



Proposal Number: 341-269364
February 22, 2019

Professional Service Industries, Inc.
1909 10th Street, Suite 100 Plano, Texas 75071
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Patricia Jackson
City of McKinney
P.O. Box 517
McKinney, Texas 75070
pjackson@mckinneytexas.org
972-547-7348

Re: Construction Material Testing & Observation Proposal
John & Judy Gay Library Expansion – Revision 1
6861 Eldorado Parkway
McKinney, Texas

Dear Ms. Jackson:

Thank you for your interest in Professional Service Industries, Inc. (PSI), an Intertek company. We are pleased to have been selected on the basis of qualifications in accordance with the Professional Services Procurement Act, Article 2254.004 of the Texas Government Code to provide Construction Materials Testing and Special Inspection Services on the project referenced above. In accordance with that act, we are now submitting our proposed estimate and fee schedule as the second step of the negotiation phase of the contracting process.

PROJECT DESCRIPTION

Project information was provided to PSI by Patricia Jackson with City of McKinney. The information provided includes basic project information and a request for proposal.

Based on the information provided, the proposed site is to be located in McKinney, Texas. The proposed development is projected to include approximately 16,000SF addition to an existing library building with associated parking and sitework. This revision explains the alternate A and B

LOCAL CAPABILITIES

PSI has the technical capabilities, personnel and equipment resources, and local expertise to provide you with superior testing and observation services. We are consistently ranked by Engineering News Record magazine as one of the nation's largest consulting engineering firms and PSI is considered the leading firm of our type in the engineering and construction industry. PSI has licensed, registered, and certified professionals, and offers the comfort of using one of America's largest and respected engineering companies.

SCOPE OF SERVICES

PSI proposes to provide experienced, technical personnel to perform testing services as requested in general accordance with sections of the project specifications as referenced in our "Proposed Scope of Work, Assumptions and Basis for Estimate" section of this proposal. Services are for the typical Quality Control Services and do not include "Special Inspections or Energy Inspections". If requested, Special Inspection Services may be provided





for the owner or the owner's design professional acting as the owner's agent under separate contract. However, the Building Code specifically excludes the performance of Special Inspections as an agent for the contractor.

This proposal includes our services to observe, test and report on the construction activities included within our "Proposed Scope of Work, Assumptions and Basis for Estimate" section of this proposal. Please note that our services will be performed on an intermittent, periodic basis and only when requested by our Client's designated representative. This proposal does not include full time (continuous) on-site observation services. Scheduling will be the responsibility of our client's designated representative. Requests for services must be coordinated prior to the close of the business day preceding the requested activity for standard services, and at least 48 hours prior to structural steel services. Every effort will be made to accommodate requests without adequate notice; however, we cannot guarantee service when notice is not provided in a timely manner.

Please note that our services do not include supervision or direction of the actual work. Also, be aware that neither the presence of our field representative nor the observation and testing by our firm shall imply PSI's responsibility for defects discovered in the construction work. It is understood that our firm will not be responsible for job or site safety on this project. Job site safety will be the sole responsibility of others.

FEE

In accordance with our assumptions, we have prepared a budget estimate. We propose to accomplish the work on a unit fee basis in accordance with the unit rates provided within our budget estimate. All work will be performed pursuant to the PSI General Conditions which are incorporated herein and made a part of this proposal. PSI's fees will be determined by the actual amount of technical time expended on the project and the amount of laboratory testing performed. Please note that the fees for our services are directly related to the contractor's schedule, the quantity of service requests, the quantity and frequency of failed tests / retests, construction delays and other issues outside the control of PSI. We will work with your firm to assist in managing the budget for our services; however, invoices will be based on the actual services rendered.

REPORT DELIVERY

Construction Hive™ is the primary report distribution platform used by PSI to provide a better experience to our clients. You will have 24 hour access to your reports on this website from any internet enabled device with a web browser. Construction Hive™ has powerful report viewing, retrieval and searching capabilities that allow you to find the information you are looking for faster and with greater ease. An hourly administrative fee may be assessed for other forms and methods of report delivery.



We will commence work upon receipt of a fully executed copy of this proposal in its entirety including PSI General Conditions. Please be sure to fill out the attached Project Data Sheet for timely distribution of reports.

We look forward to providing our services during construction of the above referenced project. Please do not hesitate to contact our office with any questions or concerns.

Respectfully submitted,

Professional Service Industries, Inc.

