

EXHIBIT A
COMPENSATION FOR PROFESSIONAL SERVICES

League City, Texas

SMITH LANE LIFT STATION IMPROVEMENTS

For the services covered by this Agreement, the City of League City (the City) agrees to pay Sander Engineering Corporation (Professional) as follows:

- A. For Basic Services associated with the design of the **Smith Lane Lift Station Improvements** as described in Exhibit "D", a fee not to exceed \$66,500.00, as further itemized below:

Preliminary Design Phase: \$ 26,300.00

Final Design Phase:

1. Professional's in-house services: \$ 22,700.00

2. Out-sourced design services (at Cost plus 10%):

a. Topographic Survey (per Exhibit "D") \$ 4,200.00

b. Parcel Description (per Exhibit "D") \$ 0.00

b. Geotechnical services (per Exhibit "D"): \$ 0.00

c. Traffic Control Plan (per Exhibit "D"): \$ 0.00

d. SW3P (per Exhibit "D"): \$ 0.00

Contract Bid Phase: \$ 3,100.00

Construction Administration Phase: including Limited Field Review of Construction and preparation of "As-Built" Record Drawings : \$ 9,200.00

Reimbursable Expenses:

For expenses incurred on behalf of the project such as printing and reproduction, delivery charges, ~~application fees, advertising costs, and recording fees~~, expenses will be billed at cost plus 10%, with a total cost not to exceed:

\$ 1,000.00

Total, not to exceed cost: \$ 66,500.00

(Any additional services, not outlined above, will be authorized in writing by the City, at a cost reimbursement fee or lump sum fee).

SANDER ENGINEERING CORPORATION

CONSULTING ENGINEERS - SURVEYORS
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM NO. F-517

1250 W. Sam Houston Pkwy South, Suite 400
HOUSTON, TEXAS 77042

DENNIS W. SANDER, P.E.
President

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EXHIBIT B

RATE SCHEDULE

for

SMITH LANE LIFT STATION IMPROVEMENTS

League City, Texas

The Engineering fee for hourly services by the Professional, except surveying which is addressed below, shall be determined by using a multiplier of 2.25 as the overhead and profit factor, times the direct personnel expense. Direct personnel expense is hereby defined as 1.3 times actual salaries paid to employees.

Employee Title Category

Hourly Billing Rate Range

Principal	\$208.00
Senior Project Manager	196.17
Project Engineer, Project Manager	\$115.00 - \$175.00
Registered Professional Land Surveyor	\$120.00
Engineer In Training,	\$108.61
Senior Designer	\$142.97
CADD Technician, III	\$128.63
CADD Technician, II	\$99.37
Project Site Representative	\$92.17
Secretary	\$73.28

REIMBURSABLE EXPENSES

Expenses incurred on behalf of the project such as printing/reproduction, delivery charges, application, advertising costs, and recording fees will be billed at cost plus 10% with a total cost not to exceed \$1,000 without prior written approval from the City.

EXHIBIT C
SCHEDULE

League City, Texas

SMITH LANE LIFT STATION IMPROVEMENTS

The Professional shall complete the following activities and deliverables identified in Exhibit D – SCOPE OF WORK and PROJECT CONSTRUCTION COSTS in accordance with the schedule as follows:

<u>Deliverables</u>	<u>Cost (combined)</u>	<u>Completion Date</u>
Topographic Survey, Preliminary Design	\$30,500.00	90 Days from Notice to Proceed
Final Design	\$22,700.00	45 Days
Contract Bid Phase	\$3,100.00	Post Design Phase
Construction Administration Phase Field Review During Construction Prepare Record Drawings	\$9,200.00	During Construction
Reimbursable Expenses	\$1,000	

EXHIBIT D
SCOPE OF WORK &
PROJECT CONSTRUCTION COSTS

League City, Texas

SMITH LANE LIFT STATION IMPROVEMENTS

SCOPE OF WORK

The purpose of this project is to design improvements to the Smith Lane Lift Station including:

1. New pumps and piping.
2. New controls and electrical.
3. Structural modifications.
4. New hatches and safety grates (retrofit new hatches, if possible).
5. New discharge piping and valves.
6. Install grating above valve vault.
7. Miscellaneous minor items, such as valve vault drain, hatch sealing, etc.

II. BASIC SERVICES

- A. Design improvements for Smith Lane Lift Station.
1. Provide preliminary design of improvements and submit to City.
 2. Incorporate City comments and prepare final improvements.

