April 9, 2019

Mr. Leon Barba
City Engineer
City of Kyle,
100 W. Center Street
Kyle, Texas 78640

Re: Elliott Branch Wastewater Interceptor Project Amendment #1

Dear Mr. Barba:

Thank you for the opportunity to submit RPS's proposal to provide professional engineering associated with the Elliott Branch Wastewater Interceptor Southside Wastewater Improvements project. A schedule for the completion of the design phase services through permitting phase services is attached. Our proposal is based on the following information.

Project Understanding

The City of Kyle wishes to incorporate additional wastewater collector lines, a reclaimed water line, potable water lines, and drainage improvements, in conjunction with the Elliott Branch Wastewater Interceptor Project as set forth in Contract Amendment 1.

Project Team

- Leon Barba, PE — City of Kyle – City Engineer
- John Friedman, PE — RPS Project Principal
- Stephanie Blew, PE — RPS Project Manager
- Nieves Alfaro, PE — QA/QC
- Support Services:
    - Hicks & Company Environmental/Archeological Consultants (Environmental)
    - McGray and McGray Land Surveyors, Inc. (Surveying Services)
    - Fugro (Geotechnical)
    - Stateside Right of Way Services (Right-of-Entry)
    - The Rios Group, Inc. (Subsurface Utility Engineering)

Scope of Services

Design Phase

Task 1 – Project Management
Task 2 – Data Collection and Preliminary Investigations
Task 3 – Preliminary Engineering (30% phase)
Task 4 – Final Engineering (60%, 90%, and 100% Design)

Permitting Phase

Task 5 – Permitting

Deliverables The deliverables associated with the project vary by phase and task and have been described in the body of the scope of services. Final engineering deliverables will include four (4) copies (2 full and 2 half size) plans, and two (2) copies of the Project Manual, Drainage Report and Opinion of Probable Construction

Cost (OPCC) will be provided with each submittal. It is assumed comments received will be incorporate into the next milestone submittal.

Basis of Estimate The estimate is based on the tasks listed above and further details in Exhibit A, attached, dated April 5, 2019. Modifications to the tasks after confirmation will be considered additional services and will require subsequent authorization from the Client.

Additional Services:

Additional services not specifically defined in the scope of services will be at the direction of the Client or Client's representative and will be performed in accordance with our hourly rate sheet for this contract.

Exclusions

This scope of services does not include the following:

- Fees for subconsultants not specifically identified in this proposal.
- Sidewalk design TDLR permitting, review, or inspection.
- Preparation of survey field notes and/or easement exhibits not described above or specified in the subconsultants' proposals.
- FEMA coordination, permitting, or development of CLOMR or LOMR documents.
- Preparing supporting documents for or attending City Meetings for Tree removal, variance requests, or waivers.
- Revisions for regulations and permit processes not in effect at the time of this proposal.
- Advertisement or Bid Phase Services.
- Construction Administration, Management, or Inspection Services.
- Public involvement and additional meetings beyond those specifically noted in this scope.
- Design services beyond those specifically stated in this scope, including revisions to plans after final submittal and approval.
- Any other item not specifically listed in the Scope of Services.
- Reimbursable expenses associated with any additional services provided.
- Hydrologic and Hydraulic analysis of Stream Plum-1.
- Permitting or Notification of project with the USACE.

These services, if required, and upon agreement from the Client, can be performed as an additional service. The exclusions/items not included in this scope of services are the same as original proposal unless otherwise noted.

Project Schedule

RPS will commence work upon receipt of signed authorization from the Client. The attached project schedule illustrates the timeline associated with each phase of the project. We have assumed standard review times in the schedule and concurrent reviews by multiple departments/agencies. Extended review times are beyond the control of RPS. RPS will respond to comments received in a timely manner. If Client directs RPS to proceed without receipt of comments from all reviewing parties, any comments received after direction to proceed from client may be considered additional services.

Summary of Cost

The summary of cost for providing the services described by task number and the method of compensation is shown below.

Task	Method of Compensation	Amount
Task 1 – Project Management	Time & Materials	$47,093
Task 2 – Data Collection and Preliminary Investigations	Time & Materials	$204,063
Task 3 – Preliminary Engineering	Time & Materials	$65,775
Task 4 – Final Engineering	Time & Materials	$238,101
Task 5 – Permitting	Time & Materials	$10,935
Task 6 – Bid-Award-Execution	Time & Materials	$26,296
Total Estimated Cost		$592,263

Per the City's request, the total fee was also broken up into the different components of the project as shown in the distribution summary below.

Component	Fee
Subconsultant: Right of Entry	$6,600.00
Subconsultant: Survey, Environmental, Geotech, & SUE	$185,108.00
Elliott Branch Redesign	$14,860.00
Reclaimed Water Line	$61,235.00
Potable Water	$41,714.00
Roadway & Ditch Improvements	$66,964.50
Erosion & Sediment Traffic Controls	$23,640.00
Additional Gravity Wastewater Lines	$54,837.50
QA/QC & OPCC	$31,050.00
Permitting	$10,260.00
Project Management	$47,093.00
Rate Increases	$22,605.00
Bid Phase Services	$26,296.00
Total	$592,263.00

Fees were estimated on a time and material's basis using RPS' hourly rate sheet provided in Attachment B-2 to Contract Amendment 1.

In closing, we appreciate the opportunity to provide this proposal and are available at your convenience to answer any questions. Feel free to contact Stephanie Blew, P.E. at any time via phone (512 328-5771) or email at stephanie.blew@rpsgroup.com .

Sincerely,

Doug Matthys
Executive Director

EXHIBIT A - CONTRACT AMENDMENT NO. 1
SCOPE OF SERVICES
ELLIOTT BRANCH WASTEWATER INTERCEPTOR

Project Description

RPS will incorporate additional wastewater collector lines and a reclaimed waterline in conjunction with the Elliott Branch Wastewater Interceptor project as **Contract Amendment #1** to that project. The project was placed on hold in February 2015 and removed from hold in September 2017. The additional scope of services for Elliott Branch Contract Amendment #1 is for improvements in areas where construction is to occur to maximize opportunities to replace adjacent aging infrastructure, expand the reclaimed water main, and improve drainage conveyances disturbed by the utility improvements. The improvements include:

1. Design approximately 520 feet of 8" wastewater line in S. Meyer Street southwest of W. 3rd Street. (Line C)

2. Design approximately 60 feet of 8" wastewater line in W. 3rd Street southeast of S. Sledge Street. (Line F)

3. Design approximately 550 feet of 8" wastewater line in S. Sledge Street northeast of W. 3rd Street. (Line G)

4. Design approximately 780 feet of 12" wastewater line in Old State Hwy 81. (Line H)

5. Design approximately 1,050 feet of 12" wastewater line to divert the Old Town Interceptor Line at the IH 35 frontage road south and west to the Old State Hwy 81 line. (Line I)

6. Design approximately 7,400 feet of 12" reclaimed waterline parallel to the Elliott Branch Wastewater Interceptor.

7. Design approximately 1,200 feet of 8" waterline on W. 3rd Street from Scott Street to S. Sledge Street.

8. Design approximately 250 feet of 8" waterline on S. Groos Street southwest of W. 3rd Street.

9. Design approximately 1,600 feet of 12" waterline on S. Sledge Street from J. Maryes Lane to W. Second Street.

10. Design approximately 400 feet of 8" waterline behind the northern lots on Park Place.

11. Design approximately 1,050 feet of roadway and ditch reconstruction for W. 3rd Street from Sledge Street to Scott Street.

12. Design approximately 100 feet of roadway and ditch reconstruction for S. Groos Street between the W. 3rd Street intersections.

13. Extended design timeline and associated project management, subconsultant coordination, and contract administration activities.

14. Budget adjustments for regulatory changes and updated rates due to the extended hold the project encountered.

The descriptions of revisions or additions to the scope of services for Elliott Branch Contract Amendment #1 are described below as applicable to the corresponding Task number.