Evan Wammack, E.I.T.
Branch Manager
Construction Services

Doyle L. Smith, JR., PE.
Regional Vice President

Attachments: Construction Material Testing Services Estimate
Proposed Scope of Work, Assumptions and Basis for Estimate
PSI General Notes
Project Data Sheet
PSI General Conditions

PROPOSAL ACCEPTANCE	
DATE:	Agreed to this _____ day of _____, 2019
SIGNATURE:	
PRINTED NAME OF AUTHORIZED SIGNATORY:	
TITLE OF AUTHORIZED SIGNATORY:	
FIRM:	



Construction Materials Testing Services Estimate

Project: John & Judy Gay Library Expansion - McKinney, Texas

	Unit	Quantity	Unit Rate	Item Total
Earthwork Testing and Observation				
Building Pad Preparation				
Soils Engineering Technician (In-place Density Testing)	Per Hour	72	\$42.00	\$3,024.00
Soils Engineering Technician (Overtime Hours)	Per Hour	12	\$63.00	\$756.00
Laboratory Moisture Density Relationship (Standard)	Each	4	\$165.00	\$660.00
Atterberg Limit Determination	Each	4	\$56.00	\$224.00
Percent Passing No. 200 Sieve	Each	4	\$48.00	\$192.00
Bulk Sample Preparation	Each	4	\$50.00	\$200.00
Soils Engineering Technician (Sample Pick-up)	Per Hour	4	\$42.00	\$168.00
Equipment Charge	Per Trip	12	\$50.00	\$600.00
Transportation Charge	Per Trip	14	\$45.00	\$630.00
Management Services for Supervision and Report Review	Per Hour	10.8	\$90.00	\$972.00
Sub-Total				\$7,426.00
Paving Subgrade Preparation				
Soils Engineering Technician (In-place Density Testing)	Per Hour	24	\$42.00	\$1,008.00
Laboratory Lime Series	Each	1	\$300.00	\$300.00
Lime Stabilized Moisture Density Relationship (Standard)	Each	2	\$165.00	\$330.00
Atterberg Limit Determination	Each	2	\$56.00	\$112.00
Bulk Sample Preparation	Each	2	\$50.00	\$100.00
Equipment Charge	Per Trip	6	\$50.00	\$300.00
Transportation Charge	Per Trip	6	\$45.00	\$270.00
Management Services for Supervision and Report Review	Per Hour	4.1	\$90.00	\$369.00
Sub-Total				\$2,789.00
Utility Trench/Grade Beam/Retaining Wall Backfill				
Soils Engineering Technician (In-place Density Testing)	Per Hour	60	\$42.00	\$2,520.00
Equipment Charge	Per Trip	15	\$50.00	\$750.00
Transportation Charge	Per Trip	15	\$45.00	\$675.00
Management Services for Supervision and Report Review	Per Hour	6.6	\$90.00	\$594.00
Sub-Total				\$4,539.00
Earthwork Testing and Observation Estimate				\$14,754.00



Drilled Pier Installation Observation

Drilled Shaft Pier Observation

Senior Engineering Technician	Per Hour	88	\$45.00	\$3,960.00
Senior Engineering Technician (Overtime Hours)	Per Hour	44	\$67.50	\$2,970.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	55	\$13.00	\$715.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	8	\$40.00	\$320.00
Transportation Charge	Per Trip	13	\$45.00	\$585.00
Management Services for Supervision and Report Review	Per Hour	14.3	\$90.00	\$1,287.00
Sub-Total				\$9,837.00

Drilled Pier Installation Observation Estimate \$9,837.00

Concrete Testing and Observation

Structural Concrete

Concrete Engineering Technician (Concrete Sampling and Testing)	Per Hour	52	\$40.00	\$2,080.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	65	\$13.00	\$845.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	12	\$40.00	\$480.00
Transportation Charge	Per Trip	14	\$45.00	\$630.00
Floor Flatness Testing (equipment & labor)	Per Hour	2	\$700.00	\$1,400.00
Management Services for Supervision and Report Review	Per Hour	9.1	\$90.00	\$819.00
Sub-Total				\$6,254.00

Concrete Paving

Concrete Engineering Technician (Concrete Sampling and Testing)	Per Hour	64	\$40.00	\$2,560.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	85	\$13.00	\$1,105.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	12	\$40.00	\$480.00
Transportation Charge	Per Trip	11	\$45.00	\$495.00
Management Services for Supervision and Report Review	Per Hour	7.8	\$90.00	\$702.00
Sub-Total				\$5,342.00

