

REGULAR MEETING
SAND SPRINGS/SAPULPA JOINT BOARD MEETING
Inter-local Cooperation Agreement
Tuesday, April 17, 2018
1:30 P.M.
Sapulpa City Hall
Conference Room – First Floor
424 East Dewey Avenue, Sapulpa, Oklahoma

AGENDA

1. Call to Order
2. Roll Call
3. Minutes
 - A. Consider approval of minutes for the January 16, 2018, Regular Joint Board Meeting.
4. BUSINESS
 - A. Discuss and consider recommendation to respective municipal trust authorities an agreement for engineering services with Tetra Tech for operations and maintenance of the jointly owned Skiatook Raw Water Conveyance System during Fiscal Year 2018-2019 in the total amount of \$340,944.00.
 - B. Discuss and consider recommendation to respective municipal trust authorities approval of the purchase and installation of a new 300 KVA 4160 Delta-480Y/277 Square D Transformer for the SRWCS Pump Station with Shermco Industries in the total amount of \$30,210.00.
5. STAFF REPORTS - (Discussion Only, No Action Required)
 - A. Discuss SRWCS Property Procurement Status for the One Way Surge Tank; and expansion of Easements SSS-35 and SSS-36.
 - B. Discuss the April 5, 2018 SRWCS Right-Of-Way Easement Helicopter Fly-Over.
 - C. Discuss schedules for Skiatook Lake Army Corps of Engineers Gate Structure Maintenance Projects; and the FY19 SRWCS Maintenance Outage.
 - D. Discuss FY 18 SRWCS Equipment Replacements and Projects.
 - E. Discuss the One Way Tank Project.

F. Discuss a schedule for a SRWCS Presentation and Tour for the Joint Municipal Authorities.

G. Discuss (if required) SRWCS Status Report of April 4, 2018, by Tetra Tech.

6. ADJOURNMENT:

(The next meeting is July 17, 2018, at 1:30 P.M. in Sapulpa).

Date Posted: _____

Time Posted: _____

By: _____

This agenda was posted at _____ p.m. on April, 2018 on the digital display board located in the lobby of the Sand Springs Municipal Building, 100 East Broadway, Sand Springs, Oklahoma 74063, by Janice Almy, City Clerk, City of Sand Springs, Oklahoma.

Janice Almy, City Clerk, City of Sand Springs, Oklahoma

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MINUTES
SAND SPRINGS/SAPULPA JOINT BOARD
Interlocal Cooperation Agreement
Tuesday, January 16, 2018 at 1:30 P.M.

Regular Meeting
Sand Springs Public Works Administration Building
13101 W. 46th Street
Conference Room 10
Sand Springs, Oklahoma 74063

MEMBERS PRESENT: Beau Wilson, City of Sand Springs
Elizabeth Gray, City of Sand Springs
Lou Martin, City of Sapulpa
Rick Rumsey, City of Sapulpa

OTHERS PRESENT: Frank Weigle, City of Sand Springs
Rick Sauer, Tetra Tech
Robert Petitt, City of Sapulpa

The Sand Springs/Sapulpa Joint Board met in regular session on Tuesday, January 16, 2018 at 1:35 p.m. in the Sand Springs Public Works Administration Building pursuant to the agenda filed with the City Clerk's office and posted at 2:00 p.m. on January 10, 2018 on the digital display board located in the first floor lobby of the Sand Springs Municipal Building, 100 East Broadway, Sand Springs, Oklahoma 74063.

1. **Call to Order**

Vice Chairman Wilson called the meeting to order at the noted time of 1:35 p.m.

2. **Roll Call**

Mr. Wilson called for an individual roll call with members replying in the following manner:

Mr. Martin, here; Mr. Rumsey, here; Mr. Wilson, here; Ms. Gray, here.

3. **Minutes**

Approval was requested for the minutes of the October 17, 2017 Regular Joint Board meeting.

A motion was made by Mr. Martin and seconded by Mr. Rumsey to approve the minutes of the October 17, 2017 Sand Springs/Sapulpa Regular Joint Board meeting.

Mr. Wilson called for the vote recorded as follows:

Mr. Martin, aye; Mr. Rumsey, aye; Mr. Wilson, aye; Ms. Gray, aye.

4. **Business**

- A. Discuss and consider the recommendation to the respective municipal trust authorities the approval of the Agreement for engineering services with Tetra Tech for design, bidding, construction administration, an resident project representation services for a SRWCS One Way Surge Tank; and authorization for the Engineering Design Services for the Surge tank and connection to the existing conveyance conduit at a total maximum cost not to exceed \$44,700.

A motion was made by Ms. Gray and seconded by Mr. Rumsey for the recommendation to the respective municipal trust authorities for the approval of the Agreement for engineering services with Tetra Tech for design, bidding, construction administration, and resident project representation services for a SRWCS One Way Surge Tank; and authorization for the Engineering Design Services for the Surge Tank and Connection to the existing conveyance conduit at a total maximum cost not to exceed \$44,700.

Mr. Wilson called for the vote recorded as follows:

Mr. Martin, aye; Mr. Rumsey, aye; Ms. Gray, aye; Mr. Wilson, aye.

5. **Staff Reports (No Action Required)**

- A. Discussed the November 2019 schedule for the Corps of Engineers Skiatook Lake Maintenance Outage and SRWCS Operations planning for a concurrent Tri-Annual System Maintenance Outage during that period are currently ongoing.
- B. Discussed SRWCS Property Procurement Status for the One Way Surge Tank and easements SSS-35 and SSS-36.
- C. Discussed current FY 18 Pump Station Equipment Replacements to be scheduled.
- D. Noted for discussion (if requested) the SRWCS Status Report of January 3, 2018 by Tetra Tech.

6. **Adjournment - 1:53 P.M.**

- A. A motion was made for adjournment by Mr. Rumsey and seconded by Mr. Martin.

Mr. Wilson called for the vote recorded as follows: All in Attendance, aye.

Memorandum



Tetra Tech

To: Sapulpa Municipal Authority
Sand Springs Municipal Authority

Date: April 10, 2018

From: Neill Pulliam, P.E., Project Manager

Subject: SRWCS: Operations & Maintenance Agreement (FY 2018-2019)

The Joint Board of the Skiatook Raw Water Conveyance System (SRWCS) is respectfully requested during the upcoming meeting to consider and approve the attached Agreement for Engineering Services with Tetra Tech, Inc. for Operations and Maintenance of the jointly owned SRWCS during FY 2018-2019.

The scope of work and corresponding labor / cost budget is composed of three separate sections: (1) "Operations & Maintenance (O&M)" section, (2) "Repair & Rehabilitation/Upgrade (R&R)" section, and (3) "Tri-annual Shutdown" section. The "O&M" portion of the budget is based upon anticipated labor-hours and costs to operate the raw water system and perform routine maintenance activities on the system's assets (pumps, strainers, valves, tanks, mechanical equipment, and telemetry) and facilities. The "R&R" portion of the budget is based upon an estimate of labor-hours and costs that could be associated with unforeseen equipment repairs and replacements which may be necessary during the upcoming year. The "Tri-annual Shutdown" section summarizes labor-hours and costs associated with the system shutdown and detailed internal inspections/cleaning/maintenance of critical facilities which can only be performed off-line, and facility evaluation; this effort is performed once every three years since inception of the system; last occurring March 2016 and next scheduled for March 2019.

The summary table of estimated man-hours, labor costs, and engineer expenses shown below is consistent with recent staff review and budget finalization meetings.

Scope of Services	Man-hours	Labor Costs	Engineer Expenses	Estimated Total
Operations & Maintenance	2319	\$214,859	\$65,215	\$280,074
Repair / Rehab / Upgrade (1)	49	\$3,939	\$6,121	\$10,060
Tri-annual Shut-down	189	\$17,479	\$33,331	\$50,810
Sub-totals	2557	\$236,277	\$104,667	\$340,944

{1} [Includes estimated labor and direct expenses for repair / replacement of unanticipated equipment malfunctions.]

AGREEMENT
FOR
ENGINEERING SERVICES
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018 - 2019

THIS AGREEMENT, including Attachments between Sapulpa Municipal Authority and the Sand Springs Municipal Authority Joint Board (Owner) and Tetra Tech, Inc. (Engineer);

WITNESSETH:

WHEREAS, Owner has contracted for the maintenance and operation of the Skiatook Lake Raw Water Conveyance System (SRWCS) since September 15, 1992; and Owner intends to continue to maintain and operate the SRWCS (the Project); and,

WHEREAS, Owner requires certain engineering services (the Services) in connection with the Project; and,

WHEREAS, Engineer is prepared to provide the Services;

NOW THEREFORE, in consideration of the promises contained in this Agreement, Owner and Engineer agree as follows:

ARTICLE 1 - EFFECTIVE DATE

The effective date of this Agreement shall be the _____ day of _____ 2018.

ARTICLE 2 - GOVERNING LAW

This Agreement shall be governed by the laws of the state of Oklahoma, local ordinances, and resolutions and the interlocal cooperation agreement for the Skiatook Lake Raw Water Conveyance System originally executed December 1, 1986, hereafter referred to as the Interlocal Agreement.

ARTICLE 3 - SERVICES TO BE PERFORMED BY ENGINEER

Engineer shall perform the Services described in Attachment A, Scope of Services.

ARTICLE 4 - COMPENSATION

Owner shall pay Engineer in accordance with Attachment B, Compensation.

ARTICLE 5 - OWNER'S RESPONSIBILITIES

Owner shall be responsible for all matters described in Attachment C, Owner's Responsibilities and Special Conditions.

ARTICLE 6 - STANDARD OF CARE

Engineer shall perform the Services undertaken in a manner consistent with the prevailing accepted standard for similar services with respect to projects of comparable function and complexity, and with the applicable laws and regulations published and in effect at the time of performance of the Services. The System shall be operated and maintained in a good and workmanlike manner and in strict accordance with this Agreement. All work shall be performed by or under the supervision of

Oklahoma Dept. Of Environmental Quality (ODEQ) certified operators properly qualified to perform such Services, which qualification shall be subject to review by the Owners. Engineer shall perform the Services which fail to satisfy this standard of care in a manner satisfactory to the Owner, at no additional cost. Other than the obligation of the Engineer to perform in accordance with the foregoing standard, no warranty, either express or implied, shall apply to the Services to be performed by the Engineer pursuant to this Agreement or the suitability of Engineer's work product.

ARTICLE 7 - LIABILITY AND INDEMNIFICATION

7.1 General. Having considered the potential liabilities that may exist during the performance of the Services, the benefits of the Project, and the Engineer's fee for the Services; and in consideration of the promises contained in this Agreement, Owner and Engineer agree to allocate and limit such liabilities in accordance with this Article.

7.2 Indemnification. Engineer and Owner each agrees to defend, indemnify, and hold harmless each other, its agents and employees, from and against legal liability for all claims, losses, damages, and expenses to the extent such claims, losses, damages, or expenses are caused solely by its negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of Engineer and Owner, they shall be borne by each party in proportion to its own negligence.

7.3 Consequential Damages. Engineer shall not be liable to Owner for any special, indirect, or consequential damages resulting in any way from the performance of the Services such as, but not limited to, loss of use, loss of revenue, or loss of anticipated profits.

7.4 Survival. Upon completion of all Services, obligations, and duties provided for in this Agreement, or if this Agreement is terminated for any reason, the terms and conditions of this Article shall survive.

7.5 Limitations of Liability. To the fullest extent permitted by law, Engineer's total liability to the Owner for all claims, losses, damages, and expenses resulting in any way from the performance of the Services shall not exceed the limits of the Engineer's insurance coverage.

