

DOCUMENT 00 91 13.01
ADDENDUM NO. 1

February 6, 2024

RE: Colorado City – No. 25 and No. 26 Raw Water Well Drilling
Project No. 2212-055

FROM: Jones & DeMille Engineering, Inc.
1664 S Dixie Dr., G102
St. George, UT 84770

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Procurement Documents, dated January 17th, 2024, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 3 pages and 4 attachments.

CHANGES TO PROCUREMENT REQUIREMENTS:

1. Document 00 11 13 - Advertisement for Bids: Change bid opening date from Saturday, February 17, 2024 at 10:00 AM to Friday, February 16, 2024 at 10:00 AM.
2. Document 00 11 13 - Advertisement for Bids: Change water well diameter from 8-inch to 12-inch. Applicable to both wells.
3. Document 00 41 11 – Bid Form for Construction Contract, delete current document and replace with attached modified document.
4. Document 00 45 13 – Bidder’s Qualifications, Article 1.3, add Paragraph 6. as follows:

6. A current Arizona well drilling license as administered by the ADWR and AROC.

CHANGES TO SPECIFICATIONS:

5. Section 01 22 19 – Unit Price Measurement and Payment, delete current document and replace with attached modified document.
6. Document 33 11 13 - Potable Water Supply Wells, Article 2.1, Paragraph A: Change surface casing from 14-inch diameter to 18-inch.
7. Document 33 11 13 - Potable Water Supply Wells, Article 2.1, Paragraph B: Change production casing diameter from 8-inch to 12-inch.

8. Document 33 11 13 - Potable Water Supply Wells, add Article 1.7, Paragraph A, B, C and D:

1.7 MANAGEMENT OF DRILL CUTTINGS, DRILLING FLUIDS AND PRODUCED WATER

A. The OWNER will allow the CONTRACTOR to dispose of drill cuttings and solid wastes of both well sites at the well 25 location, to be specified by the OWNER. It will be the responsibility of the CONTRACTOR to dispose of left-over drilling fluid.

B. The CONTRACTOR is responsible for following Best Management Practices (BMP's) regarding drilling fluid and water discharges during the drilling and testing of the proposed well. It is the responsibility of the drilling CONTRACTOR to use BMPs to limit pollutant discharge to de minimis quantities, thereby protecting the waters of Arizona. Prior to the start of the WORK, the CONTRACTOR shall submit to the ENGINEER their plan to manage the drilling fluid and water discharge during the drilling and testing of the proposed well.

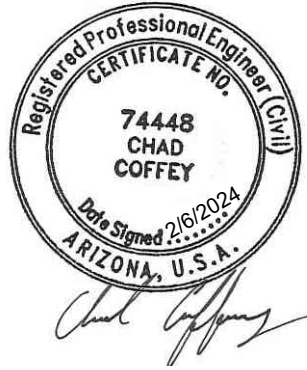
C. In accordance with AAC R12-15-811.F, Removal of drilling materials, drilling fluids, drill cuttings and produced water shall be contained in above-ground tanks and disposed of in a manner to prevent surface or subsurface contamination and to prevent degradation of natural or man-made water courses, impoundments, waterways, lakes, reservoirs, irrigation ditches, storm sewers, and dry stream beds. Cuttings and waste from well drilling operations shall not be discharged into a waterway, lake or reservoir.

D. Discharge of produced water will be allowed during development and testing provided there are no adverse impacts. Water produced during development and testing shall be discharged into a holding tank or series of tanks or basins for settling. Discharge from the tanks or basins shall pass through straw bales and/or geofabric for erosion control and further filtration. The CONTRACTOR shall provide, at their own expense, all of the tanks, hay bales, geofabric, riprap, flexible hose, PVC or other tubing, and other materials and equipment to divert and dissipate the energy of and minimize erosion from the discharged water, filter and allow for settling of the solids in the discharged water.

CHANGES TO DRAWINGS:

9. Figure 1 - Preliminary Well Design Well No. 25 at Cottonwood Well Field, delete current document and replace with attached modified document.
10. Figure 2 - Preliminary Well Design Well No. 26 at Cottonwood Well Field, delete current document and replace with attached modified document.