Task 1 – Project Management

Task 1.1 (Item 13) includes additional project management efforts during the design phase for the improvements listed above. This management time is associated with the extended design phase project management efforts not included in prior contract amendments.

Task 1.2 includes eight (8) additional progress meetings not included in the original contract or prior amendments.

Task 1.3 Project Coordination – Coordinate with ROW/Easement acquisition firm, CITY, and CITY's Consultant to support easement acquisitions for the project and right of entry requests.

Task 1.4 Project Administration includes contract administration efforts for the design phase including project updates, and monthly financial reporting.

Task 1.5 Client support during extended project hold.

The corresponding fee for these additions is supplemental to the Elliott Branch Contract and reflected in Attachment B-1.

Task 2 – Data Collection and Preliminary Investigations

ENGINEER will include the additional design elements for Items 1-12 into Task 2.1. The corresponding fee for these additions and revisions is supplemental to the Elliot Branch Contract and reflected in Attachment B-1.

Task 2.1 Data Collection and Initial Site Visits – ENGINEER and its subconsultants will request record data and perform site visits as outlined below.

a) Request existing City of Kyle, and TxDOT records for as-built information within the project area.
b) Visit the proposed project route and document field conditions with photographs. It is assumed two (2) site visit will be performed during the final design phase of the project, and access to each property will be provided by the City.
c) Coordinate with area utility providers. Provide utilities with 60% plans and request record information. Up to four (4) meetings with utility providers are included with this task. It is assumed the City of Kyle will provide contact information for each utility company to be coordinated with.
d) Provide utilities with 90% plans and request verification that their utilities are shown accurately. Information received will be incorporated into the 100% plans.

Task 2.3 Geotechnical Investigations and Reports – Fugro will take initial soil borings at critical areas along the additional alignments and prepare a geotechnical data report for the project in accordance with their proposal Attachment A-3. The fee spreadsheet reflects the increased effort from the Amendment 2 for current rates, as well as additional effort for Items 1-12.

Task 2.4 Surveys – McGray and McGray Land surveyors will provide tree, boundary, improvement, and topographic surveys of the proposed alignments for Items 1-12 in accordance with their proposals Attachments A-2 (Line C & G), A-5 (Line H & I), and A-6 (utilities update, ordinary high water mark information, additional survey due to alignment revisions).

Task 2.5 Environmental Assessments – Hicks and Company will walk the project alignment identifying and documenting environmental constraints in accordance with their proposal Attachment A-1. The fee spreadsheet reflects the increased effort from the original Elliott Branch contract, as well as additional effort for Items 1–12.

Task 2.6 Right of Entry – Stateside ROW will prepare and distribute right of entry requests for up to two (2) parcels in accordance with their attached proposal included as Attachment A-4.

Task 2.7 Subsurface Utility Engineering – The Rios Group, Inc. will perform level B locates for the ROW areas of the project and up to twenty (20) level A locates in accordance with their attached proposal included as attachment A-7.

Task 2 Deliverables: The environmental assessment and geotechnical investigations reports will be included with the 60% submittal. The survey information will be incorporated with the 60% design plans.

The corresponding fee for these additions is supplemental to the Elliott Branch Contract and reflected in Attachment B-1.

Task 3 – Preliminary Engineering (30% Design)

Task 3.3 Floodplain Assessment – Map FEMA base flood elevations onto the topographic survey collected under Task 2.4. ENGINEER will also show the FEMA base flood elevations in the profile views.

Task 3.6 The ENGINEER will conduct Quality Assurance (QA)/Quality Control (QC) reviews in accordance with ENGINEER's internal QA/QC policy for the original preliminary design submittal and the updated preliminary design submittal.

Task 3.7 A preliminary design (30%) plan set was prepared using the alignment and pipe sizes proposed in the PER (12" and 15" diameter) and delivered to the City in April 2014, prior to the project being placed on hold.

The original preliminary design (30%) plan set included the following types of sheets:

- cover sheet
- general notes sheets
- key maps
- ownership, easements, & survey control sheets
- wastewater plan & profile sheets
- standard details sheets

Task 3.8 The preliminary design (30%) plans were updated when the project was restarted in October 2017. The size of the Elliot Branch line had increased to 21" and 24", with a parallel 12" diameter reclaimed water line (Item 6), and additional gravity wastewater lines (Items 1-5). The updated preliminary design plan set included the following types of sheets:

- Cover sheet
- General notes sheets
- Key maps
- Ownership, easements, survey control sheets
- Erosion & sediment control & tree protection sheets
- Wastewater plan and profile sheets
- Reclaimed water plan and profile sheets

- Standard detail sheets

Task 3.9 Adjacent Development Coordination – The ENGINEER will incorporate an additional wastewater manhole on Elliott Branch Interceptor for connection to the Opal Ranch Development. Manhole location to be provided by the City.

Task 3.10 Opinion of Probable Construction Cost - The ENGINEER prepared a preliminary opinion of probable construction cost (OPCC) with the original preliminary design 30% plan set (Task 3.7) in April of 2014, and the updated preliminary design plan set in June 2018.

Task 3 Deliverables: Original Preliminary design plans – 3 copies of 11"x17" plans and OPCC.
Updated Preliminary design plans – 3 copies of 11"x17" plans and OPCC.

The corresponding fee for these additions is supplemental to the original Elliott Branch Contract and reflected in Attachment B-1.

Task 4 – Final Engineering (60%, 90%, and 100% Design)

ENGINEER will include the additional design elements and revisions into the Final Engineering submittals to be performed in the original Elliott Branch Contract.

Task 4.2 Items 1-12 will be incorporated into the Construction Plan submittals for each project milestone identified above. Additionally, the following sheets will be incorporated with the Construction plans identified in Amendment #1:

- Roadway and ditch plan and profile sheets and details
- Bypass pumping plan sheets
- Reclaimed water plan and profile sheets and details
- Waterline plan and profile sheets and details

Task 4.3 Items 1-12 will be incorporated into the Project Manual submittals for each project milestone identified above.

Task 4.4 Items 1-12 will be incorporated into the OPCC prepared with each milestone project submittal identified above.

Task 4.5 Items 1-12 will be incorporated into the QA/QC reviews for each milestone project submittal identified above.

Task 4.6 Drainage Design – The ENGINEER will delineate drainage areas and develop rational method hydrology for the design of ditches and driveway culverts along W. Third Street and S. Groos Street in accordance with Tasks 11 and 12. ENGINEER will develop a StormCAD model for the hydraulic design of the drainage elements based on the design storm identified by the City.

Task 4.7 Design Letter Report – The ENGINEER will prepare a design report for the ditch improvements along W. Third Street and S. Groos Street in Items 11 and 12.

Task 4.8 Comment Review Meetings – The ENGINEER will attend a comment review meeting approximately four (4) weeks after each milestone deliverable to receive comments and feedback from the City of Kyle. ENGINEER will populate a comment matrix based on the redlined comments received during

the meeting, and incorporate the comments with the next milestone deliverable, and provide a comment matrix with responses to each comment.

Task 4.9 Rate Update accounts for the rate adjustments to the original effort identified for the Final Engineering phase of the project.

Task 4 Deliverables: 4 Copies (2 full and 2 half) plans, and 2 Copies of the Project Manual, Drainage Report and OPCC will be provided with each submittal. It is assumed comments received will be incorporated into the next milestone submittal.

All the scope items will still apply under this task except for Task 4.1a, which was removed at the CITY's request. The corresponding fee for these additions and revisions is supplemental to the original Elliott Branch Contract fee and is reflected in Attachment B-1.

Task 5 – Permitting

ENGINEER will include the additional design elements and revisions into the permitting task to be performed in Contract Amendment #1. It is assumed permitting will begin with the 60% design submittal. Agency review times have been estimated in the project schedule. Actual review times may vary and are beyond the control of RPS.