ARTICLE 8 - INSURANCE

During the performance of the Services under this Agreement, Engineer shall maintain the following insurance:

- (1) General Liability Insurance, with a combined single limit of \$1,000,000 for each occurrence and \$1,000,000 in the aggregate.
- (2) Automobile Liability Insurance, with a combined single limit of \$1,000,000 for each accident.
- (3) Workers' Compensation Insurance and Employer's liability Insurance in accordance with statutory requirements.
- (4) Professional Liability Insurance, with a limit of \$1,000,000 annual aggregate.
Engineer shall, upon written request, furnish Owner certificates of insurance which shall include a provision that such insurance shall not be canceled without at least thirty days' written notice to Owner. All Project contractors shall be required to include Owner and Engineer as additional

insureds on their General Liability insurance policies, and shall be required to indemnify Owner and Engineer to the same extent.

The Owners shall be responsible for providing all property loss insurance for the System.

Engineer and Owners each shall require its insurance carriers to waive all rights of subrogation against the other and its directors, officers, partners, commissioners, officials, agents and employees, for damages covered by property insurance during and after the performance of services. A similar provision shall be incorporated into all contractual arrangements entered into by Owners and shall protect Owners and Engineer to the same extent.

ARTICLE 9 - LIMITATIONS OF RESPONSIBILITY

Engineer shall not be responsible for: (1) maintenance means, methods, techniques, sequences, procedures, or safety precautions and programs being provided by others in connection with the System; (2) the failure of any contractor, subcontractor, vendor, or other Project participant, not under contract to Engineer, to fulfill contractual responsibilities to the Owner or to comply with federal, state, or local laws, regulations, and codes; or (3) procuring permits, certificates, and licenses required for any work unless such responsibilities are specifically assigned to Engineer in Attachment A, Scope of Services.

ARTICLE 10 - LIMITATIONS OF RESPONSIBILITIES FOR ACTS OF OTHERS

Provided that the Engineer has acted in good faith, Engineer shall not be liable to Owner for breach of contract or for negligent error or omission in failing to detect, prevent, or report the failure of any contractor, subcontractor, vendor, or other project participant to fulfill contractual or other responsibilities to the Owner, failure to finish or construct the Project in accordance with the plans and specifications, or failure to comply with federal, state, or local laws, ordinances, regulations, rules, codes, orders, criteria, or standards.

ARTICLE 11 - OPINIONS OF COST AND SCHEDULE

Since Engineer has no control over the cost of labor, materials, or equipment furnished by others, or over the resources provided by others to meet Project schedules, Engineer's opinion of probable costs and of Project schedules shall be made on the basis of experience and qualifications as a professional engineer. Engineer does not guarantee that proposals, bids, or actual System operation costs will not vary from Engineer's estimates or that actual schedules will not vary from Engineer's projected schedules. Engineer shall complete the services within the time frame outlined on Attachment E, Schedule, subject to conditions which are beyond the control of the Engineer. Engineer does not guarantee that actual system operation costs will not vary from Engineer's estimates or that actual schedules will not vary from Engineer's projected schedule.

ARTICLE 12 - REUSE OF DOCUMENTS

All documents, including, but not limited to, drawings, specifications, and computer software prepared by Engineer pursuant to this Agreement are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Owner or others on extensions of the Project or on any other project. Any reuse without prior written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer. Owner shall defend, indemnify, and hold harmless Engineer against all claims, losses, damages, injuries, and expenses, including attorneys' fees, arising out of or resulting from such reuse. Any verification or adaptation of documents will entitle Engineer to additional compensation at rates to be agreed upon by Owner and Engineer.

ARTICLE 13 - OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Except as otherwise provided herein, engineering documents, drawings, and specifications prepared by Engineer as part of the Services shall become the property of Owner provided, however, that Engineer shall have the unrestricted right to their use. Engineer shall retain its rights in its standard drawing details, specifications, databases, computer software, and other proprietary property. Rights to intellectual property developed, utilized, or modified in the performance of the Services shall remain the property of Engineer.

ARTICLE 14 - TERMINATION

This Agreement may be terminated by either party upon written notice in the event of substantial failure by the other party to perform in accordance with the terms of this Agreement. The nonperforming party shall have fifteen calendar days from the date of the termination notice to cure or to submit a plan for cure acceptable to the other party.

Owner may terminate or suspend performance of this Agreement for Owner's convenience upon written notice to Engineer. Engineer shall terminate or suspend performance of the Services on a schedule acceptable to Owner. If termination or suspension is for Owner's convenience, Owner shall pay Engineer for all the Services performed and termination or suspension expenses. Upon restart, an equitable adjustment shall be made to Engineer's compensation for the direct and indirect costs associated with remobilization.

ARTICLE 15 - DELAY IN PERFORMANCE

Neither Owner nor Engineer shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonperforming party. For purposes of this Agreement, such circumstances include, but are not limited to, abnormal weather conditions; floods, earthquakes, fire; epidemics; war, riots, and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; sabotage; judicial restraint; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either Owner or Engineer under this Agreement.

Should such circumstances occur, the nonperforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

ARTICLE 16 - COMMUNICATIONS

Any communication required by this Agreement shall be made in writing to the address specified below:

- Engineer: Tetra Tech, Inc.
7645 E. 63rd Street, Suite 301
Tulsa, Oklahoma 74133
Attention: D. Neill Pulliam Jr, P.E.,

- Owner: Sand Springs/Sapulpa Joint Board
c/o Sand Springs Municipal Authority
PO Box 338
Sand Springs, OK 74063
Attention: Mr. Derek Campbell, P.E.

and

Sand Springs/Sapulpa Joint Board
c/o Sapulpa Municipal Authority
P.O. Box 1130
Sapulpa, OK 74067
Attention: Mr. Rick Rumsey, Assistant City Manager

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Engineer and Owner.

ARTICLE 17 - WAIVER

A waiver by either Owner or Engineer of any breach of this Agreement shall be in writing. Such a waiver shall not affect the waiving party's rights with respect to any other or further breach.

ARTICLE 18 - SEVERABILITY

The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

ARTICLE 19 - INTEGRATION

This Agreement represents the entire and integrated Agreement between Owner and Engineer. It supersedes all prior and contemporaneous communications, representations, and agreements, whether oral or written, relating to the subject matter of this Agreement.

ARTICLE 20 - SUCCESSORS AND ASSIGNS

To the extent permitted by Article 21, Owner and Engineer each binds itself and its successors and assigns to the other party to this Agreement.

ARTICLE 21 - ASSIGNMENT

Neither Owner nor Engineer shall assign its duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Engineer from employing independent consultants, associates, and subcontractors to assist in the performance of the Services.

ARTICLE 22 - THIRD PARTY RIGHTS

Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than Owner and Engineer.

ARTICLE 23 – PERIODIC REVIEW AND PERIOD OF SERVICE

Reviews of the major facilities of the System, as identified in Attachment A, - Scope of Services, may be made at least two (2) times yearly during the months of February and August by one or more designated representatives of the Owners in the company of Engineer and at the discretion of the

Owners. Reviews are to assess Engineer's performance and confirm acceptable operational condition of the System.

Only written comments from these reviews or other appropriate forums, authorized by the Owners, will be responded to by Engineer.

ARTICLE 24 – MAINTENANCE EQUIPMENT AND SUPPLIES

Maintenance equipment and supplies acquired by Engineer by direct purchase under this Agreement shall remain the property of the System, and shall be maintained by Engineer as a part of the System.

IN WITNESS WHEREOF, Owner and Engineer have executed this Agreement.

Owner: Sapulpa Municipal Authority

By _____

Title _____

Date _____

Engineer: Tetra Tech, Inc.

By  _____

D. Neill Pulliam Jr, P.E.
Title Sr. Project Manager

Date 4-10-18

APPROVED

Municipal Authority Attorney

ATTEST

Secretary

Owner: Sand Springs Municipal Authority

Title _____

Date _____

APPROVED

Municipal Authority Attorney

ATTEST

Secretary

**ATTACHMENT A
TO
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
SAPULPA MUNICIPAL AUTHORITY AND
SAND SPRINGS MUNICIPAL AUTHORITY, OWNERS
AND
TETRA TECH, INC., ENGINEER
FOR
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018-2019**

SCOPE OF WORK

The following scope of services shall be made a part of the Agreement dated the ____ day of _____ 2018.

I. PROJECT UNDERSTANDING

The Sapulpa Municipal Authority and the Sand Springs Municipal Authority currently utilize raw water from Skiatook Lake for treatment and subsequent distribution to customers. This raw water is conveyed to each individual entity's treatment facilities by the jointly owned Skiatook Raw Water Conveyance System (SRWCS). This system and its facilities require both routine and emergency operational and maintenance services. The Engineer shall provide full-time operational services for the pump station, repeater station, one-way surge tank, 2MG storage tanks (2), meter vault, and the 36" transmission line with all appurtenances. No individually owned facilities are included within the scope of this Agreement. The included facilities may be referred to as the "System," SRWCS," or the "Joint Facilities."

II. SCOPE OF SERVICES

1. Engineer shall perform site visits to each and all major facilities on the system no less than five times per month.
2. Engineer shall enter information necessary to establish and maintain the maintenance management system. Engineer shall utilize the management system for maintenance scheduling and documentation.
3. Engineer shall provide routine maintenance on the system equipment as identified in the operation and maintenance manuals and as further defined by the maintenance management system. Engineer shall provide consumable supplies needed for normal, routine maintenance within the budgeted values identified in Attachment "B". When authorized by this agreement in accordance with budgeted values identified in Attachment "B", Engineer shall be prepared to: solicit for quotes, acquire, and install special/critical equipment and materials needing timely replacement or rehabilitation due to unforeseen conditions and/or circumstances.

4. Engineer shall perform periodic water balance examinations of the system to investigate the potential for excessive losses warranting further investigations beyond the scope of the current budgetary limitations.
5. Engineer shall complete an aerial inspection of the 36" transmission line a minimum of one time per year. Advance authorization from Owners is required prior to all such inspections. Further, the Owners may assign one representative to accompany Engineer on the inspections.
6. Engineer shall inspect, exercise, and report on the condition of transmission line appurtenances (isolation and air-relief valves and blow-off assemblies, etc.) as appropriate or in conjunction with the tri-annual system shutdown.
7. Engineer shall provide monthly raw water flow meter readings at each site of the system. These meter readings shall be regularly scheduled. The Owner shall be given the opportunity to witness all meter readings. Engineer shall enter the results of these meter readings and utility billing into the cost allocation spreadsheet provided by the Owners and report the resulting cost allocation monthly to the Owners.
8. Engineer shall prepare a monthly report on the system status, usage, and operator activities to the Owners.
9. Engineer shall provide a listing of initial and monthly updates of equipment, supplies, and manpower assistance to be provided by the owners for operations and maintenance on the system. When necessary, Engineer shall prepare and distribute to Owner's representatives an Activity Report to initiate assistance from Owners as outlined in Attachment C.
- ~~10. *Grounds keeping services removed from Engineer scope of work and omitted.*~~
11. Engineer shall notify and inform owner of anticipated technical services required for Owner's coordination of the yearly specialized services as outlined in Attachment C, Owner Responsibilities and Special Conditions/Exclusions.
12. Engineer shall perform routine maintenance and cleaning of cooling, heating, and ventilation equipment two times per year to generally coincide with the onset of the heating and cooling seasons.
13. Engineer shall perform monthly rotations of high-service pumps if not in operation and if system conditions/configuration permit pump rotations.
14. Engineer shall provide the basic tools necessary for performance of the requirements of this Agreement.
15. Engineer shall respond to emergency call-outs received. Engineer shall assess the severity of all call-outs and respond as Engineer deems appropriate in accordance with the policies approved by the Owners.

16. Engineer shall provide one primary operator along with a minimum of two stand-by operators familiar with the system. Operators shall be equipped with cellular telephones to ensure communication and safety.
17. Primary Operator shall be certified as required by the Oklahoma State Department of Health. Costs for such certification beyond an "O.S.D.H. Class D" shall be included in the annual budget and be eligible for reimbursement.
18. In the event of a system emergency, Engineer shall be responsible for the coordination of all necessary efforts and resources in accordance with the policies established by the Owners.
19. Engineer shall perform, no more than one time per month, the required NPDES sampling and delivery of samples to the designated Owners' laboratory.