Miscellaneous Concrete

Concrete Engineering Technician (Concrete Sampling and Testing)	Per Hour	44	\$40.00	\$1,760.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	55	\$13.00	\$715.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	8	\$40.00	\$320.00
Transportation Charge	Per Trip	13	\$45.00	\$585.00
Management Services for Supervision and Report Review	Per Hour	5.7	\$90.00	\$513.00
Sub-Total				\$3,893.00

Concrete Testing and Observation Estimate \$15,489.00



Masonry Testing and Observation

Masonry Testing and Observation

Senior Engineering Technician (Grout and Mortar Sampling and Testing)	Per Hour	20	\$45.00	\$900.00
Masonry Cubes (2in x 2in x 2in Cubes)	Each	24	\$15.00	\$360.00
Grout Prisms (3in x 3in x 6in)	Each	8	\$17.00	\$136.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	8	\$40.00	\$320.00
Transportation Charge	Per Trip	6	\$45.00	\$270.00
Management Services for Supervision and Report Review	Per Hour	3.4	\$90.00	\$306.00
Sub-Total				\$2,292.00

Masonry Testing and Observation Estimate \$2,292.00

Structural Steel Observation

Structural Steel Observation

Structural Steel Technician (CWI)	Per Hour	24	\$88.00	\$2,112.00
Transportation Charge	Per Trip	6	\$45.00	\$270.00
Management Services for Supervision and Report Review	Per Hour	4.0	\$90.00	\$360.00
Sub-Total				\$2,742.00

Structural Steel Observation Estimate \$2,742.00

Engineering & Technical Services

Professional Engineering Services

Project Setup Fee	Each	1	\$275.00	\$275.00
Sub-Total				\$275.00

Engineering & Technical Services Estimate \$275.00

Construction Materials Testing and Observation Estimate Total \$45,389.00



Construction Materials Testing Services Estimate

Alternate A - Dumpster Pad

Project: John & Judy Gay Library Expansion - McKinney, Texas

	Unit	Quantity	Unit Rate	Item Total
Earthwork Testing and Observation				
Paving Subgrade Preparation				
Soils Engineering Technician (In-place Density Testing)	Per Hour	8	\$42.00	\$336.00
Laboratory Lime Series	Each	1	\$300.00	\$300.00
Lime Stabilized Moisture Density Relationship (Standard)	Each	1	\$165.00	\$165.00
Atterberg Limit Determination	Each	1	\$56.00	\$56.00
Bulk Sample Preparation	Each	1	\$50.00	\$50.00
Equipment Charge	Per Trip	1	\$50.00	\$50.00
Transportation Charge	Per Trip	1	\$45.00	\$45.00
Management Services for Supervision and Report Review	Per Hour	1.7	\$90.00	\$153.00
Sub-Total				\$1,155.00
Earthwork Testing and Observation Estimate				\$1,155.00
Concrete Testing and Observation				
Concrete Paving				
Concrete Engineering Technician (Concrete Sampling and Testing)	Per Hour	8	\$40.00	\$320.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	5	\$13.00	\$65.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	4	\$40.00	\$160.00
Transportation Charge	Per Trip	2	\$45.00	\$90.00
Management Services for Supervision and Report Review	Per Hour	1.1	\$90.00	\$99.00
Sub-Total				\$734.00
Concrete Testing and Observation Estimate				\$734.00
Construction Materials Testing and Observation Estimate Total				\$1,889.00



Construction Materials Testing Services Estimate
Alternate B - Paving and Parking Area
Project: John & Judy Gay Library Expansion - McKinney, Texas

	Unit	Quantity	Unit Rate	Item Total
Earthwork Testing and Observation				
Paving Subgrade Preparation				
Soils Engineering Technician (In-place Density Testing)	Per Hour	16	\$42.00	\$672.00
Laboratory Lime Series	Each	1	\$300.00	\$300.00
Lime Stabilized Moisture Density Relationship (Standard)	Each	1	\$165.00	\$165.00
Atterberg Limit Determination	Each	1	\$56.00	\$56.00
Bulk Sample Preparation	Each	1	\$50.00	\$50.00
Equipment Charge	Per Trip	2	\$50.00	\$100.00
Transportation Charge	Per Trip	2	\$45.00	\$90.00
Management Services for Supervision and Report Review	Per Hour	2.4	\$90.00	\$216.00
Sub-Total				\$1,649.00