Signed: **Chad Coffey, PE**



END OF ADDENDUM

DOCUMENT 00 41 11
BID FORM FOR CONSTRUCTION CONTRACT

PROJECT: NO. 25 AND NO. 26 RAW WATER WELL DRILLING.

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

- 1.01 This Bid is submitted to: Town of Colorado City, located at 25 South Central Street, Colorado City, Arizona 86021.
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

- 2.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security.
 - B. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids.
 - C. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids.
 - D. Required Bidder qualification information as indicated in Article 3 of the Instructions to Bidders.

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

- 3.01 *Unit Price Bids*
- A. Bidder will perform the following Work at the indicated unit prices:

SCHEDULE 1 - Well No. 25					
Item No.	Item Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1-1	Mobilization	L.S.	1	XXX	
1-2	Drill Minimum 22.5-Inch Diameter Surface Casing Borehole	L.F.	40		
1-3	Furnish and Install Minimum 18-Inch Diameter Surface Casing	L.F.	40		
1-4	Furnish and Install Well Seal for Surface Casing	C.F.	50		
1-5	Drill 17.5-Inch Diameter Production Borehole	L.F.	580		
1-6	Geophysical Logging of Production Borehole	L.F.	620		
1-7	Furnish and Install Nominal 12-Inch Diameter Steel Production Casing	L.F.	511		
1-8	Furnish and Install Nominal 12-Inch Diameter Louvered Well Screen	L.F.	100		
1-9	Furnish and Install Filter Pack	C.F.	190		
1-10	Furnish and Install Bentonite Plugs	L.S.	1	XXX	
1-11	Furnish and Install Well Seal for Production Casing	C.F.	440		
1-12	Well Development with Drill Rig	Hourly	80		
1-13	Furnish, Install and Remove Test Pumping Equipment	L.S.	1	XXX	
1-14	Development Pumping and Test Pumping	Hourly	80		
1-15	Disinfect Well	L.S.	1	XXX	
1-16	Standby Time	Hourly	8		
1-17	Rig Time/Additional Work	Hourly	8		
Schedule 1 - Subtotal					

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SCHEDULE 2 - Well No. 26					
Item No.	Item Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
2-1	Mobilization	L.S.	1	XXX	
2-2	Drill Minimum 22.5-Inch Diameter Surface Casing Borehole	L.F.	20		
2-3	Furnish and Install Minimum 18-Inch Diameter Surface Casing	L.F.	20		
2-4	Furnish and Install Well Seal for Surface Casing	C.F.	25		
2-5	Drill 17.5-Inch Diameter Production Borehole	L.F.	150		
2-6	Geophysical Logging of Production Borehole	L.F.	170		
2-7	Furnish and Install Nominal 12-Inch Diameter Steel Production Casing	L.F.	120		
2-8	Furnish and Install Nominal 12-Inch Diameter Louvered Well Screen	L.F.	40		
2-9	Furnish and Install Filter Pack	C.F.	100		
2-10	Furnish and Install Bentonite Plugs	L.S.	1	XXX	
2-11	Furnish and Install Well Seal for Production Casing	C.F.	80		
2-12	Well Development with Drill Rig	Hourly	80		
2-13	Furnish, Install and Remove Test Pumping Equipment	L.S.	1	XXX	
2-14	Development Pumping and Test Pumping	Hourly	80		
2-15	Disinfect Well	L.S.	1	XXX	
2-16	Standby Time	Hourly	8		
2-17	Rig Time/Additional Work	Hourly	8		
2-18	Tailings Haul Off	L.S.	1	XXX	
Schedule 2 - Subtotal					
Total Base Bid Price (Schedules 1 & 2)					

ADDITIVE ALTERNATIVE NO. 1 - Well No. 25					
A1-1	Downhole Video Camera Inspection	L.F.	610		
A1-2	Plug and Abandon Borehole	C.F.	1		DO NOT INCLUDE IN TOTAL
Additive Alternate No. 1 - Subtotal					