**ATTACHMENT B
TO
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
SAPULPA MUNICIPAL AUTHORITY AND
SAND SPRINGS MUNICIPAL AUTHORITY, OWNERS
AND
TETRA TECH, INC., ENGINEER
FOR
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018 - 2019**

COMPENSATION

The following compensation provisions shall be made a part of the Agreement dated the _____ day of _____ 2018.

I. PAYMENTS FOR SERVICES AND EXPENSES OF THE ENGINEER:

A. Basic Engineering Services. For basic engineering services performed under Article 3, the Owner will pay the Engineer at the hourly rates, plus burdened expenses, set forth in Engineer's Rate Schedule (Attachment D). The rates shown include all costs, including overhead and profit. Total maximum billing shall not exceed \$ 340,944 without further authorization.

B. Additional Engineering Services. For additional engineering services, initiated by written authorization from Owner representative and performed under Article 3, the Owner will pay the Engineer at the "Additional Services" Hourly rates, set forth in Engineer's Rate Schedule (Attachment D), plus subcontract work, if any, and direct expenses at burdened cost plus 10%. Billing rates will not exceed those set forth in Engineer's Rate Schedule (Attachment D).

II. TIMES OF PAYMENT: Invoices are due and payable within 30 days of date of invoice. Invoices past due are subject to interest at the rate of 1½% per month.

A. Basic Engineering Services. For the basic engineering services performed under Article 3, monthly payments shall be made in proportion to services performed. Owners shall pay the invoices as follows:

Sand Springs	60%
Sapulpa	40%

B. Additional Engineering Services. For additional engineering services, monthly payments by the Owner shall be based on detailed invoices from Engineer for work completed. Owners shall pay the invoices as follows:

Sand Springs	60%
Sapulpa	40%

This sheet intentionally blank

EXHIBIT B-1

ESTIMATED MANHOURS AND COSTS

Price Proposal		Labor Plan		Price Summary / Totals		Task Pricing Totals:	340,944														
SRWCS: O&M FY 2018 - 2019		04-10-18		Total Price:				340,944													
OPERATIONS & MAINTENANCE - INTLY OWNED RAW WTR SYS. Submitted to: SSS-MA																					
Contract Type: T&M	Project Phases / Tasks	Schedule		Total Labor Hrs	Principal Engineer (Full-time)	Plant Operator 2 (Satur)	Plant Operator 3 (Satur)	OTN	Senior 3 (Wkstn) / (P4)	Sr Contr Project Mgr 1 (MACE)	Mg Proj (CHAMAN / MACE)	Mgr Design 3 (CA/SONG)	Construction Administrator (VACCO)	Project Administrator / (RORICK)	Sr CAD Designer 1 (CAMFO)	Labor	Subt	Travel	Maint & Equip	ODC	Task Pricing Totals
		From	To																		
	00 - REPAIR & REHAU (SYSTEM ASSETS)															236,277		16,736	28,245	59,686	340,944
	00-RO2 - R & R EQUIPMENT															3,979			6,321		10,300
	00.1 - TRM-ANNUAL SHUTDOWN/NSP 03/2019 - (LABOR / VENDORS / SUPPLIES)			189												17,479				31,331	50,180
	00.2- RO2 - LEAK MON																				
	00.3- RO2 - LEAK MON																				
	00.4- RO2 - LEAK MON																				
	00.5- RO2 - LEAK MON																				
	00.6- RO2 - LEAK MON																				
	00.7- RO2 - LEAK MON																				
	00.8- RO2 - LEAK MON																				
	00.9- RO2 - LEAK MON																				
	01 - OPERATIONS & MAINTENANCE			2,319												24,028			21,224		214,659
	002 - EQUIP FOR STA / RW																				
	004 - SUB / VENDORS																				
	006-A - OPERATOR TRAVEL (HRT #10)																				
	006-B - STAFF TRAVEL																				
	009 - SUPPLIES																				
	Totals			2,516			17	2,686	235	34	40	18	51			236,277		16,736	28,245	59,686	340,944

EXHIBIT B-2

(For Information of Potential Estimated Costs)

			Budget
R.01 - System and Equipment rebuild/ replacement			
: PMP IQ1000 MOTOR PROTECT ION RELAY & RTD MODULE			\$ -
EMERGENCY CRANE RENTAL SERV			\$ -
ONE WAY TANK ALTITUDE VALVE REPAIR KIT			\$ 677
COMPRESSOR CONTROL - EVAL & RELAY			\$ -
Strainer #1 worm gear reducer			\$ -
Strainer #1 backwash valve			\$ -
Strainer #2 backwash valve - rebuild kit			\$ -
ROW Maintenance [materials]			\$ -
ROW Maintenance [Equipment Rental - skid loader]			\$ 2,043
Pull pump and rebuild [P301 in 08]			\$ -
HVAC emergency repairs			\$ -
12" gate valve and hardware			\$ -
Replace ± 1 suspended heaters: Strainer Bldg / Station 15KW 480V			\$ 2,315
Emergency Telemetry Repairs			\$ -
meter repairs			\$ -
meter calibration			\$ -
Butterfly Valve		REPLACE	\$ -
***SPARE TRANSDUCER:			\$ 1,086
***PURCHASE SPARE TRANSFORMER: \$14658 + SHIPPING [OWNER PO]			\$ -
			\$ 6,121

EXHIBIT B-3

(For Information of Potential Estimated Costs)

R.02 - EQUIPMENT FOR STATION AND RIGHT-OF-WAY		
	Station	ROW
Purchase		
Strainer Parts #1 & #2	\$ 838	\$ -
EROSION DEVICES	\$ -	\$ 335
Hand Tools	\$ 671	\$ -
Gauges	\$ -	\$ -
Cup Changes	\$ 2,012	\$ -
Replace 6 Hydraulic Hoses [Air/Oil Op]	\$ -	\$ -
Gland Replacement	\$ 1,543	\$ -
4" ARV Valves(1) rebuild kit	\$ -	\$ -
6" ARV (1) rebuild kit	\$ -	\$ -
Pad Locks	\$ -	\$ 201
Marker and Post [Replace 50 signs]	\$ -	\$ -
Misc. Equip	\$ 1,677	\$ 268
EXHAUST INTAKE SCRNR	\$ -	\$ -
Pump Oil	\$ 5,000	\$ -
GASKETS	\$ 537	\$ -
Compressor Maint. Parts - Filter / filter kits	\$ 3,112	\$ -
Rental		
***Brushhog / Mowing R/W	\$ -	\$ 5,929
Generator (rental)	\$ -	\$ -
pressure washer (rent)	\$ -	\$ -
Water pump (rent)	\$ -	\$ -
ATV (rental)	\$ -	\$ -
TOTAL	\$ 15,390	\$ 6,734
	\$	22,124

EXHIBIT B-4

(For Information of Potential Estimated Costs)

BUDGET			
R.04 - Subcontracts / Vendors			
	Station	ROW	Facilities
ANNUAL			
Annual light	\$ -	\$ 2,294	\$ -
Yard Maintenance <i>[Beginning FY 09-10 Owner responsibility]</i>	\$ -	\$ -	\$ 0
HVAC (annual service)	\$ 731	\$ -	\$ -
MICRO-COMM ANNUAL SERV "SYS CHECKOUT" SYSTEM TELE. DEBUG	\$ -	\$ -	\$ 2,012
MICRO-COMM ANNUAL EQUIP INSURANCE (excludes labor)	\$ -	\$ -	\$ 2,683
Meter Calibration (sta.) field calibration in-house	\$ -	\$ -	\$ -
Cathodic services on (2) tanks	\$ -	\$ -	\$ 2,119
Meter Calibration (MV)	\$ -	\$ 1,107	\$ -
MOTOR INSULATION CHECK X 1	\$ 2,674	\$ -	\$ -
MOTOR VIBRATION CHECK X 2	\$ 3,614	\$ -	\$ -
Herbicide Treatment PSO	\$ -	\$ -	\$ -
Tank base seal	\$ -	\$ -	\$ -
Cathodic services - Vault Piping	\$ -	\$ 2,817	\$ -
ANNUAL CLEANING TANK #2 (OWNER PO) - \$10,630 (March 2017)	\$ -	\$ -	\$ -
***ANNUAL OVERHEAD HOIST INSPECTION	\$ -	\$ -	\$ 389
***TRANSFORMER OIL SAMPLE - TEST - RPT X 2	\$ -	\$ -	\$ 1,382
PAGE PLUS (Emergency Pager for Operator / Alt Operator on-call)	\$ -	\$ -	\$ 612
SUBTOTAL	\$ 7,018.47	\$ 6,217.62	\$ 9,197.57
TRI - ANNUAL			
Clean Arrestor & One-Way Tank DUE 3/13/2016 /2019 /2022	\$ 4,610	\$ -	\$ -
Clean #1 Tank - 2 MG (OWNER PO) - \$11666 DUE 3/13/2016 /2019 /2022	\$ -	\$ -	\$ -
Touch up Paint - 2 MG Tank DUE 3/13/2016 /2019 /2022	\$ 3,504	\$ -	\$ -
Touch up Paint - Surge Arrestor / 1 WAY DUE 3/13/2016 /2019 /2022	\$ 4,505	\$ -	\$ -
Porto - John Rental DUE 3/13/2016 /2019 /2022	\$ 671	\$ -	\$ -
Replace Surge Arrestor Anodes (16) [If needed] DUE 3/13/2016 /2019 /2022	\$ 2,683	\$ -	\$ -
Pipeline Inspection - excavation / backfill DUE 3/13/2016 /2019 /2022	\$ 1,341	\$ -	\$ -
Switch gear IR Survey - elect maintenance / rpt DUE 3/13/2016 /2019 /2022	\$ 16,017	\$ -	\$ -
SUBTOTAL	\$ 33,331.03	\$ -	\$ -
ESTIMATED TOTAL	\$ 40,349.49	\$ 6,217.62	\$ 9,197.57
	Station	ROW	Facilities
	\$55,765		

\$22,433.65

\$33,331.03

EXHIBIT B-5

(For Information of Potential Estimated Costs)

BUDGET			
R.09 - MISC SUPPLIES			
1 Air system filters -	\$	953	
2 HVAC filters -	\$	102	
3 Oil booms -	\$	136	
4 Oil pads -	\$	272	
5 Wipe All wipers -	\$	272	
6 Shop rags	\$	68	
7 Compressor Air & Oil filters -	\$	204	
8 Grease -	\$	102	
9 Water filters -	\$	102	
10 Trash bags -	\$	68	
11 Cleaners -	\$	204	
12 Cling Supplies -	\$	102	
13 Spray lube -	\$	34	
14 Teflon Tape -	\$	51	
15 Oil Absorb material -	\$	-	
16 Floor sealer, polish -	\$	-	
17 Light bulbs -	\$	300	
18 Fuses -	\$	-	
19 UPS Batteries -	\$	609	
20 Vac supplies -	\$	-	
21 Paint -	\$	505	
***22 Ext. Block Sealer [tri-annual application] Due 2020	\$	-	
23 Caulk -	\$	68	
24 Paint supplies -	\$	136	
24 Printer -	\$	204	
26 Yard Maint. Supplies	\$	203	
28 Seed and fertilizer	\$	-	
29 Concrete for patching 2mg and station	\$	-	
30 Ovrhd crane oil chng kit-alt years - ANNUAL INSP	\$	-	
31 2A wax tape (case) and primer(20	\$	-	
32 Zander arrestor add-air filter	\$	177	
33	\$	-	
34	\$	-	
35	\$	-	
TOTAL		\$3,921	
		\$3,921	
		Station	
R.09 - MISC SUPPLIES - SUBTOTAL		\$3,921	

**ATTACHMENT C
TO
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
SAPULPA MUNICIPAL AUTHORITY AND
SAND SPRINGS MUNICIPAL AUTHORITY, OWNERS
AND
TETRA TECH, INC., ENGINEER
FOR
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018 - 2019**

OWNER'S RESPONSIBILITIES AND SPECIAL CONDITIONS

The following list of special Owner responsibilities and contract conditions shall be made a part of the Agreement dated the ____ day of _____ 2018.

