

**CITY CLERK
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C-8349
02/12/2013

**MAIN EXTENSION AGREEMENT
FOR
CUSTOMER INSTALLED WATER FACILITIES**

BETWEEN

VALLEY UTILITIES WATER CO., INC.

AND

CITY OF GLENDALE

February 12, 2013

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**WATER MAIN EXTENSION AGREEMENT
FOR CUSTOMER INSTALLED WATER FACILITIES**

THIS MAIN EXTENSION AGREEMENT ("Agreement"), is entered into this 17th day of February, 2013, between VALLEY UTILITIES WATER COMPANY, INC., an Arizona corporation, or its successors and assigns ("Company" or "Utility"), and the CITY OF GLENDALE, an Arizona municipal corporation, or its successors and assigns ("City"), to construct utility infrastructure necessary to provide water service to certain public areas (Northern Parkway right-of-way) in Maricopa County, Arizona ("Property").

RECITALS

A. Company represents and warrants to City that it owns and operates a public service corporation and holds a Certificate of Convenience and Necessity ("CC&N") issued by the Arizona Corporation Commission ("Commission") and other permits and governmental approvals required which authorize Company to serve the public with water utility service at the Property;

B. City is making certain public improvements on the Property in an area that is fully described in the attached Exhibit 1 and incorporated herein by reference. Company warrants that it has the authority to provide water utility service to the Property;

C. the Company does not currently own a water main to extend water service to the Property; and

D. Given the circumstances described in these Recitals, the Commission's Rules and Regulations permit the Company to require, as an Advance-In-Aid-of-Construction ("Advance"), the installation and transfer of facilities required for the Company to provide water service to the Property.

AGREEMENT

NOW, THEREFORE, the parties agree as follows:

I. FACILITY ADDITIONS; COSTS; ARSENIC IMPACT FEE; OTHER CHARGES

A. **Facility Additions.** The City will construct, or cause to be constructed, a 16-inch water main ("Main") that upon completion will be conveyed to the Company as an Advance. The engineering plans for the Main are attached to this Agreement as Exhibit 2 and are incorporated herein by this reference. The estimated cost of the Main is detailed on Exhibit 3 and is incorporated herein by this reference. This Agreement will accommodate additional phases of improvements within the Property boundaries as shown in Exhibit 1 and allow adjacent properties to connect to the Main under separate agreement between the Company and those property owners.

B. Costs. The cost of construction of the Main as more fully detailed in Exhibit 3 is estimated to be \$1,038,256. That estimate shall be adjusted to the amount of the invoices provided to the Company as required by Sections VI and VII under this Agreement. The Advance shall also include the costs for the applicable Engineering Review, Company Supervision (if any) and Legal Fees (“Administrative Costs”), and Groundwater Replenishment District charges (if any), as defined below.

C. Arsenic Impact Fee. City shall pay the Company’s applicable Arsenic Impact Fee as a non-refundable Contribution in Aid of Construction as set forth in the Company’s Arsenic Impact Fee Tariff on file with the Commission.

D. Other Water Utility Charges. In the event the City (or Developer’s subcontractor(s) or assign(s)) require construction water for grading, site preparation, road work, dust control or any other construction related purpose, the City may contact the Company and request Construction Water Service under the Company’s Tariff.

II. SERVICE; APPLICABLE RATES

A. Service. Notwithstanding any reference to fire protection facilities contained in Exhibit 2, the Main extension is installed for the initial purpose of providing water service for landscape irrigation to the Property. However, under certain operating conditions, the Main and Company’s water system infrastructure may provide limited fire protection service to an appropriate fire protection agency. The Company’s obligation for fire protection utility service shall be the stricter standard of either the Arizona Administrative Code (“AAC”) R14-2-407(C) and (D), or this Agreement. Company shall comply with such regulations and any other applicable law. Service will be provided in accordance with good utility practice.

B. Applicable Rates. The charges for water services for the Property shall be at the applicable rates of the Company which are currently on file with the Commission. Those rates are subject to change from time to time upon application of the Company and as approved by the Commission.

III. PERMITS AND LICENSES; EASEMENTS; TITLE

A. Permits and Licenses. City agrees to obtain, at its sole expense, all licenses, permits, certificates, and approvals from public authorities that may be required for the construction of the Main to the Property under this Agreement or development of the subject Property and shall comply with all applicable municipal and other public laws, ordinances and requirements. The cost of obtaining licenses, permits, certificates, and approvals for the Main shall be added to the amount of the refundable Advance. The applicable Approval to Construct the facilities shall be provided upon execution of this Agreement. The Approval of Construction shall be provided before the Company is obligated to provide water service to the Property.

B. Easements and Deeds. In the event the Main identified in Exhibit 2 is not within a dedicated public right-of-way or public utility easement, the City shall provide to the Company an easement in a form acceptable to the Company. The easement shall be sufficient in size and scope for the construction, operation, maintenance and repair of the Main within that area. All rights-of-way and public and private easements shall remain free of all obstacles which may interfere with the Company's access, use, operation and maintenance of the Main. The easement shall be recorded before the Company is obligated to provide service to the Property. In the event of any dispute over the location of an easement, or a discrepancy from the recorded plat, the Company may require the City to obtain, at City's cost, a survey from a registered land surveyor to verify the easement boundaries. The survey shall only be required to the extent necessary to identify and locate the legal description or to resolve the dispute or discrepancy.

C. Title. Under this Agreement, upon Company's acceptance of the work, all facilities constructed by the City (including all installed materials) in connection with the construction of the Main, shall become the sole property of the Company. The City, or its contractor, must obtain an Approval of Construction from the Maricopa County Department of Health Services, or the appropriate agency, and deliver that approval to the Company before the Main is operational. Concurrently with Company's acceptance of the Main, City shall deliver to Company a fully executed Bill of Sale, in a form and with substance reasonably satisfactory to Company's legal counsel, evidencing the conveyance of the Main to Company, and such Main shall become, and shall thereafter remain, as between Company and City, the sole property of Company. City represents and warrants to Company that, at the time of such transfer, Company will receive good and marketable title to the conveyed Main, free and clear of any and all liens, claims, mortgages or other encumbrances. All risk of loss of the Main shall be with City until title to such Main is transferred to Company upon Final Acceptance under the terms of this Agreement. The Company may confirm in writing the acceptance of title to the Main being placed in regular operation.

IV. COMMENCEMENT OF PERFORMANCE AND TIME OF COMPLETION; PLANS AND SPECIFICATIONS; WORKMANSHIP, MATERIALS, EQUIPMENT AND MACHINERY; ACCEPTANCE; CONNECTING NEW FACILITIES; EXISTING UNDERGROUND FACILITIES RESPONSIBILITIES

A. Commencement of Performance and Time of Completion. The parties estimate that the City will start the construction work contemplated under this Agreement before June 3, 2013, and will complete the construction work before August 31, 2013. Company and City understand the dates in this paragraph are estimates only. Failure to meet those estimated dates shall in no way relieve the City or Company of any of their obligations under this Agreement.

B. Plans and Specifications. All plans, specifications and construction shall be in accordance with good utility practices and in accordance with all rules, regulations, specifications and requirements of the Company and all regulatory agencies, including but not limited to, the Commission, the Maricopa County Department of Environmental

Services and all local regulatory agencies having jurisdiction over water service and facilities. The plans and specifications shall have all requisite approvals in writing of all necessary agencies and the approval in writing of Company before construction is commenced. The Company's review and comments shall be provided to the City within twenty (20) calendar days after submittal of the plans and specifications to the Company. The Company's approval of the plans and specifications shall be provided within twenty (20) calendar days after final re-submittal of the plans and specifications incorporating the Company's comments. The approved plans and specifications for the water facilities (Main) construction will be incorporated by this reference and made part of this Agreement.

C. Materials, Workmanship, Equipment and Machinery. All materials shall be new and both workmanship and materials shall be of good quality and must meet Company specifications and standards, as well as the standards of the pertinent regulatory agencies. City shall assign to the Company the warranties of its contractor(s) for the Main constructed under this Agreement, which warranties shall be no less than two (2) years. If the City constructs the Main itself, or if the subcontractor's warranty is inadequate, the City agrees to pay all costs for removing and replacing any defective part or parts upon the Company providing written notice to the City within two (2) years after the Company acknowledged Final Acceptance of the Main.