III. ADDITIONAL SERVICES

- A. The topographic survey is to be obtained by Landtech Consultants:
1. Existing site topographic survey. See attached proposal from Landtech Consultants, dated February 8, 2017.
- B. Survey services for acquisition of right-of-way and/or additional easement include the following:
1. Not Applicable
- C. Provide a geotechnical report along the alignment:
1. Not requested by the City of League City.
- D. Perform a Phase I Environmental Site Assessment:
1. Not requested by the City of League City.
- E. Provide a Traffic Control Plan:
1. Not requested by the City of League City.

EXHIBIT D
SCOPE OF WORK &
PROJECT CONSTRUCTION COSTS

League City, Texas

SMITH LANE LIFT STATION IMPROVEMENTS

- F. Provide a Storm Water Pollution Prevention Plan:
1. Not requested by the City of League City.
- G. Provide limited Field Review of Construction.
1. Provide a qualified individual to review the progress of construction on a limited basis.
- H. Prepare Record Drawings.
1. Obtain the Contractor's as-built drawings and Inspector's field drawings and transfer field modifications to the mylar record drawings.

APPROACH

The proposed scope of services for the improvements will be accomplished in the following phases:

- Preliminary Design Phase
- Final Design Phase
- Contract Bid Phase
- Construction Administration Phase

Each phase is described in the following paragraphs:

PRELIMINARY DESIGN PHASE

1. Attend a kick off meeting with key staff of League City.
2. Obtain Record Drawings from the City.
3. Visit site to check existing Record Drawings.
4. Prepare topographic survey.
5. Prepare preliminary design drawings of improvements.
6. Prepare preliminary estimate of probable cost.

FINAL DESIGN PHASE

1. Develop technical specifications.
2. Submit electronic copy of the 70% complete drawings and specifications to City for review.
3. Incorporate City's comments on 70% submittal and complete the construction drawings.
4. Prepare final opinion of probable cost.
5. Prepare Contract Documents for final review by City.
6. Incorporate City comments and issue final Contract Documents.

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SCOPE OF WORK &
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CONTRACT BID PHASE

1. Attend pre-bid conference and prepare minutes.
2. Prepare addendum and submit to the City for distribution.
3. Evaluate the Bids received, prepare a Bid Tabulation, and submit a recommendation to the City on the award of the Contract.

CONSTRUCTION ADMINISTRATIVE PHASE

1. Prepare formal Contract Documents for City to issue to Contractor.
2. Make two (2) site visits per month during the construction of the improvements and report observations to the City. Based on a six (6) month construction duration.
3. Review ten (10) submittals and five (5) requests for information.
4. Provide limited field review of construction (10 hours per month based on a six month construction duration).
5. Review monthly and final estimates.
6. Perform a Substantially Complete Walk Through with the City and the Contractor and prepare punch list.
7. Perform a Final Walk Through with City and the Contractor and prepare punch list.
8. Submit Record Drawings based on the Contractor's "as-built" drawings.

EXHIBIT D
SCOPE OF WORK &
PROJECT CONSTRUCTION COSTS

League City, Texas

SMITH LANE LIFT STATION IMPROVEMENTS

PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COSTS

SEE ATTACHED SPREADSHEET

**Smith Lane Lift Station Improvements
City of League City
Estimate of Probable Cost for the Engineering Proposal**

SEC PN: 17-052

Description	Unit	Quantity	Unit Price	Total
Mobilization/Insurance/Bonds	L.S.	1	\$12,565.00	\$12,565.00
Demolition	L.S.	1	\$10,000.00	\$10,000.00
Grit Removal	CY	2	\$750.00	\$1,500.00
Pumps, Bases & Guide Rails	Each	2	\$45,000.00	\$90,000.00
Piping, Valves & Supports	L.S.	1	\$50,000.00	\$50,000.00
Electrical Modifications	L.S.	1	\$150,000.00	\$150,000.00
Access Hatches & Nets	L.S.	1	\$10,000.00	\$10,000.00
Bypass Pumping	L.S.	1	\$25,000.00	\$25,000.00
Valve Vault Structural Mods	L.S.	1	\$20,000.00	\$20,000.00
Start up & Testing	L.S.	1	\$1,000.00	\$1,000.00
SWPPP Source Controls	L.S.	1	\$500.00	\$500.00
Site Restoration	L.S.	1	\$1,000.00	\$1,000.00
Subtotal				\$371,565.00
Extra Unit Price Items				
				\$0.00
				\$0.00
				\$0.00
Subtotal for Extra Unit Items				\$0.00
Subtotal =				\$371,565.00
Contingencies (10%) =				\$37,156.50
Subtotal =				\$408,721.50
Engineering =				\$66,500.00
Total =				\$475,221.50