Task 5.1 Texas Department of Transportation (TxDOT) Utility Permit - ENGINEER will coordinate the proposed alignments and design concepts for Items 5 and 6 with TxDOT including preparation of a utility permit application, and temporary use of portions of the TxDOT right-of-way for coordination of construction activities. ENGINEER will respond to up two (2) rounds of comments from TxDOT and attend up to two (2) meetings with TxDOT in an effort to obtain a permit for the project. Regulatory changes in effect as of the date of this proposal adopted after the original scope was prepared in September 2013 have also been included.

Task 5.2 Union Pacific Railroad (UPRR) – ENGINEER will coordinate the proposed alignments and design concepts for Item 6 including a pipeline crossing application using their on-line application process. ENGINEER will address up to one (1) round of comments from UPRR. It is assumed all permit fees will be paid directly by the City. Regulatory changes in effect as of the date of this proposal adopted match the original scope was prepared in September 2013 have also been included.

Task 5.3 Stormwater Pollution Prevention Plan (SWPPP) – ENGINEER will incorporate Items 1-12 into the SWPPP prepared for the project.

Task 5.4 Items 1-12 will be incorporated into the QA/QC reviews for each permit and plan included in Task 4.

Task 5.5 Rate Updates accounts for the additional effort required for the permitting phase of the project.

Task 5 Deliverables: TxDOT Utility Permit Application, Union Pacific Railroad Utility Crossing Application and SWPPP in PDF format.

The corresponding fee for these additions and revisions is supplemental to the original Elliott Branch Contract and is reflected in Attachment B-1.

Task 6 – Bid – Award - Execution

ENGINEER and its subconsultants will include the bid phase services associated with original and additional design components to be performed in Contract Amendment #1. It is anticipated the City will advertise and distribute the plans and specifications to prospective bidders. The Task 6 effort includes:

Task 6.1 100% Submittal Comment Review and Response - ENGINEER will populate a comment matrix based on the redlined comments received and incorporate the comments with the plans advertised for bid or to be published as addenda, and provide a comment matrix with responses to each comment.

Task 6.2 Pre-Bid Conference – ENGINEER will prepare the advertisement for bids and provide to the City for publication. ENGINEER will prepare the pre-bid conference PowerPoint presentation and conduct the pre-bid conference with the City to discuss the project and answer questions from the potential contractors.

Task 6.3 Bid Assistance and Addenda – ENGINEER will assist the City with questions arising from suppliers, contractors and subcontractors. ENGINEER will address comments from TxDOT and the City of Kyle received after issuance of Bid documents. ENGINEER will prepare up to three (3) addenda.

Task 6.4 Bid Opening and Evaluation – ENGINEER will attend the bid opening with the City and potential contractors. ENGINEER will evaluate the contractors' proposals, qualification statements, generate bid tabulations, and provide a recommendation to the City.

The corresponding fee for these additions and revisions is supplemental to the original Elliott Branch Contract and is reflected in Attachment B-1.

Task 6 Deliverables: Tabulated bid data, Bid Award Recommendation Letter.

Services or information to be provided by the CITY:

- Available as-built information for City owned infrastructure in the project limits.
- Sizing for the proposed infrastructure.
- Typical section for roadway reconstruction areas.
- Pressure plane limits and hydraulic grade line for use in waterline design.
- Pipe pressure class for reclaimed water line.
- Contact information for dry utilities within the project limits.
- Once right of entry is obtained, City will participate in a field walk to observe the conditions of Stream Plum-I in the vicinity of the proposed pipeline and provide input for alignment and depth considering future meander and erosion potential of the stream.
- Preparation of Easement Documents or coordination with property owners to obtain easements.
- Advertise bid project; Distribute plans; Maintain plan holder's list.
- Post Addenda to City website.
- Field locating existing water and wastewater infrastructure and services.
- Comments from each milestone deliverable will include all departments.

The services or information to be provided by the CITY are the same as original proposal unless otherwise noted above.

Exclusions / Items not included in this scope of services:

- H&H analysis or sizing of the Plum-1 stream crossing of S. Sledge St.
- Sidewalk design TDLR permitting, review, or inspection.

- Edwards Aquifer Protection Plans and Permitting
- Preparation of a Pre-Construction Notification (PCN) to the USACE.
- Sale of plans or maintaining bid holder's list during Bidding.
- Significant review comments after the 90% review.

The exclusions / items not included in this scope of services are the same as original proposal unless otherwise noted above.

Expenses:

ENGINEER has included an estimated budget for miscellaneous expenses on Attachment B-1. Miscellaneous expenses including reproductions to be provided in accordance with Attachment B-2 the updated RPS standard rate sheet. Permit fees for TCEQ, TxDOT and UPRR have not been included and can be paid by the City directly.

If this proposal meets with your approval, please sign on the following page and return to our office.

Thank you.

To the CITY:

R. Todd Webster
Mayor
City of Kyle
100 West Center Street
Kyle, Texas 78640
Fax: (512) 262-3987

To the ENGINEER:

Stephanie Blew, P.E.
Sr. Project Manager
RPS
4801 Southwest Parkway, Parkway 2, Suite 150
Austin, Texas 78735
Fax: (512) 326-5659