D. Acceptance. Company's Operational Acceptance of the Main and any related facilities shall occur at the time the City has provided all of the following items to the Company as required by this Agreement: (i) all required fees, costs and funds; (ii) the Approval to Construct; and (iii) recorded copies of all required Deeds or Easements. The Company shall assume operational responsibilities for the Main only after receipt of the above. Final Acceptance of the Main and related facilities by the Company shall occur only after the Company receives all of the following as otherwise required by this Agreement: (i) all items required for Operational Acceptance; (ii) the Approval of Construction; (iii) all invoices; (iv) all lien waivers; (v) copies of all permits and licenses; (vi) all required evidences of title; and (vii) the "as-built" plans. If all documents for the Company's Final Acceptance are not received within ninety (90) days of the Operational Acceptance, the Company shall have no obligation to (i) set additional water meters within the Property; or (ii) make any refunds of the Advance pursuant to Paragraph VII, until such time as City has complied with these requirements.

E. Connecting New Facilities. The Main constructed pursuant to the Agreement shall not be connected to the Company's existing facilities, or operated, without the prior written approval of Company. In the event the Main requires retesting, additional, or subsequent purging and re-chlorination after the Company has granted Operational Acceptance, but prior to putting the Main into service, the Company may bill the City for all costs associated with those procedures.

F. Existing Underground Facilities Responsibility. Before and during construction, City shall be responsible for complying with A.R.S. 40-360.21, *et seq.*, and related local regulations, and will assume all costs and liabilities associated with (i) coordination with the owners or agents of all underground facilities within and adjacent to

the Property regarding the location of such facilities, and (ii) construction near, or damage to, underground facilities. City will conduct, or cause to be conducted, all excavation in a careful and prudent manner in its construction of the Main.

V. INSPECTION, TESTING AND CORRECTION OF DEFECTS; DAMAGE AFTER ACCEPTANCE; ADVISING SUBCONTRACTORS

A. Inspection, Testing and Correction of Defects.

(1) City shall comply with the Company's Main inspection and testing requirements. The requirements shall be reasonable and shall not cause City unwarranted delays in the ordinary course of construction. City shall promptly notify the Company when the Main is ready for inspection and testing. The Company will use its best efforts to inspect the progress of the work and evaluate whether the work meets the Company-approved plans and specifications within forty-eight (48) hours after a requested inspection (excluding Saturdays, Sundays, and Holidays). In the event a requested inspection results in overtime or off-hour costs to the Company, the Company's costs, including all overhead, shall be separately billed to the City.

(2) City will comply with Utility's inspection and testing requirements for the Main Extensions; provided however, that Utility furnishes that information to City during the planning and engineering phase of the project. Once construction begins, Utility shall be responsible for all engineering and construction changes and costs required by its failure to timely provide its testing and inspection requirements. City will provide Utility two business days' prior notice when the Main is under construction, and when any portion of the Main is ready for inspection and testing. Utility will then promptly inspect and test the Main to determine if such Main has been constructed in accordance with the approved plans and specifications. As a result of Utility's inspection and testing, Utility may provide written notification to City of punch list items that require correction and City agrees to promptly correct all defects and deficiencies in construction, materials and workmanship.

(3) No costs incurred by City to do over or make good on defective or deficient work shall be included in the amount of Advance pursuant to Paragraph VII.A. The Company specifically reserves the right to withhold approval and to forbid connection of the Main to the Company's system unless such Main has been constructed in accordance with the plans and specifications as approved by the Company and are satisfactory to the Company upon inspection and testing.

B. Damage after Acceptance. City acknowledges that it may perform certain non-utility construction within the Property subsequent to the Operational Acceptance of the Main by the Company. Therefore, the City hereby agrees to immediately repair or replace, consistent with the plans and specifications, any damage to the Main caused by the City, its subcontractors or unknown parties. City shall call the Company for an inspection as contemplated in Paragraph V.A.

VI. APPROVAL OF CONSTRUCTION; INVOICES; LIENS; "AS-BUILT" PLANS; CONDITION PRECEDENT TO INITIAL SERVICE; ANNUAL REFUNDS.

A. Approval of Construction. The Approval of Construction for the water Main shall be delivered to the Company before the Company takes Operational Acceptance of the Main or is obligated to provide water utility service to the Property.

B. Invoices. City will furnish Company, within thirty (30) days after completion of construction, copies of City's, subcontractors', vendors', and all others' invoices for all engineering, surveying, other services and materials installed, and all costs of construction.

C. Liens. City must obtain lien waivers from all entities providing labor, materials or services contemplated by this Agreement.

D. "As-Built" Plans. City will furnish the Company, within thirty (30) days after completion of construction, "as-built" drawings showing the locations of all water mains, hydrants, valves, and service connections to all structures served from the Main and related facilities which are constructed pursuant to this Agreement. The drawings shall be certified by the City's engineer of record and shall be provided on reproducible Mylar prints, and in a digital format (i.e. AutoCAD, MicroStation or .dxf format or as otherwise specified by the Company), all available data for the Property, including ALTA surveys, topographical, aerials, tentative plats, engineering plans, and final plats. Red-lined construction drawings shall not be acceptable as "as-built" drawings.

E. Conditions Precedent to Initial Service and Annual Refunds. City acknowledges and agrees that the Company will not set a meter at any service address or provide service to the Property or make any annual refunds of the Advance under Paragraph VII of this Agreement before receiving the documents required by Paragraph III.A, B, C and E, Paragraph IV.D, and Paragraphs VI.A, B, C and D.

VII. AMOUNT OF ADVANCE; TIME OF PAYMENT; INCOME TAX; REFUND; TRANSFER; NOTICE

A. Amount of Advance.

1. Based on the estimated cost contained in Paragraph I.B, and subject to receiving invoices from the City pursuant to Paragraph VI.B, the value of the Main to be transferred is estimated to be \$1,038,256 ("Asset Value"). The Advance shall also include all Administrative Costs and shall be refundable pursuant to this Paragraph VII. If the actual construction cost is less than the estimated Asset Value, then the Advance shall include the lesser amount, to the extent supported by invoices provided pursuant to Paragraph VI.B. If the actual cost is more than the estimated Asset Value, then the Advance shall be the greater amount, to the extent supported by invoices provided pursuant to Paragraph VI.A.

B. Time of Payment. The Advance under this Agreement shall be remitted as follows:

1. Upon execution of this Agreement, City shall pay a deposit on Administrative Costs in the amount of \$10,000 dollars. Any funds remaining in the deposit after this Agreement is approved by the Commission shall be fully refunded to the City within 10 (ten) business days. In the event Company's Administrative Costs exceed \$10,000, Company shall invoice the City on a monthly basis once the deposit has been depleted.
2. City shall pay the applicable non-refundable Arsenic Impact Fee upon request for the installation of a water meter to serve the Property.
3. The City shall provide Company with a Bill of Sale, as set forth the Section III.C, which shall establish an accurate Asset Value based on actual construction costs. The final Asset Value, along with expended Administrative Costs, shall constitute the amount of the total Advance to be refunded to the City pursuant to Paragraph VII.D.

C. Income Taxes. [Intentionally Blank]

D. Computation of Refund. Refunds of the Advance shall be made to the City by the Company on or before the 31st day of August of each year commencing with August of 2014 covering any refunds owing from water revenues received during the preceding July 1 to June 30 period and also including any revenue received prior to July 1 2013 if any. Any additional charge made by the Company based on any sales, privilege tax, excise tax, or regulatory assessment, shall not be included in the computation. The annual refund shall equal twenty percent (20%) of the total gross annual revenue from water sales to each bona fide customer in the Property for a maximum of thirty (30) years. In addition, before any properties along Dysart Road connect to the waterline extension, a lump sum payment will be made to the City. This lump sum payment will be equal to length of the property fronting Dysart Road divided by the total developable frontage along Dysart (approximately 6,700 feet) times the "Advance in Aid of Construction" as paid by the City of Glendale to construct this water line extension. The developable frontage includes all properties along the waterline extension except the Luke Elementary School property (APN 501-52-001P). The result of the annual payment and the lump sum payment shall not exceed the total "Advance in Aid of Construction". In the event the City has not provided all documentation required by Sections III and VI of this Agreement within ninety (90) days of the Operational Acceptance of the Main by the Company, then and in that event, refunds for the years before receipt of said documentation shall be irrevocably waived by the City, those funds shall become Contributions in Aid of Construction.