Earthwork Testing and Observation Estimate **\$1,649.00**

Concrete Testing and Observation

Concrete Paving				
Concrete Engineering Technician (Concrete Sampling and Testing)	Per Hour	16	\$40.00	\$640.00
Concrete Cylinders (Cured and/or Tested in Compression)	Each	15	\$13.00	\$195.00
Concrete Engineering Technician (Specimen Pick-up)	Per Hour	4	\$40.00	\$160.00
Transportation Charge	Per Trip	3	\$45.00	\$135.00
Management Services for Supervision and Report Review	Per Hour	1.9	\$90.00	\$171.00
Sub-Total				\$1,301.00

Concrete Testing and Observation Estimate **\$1,301.00**

Construction Materials Testing and Observation Estimate Total **\$2,950.00**

Combine Materials Testing and Observation Estimate Total **\$50,228.00**



PROPOSED SCOPE OF WORK, ASSUMPTIONS AND BASIS FOR ESTIMATE	
CONSTRUCTION DOCUMENTS	<ol style="list-style-type: none"> 1. PSI did have a set of design drawings during preparation of this estimate. 2. PSI did have a set of project specifications during preparation of this estimate. 3. PSI did not have a detailed construction schedule during preparation of this estimate. 4. Documents provided to PSI: Civil drawings dated 01/11/2019, Structural drawings dated 01/11/2019, Project Geotechnical Report dated: 05/01/2018 5. PSI will provide reports of tests and observations with reference to the requirements of the plans, specification and geotechnical report prepared by Kleinfelder Central Inc. dated 05/01/2018. PSI is not providing the role of geotechnical engineer of record. PSI does not accept liability or responsibility for any errors or omissions in the original geotechnical report. PSI's work shall be limited to observing and testing for compliance with the recommendations made in that report. In the event that at any time there are determined to be defects in the original report, client agrees to look solely to the original geotechnical engineer for damages arising out of the report and agrees to indemnify PSI for any claims arising out of that report.
EARTHWORK	<ol style="list-style-type: none"> 1. We understand that the building pad preparation will require 10 feet of moisture conditioned existing soils with 6 foot of non-expansive fill between the slab and the moisture conditioned soils. 2. In-place moisture density gauge testing for structural areas estimated at 1 test per lift per 2,500 sqft, 3. In-place moisture density gauge testing for utilities estimated at 1 test per 150 LF per 1 foot lift. 4. In-place moisture density gauge testing for paving areas estimated at 1 test per lift per 10,000 sqft. 5. Provide a soils engineering technician to perform periodic field in-place density and moisture content testing by the nuclear method (shallow depth).
DRILLED PIER and/or SHALLOW FOUNDATION	<ol style="list-style-type: none"> 1. We understand that the building foundation will consist of drilled straight shaft piers. 2. Assumed 4 drilled piers will be installed per day. 3. Assumed 2 drill rigs will be installing the pier foundations per day. 4. Provide a senior engineering technician to perform continuous field observation of drilled pier foundation installation including pier shaft/bell dimensions, depth, bearing material and penetration, cast-in-place reinforcing steel as well as plastic concrete testing and casting of compressive strength test specimens.
CONCRETE	<ol style="list-style-type: none"> 1. Assumed to cast 1 set of 5, 4 inch by 8 inch concrete test cylinders for every 100 cubic yards of structural concrete or daily fraction thereof and/or for every 100 cubic yards of pavement concrete or fraction thereof. 2. Provide a concrete engineering technician to perform periodic field plastic concrete testing (ambient air temperature, concrete temperature, slump, air content) and casting of compressive strength test specimens.
MASONRY	<ol style="list-style-type: none"> 1. Assumed 1 set of 6 mortar, 2 inch by 2 inch cubes and 1 set of 4 grout prisms per 5,000 sqft. of masonry wall, or per visit. 2. Assumed 1 set of 4 masonry composite prisms. Prisms to be cast by others. 3. Sampling and testing of masonry composite prisms is not included in this estimate. 4. Provide a concrete engineering technician to perform periodic field casting of masonry mortar and grout compressive strength test specimens.