ADDITIVE ALTERNATIVE NO. 2 - Well No. 26					
A2-1	Downhole Video Camera Inspection	L.F.	160		
A2-2	Plug and Abandon Borehole	C.F.	1		DO NOT INCLUDE IN TOTAL
Additive Alternate No. 2 - Subtotal					
Total Bid Price					

ARTICLE 4—BASIS OF BID—COST-PLUS FEE - DELETED

ARTICLE 5—PRICE-PLUS-TIME BID - DELETED

ARTICLE 6—TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Deleted.
- 6.03 Deleted.
- 6.04 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

7.01 *Bid Acceptance Period*

- A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

7.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

7.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 8—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS**8.01 Bidder’s Representations**

- A. In submitting this Bid, Bidder represents the following:
1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
 9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
 10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
 11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

8.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
 - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
 - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

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BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: *(if applicable)* _____

SECTION 01 22 19
UNIT PRICE MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. List of unit price bid items and referenced specification section.
 - 2. Basis of measurement for each unit price bid item.
 - 3. Basis of payment for each unit price bid item.

- B. Related Requirements:
 - 1. Section 01 20 00 – Price and Payment Procedures.
 - 2. Section 01 40 00 – Quality Requirements.
 - 3. Section 01 50 00 – Temporary Facilities and Controls.
 - 4. Section 01 71 13 – Mobilization.
 - 5. Section 33 11 13 – Potable Water Supply Wells.

1.2 UNIT PRICES – MEASUREMENT AND PAYMENT

- A. Unit price bid items will be measured and paid in accordance with Table 1.

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TABLE 1 MEASUREMENT AND PAYMENT				
ITEM NO.	DESCRIPTION	SECTION		
1-1 and 2-1	Mobilization:	01 71 13		
	Basis of Measurement:	None – lump sum.		
	Basis of Payment:	Includes mobilization to and from Project Site, field office, temporary utilities, temporary facilities, traffic control, removal, restoration of site, cleanup, and incidental work.		
	Payment Schedule For Mobilization			
	Percent of Original Contract Amount Earned	Mobilization Payment (Use lesser amount)		
	5	25% of mobilization bid amount or 2.5% of original contract amount		
	10	50% of mobilization bid amount or 5% of original contract amount		
	35	60% of mobilization bid amount or 6% of original contract amount		
1-2 and 2-2	Drill Minimum 22.5-Inch Diameter Surface Casing Borehole:	33 11 13		
	Basis of Measurement:	By linear foot.		
	Basis of Payment:	Includes drilling hole, samples, cutting and drilling fluid disposal, and incidental work.		
	1-3 and 2-3	Furnish and Install Minimum 18-Inch Diameter Surface Casing:	33 11 13	
		Basis of Measurement:	By linear foot (up to 40 feet max. unless ground conditions warrant deeper temporary surface casing and approved by Geologist and Engineer). Measured on surface prior to placing without allowance for lap at joints.	
		Basis of Payment:	Includes casing, welding, installation, grout perforations, cleaning, and incidental work.	
		1-4 and 2-4	Furnish and Install Well Seal for Surface:	33 11 13
			Basis of Measurement:	By cubic foot
Basis of Payment:		Includes grout, placement, witness, report, sanitary seal certificate, and incidental work.		
1-5 and 2-5	Drill 17.5-Inch Diameter Production Borehole:	33 11 13		
	Basis of Measurement:	By linear foot.		
Basis of Payment:	Includes drilling hole, samples, cutting and drilling fluid disposal, and incidental work..			