E. Maximum Refund; Interest on Advance; Limitation on Revenues. In no event shall the City's refund exceed the amount of the City's Advance. No interest shall be paid by the Company on any amounts advanced.

F. Transfer of Main and Related Facilities. In the event of the sale, conveyance or transfer by the Company, pursuant to the approval of the Commission, of any portion of its water system, including the Main constructed under this Agreement, such transfer shall be conditioned upon the transferee accepting the Company's obligations to the City under this Agreement.

G. Notice. Any notice required or permitted to be given under this Agreement shall be deemed delivered and be effective on the date physically delivered to the Party to whom notice is being provided or two (2) calendar days following the date on which the notice is deposited in the United States Mail, postage prepaid, certified delivery, and addressed to the Party to whom notice is being provided as follows:

If to Glendale:

Craig Johnson
Executive Director, Water Services
City of Glendale
7070 West Northern Avenue
Glendale, Arizona 85303

With a copy to:

City Attorney
City of Glendale
5850 West Glendale Avenue, Suite 450
Glendale, Arizona 85301

If to Company:

Valley Utilities Water Co., Inc.
Attn: Manager
6808 North Dysart Road, Suite 112
Glendale, Arizona 85307

Each Party shall promptly provide written notice to the other Party of any subsequent change of address, and the failure to do so shall preclude any subsequent claim that notice was improperly given.

VIII. RISK; LIABILITY; INSURANCE

A. Risk. City shall carry on all work required at its own risk until the construction is completed and accepted by the Company. Except for the damage caused by the negligent or intentional acts of the Company, its employees, agents, engineers, contractors, or assigns, the City, at its expense, will, in case of accident, destruction, or injury to the work or material before such final completion and acceptance, replace or repair the damaged work, in accordance with the original approved plans and specifications.

B. Liability. To the extent the liability is directly attributable to City's negligent or willful conduct, City assumes the entire responsibility and liability for injury or death of any person, or loss for damage to any property contributed to or caused by the negligence of the City, its agents, servants, employees, or subcontractors during the course of construction of the Main. Accordingly, during the construction of the Main, City will indemnify and hold harmless the Company, its officers, directors, engineers, agents and employees from and against such claims or expenses, including penalties and assessments, to which they or any of them may be subjected by reason of such injury, death, loss, claim, penalty, assessment or damage, and in case any suit or other proceeding is filed, City will assume the defense at City's expense and will pay all judgments rendered. The City does not indemnify Company for any damages whatsoever attributable to the negligent or intentional acts of the Company, its officers, employees, agents, engineers, assigns, or successors-in-interest.

C. Insurance. City agrees to produce and maintain all insurances described below, including insurance covering the obligations assumed by the City under Paragraph VIII.A and Paragraph VIII.B. Certificates of Issuance shall be provided to the Company before the commencement of actual construction:

1. Workmen's compensation in the benefit amounts, and occupational disease disability insurance, as required by the laws and regulations of the state.
2. Commercial general liability insurance, with minimum combined single limits of \$1,000,000.00, and including operations and protective liability coverages. When the work to be performed requires blasting, City's insurance shall specifically cover that risk.
3. Comprehensive automobile liability insurance with a minimum combined single limits of \$1,000,000.00, and covering all owned and non-owned automobiles or trucks used by or on behalf of Company, in connection with the work.

IX. MISCELLANEOUS

A. Commission Approval. Before this Agreement shall become effective and binding upon either the Company or the City, it must be approved by the Commission or its authorized representative. In the event approval is denied, this Agreement shall be null and void and of no force or effect whatsoever.

B. Authority. Each Party irrevocably warrants to the other that it has all applicable power and authority, actual, representative or otherwise, to enter into this Agreement and bind that Party's performance. This Agreement may not be modified or amended except by a writing signed by both parties.

C. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Arizona. This Agreement constitutes the entire agreement and understanding between the parties and expressly supersedes and revokes all

other prior or contemporaneous promises, representations and assurances of any nature whatsoever.

D. Remedies and Waivers. The remedies provided in this Agreement in favor of the Company shall not be deemed its exclusive remedies but shall be in addition to all other remedies available at law or in equity. No waiver by either party of any breach of this Agreement nor any failure by either party to insist on strict performance by the other party of any provision of this Agreement shall in any way be construed to be a waiver of any future or subsequent breach by such defaulting party or bar the non-defaulting party's right to insist on strict performance by the defaulting party of the provisions of this Agreement in the future.

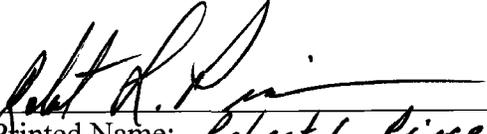
E. Binding Agreement. City is an Arizona municipal corporation, and under this Agreement, an independent contractor and not an agent or employee of the Company. This Agreement shall inure to the benefit of, be binding upon, and be enforceable by the parties and their respective successors and assigns.

F. Entire Agreement. This Agreement, including its numbered Exhibits, constitute the entire agreement and understanding between the parties relating to the subject matter of this Agreement and supersedes all prior representations, communications and arrangements, whether oral, written or inferred, between the parties relating to that subject matter.

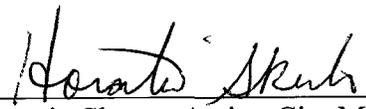
[Signatures are on the following page.]

This Agreement is executed as of the day and year first written above.

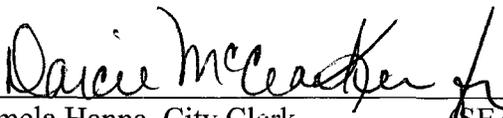
VALLEY UTILITIES WATER CO., INC., an
Arizona corporation


Printed Name: Robert L. Pince
Title: President

CITY OF GLENDALE, an Arizona
municipal corporation


Horatio Skeete, Acting City Manager

ATTEST:


Pamela Hanna, City Clerk (SEAL)

APPROVED AS TO FORM:


Craig Tindall, City Attorney

ATTACHMENTS

1. Map and Legal Description of Property
2. Engineering Plan of Water Utility Plant
3. Estimated Cost for Main

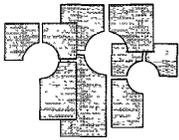
EXHIBIT 1

**MAPS AND DESCRIPTIONS OF RIGHT-OF-WAY
AND PROPERTY TO BE LANDSCAPED**

EXHIBIT 2

ENGINEERING PLAN OF THE MAIN EXTENSION

CITY OF GLENDALE GLENDALE, ARIZONA



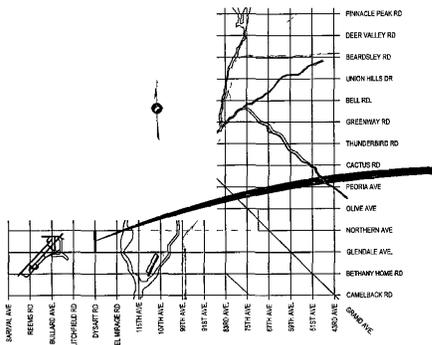
GLENDALE

111203 Valley Utilities Dysart Road Waterline Extension

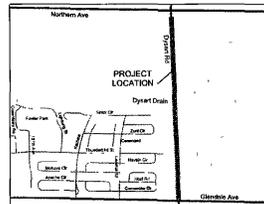
MAYOR
ELAINE M. SCRUGGS

CITY COUNCIL
NORMA S. ALVAREZ
JOYCE V. CLARK
STEVEN E. FRATE
YVONNE J. KNAACK
H. PHILIP LIEBERMAN
MANUEL D. MARTINEZ

ACTING CITY MANAGER
HORATIO SKEETE
CITY CLERK
PAMELA HANNA
CITY ATTORNEY
CRAIG D. TINDALL



VICINITY MAP



KEY MAP

SHEET INDEX

SHEET NO	CONTENT
1	Cover Sheet
2	Index Sheet
3	Details/Construction Notes
4	Details/Construction Notes
5	Plan & Profile Sta 1+00 To 6+00
6	Plan & Profile Sta 6+00 To 11+00
7	Plan & Profile Sta 11+00 To 16+00
8	Plan & Profile Sta 16+00 To 21+00
9	Plan & Profile Sta 21+00 To 28+00
10	Plan & Profile Sta 28+00 To 31+00
11	Plan & Profile Sta 31+00 To 36+00
12	Plan & Profile Sta 36+00 To 41+00
13	Plan & Profile Sta 41+00 To 46+00
14	Plan & Profile Sta 46+00 To 50+59
15	Dysart Drain Crossing - Section & Sleeve Elevation
16	Dysart Drain Crossing - Foundation Details
17	Dysart Drain Crossing - Support Details

RECORD DRAWING

I certify that the locations, elevations, depths and record drawing comments accurately reflect the existing field conditions and materials actually used during construction. This certification is based on periodic field observations and the contractor's representations of the facilities as constructed.