I. OWNER RESPONSIBILITIES

1. Owner shall furnish and make all provisions for the Engineer to enter upon public or private property as required for the Engineer to perform the Services under this Agreement.
2. Owner shall be responsible for all permit fees.
3. Owner shall designate in writing a person to act as its representative in respect to the work to be performed under this Agreement, and such person shall have complete authority to transmit instructions, receive information, interpret, and define Owner's policies and decisions with respect to materials, equipment, elements, and systems pertinent to the services covered by this Agreement.
4. Owner shall provide suitable office location for the operator at an appropriate location in reasonable proximity to the SRWCS.
5. Upon request and advance notification, Owner shall provide labor and equipment assistance to Operator for normal, special, and unanticipated maintenance or repair of system facilities as recommended, and approved necessary and economically possible. Tri-annual shutdown operations and maintenance efforts are considered to be special activities; and warranting additional manpower, familiar with the system, and providing efficient assistance to the Operator.
6. Owner shall provide technical and professional engineering evaluation of encroachment / crossing permit applications, and oversight of improvement / repair projects to system facilities outside the scope of normal and anticipated Operations and Maintenance efforts; including but not limited to engineering analysis and design, contract document preparation, solicitation of bids, construction administration, and inspection / documentation of contractor activities.
7. Owner shall perform or sub-contract groundskeeping activities at the pump station, repeater station, one-way surge tank, and 2 MG tanks.

II. SPECIAL CONDITIONS - EXCLUSIONS

The following items are considered exclusions from Engineer's required scope of services.

1. Direct costs and/or subconsultant fees associated with yearly technical calibration and/or testing of specialized equipment exceeding the items and estimated costs shown in Exhibit B-2 and B-4 to this Agreement, including, but not limited to, telemetry equipment, flow meters, cathodic protection, pump motor resistance, and other such specialized testing.
2. Technical service to cooling, heating, and ventilation equipment exceeding estimated costs shown in Exhibit B-2 and B-4: assistance shall be provided by the Owners.
3. Purchasing operation and maintenance: assistance shall be provided by the Owners.
4. Monitoring of the system status via the telemetry system shall be provided by the Owners.
5. Coordination of an additional maintenance management system shall be provided by the Owners.
6. Laboratory work necessary to comply with the pump station future discharge permit shall be provided by the Owners.
7. Maintenance (labor) assistance for extraordinary and emergency items shall be provided by the Owners as practical and economically possible.
8. Enforcement of SRWCS right-of-way provisions and permitting requirements associated with encroachments shall be provided by the Owners; Owner's Engineering staff shall provide technical review of encroachment / crossing permit applications.
9. Equipment supply for extraordinary and emergency items shall be provided by the Owners.
10. Purchases of replacement equipment necessary to maintain function and operations as identified in this Agreement shall be provided by the Owners in a timely and efficient manner.
11. Receipt of all mail and file maintenance for the system shall be provided by the Owners.
12. Direct costs and/or subconsultant fees associated with maintenance to system pumps 1-1, 2-1, 3-1, and 4-1 requiring the removal of motors and/or pumps from the pump cans shall be provided by the Owners.
13. Engineering coordination, and inspection of warranty work required during any periods of repair, rehabilitation, and/or improvements projects may be contracted separately.

**ATTACHMENT D
TO
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
SAPULPA MUNICIPAL AUTHORITY AND
SAND SPRINGS MUNICIPAL AUTHORITY, OWNERS
AND
TETRA TECH, INC., ENGINEER
FOR
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018 - 2019**

RATE SCHEDULE

The following hourly rates shall apply as described in Attachment B and shall be made a part of the Agreement dated the _____ day of _____ 2018. (List effective July 1, 2018)

I. PROFESSIONAL FEES BASED ON TIME

The hourly rates set forth below include all salaries, benefits, overhead and other indirect costs including federal, state and local taxes, plus profit.

<u>Professional Services</u>	
Principal in Charge	\$225.00
Principal Engineer	\$193.92
Senior Project Manager	\$192.00
Project Manager	\$185.00
Senior Engineer 2	\$175.00
Senior Engineer 1	\$145.00
Project Engineer 2	\$132.00
Project Engineer 1	\$125.00
Engineer 3	\$105.00
Engineer 2	\$98.00
Engineer 1	\$85.00
Architectural Program Manager	\$180.00
Senior Architect 2	\$160.00
Senior Architect 1	\$140.00
Architect 2	\$95.00
Architect 1	\$80.00
Architectural Designer 3	\$100.00
Architectural Designer 2	\$75.00
Architectural Designer 1	\$70.00
Senior Technician 2	\$115.00
Senior Technician 1	\$105.00
Technician 3	\$95.00
Technician 2	\$85.00

Technician 1	\$50.00
Senior CAD Designer 2	\$120.00
Senior CAD Designer 1	\$116.15
CAD Designer	\$90.00
CAD Technician 3	\$84.00
CAD Technician 2	\$72.00
CAD Technician 1	\$60.00
Eng Designer 3	\$119.18
Eng Designer 2	\$100.00
Eng Designer 1	\$85.00
Construction Manager 1	\$135.00
Construction Manager 2	\$150.00
Sr. Constr Project Rep 2	\$90.00
Sr. Constr Project Rep 1	\$90.40
Construction Project Rep 2	\$78.00
Construction Project Rep 1	\$55.91
Sr. Construction Administrator	\$112.00
Construction Administrator	\$92.92
Plant Operator 2	\$90.40
Plant Operator 2 – OVERTIME	\$90.40
Plant Operator 1	\$65.00
Sr. Project Administrator	\$97.00
Project Administrator	\$88.88
Project Assistant 2	\$65.00
Project Assistant 1	\$45.00
Sr. Consultant 2	\$125.00
Sr. Consultant 1	115.00
Consultant 2	\$85.00
Consultant 1	\$75.00
H&S Manager	\$115.00
Systems Analyst/Programmer 2	\$75.00
Systems Analyst/Programmer 1	\$65.00
Sr. Project Analyst	\$185.00
Project Analyst 2	\$114.00
Project Analyst 1	\$65.00

II. DIRECT COSTS

- A. Travel. Travel from the office on Project-related business will be billed at the hourly rates specified in Section I above. Charges for transportation, taxis, meals, lodging, gratuities, etc., will be billed at burdened cost plus 10% markup. Automobile travel (mileage) shall be billed at current approved government rates plus 10% markup.
- B. Technology Usage. Technology use fee charges on Project-related business may be billed at a rate not to exceed \$3.87 per hour.

- C. Outside Reproduction/Other Outside Services. Direct costs such as large-volume printing, shipping, or other outside services will be billed at burdened cost plus 10% markup.
- D. Other. All other direct costs not covered herein shall be invoiced to the client at burdened cost plus 10% for handling. All such charges shall be mutually agreed upon prior to submission to the client.

IV. ADJUSTMENT CLAUSE

The rates and costs described in this Agreement may be revised annually.

**ATTACHMENT E
TO
AGREEMENT FOR ENGINEERING SERVICES
BETWEEN
SAPULPA MUNICIPAL AUTHORITY AND
SAND SPRINGS MUNICIPAL AUTHORITY, OWNERS
AND
TETRA TECH, INC., ENGINEER
FOR
SKIATOOK RAW WATER CONVEYANCE SYSTEM
OPERATIONS AND MAINTENANCE FY 2018 - 2019**

SCHEDULE

The following schedule shall be made a part of the Agreement dated the ____ day of ____ 2018.

The scope of services outlined in this Agreement shall continue from July 1, 2018, to June 30, 2019.

4B



Shermco industries

Tulsa Service Center

4510 South 86th East Ave., Tulsa, OK 74145
p. (918) 234-2300 f. (918) 234-2306

This Proposal has been prepared
specifically for:

Rick Sauer
of
Tetra Tech Inc.
for
Tetra Tech Supply 300 kVA Transformer

Approved by:
Michael Forbes

Shermco Quote Number:
SIQ-02433-18R1

April 10, 2018

April 10, 2018

Rick Sauer
Tetra Tech Inc.
7645 East 63rd Street #301
Tulsa, OK 74133-1274

Re: Tetra Tech Supply 300 kVA Transformer
Shermco Quote # SIQ-02433-18R1

Mr. Sauer,
Shermco Industries is pleased to provide the following equipment quotation.
Pricing,

Supply Replacement Remanufactured Transformer.....	\$10,313.00
Supply New Transformer	\$21,692.00
Labor to Install Replacement Transformer	\$8,518.00
Storage of Transformer.....	\$200.00 Per Month

Note: Remanufactured supplier will credit \$750.00 for the existing transformer.

Applicable taxes not included, terms net 30 days. All sales subject to Shermco Industries terms and conditions form SI-100995. All freight will be prepaid and added to the invoice.

WORKSCOPE

Shermco will supply transformer per customer request. A replacement transformer from manufacturer’s distribution and distributor’s warranty shall only apply. Shermco will also provide ANSI/NETA certified technician for turnkey installation and testing of items listed using as reference the ANSI/NETA ATS-2013 Acceptance Testing Specifications for Electrical Power Equipment and Systems.

SCHEDULE

Shermco has allowed one trip to the worksite to complete this project during a Monday-Friday, non-holiday schedule. If additional trips are required beyond the estimated number of trips or if trips are required on over time/premium time, additional charges will apply. The proposed workday is from 7AM – 4 PM daily.

EQUIPMENT TO BE SUPPLIED:

1. Qty. 1 ea. Remanufactured Square D Transformer 300 KVA 4160 Delta- 480Y/277, live front radial
feed, secondary spades, 36 month warranty.
2. Qty. 1 ea. New Square D Transformer 300 KVA 4160 Delta- 480Y/277, live front radial
feed, secondary spades, 12 month warranty

DELIVERY OF EQUIPMENT

The delivery will be approximately 2-4 weeks after receipt of an order for remanufactured transformer. The delivery will be approximately 12-14 weeks after receipt of an order for new transformer. Shipping terms are FOB Point of Origin, Freight Prepaid and Added.

GENERAL CONDITIONS

Work performed by Shermco Industries will be in accordance with the following:

1. The customer's electrician or engineer, familiar with the distribution system, is to be available during the testing and commissioning period.
2. The "line side" or entire service entrance of the electrical equipment must be de-energized and available for testing before any system performance testing can be performed.
3. The customer shall provide an electrically qualified worker to disconnect and re-energize all electrical equipment. Any utility service-disconnect or reconnect is to be scheduled by the customer so that the electrical equipment is available without delay.
4. The customer shall provide an auxiliary source of 120 volts, 60 hertz, single-phase power for lights, vacuum cleaners, small power tools and test equipment unless other agreements are made.
5. Shipping dates are estimates only which are not guaranteed and are based upon prompt receipt from customer of all necessary shipping and other information. Shermco will use its best efforts to maintain shipping schedules, however, delays in shipment are possible and any failure to deliver goods within the time specified shall not constitute a default.
6. No product or part shall be returned to Shermco without written authorization and shipping instructions first having been obtained from Shermco.
7. Warranty claims will follow Shermco's Conditions of Sale, repair or Remanufacturing guidelines noted on form SI 100995.
8. Switching of electrical equipment is the responsibility of the customer.
9. Site specific training is not included in the price.
10. Delays due to circumstances beyond the control of the Shermco service technician will be subject to additional billing at established rates. This includes stand-time for switching, power-up operations & equipment clearances and permitting.
11. The Shermco services will include all tools, test apparatus, associated equipment, expenses and transportation cost to and from customer's premises, unless otherwise noted.
12. This quotation is effective for 30 days from quotation date, unless otherwise authorized by Shermco Industries.
13. Cancellations, which may include weather related issues, will be assessed with a mobilization and/or project management/completion charge based on expenses incurred.
14. All permits required will be the responsibility of the customer.