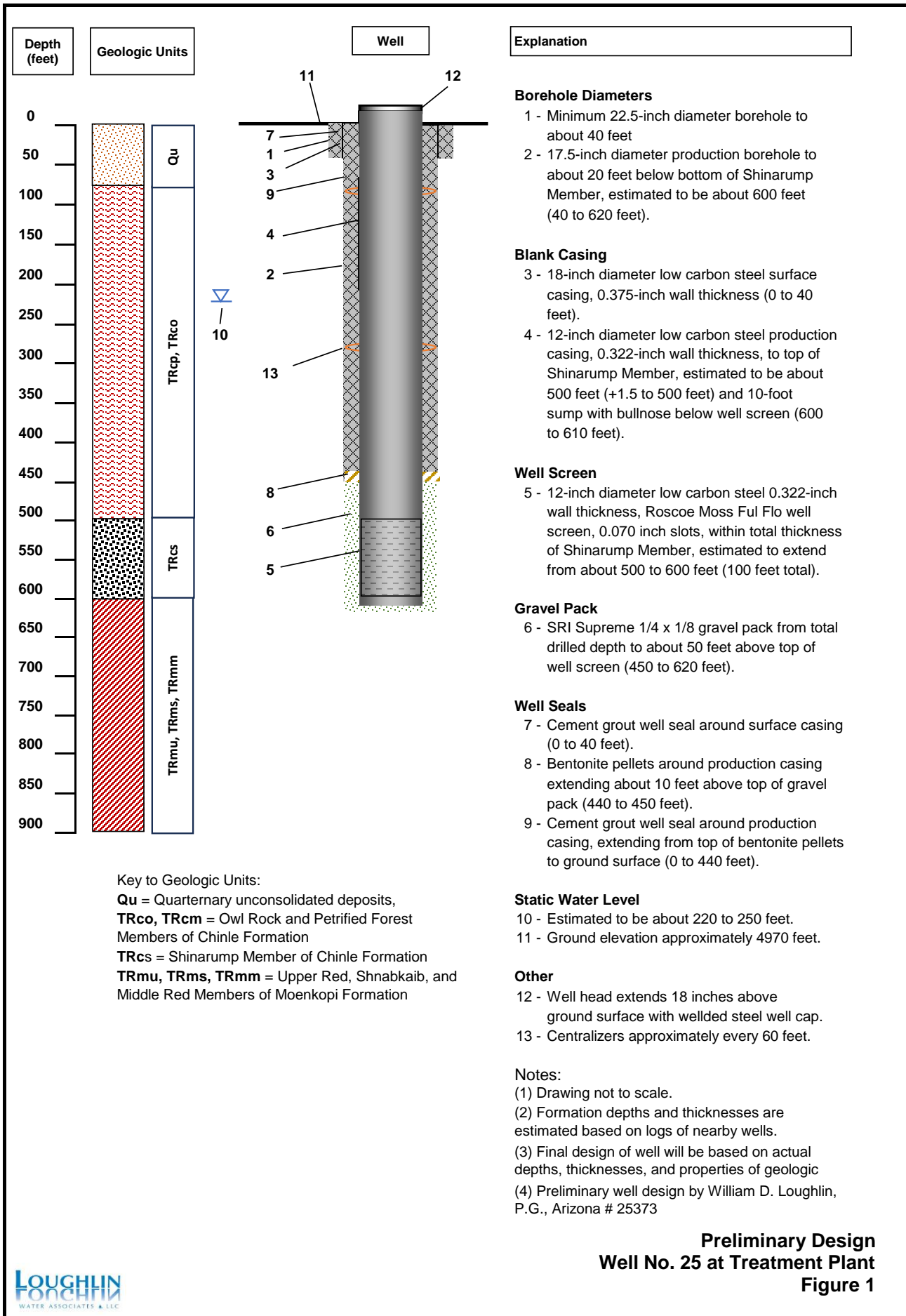
TABLE 1 MEASUREMENT AND PAYMENT		
ITEM NO.	DESCRIPTION	SECTION
1-6 and 2-6	Geophysical Logging of Production:	33 11 13
	Basis of Measurement:	By linear foot.
	Basis of Payment:	Includes equipment, set-up, geophysical deviation log for vertical alignment (Elog, Century Wireline preferred, 16-64 Resistivity, gamma, SP, Caliper, deviation), documentation, and incidental work.
1-7 and 2-7	Furnish and Install Nominal 12-Inch Diameter Steel Production Casing:	33 11 13
	Basis of Measurement:	By linear foot.
	Basis of Payment:	
1-8 and 2-8	Furnish and Install Nominal 12-Inch Diameter Louvered Well Screen:	33 11 13
	Basis of Measurement:	By linear foot.
	Basis of Payment:	Includes screen, fittings, installation, and incidental work.
1-9 and 2-9	Furnish and Install Filter Pack:	33 11 13
	Basis of Measurement:	By cubic foot.
	Basis of Payment:	Includes gravel pack material, disinfection, placement by tremmie rod, and incidental work. No gravel shall be dropped from the top.
1-10 and 2-10	Furnish and Install Bentonite Plug	33 11 13
	Basis of Measurement:	None – lump sum.
	Basis of Payment:	Includes bentonite hole plug, placement, and incidental work.
1-11 and 2-11	Furnish and Install Well Seal for Production Casing:	33 11 13
	Basis of Measurement:	By cubic foot
	Basis of Payment:	Includes hole plug, grout, placement, witness, report, sanitary seal certificate, and incidental work.
1-12 and 2-12	Well Development with Drill Rig:	33 11 13
	Basis of Measurement:	By hour of actual development work.
	Basis of Payment:	Includes equipment, utilities, well development, cleaning well, water disposal, and incidental work.
1-13 and 2-13	Furnish, Install and Remove Test Pumping Equipment:	33 11 13
	Basis of Measurement:	None – lump sum.
	Basis of Payment:	Includes pump equipment, transducer, constant read draw down logging equipment, installation, removal, and incidental work.
1-14 and 2-14	Development Pumping and Test Pumping:	33 11 13
	Basis of Measurement:	By hour actual pump testing.
	Basis of Payment:	Includes electronic monitoring equipment, pumping equipment, utilities, pump test, test logs, disposing of pump test water, reporting, and incidental work.
1-15 and 2-15	Disinfect Well:	33 11 13
	Basis of Measurement:	None – lump sum.
	Basis of Payment:	Includes cleaning, disinfection, testing, pumping, sampling, bacteriological testing, well head cap, and incidental work.
1-16 and 2-16	Standby Time:	33 11 13
	Basis of Measurement:	Hourly, as directed by Engineer.
	Basis of Payment:	Includes standby cost for crew, rig, and equipment for delays caused by the Engineer. All time must be pre-approved by Engineer.

TABLE 1 MEASUREMENT AND PAYMENT		
ITEM NO.	DESCRIPTION	SECTION
1-17 and 2-17	Rig Time/Additional Work:	33 11 13
	Basis of Measurement:	Hourly, as directed by Engineer.
	Basis of Payment:	Includes miscellaneous rig time as directed by Engineer not otherwise covered by other bid items. All time must be pre-approved by Engineer.
2-18	Tailings Haul Off	33 11 13
	Basis of Measurement:	None – lump sum.
	Basis of Payment:	Includes exported tailings, hauling, placement, watering, grading, finishing, compacting, and incidental work.
A1-1 and A2-1	Downhole Video Camera Inspection:	33 11 13
	Basis of Measurement:	By each unit.
	Basis of Payment:	Includes video inspection, documentation, electronic copies of video, and incidental work.
A1-2 and A2-2	Plug and Abandon Borehole:	33 11 13
	Basis of Measurement:	By each unit.
	Basis of Payment:	Includes plugging and abandoning borehole in accordance with applicable federal state and local laws, regulations, and codes, and incidental work.

PART 2 PRODUCTS – Not Used

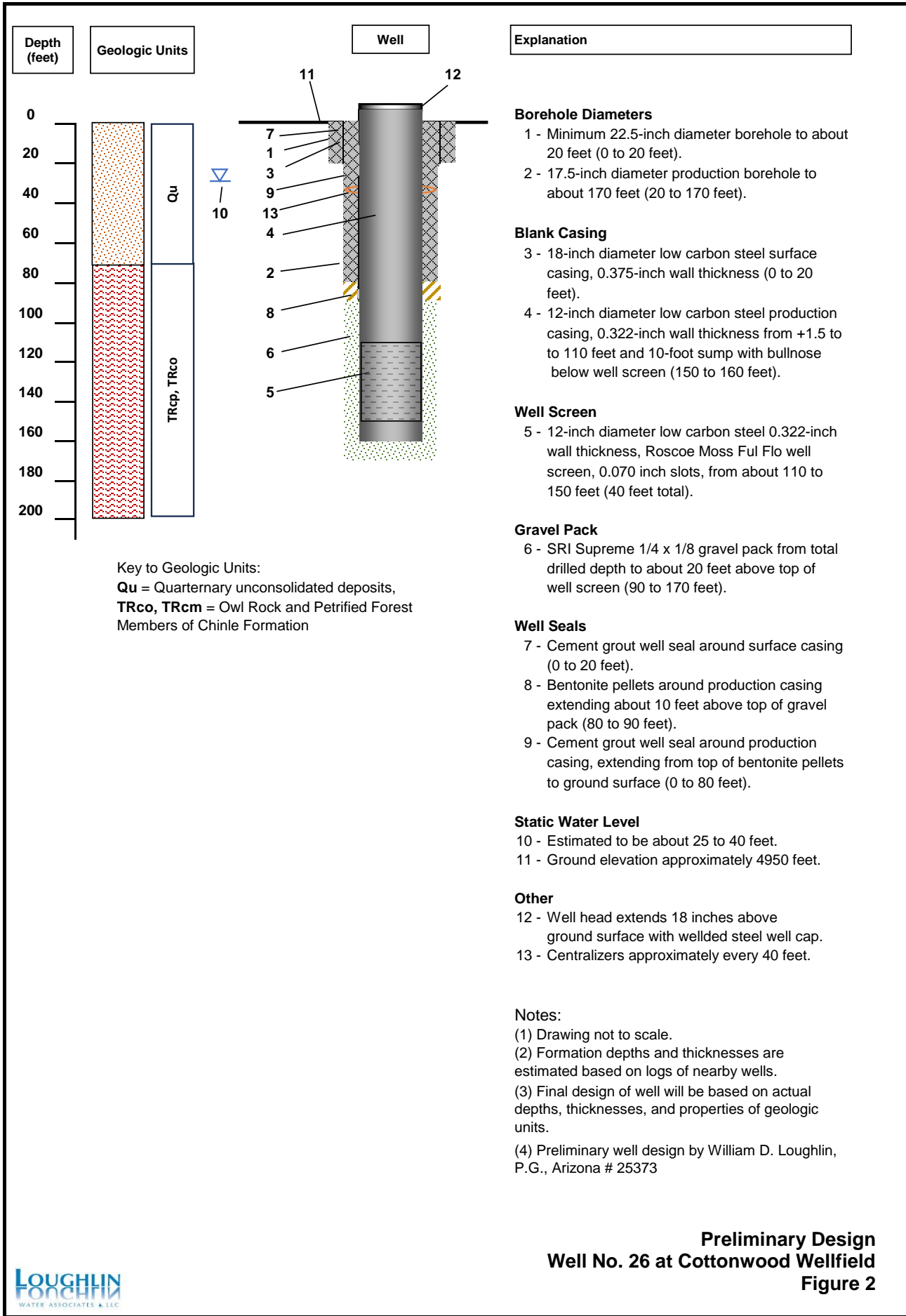
PART 3 EXECUTION – Not Used

END OF SECTION



Key to Geologic Units:
Qu = Quaternary unconsolidated deposits,
TRco, TRcm = Owl Rock and Petrified Forest Members of Chinle Formation
TRcs = Shinarump Member of Chinle Formation
TRmu, TRms, TRmm = Upper Red, Shnabkaib, and Middle Red Members of Moenkopi Formation

**Preliminary Design
 Well No. 25 at Treatment Plant
 Figure 1**



**Preliminary Design
Well No. 26 at Cottonwood Wellfield
Figure 2**