CITY OF KYLE, TEXAS

Signature _____

Printed Name _____

Title _____

Date _____

ESPEY CONSULTANTS, INC. dba RPS

Signature _____

Printed Name Doug Matthys

Title Executive Director

Date April 9, 2019

ATTACHMENT B-1
FEE ESTIMATE

City of Kyle
Elliott Branch Wastewater Interceptor
April 5, 2019

Yellow = data input
Green, orange = calculated

Fee Breakdown - Amendment 1

				RPS Labor											Other Direct Costs (ODCs)					Subconsultants		
Task	No	Task Name	Comments	Sr. Project Manager / Principal	Sr. Project Manager	Sr. Project Engineer	Project Engineer	Engineer Staff	GIS	Sr. Designer	Planner	Admin	RPS Hours	Labor Cost	Miles	Mileage Cost	Other Misc.	Markup on ODCs	Total ODCs	Subs Fee	Markup on Subs	Total Fee
			Average Rates	$280.00	$230.00	$185.00	$140.00	$125.00	$100.00	$135.00	$135.00	$90.00				$0.545		0%			10%	
		BASIC SERVICES	Assumptions																			
1		**Project Management**	**# of months/mtgs**	**0**	**78**	**0**	**102**	**0**	**0**	**0**	**0**	**0**	**180**	**$46,766**	**$600**	**$327**	**$0**	**$0**	**$327**	**$0**	**$0**	**$47,093**
	1.1	Project Management	18		36		36						72	$13,320		$0		$0	$0		$0	$13,320
	1.2	Project Progress Meetings	8		16		32						48	$8,160	600	$327		$0	$327		$0	$8,487
	1.3	Project Coordination			8		16						24	$4,080		$0		$0	$0		$0	$4,080
	1.4	Project Administration			18		18						36	$6,660		$0		$0	$0		$0	$6,660
	1.5	Client Support During Project Hold											0	$14,546		$0		$0	$0		$0	$14,546
2		**Data Collection & Preliminary Invest.**		**0**	**8**	**0**	**28**	**0**	**0**	**10**	**0**	**0**	**125**	**$19,465**	**$0**	**$0**	**$0**	**$0**	**$0**	**$165,233**	**$10,118**	**$204,063**
	2.1	Data Collection & Initial Site Visit																				
		As-Built Coordination			2		8			8			18	$2,660		$0		$0	$0		$0	$2,660
		Site Visits (2)			10		10			5			25	$4,375		$0		$0	$0		$0	$4,375
		Utility Data Request			1		4			16												
		Utility Coordination (4 mtgs)			4		16			16			36	$5,320		$0		$0	$0		$0	$5,320
		Utility 90% Plan Review			1		4			16												
	2.3	Preliminary Geotechnical	see sub scope		2		4						6	$1,020		$0		$0	$0	$12,669	$1,267	$14,956
	2.4	Topographic Surveys	see sub scope		2		4			8			14	$2,100		$0		$0	$0	$77,293	$7,729	$87,122
	2.5	Environmental Assessment	see sub scope		2		4			2			8	$1,290		$0		$0	$0	$7,677	$768	$9,735
	2.6	Right of Entry	see sub scope		2		16						18	$2,700		$0		$0	$0	$3,545	$355	$6,600
	2.7	Subsurface Utility Engineering	see sub scope																			
		Level A			2		2						4	$740		$0		$0	$0	$37,800	$3,780	$42,320
		Level B			2		4			8			14	$2,100		$0		$0	$0	$26,250	$2,625	$30,975
3		**Preliminary Engineering (30%)**	**# of sheets**	**8**	**40**	**0**	**129**	**6**	**0**	**264**	**0**	**0**	**447**	**$65,775**	**0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$65,775**
	3.3	Floodplain Assessment																				
		Profile 100 Yr FEMA WSEL's			2			6		12			20	$2,830		$0		$0	$0		$0	$2,830
	3.8	Updated Preliminary Design Plans											0	$0		$0		$0	$0		$0	$0
		Key Map Reclaimed Water	2		1		4			12			17	$2,410		$0		$0	$0		$0	$2,410
		Erosion & Sedimant Controls & Tree Protection Plans	1				4			12			16	$2,180		$0		$0	$0		$0	$2,180
		Elliott Branch (21" & 24")	17		4		34			68			106	$14,860		$0		$0	$0		$0	$14,860
		Line C	1		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Line F	0.5		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Line G	1		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Line H	2		2		8			16			26	$3,740		$0		$0	$0		$0	$3,740
		Line I	2		2		8			16			26	$3,740		$0		$0	$0		$0	$3,740
		Reclaimed Water	16		8		32			64			104	$14,960		$0		$0	$0		$0	$14,960
		Water Details	1				2			4			6	$820		$0		$0	$0		$0	$820
	3.6	QA/QC & Address Comments	43.5	8	8		16			32			64	$10,640		$0		$0	$0		$0	$10,640
	3.9	Adjacent Development Coordination			8		4			4			16	$2,940		$0		$0	$0		$0	$2,940
	3.10	OPCC			2		6			2			10	$1,570		$0		$0	$0		$0	$1,570
													0	$0		$0		$0	$0		$0	$0
4		**Final Engineering (60%,90%, 100%)**	**# of sheets**	**3**	**102**	**105**	**388**	**114**	**0**	**744**	**0**	**12**	**1,468**	**$235,733**	**120**	**$65**	**$2,300**	**$0**	**$2,365**	**$0**	**$0**	**$238,101**
	4.2	*Construction Plans*																				
		60% Deliverable																				
		Key Map Reclaimed Water	2		0.5		2			2			5	$665		$0	$500	$0	$500		$0	$1,165
		Key Map Water	1		0.5		1			4			6	$795		$0		$0	$0		$0	$795

				RPS Labor											Other Direct Costs (ODCs)					Subconsultants		
Task	No	Task Name	Comments	Sr. Project Manager / Principal	Sr. Project Manager	Sr. Project Engineer	Project Engineer	Engineer Staff	GIS	Sr. Designer	Planner	Admin	RPS Hours	Labor Cost	Miles	Mileage Cost	Other Misc.	Markup on ODCs	Total ODCs	Subs Fee	Markup on Subs	Total Fee
		Erosion & Sediment Controls & Tree Protection Plans	3		1		3			6			10	$1,460		$0		$0	$0		$0	$1,460
		Line C	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line F	0.5		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Line G	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line H	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Line I	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		By-Pass Pumping Plan	4		2		4			8			14	$2,100		$0		$0	$0		$0	$2,100
		Reclaimed Water	16		8		32			64			104	$14,960		$0		$0	$0		$0	$14,960
		Waterline M	3		1.5		10			20			32	$4,445		$0		$0	$0		$0	$4,445
		Waterline N	1		0.5		3.5			6.5			11	$1,483		$0		$0	$0		$0	$1,483
		Waterline P	4		2		13			26.5			42	$5,858		$0		$0	$0		$0	$5,858
		Waterline L	1		0.5		3.5			6.5			11	$1,483		$0		$0	$0		$0	$1,483
		Drainage Area Map	2		0.5		4			8			13	$1,755		$0		$0	$0		$0	$1,755
		Drainage Calc's	2		1		2			2			5	$780		$0		$0	$0		$0	$780
		W. 3rd Street	3		2	1.5	16	2.5		24			46	$6,530		$0		$0	$0		$0	$6,530
		S. Groos Street	1		1	0.5	8	1.5		8			19	$2,710		$0		$0	$0		$0	$2,710
		Water Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Roadway Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Drainage Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Traffic Control Plans	6		3	16				32			51	$7,970		$0		$0	$0		$0	$7,970
		90% Deliverable																				
		Key Map Reclaimed Water	2		0.5		2			4			7	$935		$0	$500	$0	$500		$0	$1,435
		Key Map Water	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Erosion & Sediment Controls & Tree Protection Plans	3		1		3			6			10	$1,460		$0		$0	$0		$0	$1,460
		Line C	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line F	0.5		0.25		1.5			2.5			4	$605		$0		$0	$0		$0	$605
		Line G	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line H	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Line I	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		By-Pass Pumping Plan	4		2		5			10			17	$2,510		$0		$0	$0		$0	$2,510
		Reclaimed Water	16		4		32			64			100	$14,040		$0		$0	$0		$0	$14,040
		Waterline M	3		1.5		10			20			32	$4,445		$0		$0	$0		$0	$4,445
		Waterline N	1		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Waterline P	4		2		14			28			44	$6,200		$0		$0	$0		$0	$6,200
		Waterline L	1		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Drainage Area Map	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Drainage Calc's	2		1		1.5			3			6	$845		$0		$0	$0		$0	$845
		W. 3rd Street	3		3	1.5	16	3		24			48	$6,823		$0		$0	$0		$0	$6,823
		S. Groos Street	1		1	1	8	1.5		8			20	$2,803		$0		$0	$0		$0	$2,803
		Water Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Roadway Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Drainage Details	1		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		Traffic Control Plans	6		2	12				24			38	$5,920		$0		$0	$0		$0	$5,920
		100% Deliverable																				
		Key Map Reclaimed Water	2		0.5		1			2			4	$525		$0	$500	$0	$500		$0	$1,025
		Key Map Water	1				1			2			3	$410		$0		$0	$0		$0	$410
		Erosion & Sediment Controls & Tree Protection Plans	3		1		3			6			10	$1,460		$0		$0	$0		$0	$1,460
		Line C	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line F					1			2			3	$410		$0		$0	$0		$0	$410
		Line G	1		0.5		2			4			7	$935		$0		$0	$0		$0	$935
		Line H	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		Line I	2		1		4			8			13	$1,870		$0		$0	$0		$0	$1,870
		By-Pass Pumping Plan	4		2		4			8			14	$2,100		$0		$0	$0		$0	$2,100
		Reclaimed Water	16		4		16			32			52	$7,480		$0		$0	$0		$0	$7,480
		Waterline M	3		1		9			18			28	$3,920		$0		$0	$0		$0	$3,920
		Waterline N	1		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Waterline P	4		2		12			24			38	$5,380		$0		$0	$0		$0	$5,380
		Waterline L	1		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Drainage Area Map	2		0.5		3			6			10	$1,345		$0		$0	$0		$0	$1,345
		Drainage Calc's	2		0.5		1			2			4	$525		$0		$0	$0		$0	$525
		W. 3rd Street	3		1.5	1	12	2.5		24			41	$5,763		$0		$0	$0		$0	$5,763

				RPS Labor											Other Direct Costs (ODCs)					Subconsultants		
Task	No	Task Name	Comments	Sr. Project Manager / Principal	Sr. Project Manager	Sr. Project Engineer	Project Engineer	Engineer Staff	GIS	Sr. Designer	Planner	Admin	RPS Hours	Labor Cost	Miles	Mileage Cost	Other Misc.	Markup on ODCs	Total ODCs	Subs Fee	Markup on Subs	Total Fee
		S. Groos Street	1		0.5	0.5	4	1		8			14	$1,973		$0		$0	$0		$0	$1,973
		Water Details	1				1			2			3	$340		$0		$0	$0		$0	$340
		Roadway Details	1				1			2.0			3	$410		$0		$0	$0		$0	$410
		Drainage Details	1		1		1			2.0			4	$525		$0		$0	$0		$0	$525
		Traffic Control Plans	6		2	6				12			20	$3,190		$0		$0	$0		$0	$3,190
	4.3	Project Manual			4	8	16					8	36	$5,360		$0	$500	$0	$500		$0	$5,860
	4.4	OPCC			3	9	18						30	$4,875		$0		$0	$0		$0	$4,875
	4.5	QA/QC & Address Comments											0	$0		$0		$0	$0		$0	$0
		60%		1	2	4	8	4		18			37	$5,530		$0		$0	$0		$0	$5,530
		90%		1	2	4	8	4		18			37	$5,530		$0		$0	$0		$0	$5,530
		100%		1	1	2	4	2		9			19	$2,905		$0		$0	$0		$0	$2,905
	4.6	Drainage Design			6	20		60					86	$12,580		$0		$0	$0		$0	$12,580
	4.7	Design Letter Report			4	12		32		16		4	68	$9,660		$0	$300	$0	$300		$0	$9,960
	4.8	Comment Review Meetings	3		6	6	9						21	$3,750	120	$65		$0	$65		$0	$3,815
	4.9	2018 Rate Increase											979	$21,930		$0		$0	$0		$0	$21,930
5		**Permitting**		**0**	**6**	**0**	**30**	**12**	**0**	**16**	**0**	**8**	**72**	**$10,635**	**$0**	**$0**	**$300**	**$0**	**$300**	**$0**	**$0**	**$10,935**
	5.1	TXDOT Utility			2		12			6		4	24	$3,310		$0		$0	$0		$0	$3,310
	5.2	Union Pacific Railroad			2		12			6		2	22	$3,130		$0		$0	$0		$0	$3,130
	5.3	SWPPP					4	8					12	$1,560		$0	$300	$0	$300		$0	$1,860
	5.4	QA/QC & Address Comments			2		2	4		4		2	14	$1,960		$0		$0	$0		$0	$1,960
	5.5	2018 Rate Increase											53	$675		$0		$0	$0		$0	$675
6		**Bid-Award-Execution**	**Quantity**	**0**	**25**	**0**	**21**	**64**	**0**	**56**	**0**	**22**	**188**	**$26,230**	**$120**	**$65**	**$0**	**$0**	**$65**	**$0**	**$0**	**$26,296**
	6.1	100% Submittal Comment Review & Response	1		1		2	4		8			15	$2,090		$0		$0	$0		$0	$2,090
	6.2	Pre-Bid Conference	1		8		3	24				3	38	$5,530	60	$33		$0	$33		$0	$5,563
	6.3	Bid Assistance and Addenda	3		12		12	24		48		3	99	$14,190		$0		$0	$0		$0	$14,190
	6.4	Bid Opening and Evaluation	1		4		4	12				16	36	$4,420	60	$33		$0	$33		$0	$4,453
		Total for Contract Amendment No. 1		**11**	**234**	**105**	**677**	**132**	**0**	**1,034**	**0**	**20**	**2,212**	**$379,794**	**720**	**$392**	**$2,600**	**$0**	**$2,992**	**$165,233**	**$13,321**	**$592,263**

ATTACHMENT A-1

1504 WEST 5TH STREET AUSTIN, TEXAS 78703 TEL: 512 / 478-0858 FAX: 512 / 474-1849

HICKS & COMPANY
ENVIRONMENTAL
ARCHEOLOGICAL
AND PLANNING
CONSULTANTS

November 27, 2018

Stephanie Blew, P.E.
Senior Project Manager
RPS|Infrastructure
4801 Southwest Parkway, Parkway 2, Suite 150
Austin, Texas 78735

Re: Updated Scope of Services and fee estimate, City of Kyle Elliott Branch Wastewater Interceptor project

Dear Ms. Blew:

In response to your email request of November 21, 2018, this letter transmits an updated Scope of Services and fee estimate for the City of Kyle Elliott Branch Wastewater Interceptor project. This updated scope of services and fee estimate includes an additional investigation of a proposed culvert upgrade at the Plum-1 stream crossing at South Sledge Street. The request was to investigate potential environmental impacts of the proposed culvert upgrade 200 feet upstream and downstream of the crossing. If you have any questions, please let us know.

Thank you.

Roy L. Fuse
Senior Project Manager

Attachment: Updated Scope of Services and fee estimate

1504 WEST 5TH STREET AUSTIN, TEXAS 78703 TEL: 512 / 478.0858 FAX: 512 / 474.1849

HICKS & COMPANY
ENVIRONMENTAL
ARCHEOLOGICAL
AND PLANNING
CONSULTANTS

Updated Scope of Services
City of Kyle Elliott Branch Wastewater Interceptor
November 27, 2018

General Understanding of the Project

This document updates a Scope of Services dated June 20, 2018, in response to an email request from Stephanie Blew, P.E., of RPS|Infrastructure on November 21, 2018. The project will consist of the design and construction of a wastewater interceptor that will connect with other infrastructure associated with the City of Kyle Southside Wastewater System. Assistance from Hicks & Company Environmental/ Archeological Consultants (Hicks & Company) has been requested concerning identification of any sensitive natural and cultural resources and any associated state and federal environmental permitting requirements. The originally requested environmental services involve the main wastewater line interceptor and wastewater line connections that total approximately 11,007 feet. Diameter of the interceptor line will vary from eight to 24 inches. The trench width will generally be the pipe diameter plus two feet where the reclaimed waterline (12-inch diameter) is not adjacent to the wastewater line. Where the reclaimed waterline is adjacent to the wastewater line, a trench width of nine feet will be assumed. The easement width is a permanent 30-foot easement, with a 50-foot temporary easement, unless in another utility right of way (ROW). Trench depths are expected to vary generally between six and 15 feet. Additional services requested by RPS|Infrastructure on November 21, 2018, include the investigation of a proposed culvert upgrade at the Plum-1 stream crossing at South Sledge Street.

General Description of Environmental Services

Work will include a constraints level analysis of natural and cultural resources subject to regulation and management overview by federal and state resource agencies. Additionally, field surveys for archeological resources will be conducted if recommended by the Texas Historical Commission (THC). This updated Scope of Services will include the five tasks described below. Additional work that may be identified based on results of the constraints level analysis or in response to specific request(s) by RPS|Infrastructure and/or the City of Kyle is currently undetermined and will be supplemental to this Updated Scope of Services.

Task 1. Identification of Jurisdictional Waters (including wetlands) Subject to Federal Regulation under Section 404 of the Clean Water Act

The proposed project design will be reviewed and site reconnaissance will be conducted to determine existence of jurisdictional waters of the U.S. (WOTUS) including wetlands and potential impacts requiring permitting under Section 404 of the Clean Water Act (CWA). Research will include use of National Wetlands Inventory (NWI) maps, National Hydrography Datasets (NHD) from the U.S. Geological Survey (USGS), USGS topographic maps, soil survey reports, and aerial photography as needed or required. Evaluation will include site reconnaissance following protocol of the U.S. Army

Corps of Engineers (USACE) to determine whether potential impacts would trigger requirements for a nationwide permit (NWP) and whether a pre-construction notification (PCN) to the USACE would be necessary. This updated Scope of Services does not include the preparation of a PCN to the USACE. If required, a PCN would be prepared under a supplemental scope of services and fee estimate. A segment of stream designated as Plum-1 will be investigated 200 feet upstream and downstream from its crossing at South Sledge Street. Within this stream segment, the geographical coordinates of the boundaries of any ordinary high water marks (OHWM) that define WOTUS subject to permitting by the USACE will be determined using a hand-held GPS instrument with submeter accuracy. GIS shapefiles of these boundaries will be provided to RPS|Infrastructure for use in determining potential impacts to any WOTUS from the proposed culvert upgrade. Documentation of any NWP requirements at this crossing or at any other wastewater line stream or wetland crossings will be included in a technical memorandum prepared for and submitted to RPS|Infrastructure. It is assumed that nine hours of field work would be required by each of two ecology staff to complete this task based on the current alignment configuration. Additional changes to the alignment may require updated information that would be performed under a supplemental scope of work and fee estimate.

Task 2. Investigation of the Potential Occurrence of Threatened or Endangered Species

The project design will be reviewed to assure compliance with the federal Endangered Species Act (ESA). Information will be obtained and reviewed from databases maintained by the U.S. Fish and Wildlife Service (USFWS) and Texas Parks and Wildlife Department (TPWD) to determine county occurrence and the nearest known locations of potentially occurring species that are listed as threatened or endangered candidates for listing, or species of concern. A summary list of potentially occurring species will be prepared. Habitat requirements for potentially occurring species will be investigated, including research of information contained on maps and aerial photography. Based on information obtained for potentially occurring species, range and distribution of the species, habitat requirements of the species, and field investigation, a determination will be made as to the likelihood of impacts and whether additional investigations or studies would be needed.

Task 3. Investigation of the Potential Occurrence of Cultural Resources

The cultural resources scope of services will consist of coordination with the Texas Historical Commission (THC) and the City of Kyle. In addition, because of potential USACE involvement, this project may fall under guidelines of Section 106 of the National Historic Preservation Act (NHPA). If so, it is anticipated that the THC will review the final report for Section 106 compliance. Archival background research will be conducted in the THC Sites Atlas to identify previously recorded historic and archeological sites and surveys in the proposed project area. A coordination letter will be prepared, in consultation with the client, to introduce the project to the THC and to present recommendations to achieve project regulatory clearance under the Antiquities Code of Texas (ACT) and Section 106, if necessary, for the project to proceed to construction.

If a survey is recommended by the THC, Hicks & Company's principal investigator will procure an antiquities permit on behalf of the client and the City of Kyle to conduct the investigations. Following completion of any necessary investigations, a report will be prepared for review by RPS|Infrastructure and the City of Kyle detailing the results of the field work. Once approved by both, the report will be submitted to the THC for their review and comment. The report will coordinate all requirements necessary to achieve regulatory clearance including State Antiquity Landmark (SAL) and National Register of Historic Places (NRHP) eligibility recommendations for all documented sites, and avoidance

strategies for any such locales. The project assumes that RPS|Infrastructure and/or the City of Kyle will achieve right of entry to all required locations. It is assumed that 42 hours will be required in total to complete field work based on a single alignment configuration and that backhoe trenching will be required by the THC for segments of the proposed alignment. Additional changes to the alignment may require updated information that would be performed under a supplemental scope of services and fee estimate. The scope does not include any additional archeological investigations recommended by the THC subsequent to the survey and coordination of the technical reports. If recommended by the THC, these services can be arranged under a separate scope and budget.

Task 4. Identification of Sensitive Environmental Features

The potential occurrence of sensitive environmental features occurring within the project area will be investigated. These features will include streams or stream tributaries and associated streambeds, floodplains, wildlife habitat exhibiting high value, and karst features. Portions of the project lie over the Edwards Aquifer Transition Zone. Potential occurrence of karst features will be investigated by evaluating maps depicting karst zones and potential occurrence of endangered karst species. If needed or required, a Phase 1 survey of karst features, including review of existing literature and databases with a field search for karst features, and a Phase 2 detailed examination of karst features would be supplemental to this scope of work. An investigation to determine the presence of documented hazardous materials sites will be conducted by referencing state and federal databases. Results of searches of existing American Standards for Testing and Materials (ASTM) hazardous materials databases will be incorporated as an appendix to the environmental constraints technical memorandum.

Task 5. Document Preparation

The evaluations described in Tasks 1 through 4 will include the results of the determination of jurisdictional WOTUS and identification of required permits; summaries of the investigations to determine potential occurrence of threatened or endangered species; archeological resources; and sensitive environmental features. All of this documentation will be included or referenced in a technical memorandum submitted to RPS|Infrastructure.

This Updated Scope of Work and fee estimate does not include the services listed below. If needed or required, such services would be performed under a supplemental scope of services and fee estimate.

1. Preparation and coordination of an Individual Section 404 Permit to the USACE;
2. Preparation and coordination of a NWP PCN to the USACE;
3. Coordination with the USFWS under Sections 7 or 10 of the ESA if endangered species may be affected by the project;
4. Presence/absence surveys of threatened or endangered species;
5. Phase 1 Environmental Site Assessment (Results of a Hazardous Materials Data Search will be provided and cost of the database search is included in the attached Fee Estimate)
6. Phase 1 and Phase 2 karst surveys;
7. Tree surveys;
8. Systematic vegetation inventories; and
9. Surface or subsurface excavation to investigate contamination from hazardous materials.

Study Area:

The study area will include the pipeline alignment corridor defined by maps to be provided by RPS|Infrastructure and an additional 200 feet upstream and downstream of the Plum-1 crossing at South Sledge Street. GIS shapefiles of the proposed alignment will be provided by RPS|Infrastructure to allow downloading of geographical coordinates to a handheld GPS instrument prior to field investigation.

Deliverables:

1. Shapefiles of any identified WOTUS at the Plum-1 stream crossing at S. Sledge Street will be provided to RPS|Infrastructure for integration into the design plan to assist in determining potential impacts.

2. A technical memorandum will be prepared that will summarize results of the investigations described in Tasks 1 through 4. The technical memorandum will include an environmental constraints map, tables and figures that support summary findings, and results of a hazardous materials data search.

3. A coordination letter and a permit application and will be prepared for submission to the THC for purposes of regulatory clearance under the ACT.

4. An archeological survey report will be prepared for submission to the THC for purposes of regulatory clearance.

Schedule:

Deliverables will be submitted according to a schedule mutually acceptable to Hicks & Company and RPS|Infrastructure.

Other Assumptions:

1. The project will not require state or federal funding.

2. National Environmental Policy Act (NEPA) environmental documentation will not be required.

3. Design maps and plans will be provided in a GIS-compatible format by RPS|Infrastructure.

4. Rights of entry will be obtained and coordinated by RPS|Infrastructure.

5. If substantial changes occur to the interceptor alignments to require reevaluations after field investigations or a majority of baseline data collection has occurred, such reevaluations will be supplemental to this Updated Scope of Services.

6. Costs are included for estimating projected fees; billing will be based on actual rates.

HICKS & COMPANY

UPDATED FEE ESTIMATE

City of Kyle Elliott Branch Wastewater Interceptor

November 27, 2018

Labor

Description	Sr. Program Manager Hours	Sr. Env'l Scientist III Hours	Env'l Scientist III Hours	Env'l Scientist II Hours	Env'l Profess. III Hours	Env'l Profess. II Hours	Env'l Profess. I Hours	Env'l Staff I Hours	Env'l Tech I Hours	Total Hours	
Task 1 Evaluation of Section 404 Waters of the U.S.											**Task Totals**
Site reconnaisance/evaluaton		9				9				18	
GIS Support					5					5	
Project Mgmt, Coordination, and QC		2								2	**$3,028.87**
Task 2 Investigation of Endangered Species											
Habitat Assessment and Database review		6								6	
GIS Support					2					2	
Project Mgmt, Coordination, and QC		2								2	**$1,405.30**
Task 3 Investigation of Cultural Resources											
Project Management				3						3	
THC Coordination				9						9	
Field Survey				25		17				42	
THC Report Production		1		32		10				43	
GIS Support					6					6	
Historic Structures Assessment					2					2	
Curation				5					16	21	**$13,257.74**
Task 4 Identification of Sensitive Environmental Features											
Database Review and Assessment		3								3	
Summarize Hazmat Data Search		2				10				12	
GIS Support					2					2	
Project Mgmt, Coordination, and QC		2								2	**$2,212.60**
Task 5 Preparation of Report											
Technical Memo Document Production	2	46					4			52	
GIS Support					4					4	
Project Mgmt, Coordination, and QC		2								2	**$8,300.24**
Total Labor Hours	2	75	0	74	21	46	4	0	16	238	238
Billing Rate	$179.40	$149.50	$128.57	$119.60	$104.65	$95.68	$86.71	$68.77	$52.33		**$28,204.75**
SUBTOTAL: Labor	$ 358.80	$ 11,212.50	$ -	$ 8,850.40	$ 2,197.65	$ 4,401.28	$ 346.84	$ -	$ 837.28	$ 28,204.75	

Additional Expenses	Unit	Quantity		Rate						Total	
Hazardous Materials Data Search	Report	1		$1,000.00						$ 1,000.00	
Mileage	Per Mile	150		$0.545						$ 81.75	
Site Forms	Each	2		$90.00						$ 180.00	
Field Supplies	Day	1		$50.00						$ 50.00	
Curation	Drawer	1		$180.00						$ 180.00	
Backhoe and operator (if required)	Day	1		$2,000.00						$ 2,000.00	
SUBTOTAL: Additional Expenses										$ 3,491.75	
TOTAL COST										**$ 31,696.50**	

McGRAY & McGRAY
LAND SURVEYORS, INC.

April 2, 2019

Stephanie Blew, P.E.
RPS Group
4801 Southwest Pkwy
Parkway 2, Suite 150
Austin, TX 78735
(512) 328-5771

VIA EMAIL
stephanie.blew@rpsgroup.com

RE: Second Revised Proposal for Topographic Design Surveying Services for Elliott Branch WW Interceptor, Kyle, Texas.

Dear Ms. Blew:

We appreciate the opportunity to present you with this second revised proposal for the above referenced project. The following represents our understanding of the area to survey, scope of services, and our fee proposal.

Area to Survey:

- Three Areas and Area Highlighted in "Red" as shown on Exhibit "A"

Scope of Services:

Survey Control:

- We will be using the same control as used in the prior work we performed for RPS.
- Establish at least three (3) TBM's for this project.

Design Survey (Areas 1 & 2):

- A topographic design survey of the areas identified as 'Area 1 & Area 2' in Exhibit "A" with intervals not to exceed 50-feet, including any grade breaks.
- Cross sections of existing streets will extend 5-feet beyond each of the right-of-way lines.
- Locate and identify all above ground features within the survey limits including, fences, driveways, guardrails, signs, including visible utilities, manholes, water valves, telecom boxes, utility poles and water meters.
- Locate and identify types of existing pavement surfaces for streets, driveways, etc.

- Invert elevations and size/type of utility and drainage pipes and culverts shall be identified for all manholes and culverts within the project limits.
- Contact the City of Kyle to have them mark their underground utilities within the street right-of-way and locate their marks.
- Locate the SUE designation marks established by The Rios Group.
- Locate trees 6-inches in diameter or larger.

Design Survey (Area 3):

- Perform a topographic design survey of Lot 1, Blk A, Bradford Meadows Subdivision, which is the location of the existing Lift Station and identified as Area 3' in Exhibit "A", with elevation intervals not to exceed 50-feet, including any grade breaks.
- Locate and identify all above ground features within the survey limits including, fences, driveways, guardrails, signs, including visible utilities, manholes, water valves, telecom boxes, utility poles and water meters.
- Locate and identify types of existing pavement surfaces for streets, driveways, etc.
- Invert elevations and size/type of utility and drainage pipes and culverts shall be identified for all manholes and culverts within the project limits.
- Contact the City of Kyle to have them open manholes that may be bolted.
- Locate the SUE designation marks established by The Rios Group.

Areas Highlighted in "Red":

- Contact the City of Kyle to have them mark their underground utilities within the highlighted areas in "Red" on Exhibit "A" and locate their marks.
- Locate SUE designation marks established by The Rios Group.
- Obtain wastewater manholes with size, type, and invert information noted.

(No Topographic Survey will be performed within the Red highlighted Area)

Deliverables:

A. Survey shall be provided in AutoCAD (.dwg) format.

B. The units of the drawing file shall be U.S. survey feet.

Fees:

Design Survey (Non-taxable):

2 Man Crew	110 hrs @	$150.00 /hr.=	$	16,500.00
Field Coordinator:	6 hrs @	$98.00 /hr.=	$	588.00
Sr. Tech:	55 hrs @	$96.00 /hr.=	$	5,280.00
Tech:	110 hrs @	$82.00 /hr.=	$	9,020.00
RPLS:	14 hrs @	$145.00 /hr.=	$	2,030.00
Project Manager:	3 hrs @	$165.00 /hr.=	$	495.00
		TOTAL =	**$**	**33,913.00**

Once we receive notice to proceed, we will visit with you to establish a schedule for this project.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let Chris Conrad or Joe Webber know.

Sincerely,

Judith J. McGray, RPLS
President
TBPLS Firm #10095500

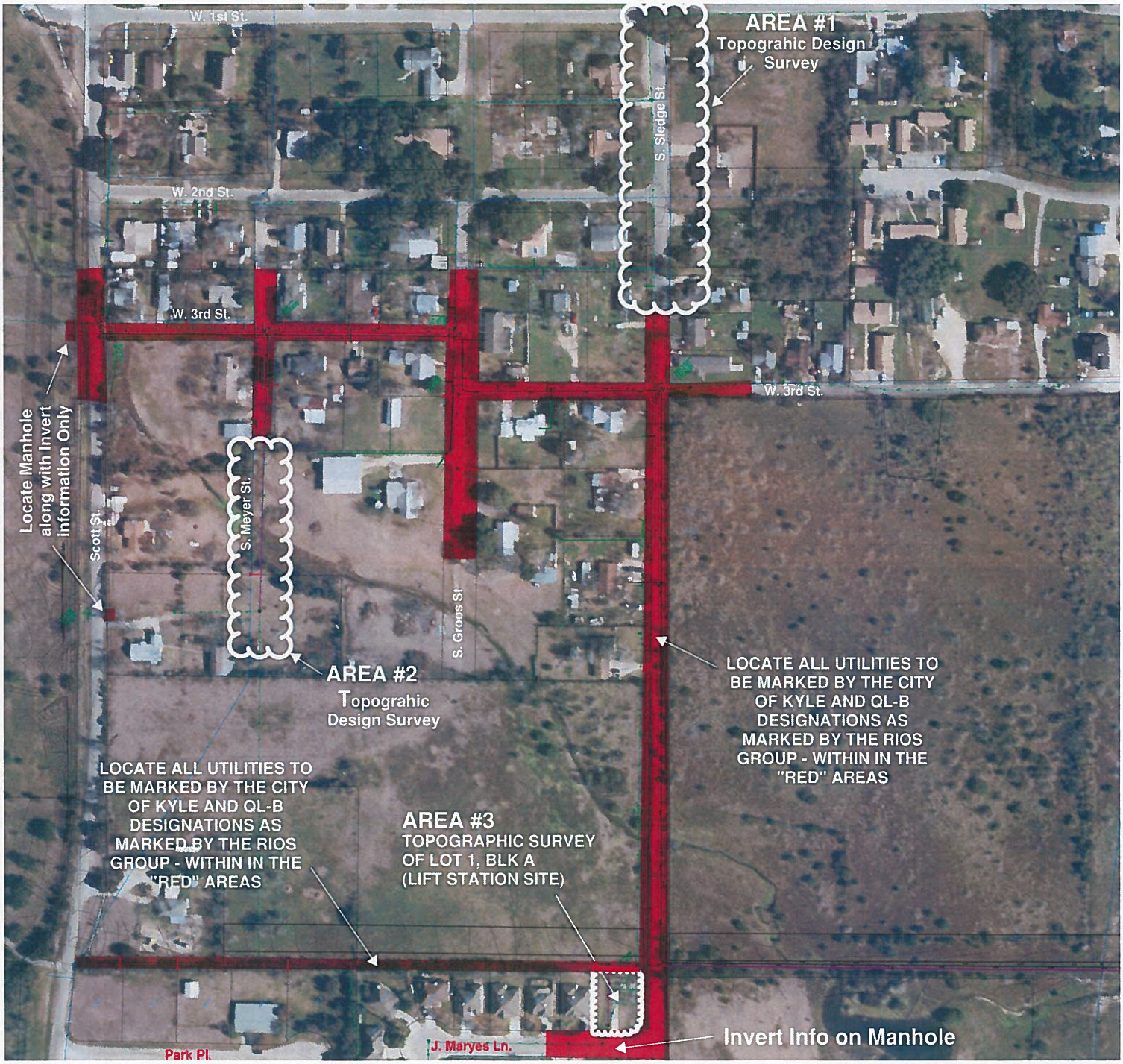
Authorized to Proceed by:

Signature Date

Print Name Title

JJM:CIC:klr
Encl.

EXHIBIT "A"


W. 1st St.
AREA #1
Topograhic Design Survey
S. Sledge St.
W. 2nd St.
W. 3rd St.
W. 3rd St.
Locate Manhole along with Invert information Only
Scott St.
S. Meyer St.
S. Groos St.
AREA #2
Topograhic Design Survey
LOCATE ALL UTILITIES TO BE MARKED BY THE CITY OF KYLE AND QL-B DESIGNATIONS AS MARKED BY THE RIOS GROUP - WITHIN IN THE "RED" AREAS
LOCATE ALL UTILITIES TO BE MARKED BY THE CITY OF KYLE AND QL-B DESIGNATIONS AS MARKED BY THE RIOS GROUP - WITHIN IN THE "RED" AREAS
AREA #3
TOPOGRAPHIC SURVEY OF LOT 1, BLK A (LIFT STATION SITE)
Invert Info on Manhole
Park Pl.
J. Maryes Ln.

FUGRO USA LAND, INC.

8613 Cross Park Drive
Austin, Texas 78754
Phone: 512-977-1800
Fax: 512-973-9966

RPS Infrastructure
4801 Southwest Parkway, Parkway 2, Suite 150
Austin, Texas 78735

Proposal No. 04.30181020
June 20, 2018

Attention: Ms. Stephanie Blew, P.E.

Scope of Work and Cost Proposal
Limited Geotechnical Engineering Services
Elliot Branch Wastewater Interceptor Improvements
Kyle, Texas

Fugro USA Land, Inc. (Fugro) is pleased to present this proposed scope of work and cost proposal to RPS for providing geotechnical engineering services for the Elliot Branch Wastewater Interceptor Improvements in Kyle, Texas.

We have received an annotated proposed layout and have discussed the project with RPS. The Elliot Branch Wastewater Interceptor is approximately 9,500 lf with a 1,500 lf wastewater collector near Scott Street and will be constructed using open cut construction, except for two trenchless crossings below Interstate Highway 35 and existing Union Pacific railroad tracks, which will likely be completed using conventional jack and bore techniques. The proposed Elliot Branch alignment crosses a meandering intermittent stream in several places, and preliminarily open cut construction is being considered for these locations. The invert of the interceptor will be about 15 to 16 ft below existing ground. Pavement thickness determinations are also to be supplied for 3rd Street and Sledge Street.

According to geologic maps, the project area is located in a geologically complex and faulted area. The alignment is underlain by mapped outcrops of the Austin Group, Pecan Gap, the Leona formations and terrace deposits from the ancient flood plain of the Blanco River. The maps also indicate several north-east trending faults in the immediate vicinity of the project, some of which are likely hidden by the alluvial deposits. There may also be unmapped faults.

Scope of Work

The following scope of services is proposed. At this time, we see the following Tasks as part of a limited Geotechnical Scope of Services.

Task 1 – Subsurface Investigation. The limited subsurface investigation will consist of the following basic elements.

- Drilling fourteen (14) 20-ft deep pipeline borings approximately spaced as shown on the drawing provided by RPS for the interceptor;
- Drilling 3 shallow borings to a depth of 5 ft in 3rd and Sledge Streets to obtain samples for testing and pavement thickness determinations;
- Coring the bedrock continuously at the boring locations with NQ size core barrel;
- Logging the borings as they are drilled;
- Storing core in core boxes;
- Bailing open boreholes to obtain a 24-hour water level reading;
- Backfilling open boreholes with bentonite pellets and/or cement/bentonite mixture, and road patching materials; and
- Installing 2 piezometers, one at each IH-35 and Union Pacific railroad crossing. The piezometers will become the property of the City of Kyle and will also be registered with the Texas Water Development Board.

Task 2 - Laboratory Services. In-house laboratory services will include the following:

- Moisture Contents and Unit Dry Weight determinations.
- Sieve Analyses (No. 4, 40 and 200).
- Liquid and Plastic Limit determinations.
- Unconfined Compression Tests.
- Sulfate Content Tests.

Task 3: Engineering and Design. The engineering services will be directed towards compilation of a Geotechnical Data Report (GDR) for the interceptor, and a Geotechnical Design Memorandum (GDM) for the open cut sections and pavement thickness recommendations for portions of 3rd Street and Sledge Street where utility work is expected. The pavement subgrade values for the resilient modulus (MRI) to be used for pavement thickness design will be based on published empirical correlations with laboratory-determined Atterberg limits, engineering judgment and past experience with roadways in this area. A Geotechnical Baseline Report is

excluded from this scope of work. Various subtasks associated with this investigation are presented:

Task 3.1 – Compile Geotechnical Data Report (GDR). Compile all field and laboratory testing into a report complete with boring logs, and laboratory and test results.

Task 3.2 –Geotechnical Design Memorandum (GDM) for Open Cut Sections. The GDM will address pavement thickness recommendations for streets where utility work is expected, excavation potential, stable slopes for construction, groundwater conditions at the time of construction and effects on construction, and earthwork recommendations.

We anticipate preparing a 100% draft GDR consisting of the borings, laboratory data and piezometer readings upon completion of the borings and lab testing. A final GDR will be issued after resolution of any comments. Similarly, we anticipate preparing a draft 100% GDM and a final GDM upon resolution of all comments.

Cost Estimate

Based on the scope of work outlined above and the attached Fee Schedule G-2017, our estimated fee is presented on Attachment 1. This cost estimate is based on the following:

1. Boring locations will be established by Fugro by measuring distances from existing site features and road intersections, or by use of a handheld GPS unit with provided latitude and longitude coordinates. Boring locations and elevations should then be established by your surveyors;
2. Piezometers installed for this geotechnical investigation will become the property of the City of Kyle and will be registered with the Texas Water Development Board;
3. Boring locations will be easily accessible with truck-mounted drilling equipment;
4. Fugro will contact DigTESS or Texas One-Call to clear utilities prior to mobilization;
5. Fugro will obtain TxDOT permits and night time drilling will not be required;
6. Samples will be discarded 30 days after report publication;
7. Right of entry, right to drill and right to limited clearing will be obtained by others;
8. A budget for limited site clearing and hauling cuttings, and hourly rate for difficult maneuvering of the drill rig is planned; and
9. