete charge, and this line item will not be charged. This charge will incur when concrete crew returns for C-317 collar only.
- 8)** Minimum concrete charge. Typical for sidewalk replacements, curb and gutter, etc. Over 150 SF may incur additional charges.
- 9)** Concrete charge for extended concrete repairs requiring additional forming and handwork. Numerous locations will require the demo and replacement of a portion of an ADA ramp and this line item is TYP to those repairs.
- 10)** Includes full ADA ramp replacement.
- 11)** Charge for standalone raise to grade - Bag Mix.
- 12)** Valve #44 will need to be performed at TM basis due to unknown scope of work. Additional time and material allowance money proposed for change in field conditions.
- 13)** Traffic control and off-duty police charged at invoice. Prices shown are estimates based off field conditions but subject to change.
- 14-17)** Items listed may be installed based off field conditions.

### **Assumptions/Inclusions/Exclusions**

- 1) Survey /Asbuilts excluded.
- 2) Assumed waterline depths: 16" (6 feet), 12" (6 feet), 8" (4 feet), 6" (4 feet), 4" (4 feet). Depths beyond assumptions may result in additional costs.
- 3) Typical Landscape restoration is included at valves located in landscape. Major restoration (hardscape, large plants) may be charged at time and materials.
- 4) Survey / As-Builts are excluded.
- 5) One project sign is included in this proposal.
- 6) Crack seal is included in paved areas.
- 7) Pricing includes self-performed public outreach. Allowance is for 3rd party public outreach if necessary.
- 8) All shutdowns to be performed by COC. Shutdown can be up to 10 GPM leakyby. Beyond that would need to be verified.
- 9) Typical work hours Mon - Fri 7a-4pm. Off hours will be avoided and only performed if absolutely necessary to minimize customer impact.

We propose to furnish labor, equipment, and materials - complete in accordance with the plans and specifications supplied to us for the above mentioned project. All material is guaranteed to be as specified. All work will be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the proposed estimate.

**EXHIBIT B**  
**FEE SCHEDULE**

# WaCo Contracting - 2024 Small Valve Replacements List 1



Customer: City of Chandler  
 Attention: Russ Slotnick  
 Contract: WA2403.401

Job Name : Small Valve Replacements  
 Date: 7/16/2024  
 Revision: 1

## Job Location: Citywide

| Task                                                                                     | Task                                                | Note                         | QUANTITY | UNIT | UNIT PRICE   | AMOUNT          |
|------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|----------|------|--------------|-----------------|
| 1                                                                                        | Remove and Replace 6" Valve                         | See Details Below            | 10.00    | EA   | \$14,500.00  | \$145,000.00    |
| 2                                                                                        | Remove and Replace 8" Valve                         | See Details Below            | 17.00    | EA   | \$15,500.00  | \$263,500.00    |
| 3                                                                                        | Remove and Replace 12" Valve                        | See Details Below            | 14.00    | EA   | \$22,500.00  | \$315,000.00    |
| 4                                                                                        | Remove and Replace 16" Valve                        | See Details Below            | 1.00     | EA   | \$35,000.00  | \$35,000.00     |
| 5                                                                                        | 16" Line Stop                                       | See Details Below            | 1.00     | EA   | \$38,000.00  | \$38,000.00     |
| 6                                                                                        | Asphalt Replacement With Concrete Valve Adjustment  | See Details Below            | 13.00    | EA   | \$4,500.00   | \$58,500.00     |
| 7                                                                                        | Landscape Valve Adjustment                          | See Details Below            | 6.00     | EA   | \$1,500.00   | \$9,000.00      |
| 8                                                                                        | Concrete Minimum                                    | See Details Below            | 12.00    | EA   | \$3,000.00   | \$36,000.00     |
| 9                                                                                        | Extended Concrete, Partial ADA Ramp, Driveway, etc. | See Details Below            | 11.00    | EA   | \$5,000.00   | \$55,000.00     |
| 10                                                                                       | Full ADA Ramp                                       | See Details Below            | 2.00     | EA   | \$12,500.00  | \$25,000.00     |
| 11                                                                                       | Locate and Adjust Valve to Grade - Standalone       | See Details Below            | 3.00     | EA   | \$1,750.00   | \$5,250.00      |
| Valve Tasks Subtotal                                                                     |                                                     |                              |          |      |              | \$985,250.00    |
| Allowance Items                                                                          |                                                     |                              |          |      |              |                 |
| Task #                                                                                   | Task                                                | DESCRIPTION                  | QUANTITY | UNIT | UNIT PRICE   | AMOUNT          |
| 12                                                                                       | Allowance for Extra Work Time and Materials         | See Details Below            | 1.00     | AL   | \$100,000.00 | \$100,000.00    |
| 13                                                                                       | Traffic Control and Off Duty Police as Required     | As needed. At invoice price. | 1.00     | AL   | \$172,850.00 | \$172,850.00    |
| 14                                                                                       | 6" Permaseal                                        | As needed.                   | 1.00     | EA   | \$30,000.00  | \$30,000.00     |
| 15                                                                                       | 8" Permaseal                                        | As needed.                   | 1.00     | EA   | \$31,500.00  | \$31,500.00     |
| 16                                                                                       | 12" Permaseal                                       | As needed.                   | 2.00     | EA   | \$47,000.00  | \$94,000.00     |
| 17                                                                                       | 16" Hydrastop Line Valve                            | As needed.                   | 1.00     | EA   | \$50,000.00  | \$50,000.00     |
| SUBTOTAL ALLOWANCE COSTS                                                                 |                                                     |                              |          |      |              | \$478,350.00    |
| SUBTOTAL ALL COSTS                                                                       |                                                     |                              |          |      |              | \$1,463,600.00  |
| Overhead and Profit (Coefficient)                                                        |                                                     |                              |          |      | 9%           | \$ 131,724.00   |
| Total (Negotiated Prices + Overhead and Profit)                                          |                                                     |                              |          |      |              | \$1,595,324.00  |
| Insurance, Bond Taxes                                                                    |                                                     |                              |          |      |              |                 |
| Insurance                                                                                |                                                     |                              |          |      | 0.47%        | \$ 7,498.02     |
| Payment and Performance Bond                                                             |                                                     |                              |          |      | 1.00%        | \$ 15,953.24    |
| Total Taxable (Negotiated Prices + Coefficient + Insurance+Payment and Performance Bond) |                                                     |                              |          |      |              | \$1,618,775.26  |
| Sales Tax %*                                                                             |                                                     |                              |          |      | 5.07%        | \$ 82,071.91    |
| Combined Totals                                                                          |                                                     |                              |          |      |              | \$ 1,700,847.17 |
| City's Allowance                                                                         |                                                     |                              |          |      |              | \$ 100,000.00   |
| TOTAL JOB ORDER                                                                          |                                                     |                              |          |      |              | \$ 1,800,847.17 |



|                  |  |            |              | Asphalt Replacement With Concrete Valve |  |    |  |    |  |   |  |   |  |   |  |   |  |   |   |   |  |    |  | Extended Concrete |  |    |  |    |  |   |  |   |  |   |  |   |  |  |  |  |  |  |  | Locate and Adjust Valve to Grade, Standard |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Allowance for Extra Work (Time and Materials) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Full ADA Ramp |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Concrete Manure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Barricade Cost (Allowance) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16" Hydrastop Line Valve |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12" Permaeal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8" Permaeal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                  |  | ITEM NO    |              | 1                                       |  | 2  |  | 3  |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |   | 9 |  | 10 |  | 11                |  | 12 |  | 13 |  | 6 |  | 7 |  | 8 |  | 9 |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |  | UNITS      |              | EA                                      |  | EA |  | EA |  | 0 |  | 5 |  | 6 |  | 7 |  | 8 |   | 9 |  | 10 |  | 11                |  | 12 |  | 13 |  | 6 |  | 7 |  | 8 |  | 9 |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADDRESS/LOCATION |  | EID NUMBER |              | QS #                                    |  |    |  |    |  |   |  |   |  |   |  |   |  |   |   |   |  |    |  |                   |  |    |  |    |  |   |  |   |  |   |  |   |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WaCo #           |  |            |              |                                         |  |    |  |    |  |   |  |   |  |   |  |   |  |   |   |   |  |    |  |                   |  |    |  |    |  |   |  |   |  |   |  |   |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 601 W Mcnair     |  | 1          | 713000858.00 | 4-54                                    |  | 1  |  |    |  |   |  |   |  |   |  |   |  |   | 1 |   |  |    |  |                   |  |    |  |    |  |   |  |   |  |   |  |   |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



ARIZONA TAP MASTER  
5156 W. Olive Ave., #273  
Glendale, AZ 85302  
Phone (623) 776-3132 Fax (623) 776-3083  
ROC 257708

# Quotation

Date 6/13/2024

Quotation #  
Customer ID

## Quotation For:

Chad Watkins  
Waco  
Address  
City, State, Zip  
Phone:  
Cell: 602-390-7574  
Email: chad@wacoaz.com

Quotation valid until: 7/13/2024  
Prepared by: Matt Nuss

**Comments or Special Instructions: All work to be completed on straight time during normal business hours. Prevailing wage rates not applied. Materials do not meet AIS standards.**

| SALESPERSON | P.O. NUMBER | SHIP DATE | SHIP VIA | F.O.B. POINT | TERMS  |
|-------------|-------------|-----------|----------|--------------|--------|
| Matt Nuss   | Required    |           |          |              | Net 30 |

| QUANTITY | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                          | UNIT PRICE | AMOUNT       |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| 1        | 16" Line stop on DIP. ( DOM )<br>Line stop to be inline for one day. Each additional day will be billed at \$1,500.00 per day.<br>TMI to supply: Line stop fitting, double strap 16" x 2" saddle, corp, for blow down / equalization, install, pressure test, hot taps, line stop, equipment and labor.<br><br>Customer to supply: Please read all below.<br><br>Jobsite: PHX Valley | 19109.56   | 19,109.56    |
| SUBTOTAL |                                                                                                                                                                                                                                                                                                                                                                                      |            | \$ 19,109.56 |
| 0.0000%  |                                                                                                                                                                                                                                                                                                                                                                                      |            | \$ -         |
| TOTAL    |                                                                                                                                                                                                                                                                                                                                                                                      |            | \$ 19,109.56 |

If you have any questions concerning this quotation, contact Don Hardin  
Phone: (623) 776-3132 - E-mail: azhottaps@gmail.com

**THANK YOU FOR YOUR BUSINESS!**



ARIZONA TAP MASTER  
5156 W. Olive Ave., #273  
Glendale, AZ 85302  
Phone (623) 776-3132 Fax (623) 776-3083  
ROC 257708

# Quotation

Date 6/13/2024

Quotation #  
Customer ID

**Quotation For:**

Chad Watkins  
Waco  
Address  
City, State, Zip  
Phone:  
Cell: 602-390-7574  
Email: chad@wacoaz.com

Quotation valid until: 7/13/2024  
Prepared by: Matt Nuss

**Comments or Special Instructions: All work to be completed on straight time during normal business hours. Prevailing wage rates not applied. Valves do not meet AIS standards.**

| SALESPERSON | P.O. NUMBER | SHIP DATE | SHIP VIA | F.O.B. POINT | TERMS  |
|-------------|-------------|-----------|----------|--------------|--------|
| Matt Nuss   | Required    |           |          |              | Net 30 |

| QUANTITY | DESCRIPTION                                   | UNIT PRICE | AMOUNT       |
|----------|-----------------------------------------------|------------|--------------|
| 1        | 6" Mueller Perma Seal on PVC, DIP, ACP, CIP.  | 14022.45   | 14,022.45    |
| 1        | 8" Mueller Perma Seal on PVC, DIP, ACP, CIP.  | 16150.40   | 16,150.40    |
| 1        | 12" Mueller Perma Seal on PVC, DIP, ACP, CIP. | 30210.16   | 30,210.16    |
| 1        | 16" Hydra Stop IV 250 on PVC, DIP, ACP, CIP.  | 32000.00   | 32,000.00    |
|          | Out of town trip charges not included.        |            |              |
|          | Jobsite:                                      |            |              |
| SUBTOTAL |                                               |            | \$ 92,383.01 |
| 0.0000%  |                                               |            | \$ -         |
| TOTAL    |                                               |            | \$ 92,383.01 |

If you have any questions concerning this quotation, contact Don Hardin  
Phone: (623) 776-3132 - E-mail: azhottaps@gmail.com

**THANK YOU FOR YOUR BUSINESS!**



P1 Paving and Construction LLC.  
8550 n 91st ave, Suite 65  
Peoria AZ, 85383  
P1Paving.com

|                                                                                                             |                                                                                         |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| To: CHAD WATKINS<br>Company: WACO CONTRACTING<br>Address: CHANDLER GENERAL<br>Project: CHANDLER RESTORATION | Matt Tormey<br>602-359-1393<br><a href="mailto:Matt@p1paving.com">Matt@p1paving.com</a> |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|

| Item Description                                                                                                                                                                                                   | Quantity | Unit | Total price          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------------------|
| 1 saw cut minimum - includes up to 250 feet of 4" depth AC or 125 feet of 4" CC                                                                                                                                    | 1        | EA   | \$320 \$320.00       |
| 2 Asphalt replacement with Concrete valve adjustment<br>Includes 80 SF @ 4" depth or less - tack and crack seal.<br>Additional footage to be billed at \$6.50 / SF<br>Additional depth to be billed at \$1.25 / SF | 13       | EA   | \$4,500 \$58,500.00  |
| 3 Landscape valve adjustment                                                                                                                                                                                       | 6        | EA   | \$1,500 \$9,000.00   |
| 4 Concrete minimum mobilization - Based on minimum order quantity (3 yards)<br>Includes up to 225 SF of 4" depth concrete                                                                                          | 12       | EA   | \$3,300 \$39,600.00  |
| 5 Extended concrete, Partial ADA Ramp, Driveway etc. (based on 5 yards)<br>Includes up to 325 SF of 5" depth concrete - does not include truncated domes<br>Additional footage to be billed at \$15 / SF           | 11       | EA   | \$5,000 \$55,000.00  |
| 6 Full ADA Ramp<br>Includes truncated domes and up to 540 SF of 6" depth Concrete<br>Additional footage to be billed at \$15 / SF                                                                                  | 2        | EA   | \$12,500 \$25,000.00 |
| 7 Locate and Adjust vale to grade - standalone                                                                                                                                                                     | 3        | EA   | \$1,750 \$5,250.00   |
| <b>Total Bid Price:</b>                                                                                                                                                                                            |          |      | <b>\$192,670.00</b>  |

- Final invoice will be for the above quantity, if quantity is reduced P1 Paving must be notified and will need to re-bid
- Should the actual asphalt thickness exceed the asphalt thickness included in this proposal, the owner will be responsible for additional costs
- Final quantities greater than the above proposal will be billed at the same unit price
- **Saw cutting is NOT included unless specifically stated in the above proposal**
- Price is based on water being available on-site
- Any pre-existing ADA compliance issues are excluded
- Work performed on weekends WILL incur additional costs unless specifically stated in proposal
- P1 Paving is not responsible for ponding water where the grade is less than 2%
- P1 Paving is not responsible for pedestrian / bicycle / any traffic that travels through fresh concrete
- P1 Paving is not responsible for any utility lines that could be damaged through normal work
- Overlay projects are subject to reflective cracking and are not warrantied
- This proposal is valid for 30 days from submittal. After 30 days all proposals must be reviewed by P1 Paving and Construction

ACCEPTED:

The above prices and scope of work are accepted

Buyer: \_\_\_\_\_

Signature: \_\_\_\_\_

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

CONFIRMED:

**P1 PAVING AND CONSTRUCTION, LLC.**

**Matt Tormey**

Signature: \_\_\_\_\_

Date: 6/25/2024

**Gonzalez Asphalt Inc.**

3001 W Lincoln, Phoenix, AZ 85009

Tel 623-594-2245 Fax 623-243-6429

Estimating@gonzalezasphalt.com (Robert)

tony.rose@gonzalezasphalt.com (Tony)



|                          |                                    |
|--------------------------|------------------------------------|
| <b>Project Name:</b>     | Gonzalez Asphalt (general pricing) |
| <b>Project Location:</b> | Various Locations                  |
|                          | Phoenix AZ                         |

|                   |           |
|-------------------|-----------|
| <b>Proposal #</b> | 2023-503  |
| <b>Date:</b>      | 5/30/2024 |

| Line Item #  | Description of work                                                          | UNIT | Quantity | Unit Price | Total Price |
|--------------|------------------------------------------------------------------------------|------|----------|------------|-------------|
| 1            | Sidewalk (up to 5" depth)                                                    | SF   | 1        | 14.00      | 14.00       |
| 2            | ADA Ramps (single type)(No Aprons)                                           | EA   | 1        | 5,650.00   | 5,645.00    |
|              | Ramp approx 150SF                                                            | SF   | 150      | 22.00      | 3,300.00    |
|              | Back Curb Avg 15 LF                                                          | LF   | 15       | 29.00      | 435.00      |
|              | Curb/gutter Avg 30LF                                                         | LF   | 30       | 42.00      | 1,260.00    |
|              | Domes                                                                        | SF   | 10       | 65.00      | 650.00      |
| 3            | ADA ramps (dual)                                                             | EA   | 1        | 11,300.00  | 10,725.00   |
|              | Ramp approx 300SF                                                            | SF   | 300      | 22.00      | 6,600.00    |
|              | Back Curb Avg 25 LF                                                          | LF   | 25       | 29.00      | 725.00      |
|              | Curb/gutter Avg 50LF                                                         | LF   | 50       | 42.00      | 2,100.00    |
|              | Domes                                                                        | SF   | 10       | 65.00      | 650.00      |
| 4            | Concrete Aprons/driveways (up to 9" depth)                                   | SF   | 1        | 22.00      | 22.00       |
| 5            | Concrete Curb                                                                | LF   | 1        | 42.00      | 42.00       |
| 6            | Concrete placement per 1 inch depth                                          | SF   | 1        | 2.00       | 2.00        |
| Note:        | Minimum Concrete Trip Charge \$2500                                          |      |          |            |             |
| Asphalt Work | Bore Pit Patching (up to 4" depth)                                           | SF   | 1        | 9.00       | 9.00        |
|              | Pothole Patching (2x2)                                                       | EA   | 1        | 200.00     | 200.00      |
|              | Asphalt Patching                                                             | SF   | 1        | 9.00       | 9.00        |
|              | Asphalt patching Per 1 inch depth                                            | SF   | 1        | 1.25       | 1.25        |
| Note:        | Minimum Asphalt Trip Charge \$2000                                           |      |          |            |             |
|              | Weekend / Night Overtime Rate                                                | Day  | 1        | 1,000.00   | 1,000.00    |
|              | Plant opening Fee                                                            | EA   | 1        | 2,000.00   | 2,000.00    |
|              | Relocation charge (Same project only)                                        | EA   | 1        | 500.00     | 500.00      |
|              | (Same area up to 1 mile radius)                                              |      |          |            |             |
|              | (areas greater than 1 mile in distance will be billed as a separate Minimum) |      |          |            |             |
| Note:        | Traffic control will be quoted on per project basis if needed                |      |          |            |             |



Fullerform Systems Inc.  
24 East Pioneer St.  
PHOENIX, AZ 85040  
Phone (602) 268-5701



## Quotation

| EXPIRATION DATE                                                                             | QUOTE NUMBER |
|---------------------------------------------------------------------------------------------|--------------|
| 07/12/2024                                                                                  | S100040140   |
| Fullerform Systems Inc.<br>24 East Pioneer St.<br>PHOENIX, AZ 85040<br>Phone (602) 268-5701 | PAGE NO.     |
|                                                                                             | 1 of 2       |

QUOTE TO:

SHIP TO:

WACO CONTRACTING  
3250 S 35TH AVE  
PHOENIX, AZ 85009

WACO CONTRACTING  
3250 S 35TH AVE  
PHOENIX, AZ 85009

| CUSTOMER NUMBER | CUSTOMER PO NUMBER                                                             |          | JOB NAME / RELEASE NUMBER |             | SALESPERSON  |                 |
|-----------------|--------------------------------------------------------------------------------|----------|---------------------------|-------------|--------------|-----------------|
| 371             | City of Chandler Valve Replace                                                 |          |                           |             | JJ PARKINSON |                 |
| WRITER          |                                                                                | SHIP VIA | TERMS                     |             | SHIP DATE    | FREIGHT ALLOWED |
| LINDSAY VIKER   |                                                                                |          | Net 30 Days               |             | 06/12/2024   | No              |
| ORDER QTY       | DESCRIPTION                                                                    |          |                           | UNIT PRICE  |              | EXT PRICE       |
| 1ea             | 6" MJ X MJ GATE VALVE 2506-1 NRS W/<br>2" OP NUT                               |          |                           | 918.624/ea  |              | 918.62          |
| 2ea             | SGDP06 / 113829<br>6" DIP STARGRIP SERIES 3000 / TYLER<br>SERIES 1000 TUFGRIP  |          |                           | 34.472/ea   |              | 68.94           |
| 2ea             | MJBGAS06<br>6" MEGA LUG GASKET & BOLT KIT                                      |          |                           | 24.516/ea   |              | 49.03           |
| 18ft            | 6TJ350<br>6" TJ DIP CL350    6DIP350                                           |          |                           | 27.807/ft   |              | 500.52          |
| 2ea             | MACRO-6" / 260-0760831<br>6" TWO-BOLT WIDE RANGE COUP<br>6.60"-7.60"OD<br>--   |          |                           | 469.674/ea  |              | 939.35          |
| 1ea             | 8" MJ X MJ GATE VALVE 2508-1 NRS W/<br>2" OP NUT                               |          |                           | 1461.746/ea |              | 1461.75         |
| 2ea             | SGDP08 / 113836<br>8" DIP STARGRIP SERIES 3000 / TYLER<br>SERIES 1000 TUFGRIP  |          |                           | 51.803/ea   |              | 103.61          |
| 2ea             | MJBGAS08<br>8" MEGA LUG GASKET & BOLT KIT                                      |          |                           | 27.581/ea   |              | 55.16           |
| 18ft            | 8TJ350<br>8" TJ DIP CL350    8DIP350                                           |          |                           | 36.614/ft   |              | 659.05          |
| 2ea             | MACRO-8" / 260-0975831<br>8" TWO-BOLT WIDE RANGE COUP<br>8.60"-9.75"OD<br>--   |          |                           | 531.861/ea  |              | 1063.72         |
| 1ea             | 12" MJ X MJ GATE VALVE 2512-1 NRS<br>W/ 2" OP NUT                              |          |                           | 2883.694/ea |              | 2883.69         |
| 2ea             | SGDP12 / 113850<br>12" DIP STARGRIP SERIES 3000 /<br>TYLER SERIES 1000 TUFGRIP |          |                           | 111.865/ea  |              | 223.73          |
| 2ea             | MJBGAS12<br>12" MEGA LUG GASKET & BOLT KIT                                     |          |                           | 38.000/ea   |              | 76.00           |

\*\* Continued on Next Page \*\*



## Quotation

| EXPIRATION DATE | QUOTE NUMBER | PAGE NO. |
|-----------------|--------------|----------|
| 07/12/2024      | S100040140   | 2 of 2   |

| ORDER QTY                                                                                            | DESCRIPTION                                                                                                          | UNIT PRICE    | EXT PRICE |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| 18ft                                                                                                 | 12TJ350<br>12" TJ DIP CL350    12DIP350                                                                              | 56.102/ft     | 1009.84   |
| 2ea                                                                                                  | MACRO-12" / 260-1380831<br>12" TWO-BOLT WIDE RANGE COUP<br>12.70"-13.80"OD<br>--                                     | 809.696/ea    | 1619.39   |
| 1ea                                                                                                  | 2516-1 MxM<br>16" MJ X MJ GATE VALVE 2516-1 NRS<br>W/ 2" OP NUT                                                      | 8323.699/ea   | 8323.70   |
| 2ea                                                                                                  | SGDP16 / 113874<br>16" DIP STARGRIP SERIES 3000 /<br>TYLER SERIES 1000 TUFGRIP                                       | 211.918/ea    | 423.84    |
| 2ea                                                                                                  | MJBGAS16<br>16" MEGA LUG GASKET & BOLT KIT                                                                           | 60.065/ea     | 120.13    |
| 18ft                                                                                                 | 16TJ350<br>16" TJ DIP CL350    16DIP350                                                                              | 90.796/ft     | 1634.32   |
| 2ea                                                                                                  | MACRO-16" / 260-19201920851<br>16" TWO-BOLT WIDE RANGE COUP<br>17.10" - 19.20"<br>Non Return / Non Cancellable<br>-- | 2218.323/ea   | 4436.65   |
| 1ea                                                                                                  | VB-BOT-24"<br>562A 24" VALVE BOX BOTTOM                                                                              | 77.333/ea     | 77.33     |
| 1ea                                                                                                  | VB-TOP-16"<br>562A/564A 16" VALVE BOX TOP                                                                            | 77.333/ea     | 77.33     |
| 1ea                                                                                                  | VB-LID-LV<br>562A/564A VALVE BOX LID LONG VANES<br>(4" VANES LAS VEGAS / AVONDALE)                                   | 44.667/ea     | 44.67     |
| 1ea                                                                                                  | DC457-BLUE<br>BLUE 562A DEBRIS CAP                                                                                   | 70.000/ea     | 70.00     |
| *ALL PRODUCTS WILL BE PRICED IN EFFECT AT TIME OF SHIPMENT.<br>*DUE TO SUPPLY CHAIN PRICE INCREASES. |                                                                                                                      | Subtotal      | 26840.37  |
|                                                                                                      |                                                                                                                      | S&H Charges   | 0.00      |
|                                                                                                      |                                                                                                                      | Estimated Tax | 0.00      |
|                                                                                                      |                                                                                                                      | Amount Due    | 26840.37  |







## ALL AMERICAN TRAFFIC SERVICES, LLC

515 E. Carefree Hwy #361

PHOENIX, AZ 85085

OFF-623-670-4702

[Email-allamericantrafficservices@yahoo.com](mailto:Email-allamericantrafficservices@yahoo.com)

[Website-allamericantrafficservicesllc.com](http://Website-allamericantrafficservicesllc.com)

All American Traffic Services, LLC agrees to serve as a broker for off-duty P.O.S.T certified Police Officers to perform Traffic Control Services.

- A four-hour minimum will be billed on all jobs. Jobs that are cancelled less than 24 hours from the start of the job will be charged a four hour show up fee as well.
- Some agencies require more notice and are therefore subject to their cancellation policies.
- Arizona Department of Public Safety (DPS) charges for travel time, to and from the job.
- Payment for services are due 20 days from the invoice date.
- Invoices will be given on a weekly basis. Overtime applies on all traffic control jobs, except for DPS.
- Time & one half applies after eight hours. Double time applies after twelve hours.
- Holiday rate is Time & one half and applies to all Government Holidays.
- All hours will be rounded to the next half hour.
- Officers are independent contractors and will be held liable for all errors, omissions of his/her duties. All American Traffic Services, LLC is not responsible for any or all losses or suits including attorney fees arising from all situations performed by the subcontracted police officer. All American Traffic Services, LLC is not responsible for any back charges, shut down, for lost wages, equipment or any material expense incurred by Contractor.
- All American Traffic Services, LLC is available 24 hours a day 7 days a week.
- To enable us to provide the best services possible please try to schedule between normal Office hours, Monday-Friday 7:00 AM to 5:00 PM.
- **Rates: Phoenix-\$85.00, MCSO-\$85.00, DPS-\$120.00, Kingman-\$85.00, Tempe-\$85.00, Scottsdale-\$85.00, Chandler-\$95.00, Chandler SGT-\$120.00, Mesa-\$85.00, Paradise Valley-\$85.00, Tucson-\$85.00,**
- **Peoria-\$85.00, Pima \$85.00, Gilbert-\$85.00, Glendale-\$85.00, Flagstaff-\$120.00**

Thank you so much for giving All American Traffic Services, LLC the opportunity to supply our service. We look forward to working with you!

\_\_\_\_\_  
Company Representative

\_\_\_\_\_  
All American Traffic Services, LLC



| Description                      | UOM             | Price    |
|----------------------------------|-----------------|----------|
| Trailer Mounted Arrow Board      | Per Day         | \$44.00  |
| Message Board                    | Per Day         | \$69.00  |
| Vertical Panel                   | Per Day         | \$0.50   |
| Vertical Panel w/Steady Burn     | Per Day         | \$0.55   |
| Type I Barricade                 | Per Day         | \$0.70   |
| Type I Barricade w/Steady Burn   | Per Day         | \$0.80   |
| Type II Barricade                | Per Day         | \$0.75   |
| Type II Barricade w/Steady Burn  | Per Day         | \$0.90   |
| Type III Barricade               | Per Day         | \$0.80   |
| Type III Barricade w/Steady Burn | Per Day         | \$0.85   |
| Type A Flasher                   | Per Day         | \$0.45   |
| Type C Steady Burn               | Per Day         | \$0.50   |
| Sign                             | Per Day         | \$0.95   |
| Sign Stand                       | Per Day         | \$0.80   |
| Sign Stand w/Flasher             | Per Day         | \$1.00   |
| Sign Stand w/ 2 Flasher          | Per Day         | \$1.10   |
| Spring Sign Stand                | Per Day         | \$3.60   |
| Cone 28"                         | Per Day         | \$0.95   |
| Cone Reflective 28"              | Per Day         | \$1.10   |
| High Level Flag Tree             | Per Day         | \$3.00   |
| High Level Flag Tree w/Flasher   | Per Day         | \$4.00   |
| Sign Covers                      | Per Day         | \$1.10   |
| Flagman Paddles                  | Per Day         | \$7.00   |
| Sand Bags                        | Each            | \$3.50   |
| Flags with Dowels                | Each            | \$4.00   |
| Caution Tape 1000'               | Each            | \$23.00  |
| Pedestrian Ramp                  | Per Day         | \$35.00  |
| Trailer Ramp                     | Per Day         | \$90.00  |
| 1 Man 1 Truck On Site Time       | Per Hour        | \$80.00  |
| 2 Men 1 Truck On Site Time       | Per Hour        | \$120.00 |
| 2 Men 2 Trucks On Site Time      | Per Hour        | \$170.00 |
| Shadow Truck                     | Per Hour        | \$86.00  |
| Attenuator Truck                 | Per Day         | \$220.00 |
| Attenuator Truck                 | Per Hour        | \$75.00  |
| Flagger Each                     | Per Hour        | \$54.00  |
| Traffic Control Plan             | Each            | \$75.00  |
| Trailer Mounted Light Tower      | Per Day         | \$190.00 |
| Water Filled Barrier Wall        | Per Day         | \$3.75   |
| Airport Water Barrier w/ Flasher | Per Day         | \$9.50   |
| Pedestrian Fencing               | Per Day         | \$4.00   |
| Jersey Barrier                   | Per Linear Foot | \$0.55   |
| Jersey Barrier Delivery          | Per Linear Foot | \$40.00  |

|                                               |            |        |
|-----------------------------------------------|------------|--------|
| Trailer Mounted Light Tower                   | Ea/Day     | 130.00 |
| Trench plates 5 x 10                          | Per Day    | 5.60   |
| 1" Trench plates 5 x 8                        | Per Day    | 6.20   |
| 1 1/4" Trench plates 6 x 12                   | Per Day    | 8.05   |
| Water Filled Barrier Wall                     | Ea/Day     | 3.50   |
| Airport Water Barrier w/ flasher              | Ea/Day     | 8.00   |
| 1" Trench plates 6 x 10                       | Per Day    | 7.15   |
| 1" Trench plates 8 x 10                       | Per Day    | 8.20   |
| 3-way Bridle                                  | Per Day    | 4.00   |
| Light tower Fuel Fill _____ Customer Initials | Each       | 10.00  |
| Trailer Wheelchair/Sidewalk Ramp              | Per Day    | 50.00  |
| Handheld Radio                                | Ea/Day     | 5.00   |
| 1 Man 1 Truck On Site Time                    | Per Hour   | 65.00  |
| TRAILER RAMP                                  | Per Day    | 50.00  |
| PED FENCE                                     | Each       | 3.00   |
| TRAFFIC CONTROL PLAN                          | Each       | 65.00  |
| Cable Crossing Guard                          | LF         | 1.50   |
| Plate MOB                                     | Per Hour   | 90.00  |
| 1 6 x 8 Trench Plate                          | Per Day    | 6.75   |
| Cold Patch Box                                | Per Day    | 10.00  |
| Cold Patch Per Box                            | Per Each   | 250.00 |
| Cold Patch Per Ton                            | Per Ton    | 125.00 |
| Jersey Barrier Daily Rate                     | Per Ln. Ft | 0.45   |
| Jersey Wall - Delivery/ Pickup                | Per Ln. Ft | 37.00  |

## EXHIBIT C

### PERFORMANCE BOND

ARIZONA STATUTORY PERFORMANCE BOND  
PURSUANT TO TITLES 28, 34, AND 41, ARIZONA REVISED STATUTES  
(Penalty of this bond must be 100% of the Agreement amount)

**KNOW ALL MEN BY THESE PRESENTS THAT:** \_\_\_\_\_

(hereinafter "Principal"), and \_\_\_\_\_ (hereinafter "Surety"), a corporation organized and existing under the laws of the State of \_\_\_\_\_ with its principal office in the City of \_\_\_\_\_, holding a certificate of authority to transact surety business in Arizona issued by the Director of Insurance pursuant to Title 20, Chapter 2, Article 1, as Surety, are held and firmly bound unto \_\_\_\_\_ (hereinafter "Obligee") in the amount of \_\_\_\_\_ (Dollars) (\$ \_\_\_\_\_), for the payment whereof, 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 Agreement with the Obligee, dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ for construction of **Small Valve Replacement, WA2403.401** which Agreement is hereby referred to and made a part hereof as fully and to the same extent as if copies at length herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal faithfully performs and fulfills all the undertakings, covenants, terms, conditions and agreements of the Agreement during the original term of the Agreement and any extension of the Agreement, with or without notice of the Surety, and during the life of any guaranty required under the Agreement, and also performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of all duly authorized modifications of the Agreement 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 will be determined in accordance with the provisions of Title 34, Chapter 2, Article 2, Arizona Revised Statutes, to the same extent as if it were copied at length in this Agreement.

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

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SEAL

\_\_\_\_\_  
AGENT OF RECORD

By \_\_\_\_\_

\_\_\_\_\_  
SURETY

\_\_\_\_\_  
SEAL

## EXHIBIT D

### PAYMENT BOND

ARIZONA STATUTORY PAYMENT BOND  
PURSUANT TO TITLES 28, 34, AND 41, OF THE ARIZONA REVISED STATUTES  
(Penalty of this Bond must be 100% of the Agreement amount)

**KNOW ALL MEN BY THESE PRESENTS THAT:** \_\_\_\_\_

(hereinafter "Principal"), as Principal, and \_\_\_\_\_ (hereinafter "Surety"), a corporation organized and existing under the laws of the State of \_\_\_\_\_ with its principal office in the City of \_\_\_\_\_, holding a certificate of authority to transact surety business in Arizona issued by the Director of the Department of Insurance pursuant to Title 20, Chapter 2, Article 1, as Surety, are held and firmly bound unto \_\_\_\_\_ (hereinafter "Obligee") in the amount of \_\_\_\_\_ (Dollars) (\$\_\_\_\_\_), for the payment whereof, the 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 Agreement with the Obligee, dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ for construction of **Small Valve Replacement, WA2403.401** which Amendment 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 moneys 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 said Agreement, 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 will 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 it were copied at length in this Agreement.

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

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
PRINCIPAL

\_\_\_\_\_  
SEAL

\_\_\_\_\_  
AGENT OF RECORD

By \_\_\_\_\_

\_\_\_\_\_  
SURETY

\_\_\_\_\_  
SEAL

\_\_\_\_\_  
AGENT ADDRESS

EXHIBIT E

CONTRACTOR'S AFFIDAVIT REGARDING SETTLEMENT OF CLAIMS

\_\_\_\_\_, Arizona

Date \_\_\_\_\_

Project Name: **Small Valve Replacement**  
Project No.: **WA2403.401**

To the City of Chandler, Arizona

Gentlemen:

This is to certify that all lawful claims for materials, rental of equipment and labor used in connection with the construction of the above project, whether by subcontractor or claimant in person, have been duly discharged.

The undersigned, for the consideration of \$\_\_\_\_\_, as set out in the final pay estimate, as full and complete payment under the terms of the Agreement, hereby waives and relinquishes any and all further claims or right of lien under, in connection with, or as a result of the above described project. The undersigned further agrees to indemnify and save harmless the City of Chandler against any and all liens, claims or liens, suits, actions, damages, charges and expenses whatsoever, which said City may suffer arising out of the failure of the undersigned to pay for all labor performances and materials furnished for the performance of said installation.

Signed and dated at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
CONTRACTOR

By \_\_\_\_\_

STATE OF ARIZONA        )  
                                      ) SS  
COUNTY OF MARICOPA    )

The foregoing instrument was subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
My Commission Expires

## EXHIBIT F

### CERTIFICATE OF COMPLETION

Project: **Small Valve Replacement**

Project No.: **WA2403.401**

(TO BE COMPLETED BY CONTRACTOR)

I HEREBY CERTIFY THAT ALL GOODS AND/OR SERVICES REQUIRED BY CITY OF CHANDLER PROJECT NO. **WA2403.401** HAVE BEEN DELIVERED IN ACCORDANCE WITH THE AGREEMENT DOCUMENTS AND BID SPECIFICATIONS AND ALL ACTIVITIES REQUIRED BY THE CONTRACTOR UNDER THE AGREEMENT HAVE BEEN COMPLETED AS OF \_\_\_\_\_.

(Date)

FIRM NAME: \_\_\_\_\_

PRINCIPAL: \_\_\_\_\_

(Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title) DATE: \_\_\_\_\_

CERTIFIED BY ENGINEER/CONSULTANT (IF APPLICABLE):

\_\_\_\_\_  
(Signature) DATE: \_\_\_\_\_

\_\_\_\_\_  
(Firm Name)

---

### PROJECT ACCEPTED BY USER DEPARTMENT

\_\_\_\_\_  
(Signature) DATE: \_\_\_\_\_

\_\_\_\_\_  
(Dept. /Div.)

\_\_\_\_\_ Date of Final Walk-Through

\_\_\_\_\_ Date As-Built Received

\_\_\_\_\_ City As-Built Number

## **EXHIBIT G**

### **SUBCONTRACTOR DOCUMENTS WITH JOC CONTRACTOR**

**Any subcontractor assumptions, clarifications, exclusions, terms & conditions, signature blocks, etc. included are strictly between the JOC Contractor and their subcontractors, and do not apply to the Agreement between the JOC Contractor and the City.**



## **EXHIBIT H**

### **BUILDERS RISK INSURANCE**

## **EXHIBIT I**

### **GIS / GPS Data Delivery Requirements**

## **GIS / GPS Data Delivery Requirements**

Contractor must provide survey grade GPS / GIS data, meeting the following requirements for all facilities to be owned and/or operated by the City of Chandler.

a) ESRI File Geodatabase format:

All GPS point data, along with corresponding GIS Attribute data, must be submitted in ESRI File Geodatabase format. The City of Chandler will provide a copy of the File Geodatabase in ESRI ArcGIS format. Please submit your request through the Project Manager.

b) Data dictionary and Attribute data:

Attribute data should be provided for each of the GPS'd Utility Feature listed in Section 'd' below. All Attribute data should conform to the ESRI File Geodatabase format, provided by the City. A copy of the data dictionary is also attached here for reference

c) Coordinate System:

Horizontal Datum: Arizona State Plane Coordinates, Central Zone NAD83 (HARN)  
Vertical Datum: NAVD88

d) Point Data for GPS:

1) Water System Features:

- Water main location (top of pipe), size and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
- Water fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Line Stop, Reducer,
- Saddle, Other.
- Water valve location (center of valve box cover), size and type.
- Fire hydrant location (top of hydrant), manufacturer and year.
- Water service line location (at connection to main, any bends, and termination at meter box or meter vault or at the edge of easement or ROW), size and material.
- Water blow-off and air release valve location (center of cover), size, type and manufacturer.
- Water manhole or vault location (center of cover), size and type.

2) Waste Water System Features:

- Sewer manhole and cleanout location (center of cover), size, material, and cover type.
- Sewer gravity main location (invert of pipe), size, material and flow direction (from) at all manholes, cleanouts and structures.
- Sewer service line location, size and material (at connection to main, and termination at cleanout, or stub out at edge of the easement or ROW).
- Sewer force main location (top of pipe), size, and material (one (1) coordinate provided every 100 feet minimum) and at fittings.

- Sewer force main (and gravity) fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Linestop, Reducer, Saddle, Wye, Other
- Sewer force main valve location (center of valve box cover), size and type.
- Sewer force main air release valve location (center of cover), size, type and manufacturer.
- Sewer force main manhole or vault location (center of cover), size and material.
- Sewer structure (center of structure), type (diversion, junction box)

### 3) Reclaimed Water System Features:

- Reclaimed main location (top of pipe), size, and material (one (1) coordinate provided every 100 feet minimum) and at fittings.
- Reclaimed fitting location (top of feature), size, material and type including: Bend (22.5, 45, or 90), Tee, Tapping Sleeve, Cross, Coupling, End Cap, Linestop, Reducer, Saddle, Other.
- Reclaimed valve location (center of valve box cover), size and type.
- Reclaimed service line location (at connection to main, any bends, and termination at meter box or meter vault or at the edge of easement or ROW), size and material.
- Reclaimed blow-off and air release valve location (center of cover), size, type and manufacturer.
- Reclaimed manhole or vault location (center of cover), size and type.

### 4) Storm Water System Features:

- Storm manhole and cleanout location (center of cover), size, material, and cover type.
- Storm gravity main location (invert of pipe), size, material, and flow direction (from) at all manholes, cleanouts and structures.
- Storm structure location (center of structure), type and category including: Drywell, Catch Basin, Scupper, Bubbler Box, and Collection Vault.

### 5) Standard GPS Metadata on all points collected: Date, Time, Height, Horiz\_Precision, Vert\_Precision, Northing, Easting, Surveyor, Datafile, and Comments

## e) Electronic Data Submittal:

Each submittal must consist of

- 1) ESRI – ArcGIS Geodatabase with cumulative data and attributes, and
- 2) Construction plans with collected utilities clearly redlined and changes marked

The frequency of data submittal will be every two weeks after water, sewer, reclaim or storm assets go into the ground. Submittals can be emailed to: [GIS@chandleraz.gov](mailto:GIS@chandleraz.gov)

DATA DICTIONARY  
FOR  
WATER, SEWER, RECLAIM & STORM

# DATA DICTIONARY:

## WATER

|                   |                   |             |               |                      |
|-------------------|-------------------|-------------|---------------|----------------------|
| Water Fitting     |                   |             |               |                      |
|                   |                   |             |               |                      |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>        |
| OBJECTID          | OBJECTID          | OID         | 4             |                      |
| SHAPE             | SHAPE             | Geometry    | 0             |                      |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | WS_FEATUREOWNER      |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | WS_LIFECYCLESTATUS   |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | WS_SPATIALSOURCE_STD |
| MATERIAL          | MATERIAL          | String      | 20            |                      |
| DIAMETER1         | DIAMETER1         | String      | 8             | RWS_FITTING_DIAMETER |
| DIAMETER2         | DIAMETER2         | String      | 8             |                      |
| ROTATION          | ROTATION          | Double      | 8             |                      |
| GPSOID            | GPSOID            | Integer     | 4             |                      |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                      |
| GPS_TIME          | GPS_TIME          | String      | 10            |                      |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                      |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                      |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                      |
| NORTHING          | NORTHING          | Double      | 8             |                      |
| EASTING           | EASTING           | Double      | 8             |                      |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                      |
| TYPE              | TYPE              | String      | 30            | WS_FITTING_TYPE      |
| BEND              | BEND              | String      | 20            | WS_FITTING_BEND      |

|                     |                       |             |               |                      |
|---------------------|-----------------------|-------------|---------------|----------------------|
| Water Hydrant       |                       |             |               |                      |
|                     |                       |             |               |                      |
| <b>Field Name</b>   | <b>Alias Name</b>     | <b>Type</b> | <b>Length</b> | <b>Domain</b>        |
| OBJECTID            | OBJECTID              | OID         | 4             |                      |
| SHAPE               | SHAPE                 | Geometry    | 0             |                      |
| FEATUREOWNER        | Feature Owner         | String      | 25            | WS_FEATUREOWNER      |
| LIFECYCLESTATUS     | Lifecycle Status      | String      | 25            | WS_LIFECYCLESTATUS   |
| SPATIALSOURCE       | Spatial Source        | String      | 25            | WS_SPATIALSOURCE_STD |
| BARRELDIAMETER      | Barrel Diameter       | Double      | 8             |                      |
| LARGENOZZLEDIAMETER | Large Nozzle Diameter | Double      | 8             |                      |
| SMALLNOZZLEDIAMETER | Small Nozzle Diameter | Double      | 8             |                      |
| OUTLETCONFIGURATION | Outlet Configuration  | Double      | 8             |                      |
| SEATDIAMETER        | Seat Diameter         | Double      | 8             |                      |
| MANUFACTURER        | Manufacturer          | String      | 25            | WS_HYD_MANUFACTURER  |
| YEARMANUFACTURED    | Manufacture Year      | String      | 25            |                      |
| HASLOCK             | Has Lock ?            | String      | 25            | GIS_BOOLEAN_YES_NO   |
| COLOR               | Color                 | String      | 25            |                      |
| ROTATION            | Symbol Rotation       | Double      | 8             |                      |
| GPSOID              | GPS ObjectID          | Integer     | 4             |                      |
| GPS_DATE            | GPS_DATE              | Date        | 8             |                      |
| GPS_TIME            | GPS_TIME              | String      | 25            |                      |
| GPS_HEIGHT          | GPS_HEIGHT            | Double      | 8             |                      |
| HORZ_PREC           | HORZ_PREC             | String      | 25            |                      |
| VERT_PREC           | VERT_PREC             | String      | 25            |                      |
| NORTHING            | NORTHING              | String      | 25            |                      |
| EASTING             | EASTING               | String      | 25            |                      |
| DATAFILE            | DATAFILE              | String      | 25            |                      |
| GPS_COMMENT         | GPS_COMMENT           | String      | 50            |                      |



|                   |                   |             |               |                           |
|-------------------|-------------------|-------------|---------------|---------------------------|
| WATER VALVE       |                   |             |               |                           |
|                   |                   |             |               |                           |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>             |
| OBJECTID          | OBJECTID          | OID         | 4             |                           |
| SHAPE             | SHAPE             | Geometry    | 0             |                           |
| FEATUREOWNER      | FEATURE OWNER     | String      | 20            | RWS_SYSVAL_FUNCTION       |
| LIFECYCLESTATUS   | LIFECYCLE STATUS  | String      | 20            | WS_SYSVAL_LIFECYCLESTATUS |
| SPATIALSOURCE     | SPATIAL SOURCE    | String      | 20            | WS_SYSVAL_SPATIALSOURCE   |
| TYPE              | TYPE              | String      | 25            | RWS_SYSVAL_TYPE           |
| VALVETYPE         | VALVE TYPE        | String      | 10            | RWS_SYSVAL_VALVETYPE      |
| GROUNDTYPE        | GROUNDTYPE        | String      | 25            | WS_SYSVAL_GROUNDTYPE      |
| DIAMETER          | Diameter          | String      | 8             | WS_SYSVAL_DIAM            |
| GPSOID            | GPS OBJECTID      | Integer     | 4             |                           |
| GPS_DATE          | GPS DATE          | Date        | 8             |                           |
| GPS_TIME          | GPS TIME          | String      | 10            |                           |
| GPS_HEIGHT        | GPS HEIGHT        | Double      | 8             |                           |
| HORZ_PREC         | HORZ PREC         | Double      | 8             |                           |
| VERT_PREC         | VERT PREC         | Double      | 8             |                           |
| NORTHING          | NORTHING          | Double      | 8             |                           |
| EASTING           | EASTING           | Double      | 8             |                           |
| DATAFILE          | DATAFILE          | String      | 20            |                           |
| GPS_COMMENT       | GPS COMMENT       | String      | 30            |                           |
| WO_CAT_CODE       | WO CAT CODE       | String      | 10            |                           |
| WO_CAT            | WO CAT            | String      | 25            |                           |

|                   |                   |             |               |                      |
|-------------------|-------------------|-------------|---------------|----------------------|
| WATER MANHOLE     |                   |             |               |                      |
|                   |                   |             |               |                      |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>        |
| OBJECTID          | OBJECTID          | OID         | 4             |                      |
| SHAPE             | SHAPE             | Geometry    | 0             |                      |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | WS_FEATUREOWNER      |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | WS_LIFECYCLESTATUS   |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | WS_SPATIALSOURCE_STD |
| ACCESSDIAMETER    | ACCESSDIAMETER    | String      | 8             |                      |
| ACCESSTYPE        | ACCESSTYPE        | String      | 20            |                      |
| GROUNDTYPE        | GROUNDTYPE        | String      | 20            | WS_SYSVAL_GROUNDTYPE |
| COVERMATERIAL     | COVERMATERIAL     | String      | 10            |                      |
| COVERTYPE         | COVERTYPE         | String      | 8             |                      |
| GPSOID            | GPSOID            | Integer     | 4             |                      |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                      |
| GPS_TIME          | GPS_TIME          | String      | 10            |                      |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                      |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                      |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                      |
| NORTHING          | NORTHING          | Double      | 8             |                      |
| EASTING           | EASTING           | Double      | 8             |                      |
| DATAFILE          | DATAFILE          | String      | 20            |                      |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                      |

|                   |                   |                                                        |               |               |
|-------------------|-------------------|--------------------------------------------------------|---------------|---------------|
| WATER MISC PNT    |                   | This feature is used for any miscellaneous information |               |               |
|                   |                   |                                                        |               |               |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b>                                            | <b>Length</b> | <b>Domain</b> |
| OBJECTID          | OBJECTID          | OID                                                    | 4             |               |
| SHAPE             | SHAPE             | Geometry                                               | 0             |               |
| GPSOID            | GPSOID            | Integer                                                | 4             |               |
| GPS_DATE          | GPS_DATE          | Date                                                   | 8             |               |
| GPS_TIME          | GPS_TIME          | String                                                 | 10            |               |
| GPS_HEIGHT        | GPS_HEIGHT        | Double                                                 | 8             |               |
| HORZ_PREC         | HORZ_PREC         | Double                                                 | 8             |               |
| VERT_PREC         | VERT_PREC         | Double                                                 | 8             |               |
| NORTHING          | NORTHING          | Double                                                 | 8             |               |
| EASTING           | EASTING           | Double                                                 | 8             |               |
| DATAFILE          | DATAFILE          | String                                                 | 20            |               |
| GPS_COMMENT       | GPS_COMMENT       | String                                                 | 50            |               |
| NOTES             | NOTES             | String                                                 | 150           |               |
| SIZE              | SIZE              | Double                                                 | 8             |               |

**Water Domains:**

| Domain name     | WS_LIFECYCLESTATUS      |
|-----------------|-------------------------|
| ABANDONED       | ABANDONED               |
| ACTIVE          | ACTIVE                  |
| FUTURE          | FUTURE                  |
| INACTIVE        | INACTIVE                |
| REMOVED         | REMOVED                 |
| UNKNOWN         | UNKNOWN                 |
|                 |                         |
|                 |                         |
| Domain name     | WS_SYSVAL_SPATIALSOURCE |
| APPROVED PLANS  | APPROVED PLANS          |
| ASBUILT         | ASBUILT                 |
| DESIGN          | DESIGN                  |
| GPS             | GPS                     |
| HYDRMAINT       | HYDRMAINT               |
| ORTHOPHOTO      | ORTHOPHOTO              |
| TM7             | TM7                     |
| UNKNOWN         | UNKNOWN                 |
|                 |                         |
| Domain name     | WS_HYD_MANUFACTURER     |
| AMERICANDARLING | AMERICANDARLING         |
| AVK             | AVK                     |
| CLOW            | CLOW                    |
| DRESSER         | DRESSER                 |
| GREENBERG       | GREENBERG               |
| KENNEDY         | KENNEDY                 |
| MUELLER         | MUELLER                 |
| PACIFIC         | PACIFIC                 |
| UNKNOWN         | UNKNOWN                 |
| WATEROUS        | WATEROUS                |
|                 |                         |

| Domain name | WS_FEATUREOWNER |
|-------------|-----------------|
| COC         | Chandler        |
| COG         | Gilbert         |
| COM         | Mesa            |
| COP         | Phoenix         |
| COT         | Tempe           |
| COUNTY      | Maricopa County |
| GOULD       | Gould           |
| GRIC        | GRIC            |
| INTEL       | Intel           |
| MICROCHIP   | Microchip       |
| MOTOROLA    | Motorola        |
| PRIVATE     | Private         |
| SRP         | SRP             |
| SRVWUA      | SRVWUA          |
| UNKNOWN     | UNKNOWN         |

| Domain name | WS_SYSVAL_LIFECYCLESTATUS |
|-------------|---------------------------|
| FUTURE      | FUTURE                    |
| UNKNOWN     | UNKNOWN                   |
| INACTIVE    | INACTIVE                  |
| ACTIVE      | ACTIVE                    |
| REMOVED     | REMOVED                   |
| ABANDONED   | ABANDONED                 |

| Domain name | WS_FITTING_BEND |
|-------------|-----------------|
| HORIZONTAL  | HORIZONTAL      |
| VERTICAL    | VERTICAL        |
|             |                 |
| Domain name | WS_SYSVAL_DIAM  |
| 2           | 2               |
| 3           | 3               |
| 4           | 4               |
| 6           | 6               |
| 8           | 8               |
| 10          | 10              |
| 12          | 12              |
| 16          | 16              |
| 20          | 20              |
| 24          | 24              |
| 30          | 30              |
| 36          | 36              |
| 42          | 42              |
| 48          | 48              |
| 54          | 54              |

| Domain name    | WS_FITTING_TYPE      |
|----------------|----------------------|
| 11B            | 11B                  |
| 22B            | 22B                  |
| 45B            | 45B                  |
| 90B            | 90B                  |
| COUPLING       | COUPLING             |
| CROSS          | CROSS                |
| ENDCAP         | ENDCAP               |
| LINESTOP       | LINESTOP             |
| OTHER          | OTHER                |
| REDUCER        | REDUCER              |
| SADDLE         | SADDLE               |
| TAPPING SLEEVE | TAPPING SLEEVE       |
| TEE            | TEE                  |
| UNKNOWN        | UNKNOWN              |
| WYE            | WYE                  |
|                |                      |
| Domain name    | WS_SYSVAL_GROUNDTYPE |
| CONCRETE       | CONCRETE             |
| ASPHALT        | ASPHALT              |
| LANDSCAPE      | LANDSCAPE            |
| UNKNOWN        | UNKNOWN              |
|                |                      |
| Domain name    | WS_SPATIALSOURCE_STD |
| ASBUILT        | ASBUILT              |
| DESIGN         | DESIGN               |
| FIELD          | FIELD                |
| GPS            | GPS                  |
| ORTHOPHOTO     | ORTHOPHOTO           |
| UNKNOWN        | UNKNOWN              |

# DATA DICTIONARY:

## SEWER

|                   |                   |             |               |                    |
|-------------------|-------------------|-------------|---------------|--------------------|
| SEWER CLEANOUT    |                   |             |               |                    |
|                   |                   |             |               |                    |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>      |
| OBJECTID          | OBJECTID          | OID         | 4             |                    |
| SHAPE             | SHAPE             | Geometry    | 0             |                    |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | WW_FEATUREOWNER    |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | WW_LIFECYCLESTATUS |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | WW_SPATIALSOURCE   |
| RIM_ELEV          | RIM_ELEV          | Double      | 8             |                    |
| INV_ELEV          | INV_ELEV          | Double      | 8             |                    |
| GPSOID            | GPSOID            | Integer     | 4             |                    |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                    |
| GPS_TIME          | GPS_TIME          | String      | 10            |                    |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                    |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                    |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                    |
| NORTHING          | NORTHING          | Double      | 8             |                    |
| EASTING           | EASTING           | Double      | 8             |                    |
| DATAFILE          | DATAFILE          | String      | 20            |                    |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                    |

|                     |                   |             |               |                    |
|---------------------|-------------------|-------------|---------------|--------------------|
| SEWER CONTROL VALVE |                   |             |               |                    |
|                     |                   |             |               |                    |
| <b>Field Name</b>   | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>      |
| OBJECTID            | OBJECTID          | OID         | 4             |                    |
| SHAPE               | SHAPE             | Geometry    | 0             |                    |
| TYPE                | TYPE              | String      | 25            |                    |
| FEATUREOWNER        | FEATUREOWNER      | String      | 20            | WW_FEATUREOWNER    |
| LIFECYCLESTATUS     | LIFECYCLESTATUS   | String      | 20            | WW_LIFECYCLESTATUS |
| SPATIALSOURCE       | SPATIALSOURCE     | String      | 20            | WW_SPATIALSOURCE   |
| DIAMETER            | DIAMETER          | String      | 8             |                    |
| GPSOID              | GPSOID            | Integer     | 4             |                    |
| GPS_DATE            | GPS_DATE          | Date        | 8             |                    |
| GPS_TIME            | GPS_TIME          | String      | 10            |                    |
| GPS_HEIGHT          | GPS_HEIGHT        | Double      | 8             |                    |
| HORZ_PREC           | HORZ_PREC         | Double      | 8             |                    |
| VERT_PREC           | VERT_PREC         | Double      | 8             |                    |
| NORTHING            | NORTHING          | Double      | 8             |                    |
| EASTING             | EASTING           | Double      | 8             |                    |
| DATAFILE            | DATAFILE          | String      | 20            |                    |
| GPS_COMMENT         | GPS_COMMENT       | String      | 30            |                    |



|                   |                   |             |               |                    |
|-------------------|-------------------|-------------|---------------|--------------------|
| SEWER_FITTING     |                   |             |               |                    |
|                   |                   |             |               |                    |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>      |
| OBJECTID          | OBJECTID          | OID         | 4             |                    |
| SHAPE             | SHAPE             | Geometry    | 0             |                    |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | WW_FEATUREOWNER    |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | WW_LIFECYCLESTATUS |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | WW_SPATIALSOURCE   |
| MATERIAL          | MATERIAL TYPE     | String      | 20            |                    |
| TYPE              | TYPE              | String      | 30            |                    |
| BEND              | BEND              | String      | 20            |                    |
| GPSOID            | GPSOID            | Integer     | 4             |                    |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                    |
| GPS_TIME          | GPS_TIME          | String      | 10            |                    |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                    |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                    |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                    |
| NORTHING          | NORTHING          | Double      | 8             |                    |
| EASTING           | EASTING           | Double      | 8             |                    |
| DATAFILE          | DATAFILE          | String      | 20            |                    |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                    |
| SIZE_             | SIZE OF FITTING   | String      | 20            |                    |

|                   |                   |             |               |                      |
|-------------------|-------------------|-------------|---------------|----------------------|
| SEWER_MANHOLE     |                   |             |               |                      |
|                   |                   |             |               |                      |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>        |
| OBJECTID          | OBJECTID          | OID         | 4             |                      |
| SHAPE             | SHAPE             | Geometry    | 0             |                      |
| FEATUREOWNER      | FEATUREOWNER      | String      | 25            | WW_FEATUREOWNER      |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 25            | WW_LIFECYCLESTATUS   |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | WW_SPATIALSOURCE     |
| LID               | LID TYPE          | String      | 20            |                      |
| TYPE              | TYPE              | String      | 20            | WW_MH_TYPE           |
| COVER_MATERIAL    | COVER_MATERIAL    | String      | 25            | WW_MH_COVER_MATERIAL |
| COVER_HOLE        | COVER_HOLE        | String      | 25            | WW_MH_COVER_HOLE     |
| COVER_SIZE        | COVER_SIZE        | String      | 20            | WW_MH_COVER_SIZE     |
| RIM_ELEV          | RIM_ELEV          | Double      | 8             |                      |
| INV_ELEV          | INV_ELEV          | Double      | 8             |                      |
| GPSOID            | GPSOID            | Integer     | 4             |                      |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                      |
| GPS_TIME          | GPS_TIME          | String      | 10            |                      |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                      |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                      |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                      |
| NORTHING          | NORTHING          | Double      | 8             |                      |
| EASTING           | EASTING           | Double      | 8             |                      |
| DATAFILE          | DATAFILE          | String      | 20            |                      |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                      |
| LINER             | LINER             | String      | 50            | WW_MH_LINER          |
| WALL_MATERIAL     | WALL_MATERIAL     | String      | 50            | WW_MH_WALL_MATERIAL  |

|                   |                   |                                |               |               |
|-------------------|-------------------|--------------------------------|---------------|---------------|
| SEWER_MISC        |                   | For any Miscellaneous features |               |               |
|                   |                   |                                |               |               |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b>                    | <b>Length</b> | <b>Domain</b> |
| OBJECTID          | OBJECTID          | OID                            | 4             |               |
| SHAPE             | SHAPE             | Geometry                       | 0             |               |
| SPATIALSOURCE     | SPATIALSOURCE     | String                         | 20            |               |
| MATERIAL          | MATERIAL          | String                         | 20            |               |
| TYPE              | TYPE              | String                         | 30            |               |
| BEND              | BEND              | String                         | 20            |               |
| NOTES             | NOTES             | String                         | 255           |               |
| GPSOID            | GPSOID            | Integer                        | 4             |               |
| GPS_DATE          | GPS_DATE          | Date                           | 8             |               |
| GPS_TIME          | GPS_TIME          | String                         | 10            |               |
| GPS_HEIGHT        | GPS_HEIGHT        | Double                         | 8             |               |
| HORZ_PREC         | HORZ_PREC         | Double                         | 8             |               |
| VERT_PREC         | VERT_PREC         | Double                         | 8             |               |
| NORTHING          | NORTHING          | Double                         | 8             |               |
| EASTING           | EASTING           | Double                         | 8             |               |
| DATAFILE          | DATAFILE          | String                         | 20            |               |
| GPS_COMMENT       | GPS_COMMENT       | String                         | 30            |               |
| SIZE_             | SIZE_             | String                         | 20            |               |

**Sewer Domains:**

| Domain name       | WW_FEATUREOWNER    |
|-------------------|--------------------|
| COC               | COC                |
| PRIVATE           | PRIVATE            |
| TOG               | TOG                |
| UNKNOWN           | UNKNOWN            |
|                   |                    |
| Domain name       | WW_SPATIALSOURCE   |
| GPS               | GPS                |
| ASBUILT           | ASBUILT            |
| UNKNOWN           | UNKNOWN            |
|                   |                    |
| Domain name       | WW_MH_COVER_HOLE   |
| UNKNOWN           | UNKNOWN            |
| SEALED            | SEALED             |
|                   |                    |
| Domain name       | WW_MH_LINER        |
| CAST-IN-PLACE     | CAST-IN-PLACE      |
| CEMENTITIOUS      | CEMENTITIOUS       |
| COMPOSITE         | COMPOSITE          |
| CURED-IN-PLACE    | CURED-IN-PLACE     |
| EPOXY             | EPOXY              |
| FR PLASTIC INSERT | FR PLASTIC INSERT  |
| FR POLYMER INSERT | FR POLYMER INSERT  |
| INSERT            | INSERT             |
| UNKNOWN           | UNKNOWN            |
|                   |                    |
| Domain name       | WW_LIFECYCLESTATUS |
| ABANDONED         | ABANDONED          |
| ACTIVE            | ACTIVE             |
| INACTIVE          | INACTIVE           |
| PULLED            | PULLED             |
| UNKNOWN           | UNKNOWN            |

| Domain name           | WW_MH_COVER_MATERIAL  |
|-----------------------|-----------------------|
| ALUMINUM              | ALUMINUM              |
| CASTIRON              | CASTIRON              |
| HDPE COMPOSITE - CAP  | HDPE COMPOSITE - CAP  |
| HDPE COMPOSITE - EJ   | HDPE COMPOSITE - EJ   |
| HDPE COMPOSITE - HD20 | HDPE COMPOSITE - HD20 |
| STEEL                 | STEEL                 |
| UNKNOWN               | UNKNOWN               |
|                       |                       |
| Domain name           | WW_MH_COVER_SIZE      |
| 0                     | Unknown               |
| 4                     | 4                     |
| 6                     | 6                     |
| 8                     | 8                     |
| 22                    | 22                    |
| 24                    | 24                    |
| 26                    | 26                    |
| 28                    | 28                    |
| 30                    | 30                    |
| 32                    | 32                    |
| 38                    | 38                    |
| 48                    | 48                    |
| 60                    | 60                    |
|                       |                       |
| Domain name           | WW_MH_WALL_MATERIAL   |
| NONE                  | NONE                  |
| COMPOSITE             | COMPOSITE             |
| UNKNOWN               | UNKNOWN               |
| CONCRETE              | CONCRETE              |
| POURED                | POURED                |
| TLOCK                 | TLOCK                 |
| PRECAST               | PRECAST               |
| BRICK                 | BRICK                 |

| Domain name | WW_MH_TYPE     |
|-------------|----------------|
| 0           | UNKNOWN        |
| 1           | SANITARY SEWER |
| 2           | ARV            |

# DATA DICTIONARY: RECLAIM

|                   |                   |             |               |                              |
|-------------------|-------------------|-------------|---------------|------------------------------|
| RECLAIM_FITTING   |                   |             |               |                              |
|                   |                   |             |               |                              |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>                |
| OBJECTID          | OBJECTID          | OID         | 4             |                              |
| SHAPE             | SHAPE             | Geometry    | 0             |                              |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | RWS_FEATUREOWNER             |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | RWS_LIFECYCLESTATUS          |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | RWS_SPATIALSOURCE            |
| MATERIAL          | MATERIAL          | String      | 20            | RWS_MAIN_OR_SERVICE_MATERIAL |
| DIAMETER1         | DIAMETER1         | String      | 8             | RWS_FITTING_DIAMETER         |
| DIAMETER2         | DIAMETER2         | String      | 8             | RWS_FITTING_DIAMETER         |
| TYPE              | TYPE              | String      | 30            | RWS_FITTING_TYPE             |
| BEND              | BEND              | String      | 20            | RWS_FITTING_BEND             |
| GPSOID            | GPSOID            | Integer     | 4             |                              |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                              |
| GPS_TIME          | GPS_TIME          | String      | 10            |                              |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                              |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                              |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                              |
| NORTHING          | NORTHING          | Double      | 8             |                              |
| EASTING           | EASTING           | Double      | 8             |                              |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                              |

|                     |                   |             |               |               |
|---------------------|-------------------|-------------|---------------|---------------|
| RECLAIM_MISC_STRUCT |                   |             |               |               |
|                     |                   |             |               |               |
| <b>Field Name</b>   | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b> |
| OBJECTID            | OBJECTID          | OID         | 4             |               |
| SHAPE               | SHAPE             | Geometry    | 0             |               |
| TYPE                | SUBTYPE           | String      | 20            |               |
| GPSOID              | GPSOID            | Integer     | 4             |               |
| GPS_DATE            | GPS_DATE          | Date        | 8             |               |
| GPS_TIME            | GPS_TIME          | String      | 10            |               |
| GPS_HEIGHT          | GPS_HEIGHT        | Double      | 8             |               |
| HORZ_PREC           | HORZ_PREC         | Double      | 8             |               |
| VERT_PREC           | VERT_PREC         | Double      | 8             |               |
| NORTHING            | NORTHING          | Double      | 8             |               |
| EASTING             | EASTING           | Double      | 8             |               |
| GPS_COMMENT         | GPS_COMMENT       | String      | 50            |               |
| NOTES               | Notes             | String      | 150           |               |



|                   |                   |             |               |                     |
|-------------------|-------------------|-------------|---------------|---------------------|
| RECLAIM_MANHOLE   |                   |             |               |                     |
|                   |                   |             |               |                     |
| <b>Field Name</b> | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>       |
| OBJECTID          | OBJECTID          | OID         | 4             |                     |
| SHAPE             | SHAPE             | Geometry    | 0             |                     |
| FEATUREOWNER      | FEATUREOWNER      | String      | 20            | RWS_FEATUREOWNER    |
| LIFECYCLESTATUS   | LIFECYCLESTATUS   | String      | 20            | RWS_LIFECYCLESTATUS |
| SPATIALSOURCE     | SPATIALSOURCE     | String      | 20            | RWS_SPATIALSOURCE   |
| ACCESSDIAMETER    | ACCESSDIAMETER    | String      | 8             | RWS_GROUNDTYPE      |
| GROUNDTYPE        | GROUNDTYPE        | String      | 20            |                     |
| COVERMATERIAL     | COVERMATERIAL     | String      | 10            |                     |
| COVERTYPE         | COVERTYPE         | String      | 8             |                     |
| GPSOID            | GPSOID            | Integer     | 4             |                     |
| GPS_DATE          | GPS_DATE          | Date        | 8             |                     |
| GPS_TIME          | GPS_TIME          | String      | 10            |                     |
| GPS_HEIGHT        | GPS_HEIGHT        | Double      | 8             |                     |
| HORZ_PREC         | HORZ_PREC         | Double      | 8             |                     |
| VERT_PREC         | VERT_PREC         | Double      | 8             |                     |
| NORTHING          | NORTHING          | Double      | 8             |                     |
| EASTING           | EASTING           | Double      | 8             |                     |
| GPS_COMMENT       | GPS_COMMENT       | String      | 30            |                     |

|                      |                   |             |               |                       |
|----------------------|-------------------|-------------|---------------|-----------------------|
| RECLAIM SYSTEM VALVE |                   |             |               |                       |
|                      |                   |             |               |                       |
| <b>Field Name</b>    | <b>Alias Name</b> | <b>Type</b> | <b>Length</b> | <b>Domain</b>         |
| OBJECTID             | OBJECTID          | OID         | 4             |                       |
| SHAPE                | SHAPE             | Geometry    | 0             |                       |
| FEATUREOWNER         | FEATURE OWNER     | String      | 20            | RWS_FEATUREOWNER      |
| LIFECYCLESTATUS      | LIFECYCLE STATUS  | String      | 20            | RWS_LIFECYCLESTATUS   |
| SPATIALSOURCE        | SPATIAL SOURCE    | String      | 20            | RWS_SPATIALSOURCE     |
| TYPE                 | TYPE              | String      | 25            | RWS_SYSVAL_TYPE       |
| VALVETYPE            | VALVE TYPE        | String      | 10            | RWS_SYSVAL_VALVETYPE  |
| FUNCTION             | FUNCTION          | String      | 25            | RWS_SYSVAL_FUNCTION   |
| GROUNDTYPE           | GROUNDTYPE        | String      | 25            | RWS_SYSVAL_GROUNDTYPE |
| GPSOID               | GPS OBJECTID      | Integer     | 4             |                       |
| GPS_DATE             | GPS DATE          | Date        | 8             |                       |
| GPS_TIME             | GPS TIME          | String      | 10            |                       |
| GPS_HEIGHT           | GPS HEIGHT        | Double      | 8             |                       |
| HORZ_PREC            | HORZ PREC         | Double      | 8             |                       |
| VERT_PREC            | VERT PREC         | Double      | 8             |                       |
| NORTHING             | NORTHING          | Double      | 8             |                       |
| EASTING              | EASTING           | Double      | 8             |                       |
| GPS_COMMENT          | GPS COMMENT       | String      | 30            |                       |
| WO_ZONE              | WO ZONE           | Double      | 8             |                       |
| DIAMETER             | DIAMETER          | Double      | 8             | RWS_SYSVAL_DIAM       |
| WO_CAT_CODE          | WO_CAT_CODE       | String      | 10            |                       |

**Reclaim Domains:**

| Domain name | RWS_SYSVAL_VALVETYPE |
|-------------|----------------------|
| BALL        | BALL                 |
| BUTTERFLY   | BUTTERFLY            |
| GATE        | GATE                 |
| INSERTA     | INSERTA              |
| UNKNOWN     | UNKNOWN              |
|             |                      |
| Domain name | RWS_SYSVAL_FUNCTION  |
| ARV         | ARV                  |
| INLINE      | INLINE               |
| PUMPOUT     | PUMPOUT              |
| PUMPSTATION | PUMPSTATION          |
| SERVICE     | SERVICE              |
| STUBOUT     | STUBOUT              |
| UNKNOWN     | UNKNOWN              |
| VAULT       | VAULT                |
|             |                      |
| Domain name | RWS_SYSVAL_TYPE      |
| ARV         | ARV                  |
| BLOWOFF     | BLOWOFF              |
| STANDARD    | STANDARD             |
|             |                      |
| Domain name | RWS_FEATUREOWNER     |
| COC         | CHANDLER             |
| COM         | MESA                 |
| INTEL       | INTEL                |
| OCA         | OCA                  |
| OMG         | OMG                  |
| PRIVATE     | PRIVATE              |
| SRP         | SRP                  |
| TOG         | GILBERT              |
| UNKNOWN     | UNKNOWN              |

| Domain name      | RWS_FITTING_BEND             |
|------------------|------------------------------|
| HORIZONTAL       | HORIZONTAL                   |
| VERTICAL         | VERTICAL                     |
|                  |                              |
| Domain name      | RWS_MAIN_OR_SERVICE_MATERIAL |
| AC               | AC                           |
| CC               | CC                           |
| CI               | CI                           |
| CU               | COPPER                       |
| DI               | DI                           |
| PVC              | PVC                          |
| UNKNOWN          | UNKNOWN                      |
|                  |                              |
| Domain name      | RWS_FITTING_TYPE             |
| 11B              | 11B                          |
| 22B              | 22B                          |
| 45B              | 45B                          |
| 90B              | 90B                          |
| COUPLING         | COUPLING                     |
| CROSS            | CROSS                        |
| ENDCAP           | ENDCAP                       |
| LINESTOP         | LINESTOP                     |
| MECHANICAL JOINT | MECHANICAL JOINT             |
| OTHER            | OTHER                        |
| RECHARGE WELL    | RECHARGE WELL                |
| REDUCER          | REDUCER                      |
| SADDLE           | SADDLE                       |
| TAPPING SLEEVE   | TAPPING SLEEVE               |
| TEE              | TEE                          |
| UNKNOWN          | UNKNOWN                      |
| WYE              | WYE                          |

| Domain name | RWS_SPATIALSOURCE   |
|-------------|---------------------|
| ASBUILT     | ASBUILT             |
| FIELD       | FIELD               |
| GPS         | GPS                 |
| ORTHOPHOTO  | ORTHOPHOTO          |
| UNKNOWN     | UNKNOWN             |
|             |                     |
| Domain name | RWS_LIFECYCLESTATUS |
| ABANDONED   | ABANDONED           |
| ACTIVE      | ACTIVE              |
| INACTIVE    | INACTIVE            |
| REMOVED     | REMOVED             |
| UNKNOWN     | UNKNOWN             |
|             |                     |
| Domain name | RWS_SYSVAL_DIAM     |
| 1.5         | 1.5                 |
| 2           | 2                   |
| 3           | 3                   |
| 4           | 4                   |
| 6           | 6                   |
| 8           | 8                   |
| 10          | 10                  |
| 12          | 12                  |
| 16          | 16                  |
| 20          | 20                  |
| 24          | 24                  |
| 30          | 30                  |
| 36          | 36                  |
| 42          | 42                  |
| 48          | 48                  |
| 9999        | UNKNOWN             |

| Domain name | RWS_GROUNDTYPE |
|-------------|----------------|
| ASPHALT     | ASPHALT        |
| CONCRETE    | CONCRETE       |
| DIRT        | DIRT           |
| UNKNOWN     | UNKNOWN        |

| Domain name | RWS_SYSVAL_GROUNDTYPE |
|-------------|-----------------------|
| ASPHALT     | ASPHALT               |
| CONCRETE    | CONCRETE              |
| LANDSCAPE   | LANDSCAPE             |
| UNKNOWN     | UNKNOWN               |
|             |                       |

| Domain name | RWS_FITTING_DIAMETER |
|-------------|----------------------|
| 0.63        | 0.63                 |
| 0.75        | 0.75                 |
| 1           | 1                    |
| 1.25        | 1.25                 |
| 1.5         | 1.5                  |
| 2           | 2                    |
| 2.5         | 2.5                  |
| 3           | 3                    |
| 4           | 4                    |
| 6           | 6                    |
| 8           | 8                    |
| 10          | 10                   |
| 12          | 12                   |
| 15          | 15                   |
| 16          | 16                   |
| 18          | 18                   |
| 20          | 20                   |
| 24          | 24                   |
| 30          | 30                   |
| 36          | 36                   |
| 42          | 42                   |
| 48          | 48                   |

# DATA DICTIONARY:

## STORM

|                     |                      |              |               |                              |
|---------------------|----------------------|--------------|---------------|------------------------------|
| SWS_DRAIN_MANHOLE   |                      |              |               |                              |
|                     |                      |              |               |                              |
| <b>Field Name</b>   | <b>Alias Name</b>    | <b>Type</b>  | <b>Length</b> | <b>Domain</b>                |
| OBJECTID            | OBJECTID             | OID          | 4             |                              |
| SHAPE               | SHAPE                | Geometry     | 0             |                              |
| FEATUREOWNER        | FEATUREOWNER         | String       | 25            | SWS_FEATUREOWNER_1           |
| LIFECYCLESTATUS     | LIFECYCLESTATUS      | String       | 25            | SWS_LIFECYCLESTATUS          |
| SPATIALSOURCE       | SPATIALSOURCE        | String       | 25            | SWS_SPATIALSOURCE            |
| STRUCTURE_TYPE      | STRUCTURE_TYPE       | SmallInteger | 2             | SWS_STRUCTURE_TYPE           |
| CHANDLER_NAME       | CHANDLER_NAME_ON_LID | String       | 5             | GIS_BOOLEAN_YES_NO           |
| DIAMETER            | DIAMETER             | SmallInteger | 2             | SWS_SDMH_SIZE                |
| VENT_HOLE           | VENT_HOLE            | String       | 30            | GIS_BOOLEAN_YES_NO           |
| ACCESS_OPENING_TYPE | ACCESS_OPENING_TYPE  | String       | 25            | SWS_SDMH_ACCESS_OPENING_TYPE |
| LID_TYPE            | LID_TYPE             | String       | 30            | SWS_SDMH_TYPE                |
| LID_TEXT            | LID_TEXT             | String       | 30            | SWS_SDMH_LID_TEXT            |
| COMMENTS            | COMMENTS             | String       | 255           |                              |
| COLLECTED_DATE      | COLLECTED_DATE       | Date         | 8             |                              |

|                    |                    |              |               |                     |
|--------------------|--------------------|--------------|---------------|---------------------|
| SWS_BUBBLER_BOX    |                    |              |               |                     |
|                    |                    |              |               |                     |
| <b>Field Name</b>  | <b>Alias Name</b>  | <b>Type</b>  | <b>Length</b> | <b>Domain</b>       |
| OBJECTID           | OBJECTID           | OID          | 4             |                     |
| SHAPE              | SHAPE              | Geometry     | 0             |                     |
| FEATUREOWNER       | FEATUREOWNER       | String       | 25            | SWS_FEATUREOWNER    |
| LIFECYCLESTATUS    | LIFECYCLESTATUS    | String       | 25            | SWS_LIFECYCLESTATUS |
| SPATIALSOURCE      | SPATIALSOURCE      | String       | 25            | SWS_SPATIALSOURCE   |
| GRATE_OPENINGS_NUM | GRATE_OPENINGS_NUM | SmallInteger | 2             | SWS_GRATE_OPENINGS  |
| GRATE_LENGTH       | GRATE_LENGTH       | Double       | 8             | SWS_GRATE_LENGTH    |
| GRATE_WIDTH        | GRATE_WIDTH        | Double       | 8             | SWS_GRATE_WIDTH     |
| DRYWELL_ASSOC      | DRYWELL_ASSOC      | String       | 5             | GIS_BOOLEAN_YES_NO  |
| GPSX               | GPSX               | Double       | 8             |                     |
| GPSY               | GPSY               | Double       | 8             |                     |
| COMMENTS           | COMMENTS           | String       | 255           |                     |
| COLLECTED_DATE     | COLLECTED_DATE     | Date         | 8             |                     |
| NOTES              | NOTES              | String       | 50            |                     |

|                          |                          |              |               |                            |
|--------------------------|--------------------------|--------------|---------------|----------------------------|
| SWS_CATCHBASIN           |                          |              |               |                            |
|                          |                          |              |               |                            |
| <b>Field Name</b>        | <b>Alias Name</b>        | <b>Type</b>  | <b>Length</b> | <b>Domain</b>              |
| OBJECTID                 | OBJECTID                 | OID          | 4             |                            |
| SHAPE                    | SHAPE                    | Geometry     | 0             |                            |
| FEATUREOWNER             | FEATUREOWNER             | String       | 25            | SWS_FEATUREOWNER           |
| LIFECYCLESTATUS          | LIFECYCLESTATUS          | String       | 25            | SWS_LIFECYCLESTATUS        |
| SPATIALSOURCE            | SPATIALSOURCE            | String       | 25            | SWS_LIFECYCLESTATUS        |
| STRUCTURE_TYPE           | STRUCTURE_TYPE           | SmallInteger | 2             | SWS_STRUCTURE_TYPE         |
| CATCHBASIN_TYPE          | CATCHBASIN_TYPE          | String       | 25            | SWS_CB_TYPE                |
| LOCATION                 | LOCATION                 | String       | 100           |                            |
| CITY_EMBLEM              | CITY_EMBLEM              | String       | 5             | GIS_BOOLEAN_YES_NO         |
| ACCESS_OPENING_TYPE      | ACCESS_OPENING_TYPE      | String       | 25            | SWS_CB_ACCESS_OPENING_TYPE |
| GRATE_LENGTH             | GRATE_LENGTH             | Double       | 8             | SWS_GRATE_LENGTH           |
| GRATE_WIDTH              | GRATE_WIDTH              | Double       | 8             | SWS_GRATE_WIDTH            |
| LID                      | LID                      | String       | 5             | GIS_BOOLEAN_YES_NO         |
| LID_TYPE                 | LID_TYPE                 | String       | 25            | SWS_CB_LID_TYPE            |
| DRYWELL_CONN             | DRYWELL_CONN             | String       | 5             | GIS_BOOLEAN_YES_NO         |
| OUTLET_CONN              | OUTLET_CONN              | String       | 5             | GIS_BOOLEAN_YES_NO         |
| BUBBLERBOX_CONN          | BUBBLERBOX_CONN          | String       | 5             | GIS_BOOLEAN_YES_NO         |
| BUBBLERBOX_DRYWELL_ASSOC | BUBBLERBOX_DRYWELL_ASSOC | String       | 5             | GIS_BOOLEAN_YES_NO         |
| LAKE_DRAIN               | LAKE_DRAIN               | String       | 5             | GIS_BOOLEAN_YES_NO         |
| GPSX                     | GPSX                     | Double       | 8             |                            |
| GPSY                     | GPSY                     | Double       | 8             |                            |
| COMMENTS                 | COMMENTS                 | String       | 255           |                            |
| COLLECTED_DATE           | COLLECTED_DATE           | Date         | 8             |                            |
| NOTES                    | NOTES                    | String       | 50            |                            |

|                     |                     |              |               |                       |
|---------------------|---------------------|--------------|---------------|-----------------------|
| SWS_DRYWELL_PNT     |                     |              |               |                       |
|                     |                     |              |               |                       |
| <b>Field Name</b>   | <b>Alias Name</b>   | <b>Type</b>  | <b>Length</b> | <b>Domain</b>         |
| OBJECTID            | OBJECTID            | OID          | 4             |                       |
| Shape               | Shape               | Geometry     | 0             |                       |
| FEATUREOWNER        | FEATUREOWNER        | String       | 25            | SWS_FEATUREOWNER_1    |
| LIFECYCLESTATUS     | LIFECYCLESTATUS     | String       | 25            | SWS_LIFECYCLESTATUS_1 |
| SPATIALSOURCE       | SPATIALSOURCE       | String       | 25            | SWS_SPATIALSOURCE_1   |
| FIELD_LOC           | FIELD_LOC           | String       | 100           | SWS_DW_LOCATION       |
| INSTALLER           | INSTALLER           | String       | 30            | SWS_DW_INSTALLER      |
| CHAMBER_TYPE        | CHAMBER_TYPE        | String       | 30            | SWS_DW_CHAMBER_TYPE   |
| LID_SIZE            | LID_SIZE            | SmallInteger | 2             | SWS_DW_LID_SIZE       |
| LID_TYPE            | LID_TYPE            | String       | 25            | SWS_DW_LID_TYPE       |
| NUISANCE_LINE_ASSOC | NUISANCE_LINE_ASSOC | String       | 5             | GIS_BOOLEAN_YES_NO    |
| CONCRETE_PAD        | CONCRETE_PAD        | String       | 5             | GIS_BOOLEAN_YES_NO    |
| COMMENTS            | COMMENTS            | String       | 255           |                       |
| COLLECTED_DATE      | COLLECTED_DATE      | Date         | 8             |                       |



|                           |                           |              |               |                       |
|---------------------------|---------------------------|--------------|---------------|-----------------------|
| SWS_INLET_PNT             |                           |              |               |                       |
|                           |                           |              |               |                       |
| <b>Field Name</b>         | <b>Alias Name</b>         | <b>Type</b>  | <b>Length</b> | <b>Domain</b>         |
| OBJECTID                  | OBJECTID                  | OID          | 4             |                       |
| Shape                     | Shape                     | Geometry     | 0             |                       |
| CATCHBASIN_TYPE           | CATCHBASIN_TYPE           | String       | 25            | SWS_CB_TYPE           |
| FEATUREOWNER              | FEATUREOWNER              | String       | 25            | SWS_FEATUREOWNER_1    |
| LIFECYCLESTATUS           | LIFECYCLESTATUS           | String       | 25            | SWS_LIFECYCLESTATUS_1 |
| SPATIALSOURCE             | SPATIALSOURCE             | String       | 25            | SWS_SPATIALSOURCE_1   |
| FIELD_LOC                 | FIELD_LOC                 | String       | 100           | SWS_FIELD_LOC         |
| GRATE_ASSOC               | GRATE_ASSOC               | String       | 25            | GIS_BOOLEAN_YES_NO    |
| GRATE_LENGTH              | GRATE_LENGTH              | Double       | 8             | SWS_GRATE_LENGTH      |
| GRATE_WIDTH               | GRATE_WIDTH               | Double       | 8             | SWS_GRATE_WIDTH       |
| INLET_PIPE_DIAM           | INLET_PIPE_DIAM           | SmallInteger | 2             | SWS_INLET_PIPE_DIAM   |
| INLET_NUMBER              | NUMBER_OF_INLETS          | SmallInteger | 2             |                       |
| TRASHRACK_ASSOC           | TRASHRACK_ASSOC           | String       | 5             | GIS_BOOLEAN_YES_NO    |
| TRASH_LENGTH              | TRASH_LENGTH              | Double       | 8             |                       |
| TRASH_WIDTH               | TRASH_WIDTH               | Double       | 8             |                       |
| NUISANCE_LINE_ASSOC       | NUISANCE_LINE_ASSOC       | String       | 5             | GIS_BOOLEAN_YES_NO    |
| BUBBLER_BOX_DRYWELL_ASSOC | BUBBLER_BOX_DRYWELL_ASSOC | String       | 5             | GIS_BOOLEAN_YES_NO    |
| HEADWALLASSOC             | HEADWALLASSOC             | String       | 5             | GIS_BOOLEAN_YES_NO    |
| COMMENTS                  | COMMENTS                  | String       | 255           |                       |
| COLLECTED_DATE            | COLLECTED_DATE            | Date         | 8             |                       |

|                           |                           |              |               |                     |
|---------------------------|---------------------------|--------------|---------------|---------------------|
| SWS_OUTLET_PNT            |                           |              |               |                     |
|                           |                           |              |               |                     |
| <b>Field Name</b>         | <b>Alias Name</b>         | <b>Type</b>  | <b>Length</b> | <b>Domain</b>       |
| OBJECTID                  | OBJECTID                  | OID          | 4             |                     |
| SHAPE                     | SHAPE                     | Geometry     | 0             |                     |
| FEATUREOWNER              | FEATUREOWNER              | String       | 25            | SWS_FEATUREOWNER_1  |
| LIFECYCLESTATUS           | LIFECYCLESTATUS           | String       | 25            | SWS_LIFECYCLESTATUS |
| SPATIALSOURCE             | SPATIALSOURCE             | String       | 25            | SWS_SPATIALSOURCE_1 |
| GRATE_ASSOC               | GRATE_ASSOC               | String       | 25            | GIS_BOOLEAN_YES_NO  |
| GRATE_LENGTH              | GRATE_LENGTH              | Double       | 8             | SWS_GRATE_LENGTH    |
| GRATE_WIDTH               | GRATE_WIDTH               | Double       | 8             | SWS_GRATE_WIDTH     |
| INLET_PIPE_DIAM           | INLET_PIPE_DIAM           | SmallInteger | 2             | SWS_INLET_PIPE_DIAM |
| INLET_NUMBER              | NUMBER_OF_INLETS          | SmallInteger | 2             |                     |
| TRASHRACK_ASSOC           | TRASHRACK_ASSOC           | String       | 5             | GIS_BOOLEAN_YES_NO  |
| TRASH_LENGTH              | TRASH_LENGTH              | Double       | 8             |                     |
| TRASH_WIDTH               | TRASH_WIDTH               | Double       | 8             |                     |
| NUISANCE_LINE_ASSOC       | NUISANCE_LINE_ASSOC       | String       | 5             | GIS_BOOLEAN_YES_NO  |
| BUBBLER_BOX_DRYWELL_ASSOC | BUBBLER_BOX_DRYWELL_ASSOC | String       | 5             | GIS_BOOLEAN_YES_NO  |
| HEADWALLASSOC             | HEADWALLASSOC             | String       | 5             | GIS_BOOLEAN_YES_NO  |
| COMMENTS                  | COMMENTS                  | String       | 255           |                     |
| COLLECTED_DATE            | COLLECTED_DATE            | Date         | 8             |                     |

|                           |                           |              |               |                       |
|---------------------------|---------------------------|--------------|---------------|-----------------------|
| SWS_SCUPPER_PNT           |                           |              |               |                       |
|                           |                           |              |               |                       |
| <b>Field Name</b>         | <b>Alias Name</b>         | <b>Type</b>  | <b>Length</b> | <b>Domain</b>         |
| OBJECTID                  | OBJECTID                  | OID          | 4             |                       |
| SHAPE                     | SHAPE                     | Geometry     | 0             |                       |
| FEATUREOWNER              | FEATUREOWNER              | String       | 25            | SWS_FEATUREOWNER_1    |
| LIFECYCLESTATUS           | LIFECYCLESTATUS           | String       | 25            | SWS_LIFECYCLESTATUS_1 |
| SPATIALSOURCE             | SPATIALSOURCE             | String       | 25            |                       |
| CITY_EMBLEM               | CITY_EMBLEM               | String       | 5             | GIS_BOOLEAN_YES_NO    |
| NUMBER_OPENINGS           | NUMBER_OPENINGS           | SmallInteger | 2             |                       |
| WIDTH                     | WIDTH                     | Double       | 8             |                       |
| SPILLWAY_ASSOC            | SPILLWAY_ASSOC            | String       | 25            | GIS_BOOLEAN_YES_NO    |
| HEADWALL_ASSOC            | HEADWALL_ASSOC            | String       | 5             | GIS_BOOLEAN_YES_NO    |
| NUISANCE_LINE_ASSOC       | NUISANCE_LINE_ASSOC       | String       | 5             | GIS_BOOLEAN_YES_NO    |
| BUBBLERBOX_ASSOC          | BUBBLERBOX_ASSOC          | String       | 5             | GIS_BOOLEAN_YES_NO    |
| BUBBLER_BOX_DRYWELL_ASSOC | BUBBLER_BOX_DRYWELL_ASSOC | String       | 5             | GIS_BOOLEAN_YES_NO    |
| LAKE_DRAIN                | LAKE_DRAIN                | String       | 5             | GIS_BOOLEAN_YES_NO    |
| RIPRAP                    | RIPRAP                    | String       | 25            | GIS_BOOLEAN_YES_NO    |
| COMMENTS                  | COMMENTS                  | String       | 255           |                       |
| COLLECTED_DATE            | COLLECTED_DATE            | Date         | 8             |                       |

## Sewer Domains:

| Domain name      | SWS_DW_LOCATION     |
|------------------|---------------------|
| AIRPORT          | AIRPORT             |
| CITYRETENTION    | CITY RETENTION      |
| PARK             | PARK                |
| PARKING_LOT      | PARKING LOT         |
| PRIVATERETENTION | PRIVATE RETENTION   |
| STREET           | STREET              |
| WELL_SITE        | WELL SITE           |
|                  |                     |
| Domain name      | SWS_GRATE_LENGTH    |
| 12               | 12                  |
| 24               | 24                  |
| 28               | 28                  |
| 30               | 30                  |
| 36               | 36                  |
| 38               | 38                  |
| 40               | 40                  |
| 50               | 50                  |
| 60               | 60                  |
| 76               | 76                  |
|                  |                     |
| Domain name      | SWS_CB_LID_TYPE     |
| STEEL            | STEEL               |
| CONCRETE         | CONCRETE            |
|                  |                     |
| Domain name      | SWS_DW_CHAMBER_TYPE |
| DOUBLE           | DOUBLE              |
| SINGLE           | SINGLE              |
| TRIPLE           | TRIPLE              |

| Domain name | SWS_LIFECYCLESTATUS_1 |
|-------------|-----------------------|
|-------------|-----------------------|

| ABANDONED      | ABANDONED           |
|----------------|---------------------|
| ACTIVE         | ACTIVE              |
| INACTIVE       | INACTIVE            |
| REMOVED        | REMOVED             |
|                |                     |
| Domain name    | SWS_GRATE_OPENINGS  |
| 1              | 1                   |
| 2              | 2                   |
| 3              | 3                   |
| 4              | 4                   |
| 5              | 5                   |
| 6              | 6                   |
|                |                     |
| Domain name    | SWS_SPATIALSOURCE_1 |
| FIELD          | FIELD               |
| GPS            | GPS                 |
|                |                     |
| Domain name    | SWS_SPATIALSOURCE   |
| APPROVED_PLANS | APPROVED_PLANS      |
| ASBUILT        | ASBUILT             |
| DESIGN         | DESIGN              |
| FIELD          | FIELD               |
| GPS            | GPS                 |
| ORTHOPHOTO     | ORTHOPHOTO          |
| UNKNOWN        | UNKNOWN             |

| Domain name | SWS_SDMH_SIZE |
|-------------|---------------|
|-------------|---------------|

|             |                    |
|-------------|--------------------|
| 22          | 22                 |
| 24          | 24                 |
| 26          | 26                 |
| 28          | 28                 |
| 30          | 30                 |
| 32          | 32                 |
| 38          | 38                 |
|             |                    |
| Domain name | GIS_BOOLEAN_YES_NO |
| YES         | YES                |
| NO          | NO                 |
|             |                    |
| Domain name | SWS_DW_LID_SIZE    |
| 22          | 22                 |
| 24          | 24                 |
| 25          | 25                 |
| 26          | 26                 |
| 32          | 32                 |
| 38          | 38                 |
|             |                    |
| Domain name | SWS_STRUCTURE_TYPE |
| 1           | CATCH BASIN        |
| 2           | SCUPPER            |
| 3           | DRYWELL            |
| 4           | MANHOLE            |
| 5           | OUTLET             |
| 6           | INLET              |
| 7           | BUBBLERBOX         |
| 8           | SPILLWAY           |
| 9           | SEPARATOR          |

|                  |                            |
|------------------|----------------------------|
|                  | SWS_CB_ACCESS_OPENING_TYPE |
| NONE             | NONE                       |
| RECTANGULAR      | RECTANGULAR                |
| ROUND            | ROUND                      |
| SQUARE           | SQUARE                     |
|                  |                            |
| Domain name      | SWS_FEATUREOWNER_1         |
| ADOT             | ADOT                       |
| CITY_OF_CHANDLER | CITY_OF_CHANDLER           |
| HOA              | HOA                        |
| PRIVATE          | PRIVATE                    |
|                  |                            |
| Domain name      | SWS_LIFECYCLESTATUS        |
| ACTIVE           | ACTIVE                     |
| FUTURE           | FUTURE                     |
| REMOVED          | REMOVED                    |
| INACTIVE         | INACTIVE                   |
| ABANDONED        | ABANDONED                  |
|                  |                            |
| Domain name      | SWS_FEATUREOWNER           |
| ADOT             | ADOT                       |
| CITY_OF_CHANDLER | CITY_OF_CHANDLER           |
| HOA              | HOA                        |
| OTHER            | OTHER                      |

|             |  |
|-------------|--|
| Domain name |  |
|-------------|--|

| Domain name               | SWS_SDMH_LID_TEXT            |
|---------------------------|------------------------------|
| CHANDLER_SANITATION_SEWER | CHANDLER SANITATION SEWER    |
| CHANDLER_STORM/SEWER      | CHANDLER STORM/SEWER         |
| NONE                      | NONE                         |
| OTHER                     | OTHER                        |
| STORM SEWER               | STORM SEWER                  |
|                           |                              |
| Domain name               | SWS_DW_INSTALLER             |
| McGUCKINDRILLING          | McGUCKIN DRILLING            |
| OTHER                     | OTHER                        |
| TORRENTRESOURCES          | TORRENT RESOURCES            |
| WACODRILLING              | WACO DRILLING                |
|                           |                              |
| Domain name               | SWS_GRATE_WIDTH              |
| 6                         | 6                            |
| 12                        | 12                           |
| 16                        | 16                           |
| 18                        | 18                           |
| 24                        | 24                           |
| 28                        | 28                           |
| 30                        | 30                           |
| 36                        | 36                           |
| 38                        | 38                           |
| 44                        | 44                           |
| 72                        | 72                           |
|                           |                              |
| Domain name               | SWS_SDMH_ACCESS_OPENING_TYPE |
| NONE                      | NONE                         |
| RECTANGULAR               | RECTANGULAR                  |
| ROUND                     | ROUND                        |
| SQUARE                    | SQUARE                       |

| Domain name | SWS_FIELD_LOC       |
|-------------|---------------------|
| AIRPOR      | AIRPORT             |
| CTYRTN      | CITYRETENTION       |
| Domain name | SWS_CB_TYPE         |
| NONE        | NONE                |
| PARK        | PARK                |
| PRKLOT      | PARKING_LOT         |
| PVRET       | PRIVATERETENTION    |
| STREET      | STREET              |
| TYPE_A      | TYPE_A              |
| TYPE_B      | TYPE_B              |
| TYPE_C      | TYPE_C              |
| TYPE_D      | TYPE_D              |
| TYPE_E      | TYPE_E              |
| TYPE_F      | TYPE_F              |
| TYPE_G      | TYPE_G              |
| TYPE_H      | TYPE_H              |
| TYPE_Q      | TYPE_Q              |
| WELLSI      | WELL_SITE           |
| Domain name | SWS_INLET_PIPE_DIAM |
| 12          | 12                  |
| 13          | 13                  |
| 14          | 14                  |
| 15          | 15                  |
| 16          | 16                  |
| 18          | 18                  |
| 24          | 24                  |
| 26          | 26                  |
| 30          | 30                  |
| 36          | 36                  |
| 42          | 42                  |
| 46          | 46                  |
| 60          | 60                  |
| 72          | 72                  |

| Domain name     | SWS_SDMH_TYPE   |
|-----------------|-----------------|
| PRESSURIZED     | PRESSURIZED     |
| NON-PRESSURIZED | NON-PRESSURIZED |
|                 |                 |
| Domain name     | SWS_DW_LID_TYPE |
| STEEL           | STEEL           |
| GRANITE         | GRANITE         |
| CONCRETE_SEALED | CONCRETE_SEALED |
| GRATE           | GRATE           |