NAME _____ DATE _____ (SEAL)
REGISTRATION NO _____ EXP DATE _____
REV'D BY _____
CONSTRUCTION ENGINEER

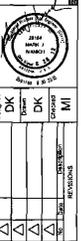
PLANS ACCEPTANCE

The City of Glendale accepts these plans for construction, as being in general compliance with plan preparation requirements of the City. Responsibility for the completeness and accuracy of the plans and related design resides with the Engineer and the Engineering Firm of Record.

CITY ENGINEER _____ DATE _____
TRANSPORTATION DIRECTOR _____ DATE _____

VALLEY UTILITIES WATER COMPANY _____ DATE _____
MARICOPA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES _____ DATE _____

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5550 W. GLENDALE AVE
GLENDALE, ARIZONA 85301 (602) 930-9890



111203
Valley Utilities Dysart Road
Waterline Extension
Cover Sheet

No Scale
802.263.1100
SHT 1
DP 17

Glendale Avenue

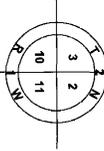
Dysart Drain

Northern Avenue

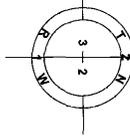
Dysart Road



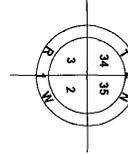
SHEET 5	SHEET 6	SHEET 7	SHEET 8	SHEET 9	SHEET 10	SHEET 11	SHEET 12	SHEET 13	SHEET 14
Sta. 1+00 To 6+00	Sta. 6+00 To 11+00	Sta. 11+00 To 16+00	Sta. 16+00 To 21+00	Sta. 21+00 To 26+00	Sta. 26+00 To 31+00	Sta. 31+00 To 36+00	Sta. 36+00 To 41+00	Sta. 41+00 To 46+00	Sta. 46+00 To 50+59



BENCH MARK
 Brass Cap in Handhole. 0.5' Dn. El. 1084.72 (Int., Ft.)
 The Elevation Benchmark For This Project Is An Existing Brass Cap In A Handhole Located At The Intersection Of Glendale Avenue And Dysart Road Sta. 1+00.00



3/4" Rebar
 Sta. 27+33.96



Maricopa County Brass Cap In Handhole.
 0.5' Dn. El. 1080.56
 Sta. 53+66.18

CITY OF GLENDALE
 ENGINEERING DEPARTMENT
 5548 W. GLENDALE AVE
 GLENDALE, ARIZONA 85301 (602) 850-3630



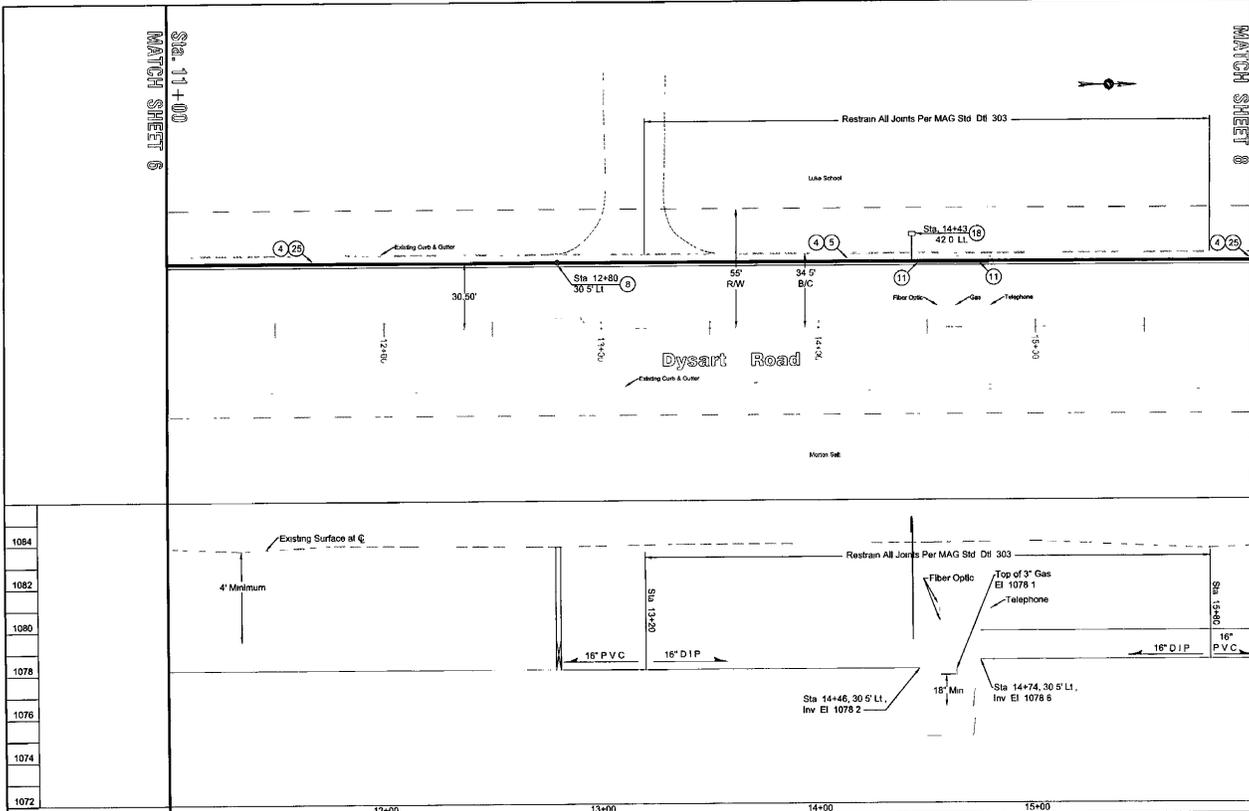
DATE	BY	CHKD	APP'D

111203
 Valley Utilities
 Dysart Road Waterline Extension
 Index Sheet



FILE NAME: C:\Jim Camp\Donovan Water
 PLOTTING DATE: 8/21/12
 PLOTTER: HP
 PLOTTER MODEL: 200

SHT. 2
 OF 17



Sta. 15+00
MATCH SHEET 8

CITY OF GLENDALE
ENGINEERING DEPARTMENT
GLENDALE, ARIZONA 85301 (623) 936-3630

111203
Valley Utilities
Dysart Road Waterline Extension
Station 11+00 to 15+00

SCALE
Horizontal 1" = 20'
Vertical 1" = 2'

SHT. 17
OF 17

- | | | |
|--|--|--|
| <p>④ Remove & Replace Asphalt Per Pavement Section Detail See Sheet 3 Joint Sealant Per COG Det. G-317 (223 S Y)</p> <p>⑤ Install 16" Ductile Iron Pipe Waterline Per MAG Std. Spec. 610 & 750. Install Detectable "Water Main" Tape 12" Above Pipe (260 L.F.)</p> | <p>⑧ Install 16" Gate Valve, Telescoping Ductile Iron Type "C", Box & Cover Per MAG Std. Dtl. 391-1 Type "M" Concrete Blocking Per MAG Std. Dtl. 301 (1 EA)</p> <p>⑪ Install 16" Vertical Realignment Per MAG Std. Dtl. 370. Restrain All Joints Per MAG Std. Dtl. 303-1 & 303-2</p> | <p>⑩ Install Air Release Valve Per COG Std. Dtl. G-646 See Sheet 4 (1 EA)</p> <p>⑫ Install 16" Class C-905, DR 18-235 PSI P.V.C. Waterline With Detectable "Water Main" Tape 12" Above Pipe (240 L.F.)</p> |
|--|--|--|