Thank you for this opportunity to be of service. Should you have any questions please do not hesitate to give me a call.

Respectfully Submitted
Shermco Industries, Inc.

Michael Forbes

Account Manager
Engineering Services Division
mforbes@shermco.com
(918) 510-5319

Copy: Robin Sparks – ESD Customer Service Specialist

PLAT OF SURVEY

OF
PART OF THE NW/4
SECTION 11, T-21-N, R-11-E
OSAGE COUNTY, STATE OF OKLAHOMA

LEGAL DESCRIPTION

EXISTING-PARCEL (PER BOOK 793 PAGE 397)
A TRACT OF LAND IN THE NORTHWEST QUARTER (NW/4) OF SECTION 11, TOWNSHIP 21 NORTH, RANGE 11 EAST OF THE INDIAN BASE AND MERIDIAN IN OSAGE COUNTY, STATE OF OKLAHOMA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER (NW/4) OF SAID SECTION 11, 1031.98 FEET WEST OF THE SOUTHEAST CORNER THEREOF; THENCE NORTH 35°15'36" E A DISTANCE OF 760.49 FEET; THENCE NORTH 28°08'06" EAST A DISTANCE OF 403.11 FEET; THENCE NORTH 42°23'06" EAST A DISTANCE OF 36.55 FEET TO THE POINT OF BEGINNING; THENCE N 47°36'54" W A DISTANCE OF 75.0 FEET; THENCE N 42°23'06" E A DISTANCE OF 65.0 FEET; THENCE S 47°36'54" E A DISTANCE OF 75.0 FEET; THENCE S 42°23'06" W A DISTANCE OF 65.0 FEET TO THE POINT OF BEGINNING.

PROPERTY DESCRIBED HEREON CONTAINS 4.833 SQUARE FEET OR 0.111 ACRES MORE OR LESS.

PROPOSED PARCEL

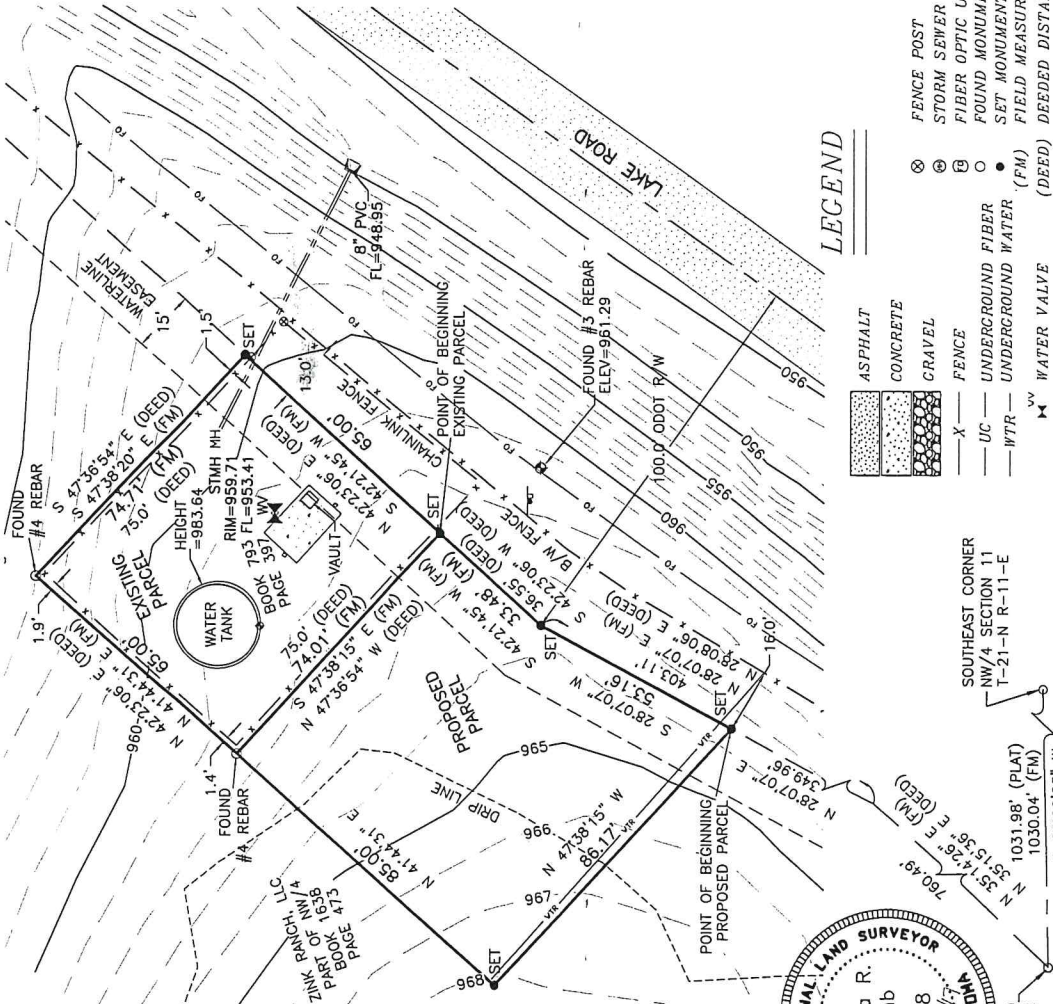
A TRACT OF LAND IN THE NORTHWEST QUARTER (NW/4) OF SECTION 11, TOWNSHIP 21 NORTH, RANGE 11 EAST OF THE INDIAN BASE AND MERIDIAN IN OSAGE COUNTY, STATE OF OKLAHOMA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER (NW/4) OF SAID SECTION 11; THENCE SOUTH 89°02'03" WEST ALONG THE SOUTH LINE OF SAID NW/4 FOR A DISTANCE OF 1030.04 FEET; THENCE NORTH 35°14'26" E ALONG THE WESTERLY LINE RIGHT OF WAY LINE OF LAKE ROAD FOR A DISTANCE OF 760.48 FEET; THENCE NORTH 28°07'07" EAST ALONG SAID WESTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 349.96 FEET TO THE POINT OF BEGINNING; THENCE NORTH 47°38'15" WEST FOR A DISTANCE OF 86.17 FEET; THENCE NORTH 41°44'31" EAST FOR A DISTANCE OF 85.00 FEET; THENCE SOUTH 47°38'15" EAST FOR A DISTANCE OF 74.01 FEET TO A POINT ON SAID WESTERLY RIGHT OF WAY LINE; THENCE SOUTH 42°21'45" WEST ALONG SAID WESTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 33.48 FEET; THENCE SOUTH 28°07'07" WEST ALONG SAID WESTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 53.16 FEET TO THE POINT OF BEGINNING.

PROPERTY DESCRIBED HEREON CONTAIN 6.589 SQUARE FEET OR 0.151 ACRES MORE OR LESS.

I, JOSHUA R. LAMB, HEREBY STATE THAT THE SURVEY SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

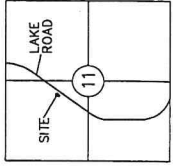
JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678



LEGEND

- ASPHALT
- CONCRETE
- GRAVEL
- FENCE POST
- STORM SEWER MANHOLE
- FIBER OPTIC UNDERGROUND MARKER
- FOUND MONUMENTS
- SET MONUMENTS
- FIELD MEASURE
- DEEDED DISTANCE/BEARING
- (DEED)
- WATER VALVE
- (FM)
- UNDERGROUND WATER
- UC
- FENCE
- UNDERGROUND FIBER
- WTR
- 100.0 ODDOT RAW
- ELEV=961.29
- FOUND #3 REBAR
- FOUND #4 REBAR
- FOUND #5 REBAR
- CHINKLINK FENCE
- POINT OF BEGINNING
- POINT OF ENDING
- EXISTING PARCEL
- PROPOSED PARCEL
- DMP LINE
- SOUTHEAST CORNER NW/4 SECTION 11 T-21-N R-11-E
- 1031.98' (PLAT)
- 1030.04' (FM)
- S 89°02'03" W
- FOUND #3 REBAR

R-11-E



GENERAL NOTES

1. NO CURRENT TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE WAS PROVIDED TO THE SURVEYOR. THEREFORE, NO CERTIFICATION IS MADE OR IMPLIED THAT ALL EASEMENTS, DEDICATIONS OF ENCUMBRANCES ARE SHOWN OR NOTED HEREON.
2. DATE OF LAST FIELD VISIT: JUNE 27, 2017.
3. ALL CORNERS WERE SET USING 3/8" X 18" REBAR WITH A YELLOW CAP (YPC) STAMPED "TLS CA 6038", UNLESS OTHERWISE NOTED.
4. BASIS OF BEARING SHOWN HEREON BEING THE SOUTH LINE OF THE NW/4 SECTION 11, BEING A BEARING OF SOUTH 89°02'03" WEST.
5. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES AND MAKES NO CERTIFICATION THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. CALL OKIE TICKET NO. 17062616384037, ISSUED ON JUNE 26, 2017.
6. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

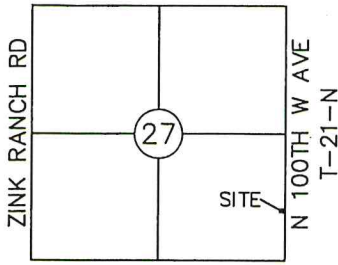


TULSA LAND SURVEYING LLC
1501 EAST 6TH STREET
TULSA, OK 74120
(918) 794-6777
CA 6038
EXPIRES 6/30/2019

TLS NO: 17-107 - SKIATOOK WATER TANK

5A

R-11-E



VICINITY MAP
1" = 4000'

EXHIBIT 'A'