STRUCTURAL STEEL	<ol style="list-style-type: none">1. Provide a certified welding inspector (CWI) to perform periodic visual observation on the structural steel framing.2. Bolted connections: bolted connections will be periodically observed for installation and tensioning of high strength connections.3. Welded connections: periodic review of welder certifications and welder procedures. Periodic visual observation of single pass fillet welds.4. Metal floor and/or roof decking: metal decking will be periodically observed for gauge and type of decking, support and anchorage welding, puddle welding and seams stitch welding.5. Nondestructive Examination of welded connections is not included in this estimate. However, we can prepare an estimate if this service is requested.6. For the purposes of this estimate, PSI assumes that a fabricator meeting the requirements of the 2015 IBC Building Code (Chapter 17 – Section 1704.2.5.1) will be used where the fabricator is approved to perform fabrication based on approval by the local Building Official, based upon review the fabricator's written procedural and quality manuals and periodic auditing by a nationally recognized accrediting agency.7. The Structural Steel observations quoted herein do not include the fee of conducting observations at the manufacturer's fabrication shop.
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PSI GENERAL NOTES

1. Unit prices/rates are in effect for 12 months from the date of this proposal and are subject to a 3% annual increase thereafter.
2. A one-time fee of \$275.00 will be charged for initial Project Setup.
3. Services not included may be quoted upon request.
4. Testing is conducted in general accordance with ASTM procedure and project specifications
5. All rates are billed on a portal to portal basis.
6. The minimum billing increment for time is the one-half hour.
7. A minimum charge of 2 hours applies to field testing and observation services.
8. A per diem charge, if applicable, will be charged at a rate of \$150.00 per day.
9. Scheduling or cancellation of field testing and observation services is required no less than the working day prior to the date the services are to be performed. Services cancelled without advance and/or inadequate notice will be assessed a minimum 2 hour charge.
10. Charges for retests or field cancellations without notice are not included in this estimate and will be invoiced at the unit rates included herein.
11. Overtime rates will be applicable for services performed before 7:00am and after 5:00pm, over 8 hours per day Monday through Friday and for all hours worked on Saturdays, Sundays and holidays. The overtime rate will be 1.5 times the applicable unit rate. Services performed on Sundays and Holidays will be invoiced at 2 times the applicable hourly rate. Surcharges for laboratory services during overtime hours or for expedited results may apply (these surcharges will be 1.5 times the applicable unit rate). The minimum billing increment for overtime is the one-half hour. Holidays observed by PSI are New Years Day, Presidents Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Friday following, Christmas Eve and Christmas Day.
12. Rates involving mileage (including vehicle charge and cylinder/sample pick-up) are subject to change based upon fluctuations in the national average gasoline price. A fuel surcharge may be applied to invoices to offset the increase in fuel prices for a gallon of regular gasoline. Changes may be made at intervals not less than monthly.
13. A project manager fee will be billed to the nearest 0.10 hour to schedule and supervise personnel and evaluate and review reports. This fee has been estimated at 15% of the total cost of services.
14. Invoices will be billed on a monthly basis. Invoices will be mailed on or about the third business day after the month to which services were rendered.
15. Concrete test cylinder sizes will be in accordance with ASTM C31 and ACI 318.
16. ACI 301-10 section 1.6.2.2.d, states that the contractor is responsible for “[providing] space and source of electrical power on the project site for facilities to be used for initial curing of concrete test specimens as required by ASTM C31/C31M, for the sole use of the Owner’s quality assurance testing agency.” PSI understands the term “space” to mean “an environmentally controlled and secure space” for initial curing in the field, and the contractor is required to provide electricity and security of the space. Accordingly, this proposal does not include provisions or the associated fee for PSI to provide this service. The initial curing box can be provided by PSI at the project site for additional fees which shall include the daily rental cost and associated mobilization cost of the curing box. In the event the curing box is stolen or damaged as the site security is the responsibility of the contractor, PSI shall invoice our client the cost of the same at cost plus 15%.



PROJECT DATA SHEET

PROJECT NAME:			
PROJECT PHYSICAL ADDRESS:			
PROJECT MANAGER:			
MOBILE NO.:		EMAIL:	
SITE CONTACT:			
MOBILE NO.:		EMAIL:	
DISTRIBUTION OF TEST REPORTS			
<u>CONTACT NAME</u>		<u>EMAIL ADDRESS</u>	
INVOICE REQUIREMENTS			
YOUR PURCHASE ORDER NO.:			
<u>BILLING ADDRESS</u>		<u>MAILING ADDRESS (IF DIFFERENT)</u>	
ATTN:		ATTN:	

Report Distribution:

PSI will deliver reports electronically to the client and others listed on the above distribution list. Reports will be posted on a password protected, secure website (Construction Hive) only available to those on the distribution list. An hourly administrative fee may be assessed for hardcopy mailing and other forms and methods of report delivery.