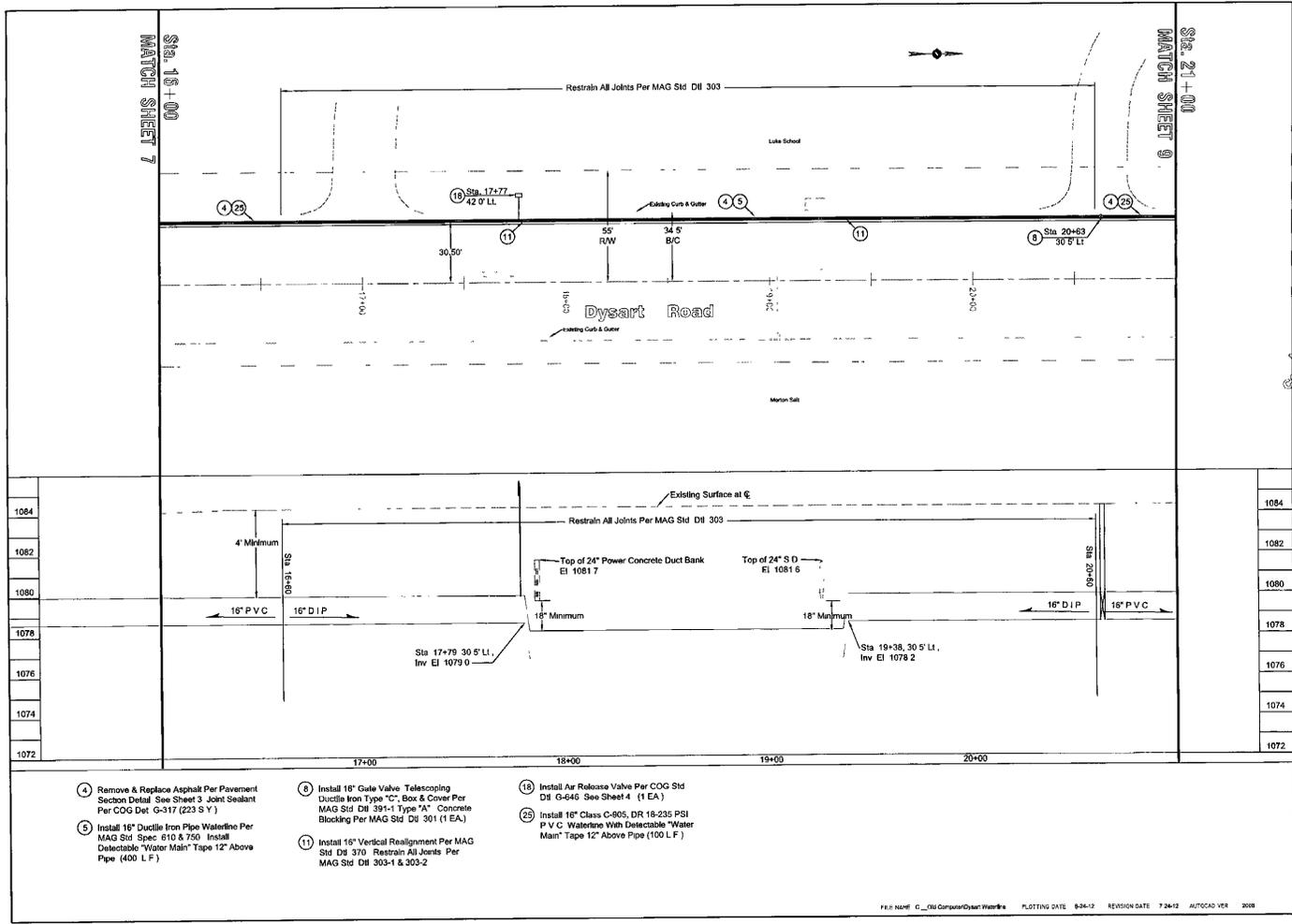
MI	MI
DK	MI
MI	MI

111203
 Valley Utilities
 Dysart Road Waterline Extension
 Station 16+00 to 21+00

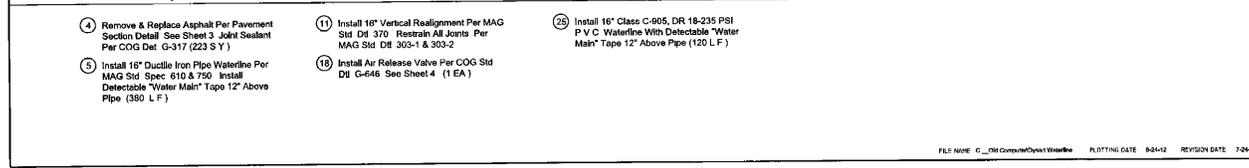
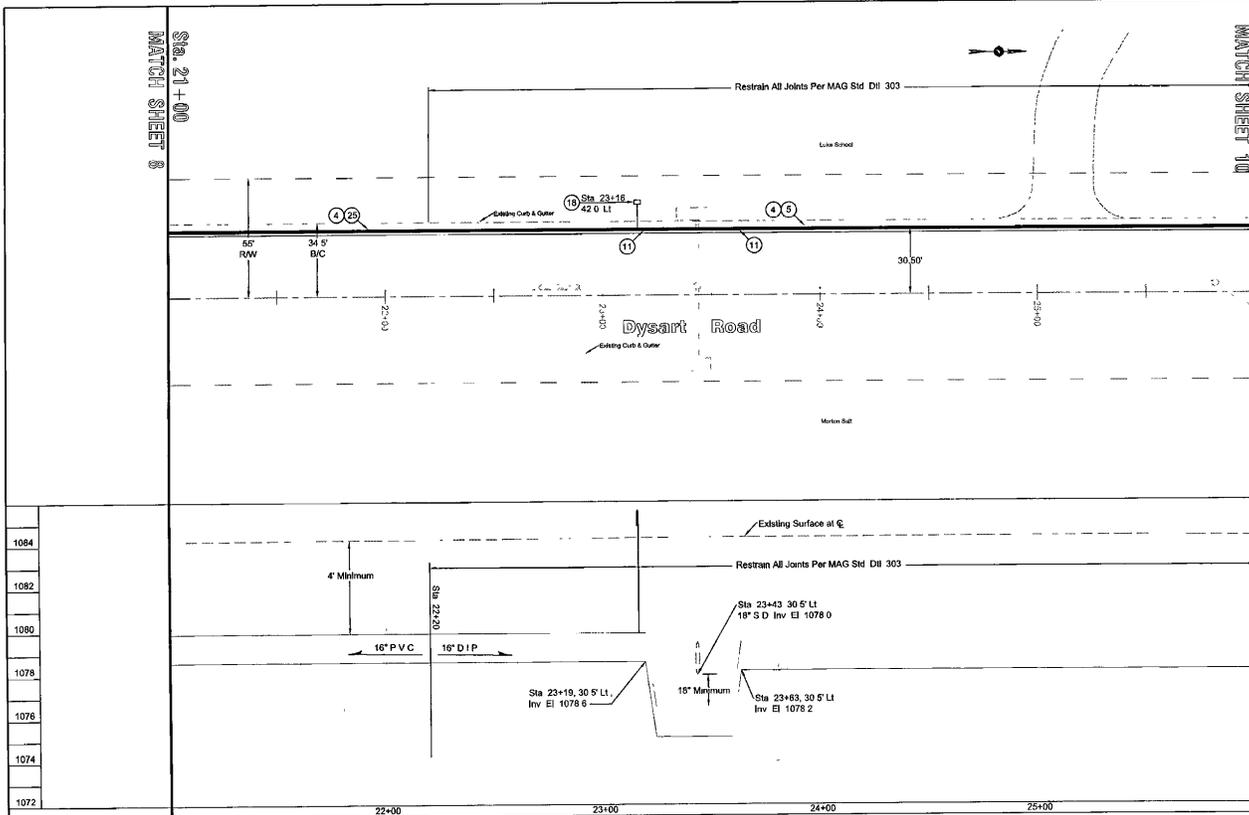
SCALE
 Horiz 1" = 20'
 Vert 1" = 2'

400 282-1100
 1000 278-6211

SHT. 3
 OF 17



- ④ Remove & Replace Asphalt Per Pavement Section Detail See Sheet 3 Joint Sealant Per COG Det G-317 (223 S Y)
- ⑤ Install 16" Ductile Iron Pipe Waterline Per MAG Std Spec 610 & 750 Install Detectable "Water Main" Tape 12" Above Pipe (400 L F)
- ⑧ Install 16" Gule Valve Telescoping Ductile Iron Type "C", Box & Cover Per MAG Std DII 391-1 Type "A" Concrete Blocking Per MAG Std DII 301 (1 EA)
- ⑪ Install 16" Vertical Realignment Per MAG Std DII 370 Restrain All Joints Per MAG Std DII 303-1 & 303-2
- ⑬ Install Air Release Valve Per COG Std DII G-646 See Sheet 4 (1 EA)
- ⑮ Install 16" Class C-805, DR 18-235 PSI P V C Waterline With Detectable "Water Main" Tape 12" Above Pipe (100 L F)



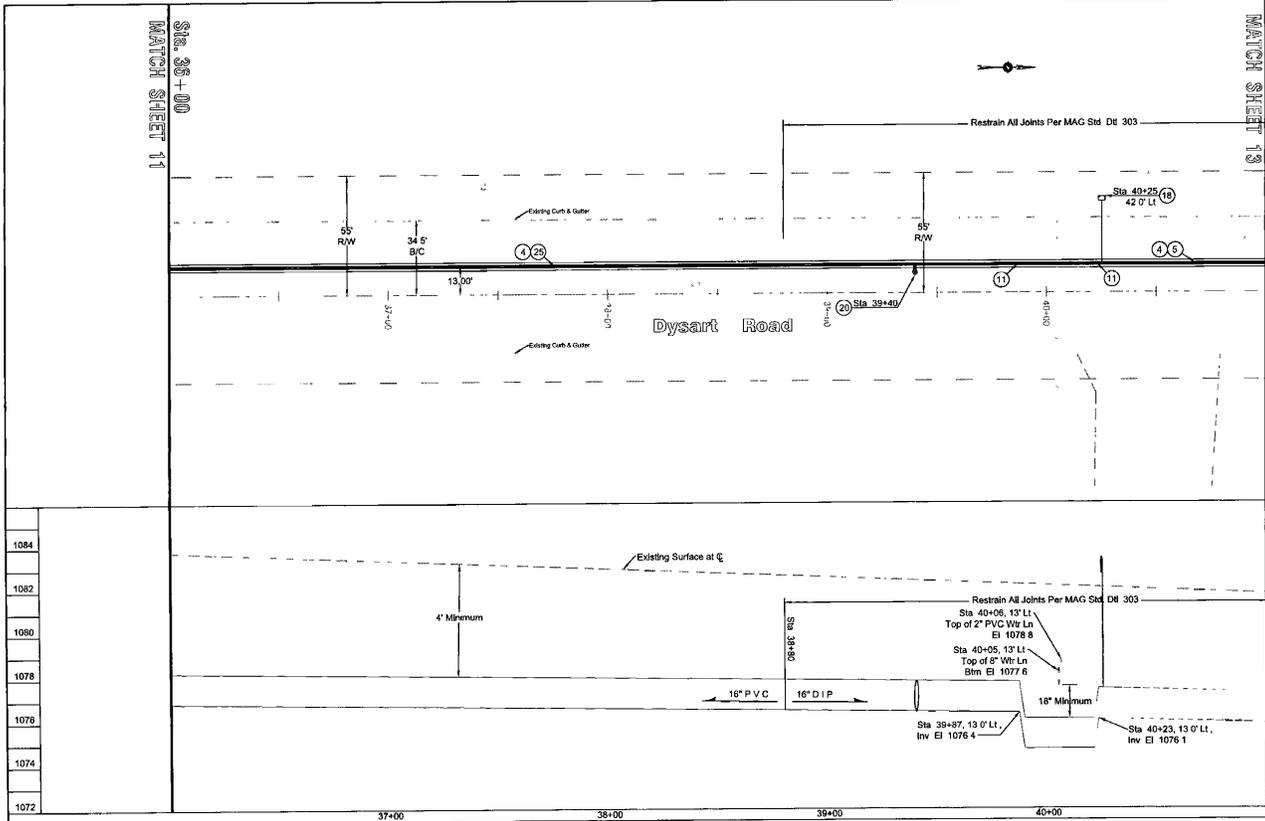
- ④ Remove & Replace Asphalt Per Pavement Section Detail. See Sheet 3. Joint Sealant Per COG Det. G-317 (223 S Y)
- ⑤ Install 16" Ductile Iron Pipe Waterline Per MAG Std Spec 610 & 750. Install Detectable "Water Main" Tape 12" Above Pipe (380 L F)
- ⑪ Install 16" Vertical Realignment Per MAG Std Dtl 370. Restrain All Joints Per MAG Std Dtl 303-1 & 303-2
- ⑫ Install Air Release Valve Per COG Std Dtl G-646 See Sheet 4 (1 EA)
- ⑫ Install 16" Class C-905, DR 18-235 PSI P.V.C. Waterline With Detectable "Water Main" Tape 12" Above Pipe (120 L F)

CITY OF GLENDALE
ENGINEERING DEPARTMENT
GLENDALE, ARIZONA 85301 (623) 938-3630

111203
Valley Utilities
Dysart Road Waterline Extension
Station 21+00 to 26+00

SCALE
HORIZ 1" = 20'
VERT 1" = 2'

SHT. 3
OF 17



- ④ Remove & Replace Asphalt Per Pavement Section Detail See Sheet 3 Joint Sealant Per COG Det G-317 (223 S Y)
- ⑤ Install 16" Ductile Iron Pipe Waterline Per MAG Std Spec 610 & 750 Install Detectable "Water Main" Tape 12" Above Pipe (220 L F)
- ⑧ Install 16" Gate Valve, Telescoping Ductile Iron Type "C", Box & Cover Per MAG Std Dtl 391-1 Type "A" Concrete Blocking Per MAG Std Dtl 301 (1 EA)
- ⑪ Install 16" Vertical Reassignment Per MAG Std Dtl 370 Restrain All Joints Per MAG Std Dtl 303-1 & 303-2
- ⑯ Install Air Release Valve Per COG Std Dtl G-646 See Sheet 4 (1 EA)
- ⑰ Install 16" x 16" Tee Gate Valve, Box & Cover & Blind Flange Provided By Valley UTILITIES Concrete Blocking Per MAG Std Dtl 391-1 Type "A" Install Concrete Thrust Block At Tee Per MAG Std Dtl 380 (1 EA)
- ⑳ Install 16" Class C-905, DR 18-235 PSI P V C Waterline With Detectable "Water Main" Tape 12" Above Pipe (280 L F)

MATCH SHEET 11
 Sta. 36+00
 MATCH SHEET 13
 Sta. 41+00

1084
1082
1080
1078
1076
1074
1072

37+00 38+00 39+00 40+00

CITY OF GLENDALE
ENGINEERING DEPARTMENT
 GLENDALE, ARIZONA 85301 (602) 930-8330

111203
 Valley Utilities
 Dysart Road Waterline Extension
 Station 36+00 to 41+00

SCALE
 Horiz 1" = 20'
 Vert 1" = 2'
 SHT. 12 OF 17

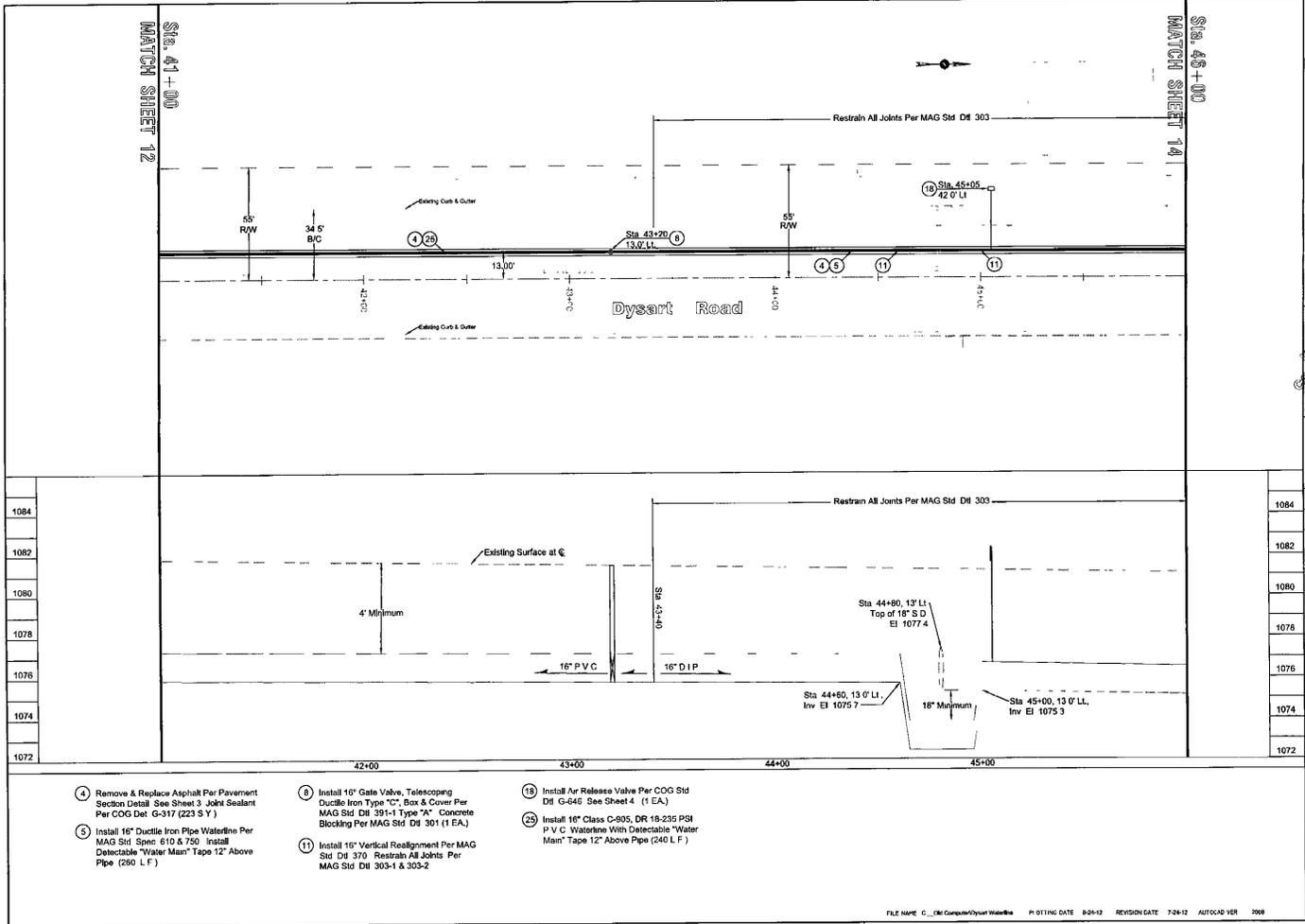


DATE	DESCRIPTION
MI	
DK	
MI	

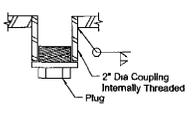
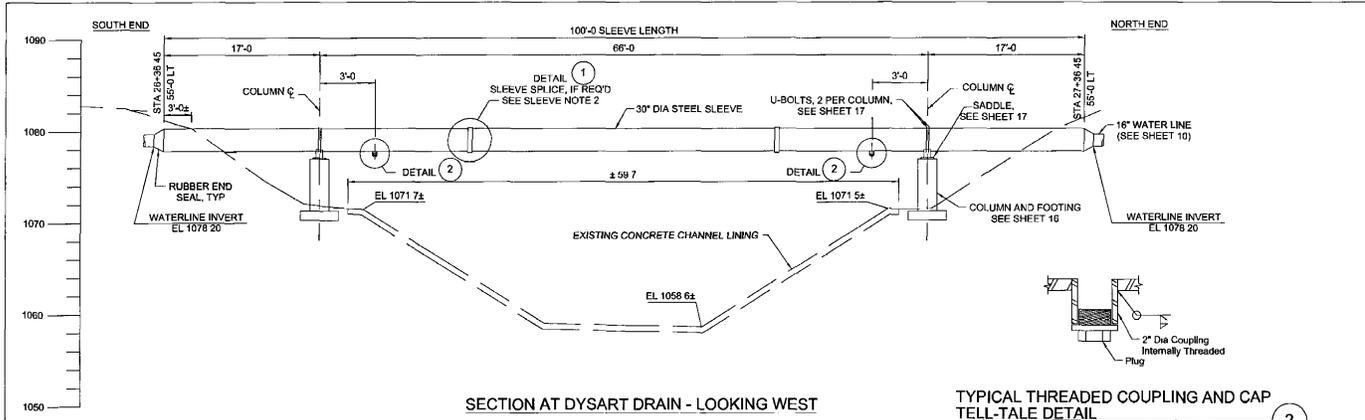
111203
 Valley Utilities
 Dycart Road Waterline Extension
 Station 41+00 to 46+00

SCALE
 Horiz 1" = 20'
 Vert 1" = 2'

SHT. 13
 OF 17



- ④ Remove & Replace Asphalt Per Pavement Section Detail See Sheet 3 Joint Sealant Per COG Det. G-317 (223 S.Y.)
- ⑤ Install 16" Ductile Iron Pipe Waterline Per MAG Std. Spec. 610 & 750 Install Detectable "Water Main" Tape 12" Above Pipe (260 L.F.)
- ⑥ Install 16" Gate Valve, Telescoping Ductile Iron Type "C", Box & Cover Per MAG Std. Dtl. 391-1 Type "A" Concrete Blocking Per MAG Std. Dtl. 301 (1 EA.)
- ⑪ Install 15" Vertical Realigner Per MAG Std. Dtl. 370 Restrain All Joints Per MAG Std. Dtl. 303-1 & 303-2
- ⑬ Install Air Release Valve Per COG Std. Dtl. G-646 See Sheet 4 (1 EA.)
- ⑮ Install 16" Class C-905, DR 18-235 PSI P.V.C. Waterline With Detectable "Water Main" Tape 12" Above Pipe (240 L.F.)

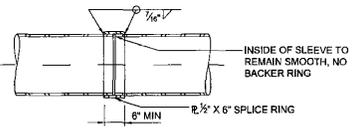


TYPICAL THREADED COUPLING AND CAP TELL-TALE DETAIL
NOT TO SCALE

2

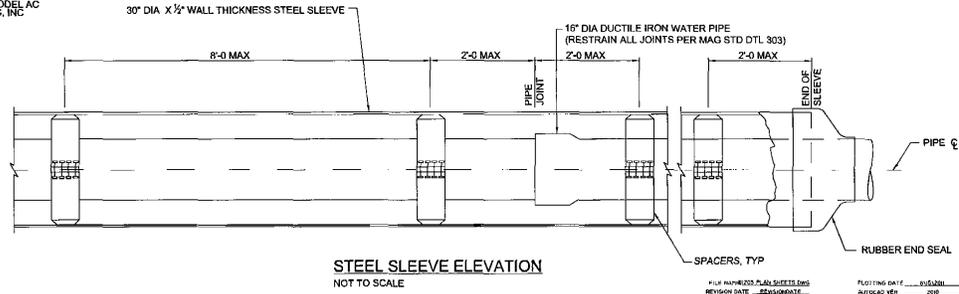
SLEEVE NOTES

- SLEEVE MATERIAL SHALL CONFORM TO ONE OF THE FOLLOWING ASTM SPECIFICATIONS
A53, GRADE B
A166, GRADE B
A139, GRADE B
A252, GRADE 2
A572, GRADE 50 / API 2B
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE SLEEVE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. IF THE SLEEVE IS FABRICATED FROM SEVERAL SHORTER SEGMENTS TO ACHIEVE THE REQUIRED LENGTH, THEN THE SHOP DRAWINGS SHALL INCLUDE THE REQUIRED SPlice DETAIL. SPICES SHALL BE LOCATED NEAR THE 'A' POINTS OF THE TOTAL SLEEVE LENGTH. SEE DETAIL 1 THIS SHEET
- SLEEVE SHALL HAVE 3 COAT PAINT SYSTEM IN ACCORDANCE WITH MAG 530. COST OF PAINTING SHALL BE INCLUDED WITH COST OF SLEEVE
- THE ANNULAR SPACE BETWEEN THE WATERLINE AND SLEEVE SHALL NOT BE FILLED
- INSTALL SLEEVE SPACERS TO KEEP THE WATERLINE CENTERED AND RESTRAINED WITHIN THE SLEEVE. SPACERS SHALL BE MODEL S5L12 AS MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS, INC. OR APPROVED EQUAL.
- INSTALL RUBBER SEALS ON BOTH ENDS OF THE SLEEVE. SEALS SHALL BE MODEL AC PULL-ON END SEAL AS MANUFACTURED BY ADVANCE PRODUCTS & SYSTEMS, INC.



SLEEVE SPlice DETAIL
NOT TO SCALE

ESTIMATE OF QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
STRUCTURAL EXCAVATION	CY	5
STRUCTURAL CONCRETE (CLASS A) (f'c=3000psi)	CY	3
REINFORCING STEEL	LBS	400
STEEL SLEEVE, 30" DIA x 1/2" WALL THICKNESS	LF	100
SPACERS	LSUM	1
END SEALS	EA	2



STEEL SLEEVE ELEVATION
NOT TO SCALE

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (602) 336-3630

111203
VALLEY UTILITIES
DYSART ROAD WATERLINE EXTENSION
SECTION & SLEEVE ELEVATION

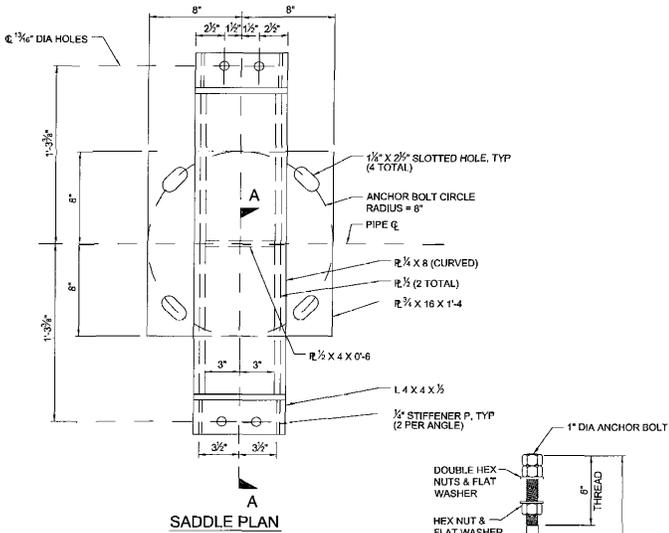
URS
7700 N. CENTRAL EXPRESSWAY
SUITE 1000
DALLAS, TX 75241
(972) 371-1100

SCALE 1" = 6'

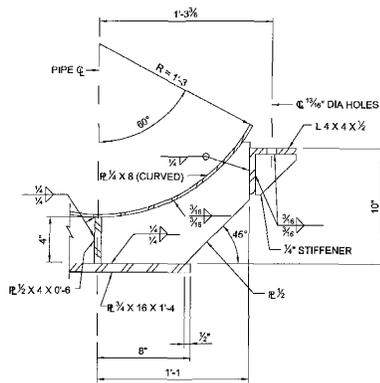
263-1100

SHT. 15
OF 17

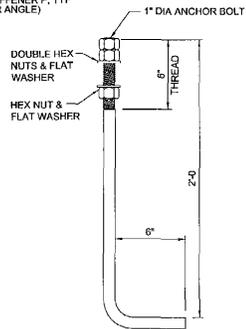
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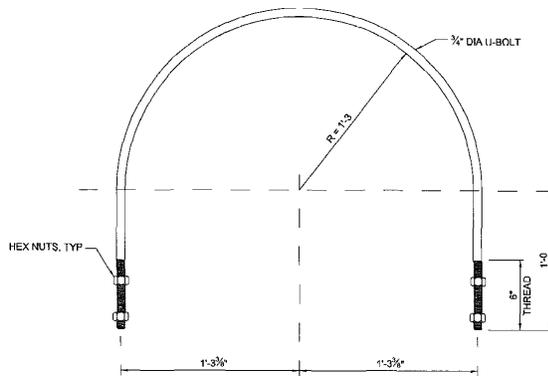
SADDLE PLAN



SECTION A-A



ANCHOR BOLT
(4 PER SADDLE)



U-BOLT
(2 PER SADDLE)

NOTES

- 1 MATERIALS
SADDLES ASTM A36
U-BOLTS ASTM A36
ANCHOR BOLTS ASTM F1448, GRADE 36
- 2 SADDLES AND U-BOLTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR A153
ANCHOR BOLTS SHALL BE ZINC-COATED IN ACCORDANCE WITH ASTM F1448
- 3 WELDING SHALL BE IN ACCORDANCE WITH ANS/AWS D1.1 "STRUCTURAL WELDING CODE-STEEL", LATEST EDITION
- 4 THE CONTRACTOR SHALL SUBMIT SHOP DRAWING OF SADDLE, U-BOLTS AND ANCHOR BOLTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION
- 5 THE COST OF FURNISHING AND INSTALLING SADDLE, U-BOLTS AND ANCHOR BOLTS SHALL BE INCLUDED IN THE COST OF THE STEEL SLEEVE

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W GLENDALE AVE
GLENDALE, ARIZONA 85301 (602) 348-3450



DATE	BY	CHECKED	APPROVED
10/15/11	JRM	JRM	JRM

111203
VALLEY UTILITIES
DYSART ROAD WATERLINE EXTENSION
SUPPORT DETAILS



SCALE 3"=1'-0"
263-1100

SHT. 17
OF 17

FILE NAME: 263-1100-PLAN-SHEETS.DWG
REVISION DATE: 10/15/11
PLOT DATE: 8/22/2012 4:08:21 PM
AUTOCAD VER: 2009

EXHIBIT 3
ESTIMATED FACILITIES COST ¹

[Attached.]

¹ The size and quantity of the required facilities and the cost of those facilities may be subsequently revised in accordance with the approved engineering plans for this Phase. Thereafter, this Exhibit and the Agreement shall be revised to reflect actual cost pursuant to Paragraph I.B.

ESTIMATED COST FOR MAIN
Valley Utilities Dysart Road Waterline Extension
1/31/2013

Description	Unit	Quantity	Unit Cost	Total
Remove and Replace Concrete Driveway and VG	SF	190	50.00	\$9,500
Remove and Replace Extruded Curb	LF	20	40.00	\$800
Remove Asphalt Pavement	SY	1,950	8.00	\$15,600
Remove and Replace Asphalt Driveway	SY	37	30.00	\$1,110
Remove and Replace Fence (Includes 4' Gate)	LF	100	50.00	\$5,000
Remove and Replace concrete curb	LF	47	20.00	\$940
New Asphalt Concrete Pavement (5" thick)	SY	1,950	70.00	\$136,500
Install 12" Ductile Iron Pipe	LF	48	90.00	\$4,320
Install 16" Restrained Ductile Iron Pipe	LF	2,596	100.00	\$259,600
Install 16" PVC Pipe - Class C-905, DR 18-235 psi	LF	1,840	70.00	\$128,800
Install Fire Hydrant per MAG Det 360	EA	1	3,500.00	\$3,500
12" Gate Valve, Box and Cover per MAG 391-1	EA	1	3,500.00	\$3,500
16" Gate Valve, Box and Cover per MAG 391-1	EA	6	5,500.00	\$33,000
6" Gate Valve, Box and Cover	EA	1	1,500.00	\$1,500
16" Tee, Gate Valve, Box and Cover (VUWCO)	EA	1	2,000.00	\$2,000
Install 16"x12" Reducer	EA	1	1,000.00	\$1,000
Install 8"x6" Reducer	EA	1	800.00	\$800
Install 16"x8" Tee	EA	1	3,000.00	\$3,000
Install 1.5" Water Service per COG Std. Det. G-642	EA	1	2,000.00	\$2,000
Install 2" Water Service per COG Std. Det. G-642	EA	1	2,000.00	\$2,000
Install 30" Steel Casing, Spacers and Supports	LF	100	1,000.00	\$100,000
Install 1" Air Release Valve	EA	7	2,000.00	\$14,000
Pavement Marking	LS	1	4,165.00	\$4,165

Total **\$732,635**

Allowance for Owner Construction Contingencies	\$75,000
Mobilization/Demobilization	\$15,000
Traffic Control	\$15,000
Storm Water Pollution Prevention Plan	\$5,000
Materials Testing	\$10,000
Construction Survey	\$10,000
Total	\$862,635

Valley Utility admin costs	\$10,000
Construction Administration (Glendale)	8.0% \$69,011
Design (Glendale)	\$7,664
Total Construction Cost	\$949,310

Maricopa County Environmental Services Permit	\$600
Meter Fee (1.5-inch)	\$2,720
Meter Set Fee	\$9,803
Potholing	\$12,422
Engineering, Acquisition and Coordination (URS)	\$56,304
Total "Advances in Aid of Construction" (Refundable)	\$1,031,159

Arsenic Impact Fee	\$7,040
Establishment Fee	\$43
Application Fee	\$14
Total "Contributions in Aid of Construction" (Non-Refundable)	\$7,097

Total Project Cost Including fees **\$1,038,256**