PART OF THE SE/4 SECTION 27, T-21-N, R-11-E

OSAGE COUNTY, STATE OF OKLAHOMA



EASEMENT DESCRIPTION

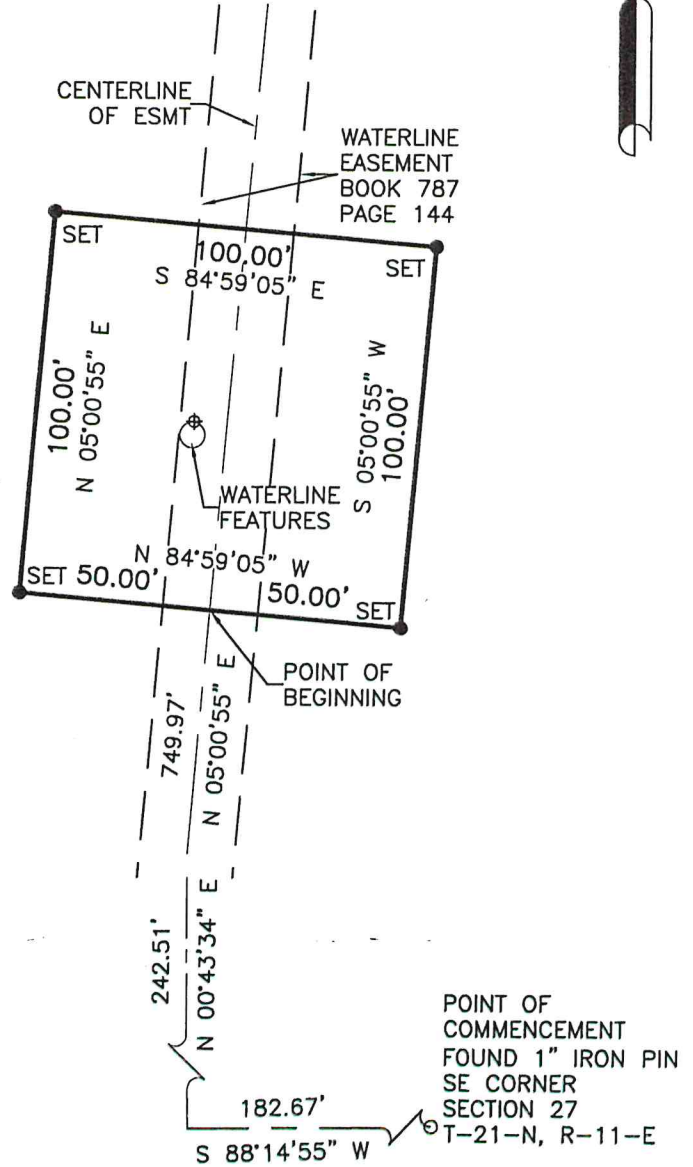
A TRACT OF LAND BEING A PART OF THE SOUTHEAST QUARTER (SE/4) OF SECTION TWENTY-SEVEN (27), TOWNSHIP TWENTY-ONE (21) NORTH, RANGE ELEVEN (11) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SE/4 OF SECTION 27; THENCE SOUTH 88°14'55" WEST ALONG THE SOUTH LINE OF SAID SE/4 FOR A DISTANCE OF 182.67 FEET; THENCE NORTH 00°43'34" EAST ALONG THE CENTERLINE OF AN EASEMENT DESCRIBED IN BOOK 787 PAGE 144 FOR A DISTANCE OF 242.51 FEET; THENCE CONTINUING ALONG SAID CENTERLINE NORTH 05°00'55" EAST FOR A DISTANCE OF 749.97 FEET TO THE POINT OF BEGINNING; THENCE NORTH 84°59'05" WEST FOR A DISTANCE OF 50.00 FEET; THENCE NORTH 05°00'55" EAST FOR A DISTANCE OF 100.00 FEET; THENCE SOUTH 84°59'05" EAST FOR A DISTANCE OF 100.00 FEET; THENCE SOUTH 05°00'55" WEST FOR A DISTANCE OF 100.00 FEET; THENCE NORTH 84°59'05" WEST FOR A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING;

SAID TRACT CONTAINS 10,000 SQUARE FEET OR 0.23 ACRES;

BASIS OF BEARING USED IS THE SOUTH LINE OF THE SE/4 OF SECTION 27 AS SOUTH 88°14'55" WEST;

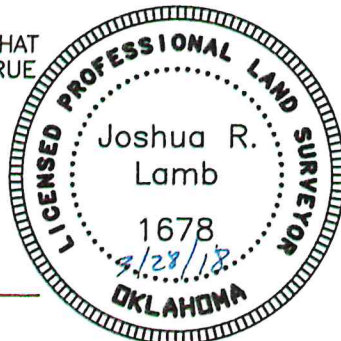
ALL CORNERS WERE SET USING 3/8" X 18" REBAR WITH A YELLOW CAP (YPC) STAMPED "TLS CA 6038", UNLESS OTHERWISE NOTED.



1" = 50'

I, JOSHUA R. LAMB, HEREBY STATE THAT THE EASEMENT SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678

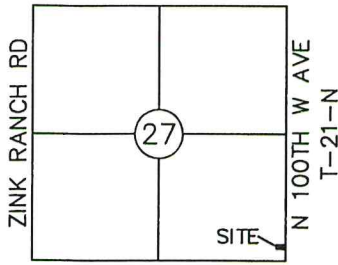


TULSA LAND SURVEYING LLC
1501 EAST 6TH STREET
TULSA, OK 74120
(918) 794-6777
CA 6038
EXPIRES 6/30/2019



DRAWING PREPARED: MARCH 28, 2018
TLS NO.: 13-027 SS - ROCK SCHOOL

R-11-E



VICINITY MAP
1" = 4000'

EXHIBIT 'B'

PART OF THE SE/4 SECTION 27, T-21-N, R-11-E

OSAGE COUNTY, STATE OF OKLAHOMA



EASEMENT DESCRIPTION

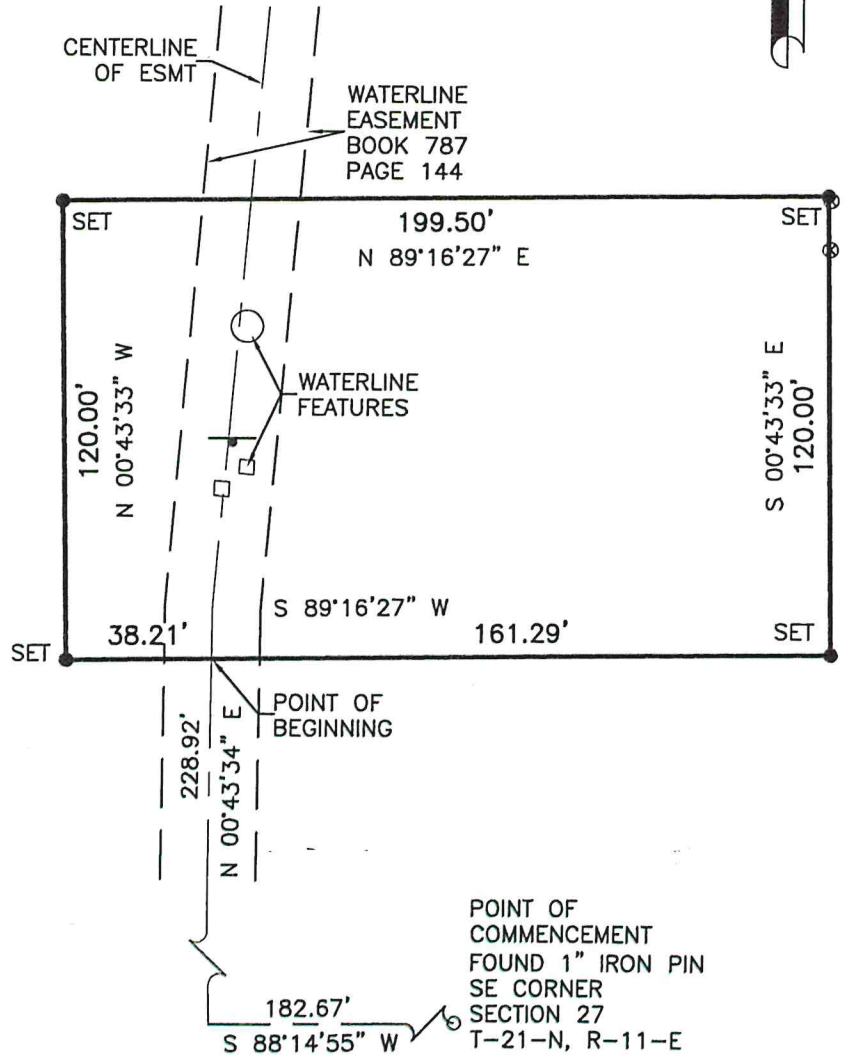
A TRACT OF LAND BEING A PART OF THE SOUTHEAST QUARTER (SE/4) OF SECTION TWENTY-SEVEN (27), TOWNSHIP TWENTY-ONE (21) NORTH, RANGE ELEVEN (11) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SE/4 OF SECTION 27; THENCE SOUTH 88°14'55" WEST ALONG THE SOUTH LINE OF SAID SE/4 FOR A DISTANCE OF 182.67 FEET; THENCE NORTH 00°43'34" EAST ALONG THE CENTERLINE OF AN EASEMENT DESCRIBED IN BOOK 787 PAGE 144 FOR A DISTANCE OF 228.92 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 89°16'27" WEST FOR A DISTANCE OF 38.21 FEET; THENCE NORTH 00°43'33" WEST FOR A DISTANCE OF 120.00 FEET; THENCE NORTH 89°16'27" EAST FOR A DISTANCE OF 199.50 FEET; THENCE SOUTH 00°43'33" EAST FOR A DISTANCE OF 120.00 FEET; THENCE SOUTH 89°16'27" WEST FOR A DISTANCE OF 161.29 FEET TO THE POINT OF BEGINNING;

SAID TRACT CONTAINS 23,941 SQUARE FEET OR 0.55 ACRES;

BASIS OF BEARING USED IS THE SOUTH LINE OF THE SE/4 OF SECTION 27 AS SOUTH 88°14'55" WEST;

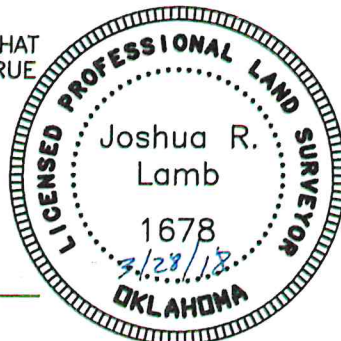
ALL CORNERS WERE SET USING 3/8" X 18" REBAR WITH A YELLOW CAP (YPC) STAMPED "TLS CA 6038", UNLESS OTHERWISE NOTED.



1" = 50'

I, JOSHUA R. LAMB, HEREBY STATE THAT THE EASEMENT SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678



TULSA LAND SURVEYING LLC
1501 EAST 6TH STREET
TULSA, OK 74120
(918) 794-6777
CA 6038
EXPIRES 6/30/2019



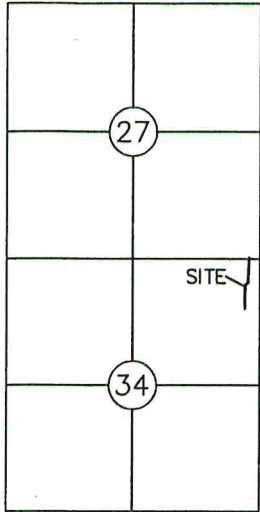
DRAWING PREPARED: MARCH 28, 2018
TLS NO.: 13-027 SS - ROCK SCHOOL

R-11-E

EXHIBIT 'E'

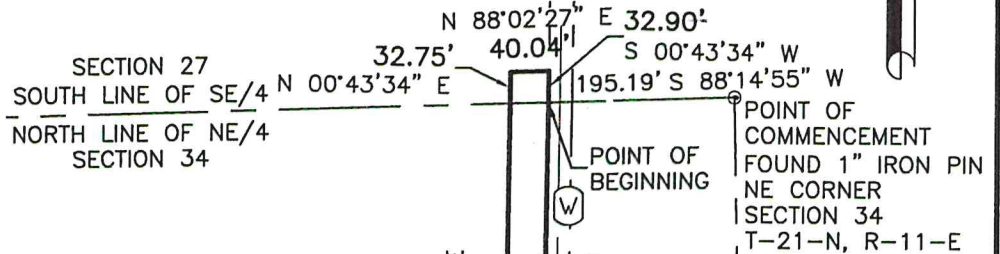
PART OF THE NE/4, 34-T21N-R11E PART OF THE SE/4, 27-T21N-R11E

OSAGE COUNTY, STATE OF OKLAHOMA



VICINITY MAP
1" = 4000'

T-21-N



POINT OF COMMENCEMENT
FOUND 1" IRON PIN
NE CORNER
SECTION 34
T-21-N, R-11-E

EAST LINE OF NE/4



1" = 200'

EASEMENT DESCRIPTION

A TRACT OF LAND BEING A PART OF THE NORTHEAST QUARTER (NE/4) OF SECTION THIRTY-FOUR (34), AND A PART OF THE SOUTHEAST QUARTER (SE/4) OF SECTION TWENTY-SEVEN, ALL IN TOWNSHIP TWENTY-ONE (21) NORTH, RANGE ELEVEN (11) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NE/4 OF SECTION 34; THENCE SOUTH 88°14'55" WEST ALONG THE NORTH LINE OF SAID NE/4 FOR A DISTANCE OF 195.19 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00°43'34" WEST FOR A DISTANCE OF 502.43 FEET; THENCE SOUTH 45°43'34" WEST FOR A DISTANCE OF 70.71 FEET; THENCE SOUTH 00°43'34" WEST FOR A DISTANCE OF 360.25 FEET; THENCE SOUTH 10°31'26" EAST FOR A DISTANCE OF 107.23 FEET; THENCE SOUTH 38°51'16" WEST FOR A DISTANCE OF 52.70 FEET; THENCE NORTH 10°31'26" WEST FOR A DISTANCE OF 145.48 FEET; THENCE NORTH 00°43'34" EAST FOR A DISTANCE OF 380.76 FEET; THENCE NORTH 45°43'34" EAST FOR A DISTANCE OF 70.71 FEET; THENCE NORTH 00°43'34" EAST FOR A DISTANCE OF 484.13 FEET TO A POINT ON SAID NORTH LINE OF THE NE/4; THENCE NORTH 00°43'34" EAST FOR A DISTANCE OF 32.75 FEET; THENCE NORTH 88°02'27" EAST FOR A DISTANCE OF 40.04 FEET; THENCE SOUTH 00°43'34" WEST FOR A DISTANCE OF 32.90 FEET TO THE POINT OF BEGINNING;

SAID TRACT CONTAINS 43,747 SQUARE FEET OR 1.00 ACRES;

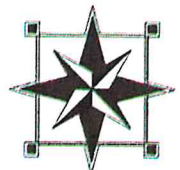
BASIS OF BEARING USED IS THE NORTH LINE OF THE NE/4 OF SECTION 34 AS SOUTH 88°14'55" WEST.

I, JOSHUA R. LAMB, HEREBY STATE THAT THE EASEMENT SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678

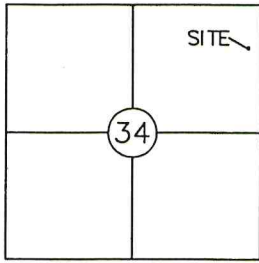


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DRAWING PREPARED: MARCH 28, 2018
TLS NO.: 13-027 SS - ROCK SCHOOL

R-11-E



VICINITY MAP
1" = 4000'

T-21-N

EXHIBIT 'C'

OF

PART OF THE NE/4 SECTION 34, T-21-N, R-11-E

OSAGE COUNTY, STATE OF OKLAHOMA



EASEMENT DESCRIPTION

A TRACT OF LAND BEING A PART OF THE NORTHEAST QUARTER (NE/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP TWENTY-ONE (21) NORTH, RANGE ELEVEN (11) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NE/4 OF SECTION 34; THENCE SOUTH 88°14'55" WEST ALONG THE NORTH LINE OF SAID NE/4 FOR A DISTANCE OF 182.67 FEET; THENCE SOUTH 00°43'34" WEST ALONG THE CENTERLINE OF AN EASEMENT DESCRIBED IN BOOK 788 PAGE 588 FOR A DISTANCE OF 508.15 FEET; THENCE CONTINUING ALONG SAID CENTERLINE SOUTH 45°43'34" WEST FOR A DISTANCE OF 70.71 FEET; THENCE CONTINUING ALONG SAID CENTERLINE SOUTH 00°43'34" WEST FOR A DISTANCE OF 295.07 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 89°16'26" EAST FOR A DISTANCE OF 32.48 FEET; THENCE SOUTH 00°43'34" WEST FOR A DISTANCE OF 70.00 FEET; THENCE NORTH 89°16'26" WEST FOR A DISTANCE OF 55.00 FEET; THENCE NORTH 00°43'34" EAST FOR A DISTANCE OF 70.00 FEET; THENCE SOUTH 89°16'26" EAST FOR A DISTANCE OF 22.52 FEET TO THE POINT OF BEGINNING;

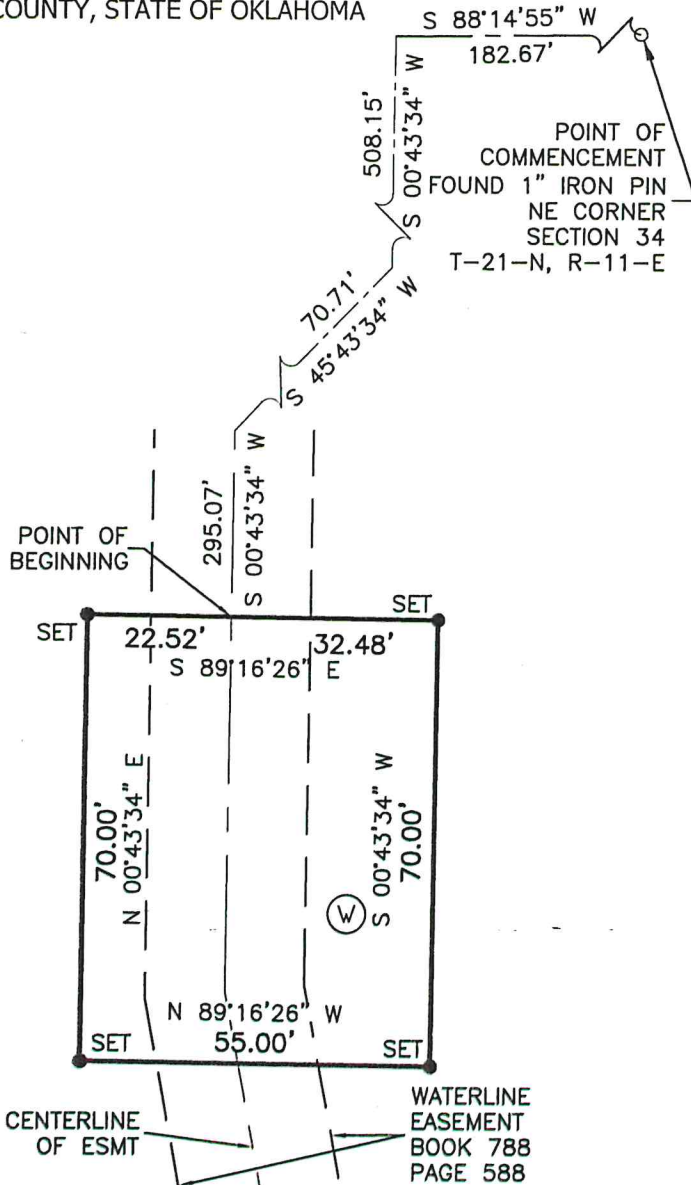
SAID TRACT CONTAINS 3,850 SQUARE FEET OR 0.09 ACRES;

BASIS OF BEARING USED IS THE NORTH LINE OF THE NE/4 OF SECTION 34 AS SOUTH 88°14'55" WEST;

ALL CORNERS WERE SET USING 3/8" X 18" REBAR WITH A YELLOW CAP (YPC) STAMPED "TLS CA 6038", UNLESS OTHERWISE NOTED.

I, JOSHUA R. LAMB, HEREBY STATE THAT THE EASEMENT SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678



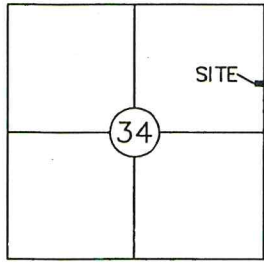
1" = 30'

TULSA LAND SURVEYING LLC
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EXPIRES 6/30/2019



DRAWING PREPARED: MARCH 28, 2018
TLS NO.: 13-027 SS - ROCK SCHOOL

R-11-E



VICINITY MAP
1" = 4000'

T-21-N

EXHIBIT 'D'

PART OF THE NE/4 SECTION 34, T-21-N, R-11-E

OSAGE COUNTY, STATE OF OKLAHOMA

POINT OF
COMMENCEMENT
FOUND 1" IRON PIN
NE CORNER
SECTION 34
T-21-N, R-11-E



EASEMENT DESCRIPTION

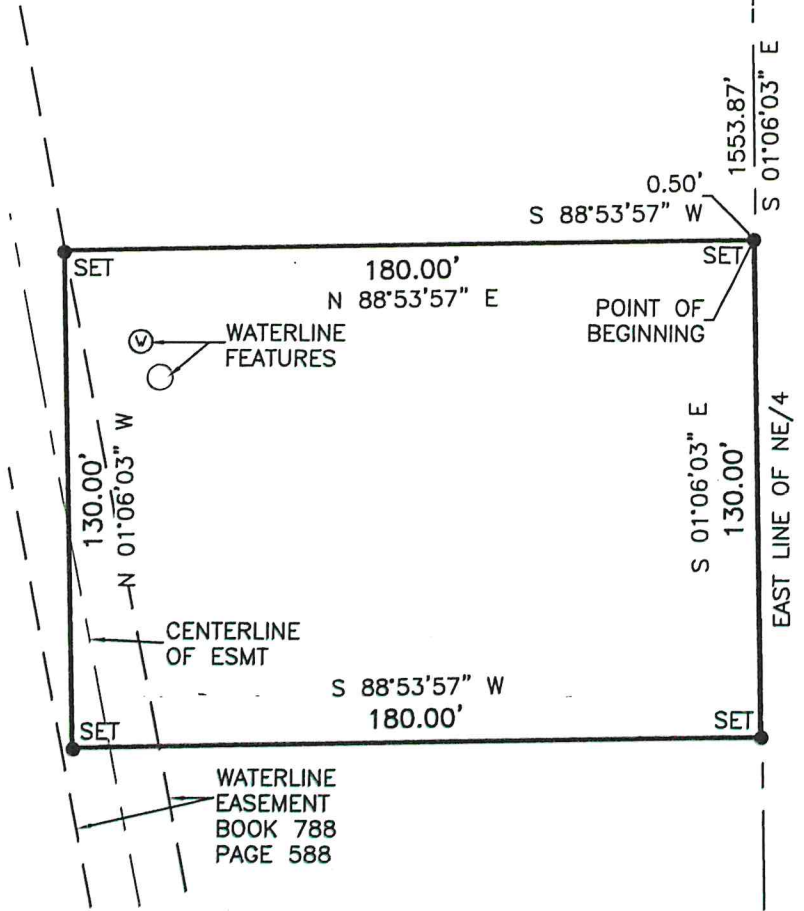
A TRACT OF LAND BEING A PART OF THE NORTHEAST QUARTER (NE/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP TWENTY-ONE (21) NORTH, RANGE ELEVEN (11) EAST OF THE INDIAN BASE AND MERIDIAN, OSAGE COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NE/4 OF SECTION 34; THENCE SOUTH 01°06'03" EAST ALONG THE EAST LINE OF SAID NE/4 FOR A DISTANCE OF 1553.87 FEET; THENCE SOUTH 88°53'57" WEST FOR A DISTANCE OF 0.50 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 01°06'03" EAST ON A LINE PARALLEL TO THE EAST LINE OF SAID NE/4 FOR A DISTANCE OF 130.00 FEET; THENCE SOUTH 88°53'57" WEST FOR A DISTANCE OF 180.00 FEET; THENCE NORTH 01°06'03" WEST FOR A DISTANCE OF 130.00 FEET; THENCE NORTH 88°53'57" EAST FOR A DISTANCE OF 180.00 FEET TO THE POINT OF BEGINNING;

SAID TRACT CONTAINS 23,400 SQUARE FEET OR 0.54 ACRES;

BASIS OF BEARING USED IS THE EAST LINE OF THE NE/4 OF SECTION 34 AS SOUTH 01°06'03" EAST;

ALL CORNERS WERE SET USING 3/8" X 18" REBAR WITH A YELLOW CAP (YPC) STAMPED "TLS CA 6038", UNLESS OTHERWISE NOTED.



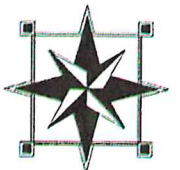
1" = 50'

I, JOSHUA R. LAMB, HEREBY STATE THAT THE EASEMENT SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

JOSHUA R. LAMB
OKLAHOMA PLS NO. 1678



TULSA LAND SURVEYING LLC
1501 EAST 6TH STREET
TULSA, OK 74120
(918) 794-6777
CA 6038
EXPIRES 6/30/2019



DRAWING PREPARED: MARCH 28, 2018
TLS NO.: 13-027 SS - ROCK SCHOOL



TO: Mr. Derek Campbell, City of Sand Springs

FROM: Rick Sauer

RE: **SKIATOOK RAW WATER CONVEYANCE SYSTEM
MARCH 2018 STATUS REPORT**

DATE: April 04, 2018

GENERAL:

This report will cover the status of the Skiatook Raw Water Conveyance System from March 1, 2018, through March 31, 2018. The average water usage rate for Sand Springs during the month of March was 3.51 MGD (includes golf course, if any). The average water usage rate for Sapulpa during the month of March was 2.65 MGD. The total average water usage rate for the system during March was 6.16 MGD. (See the attached sheets for more detail.) The meter reading data reflects water usage from the beginning of the project through March 2018. The latest graph shows the water usage from February 2005 through March 2018. The electrical allocation print-out for the billing month of March is included within the attachments.

PERIOD IN REVIEW:

Tetra Tech (Tt) personnel continued to monitor and conduct routine maintenance on the entire system. There were no after-hours emergency call-outs for the period March 1, 2018, to March 31, 2018.

In addition to many routine maintenance tasks, Tetra Tech personnel performed the following during this period:

1. Addressed 3 locate tickets associated with the SRWCS system, assisted the Owners' personnel with marking the system alignment when warranted, and reported potential conflicts to the Owners' representatives as necessary.
2. Operator fabricated and anchored deflector to prevent condensation from dripping upon arrester controls at the suction level.
3. Annual station and right-of-way valve exercise begins.
4. Attended one-way tank pre-design meeting at Tetra Tech office on the 9th.
5. Operator completed 'touch-up' painting at piping, bolts, valves, pipe supports, etc.
6. Technician from Shermco pulled oil sample from station transformer on the 16th. Results appear to be within industry parameters.

PAGE 2

7. Operator began to fabricate survey pin locator/shields per Weigle request. These survey pins locate additional easements within right-of-way approximately Station 357+00 to Station 376+40. (Structure #27 to #30.)
8. Operator with additional Tetra Tech personnel completed installation of flange isolation kit within the meter vault on the 22nd and 23rd. This is within the first 24" pipe flange fitting entering the structure from the reservoirs.
9. Dale & Lee's Service replaced the station rooftop HVAC unit on the 26th. The existing unit had developed a small refrigerant leak which would have cost more than half of the price of a new unit to repair. The old unit had been in service since 11/2004.
10. Tetra Tech office received notice from right-of-way property owner Craig Sutton on September 20, 2010. He owns property from Station 328+99 to 384+53. He has revoked all trespass rights across his property to access structures which include Air Relief Valve #s 26, 27, 30, and 32; 36" Butterfly Valve #28; and 12" Blow-off Valve #29. Operator met with Mr. Sutton on September 27, 2010, in an attempt to resolve issue; however, Mr. Sutton requests monetary compensation to grant access to right-of-way structures. Operator replied that he has no authority to approve monetary compensation on behalf of the municipalities. An 'on-site' meeting including Mr. Sutton, Mr. Weigle, GMA Construction, and Mr. Sauer was conducted on March 1, 2012. The Municipalities and Mr. Sutton are currently working on an agreement to allow operator and contractors to access right-of-way for maintenance purposes.

EMERGENCY REPAIRS SRWCS 2014:

T-G Excavating continues to be on "standby" for any emergency line repairs.

SS GOLF COURSE WATERLINE:

The golf course meter reflected usage of -0- gallons for the month of March 2018. The usage readings, if any, are included in Sand Springs' average water usage rate as reported in paragraph one of this report.

MAINTENANCE ISSUES:

Operations considers corrosion to be one of the most serious issues that could possibly affect the future reliability of the SRWCS system. Priority corrosion concerns involve the system surge arrestor, the uncoated A.R.V.s, flanged outlets along the system, and the vault piping that doesn't meet standards to be considered cathodically protected. Operations will continue to gather trending data from the vault piping test stations in an effort to monitor for and report corrosion concerns associated with these areas of the system. Following the 2017 cathodic survey of vault piping by Corpro, Tt forwarded the Corpro report with recommendations attached, to the Owners' representatives for their consideration.

Operations continues to recommend that the Owners annually address unwanted growth along the SRWCS easement by utilizing a tractor and brush hog until a different means of removal becomes available.

MISCELLANEOUS:

The Skiatook Lake normal elevation is 714.00 feet at the top of the conservation pool. As of 12:00 p.m. midnight, March 31, 2018, the lake elevation was recorded at 714.24 feet.

LAKE LEVEL IS .24' ABOVE NORMAL

Tt FEE STATUS

PERCENT EXPENDED FROM BUDGET

<u>INVOICE</u> <u>MONTH</u>	<u>CONTRACT</u> <u>TIME</u>	<u>OPER. &</u> <u>MAINT.</u>	<u>DIRECT</u> <u>EXPENSE</u>	<u>REPAIR</u> <u>& REHAB</u>
March 2018	74.7%	78.1%	43%	0%

Attachments
RS/lv//tk

cc:

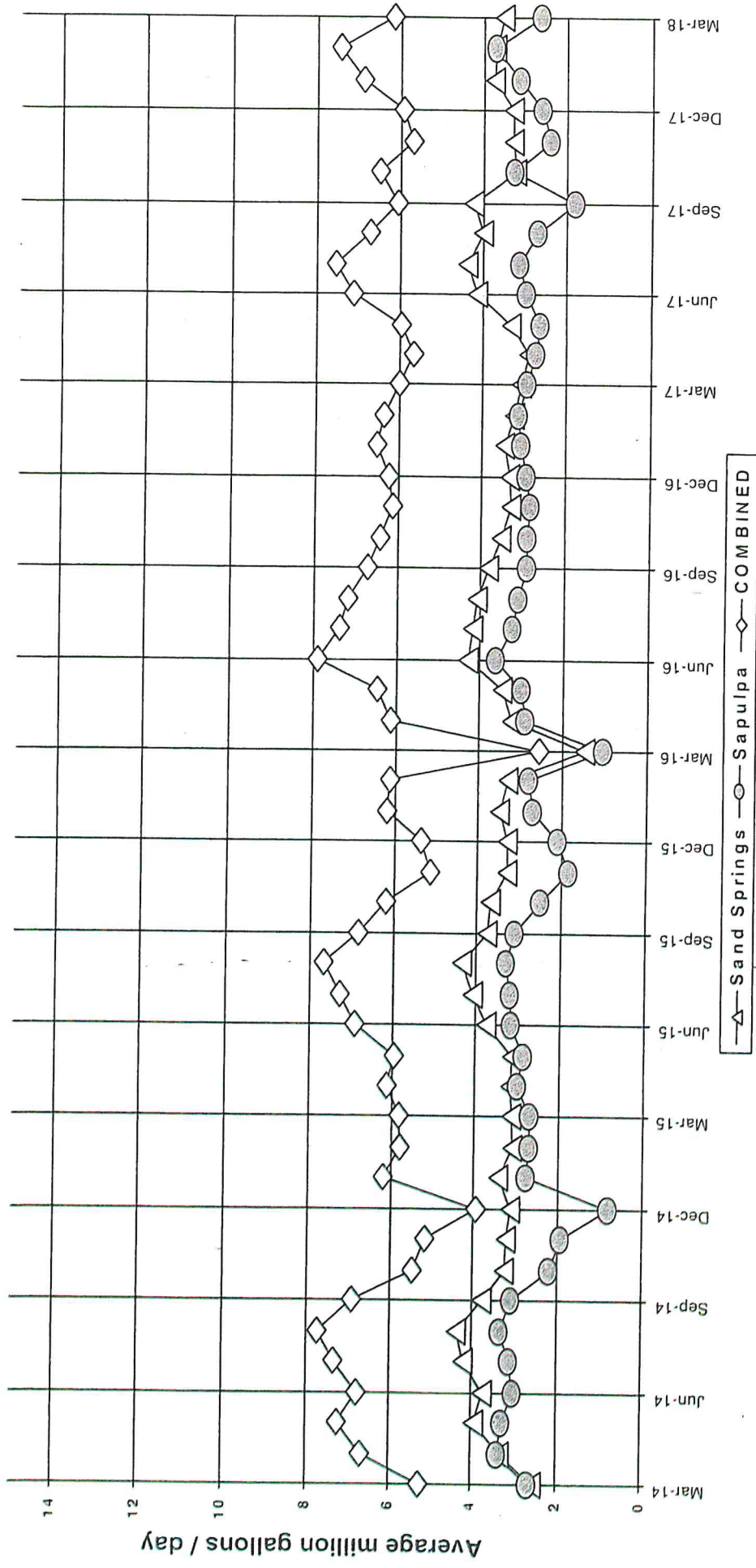
Mr. Frank Weigle, City of Sand Springs, w/att.
Mr. Robert Petitt, City of Sapulpa, w/att.

SRWCS WATER USAGE

SAND SPRINGS - SAPULPA

4/3/2018

Millions



Average million gallons / day

—△— Sand Springs —○— Sapulpa —◇— COMBINED

Skiatook Raw Water Conveyance System

April 03, 2018

Allocation of Electric Costs

Billing Period: March 2018

	Maximum 30 Minute Water Demand			Monthly Water Usage (Gallons)			Metered KW Capacity (KWH)		
	Sand Springs	Sapulpa	Total	Sand Springs	Sapulpa	Total	Sand Springs	Sapulpa	Total
March 2018	3,508,751	2,647,047	6,155,798	108,771,280	82,058,472	190,829,752	156.63	118.17	274.8
February 2018	3,726,477	3,701,331	7,427,808	104,341,361	103,637,276	207,978,637	137.87	136.93	274.8
January 2018	3,740,811	3,118,845	6,859,656	115,965,149	96,684,184	212,649,333	149.86	124.94	274.8
December 2017	3,303,830	2,613,617	5,917,447	102,418,740	81,022,130	183,440,870	153.43	121.37	274.8
November 2017	3,289,587	2,387,094	5,676,680	98,687,600	71,612,810	170,300,410	159.24	115.56	274.8
October 2017	3,213,057	3,271,790	6,484,847	99,604,770	101,425,500	201,030,270	136.16	138.64	274.8
September 2017	4,231,833	1,822,039	6,053,872	126,954,980	54,661,180	181,616,160	211.60	91.10	302.7
August 2017	4,011,632	2,704,026	6,715,658	124,360,600	83,824,800	208,185,400	181.95	122.65	304.6
July 2017	4,381,112	3,135,602	7,516,714	135,814,480	97,203,660	233,018,140	177.94	127.36	305.3
June 2017	4,146,632	2,956,033	7,102,665	124,398,960	88,681,000	213,079,960	177.83	126.77	304.6
May 2017	3,313,159	2,631,625	5,944,784	102,707,925	81,580,370	184,288,295	153.60	122.00	275.6
April 2017	2,909,725	2,733,146	5,642,871	87,291,735	81,994,390	169,286,125	142.11	133.49	275.6
HIGH DEMAND July 2017			305.3						
90% HIGH DEMAND			274.8						
				ENERGY CHARGE		\$5,482,5640	\$4,136,2690	\$9,618,8330	
				ON PEAK CHARGE		\$792,8270	\$567,4330	\$1,360,2600	
				OFF PEAK CHARGE		\$1,159,0700	\$772,7200	\$1,931,7900	
				CUSTOMER CHARGE		\$168,0000	\$112,0000	\$280,0000	
Total						\$7,602.46	\$5,588.42	\$13,190.88	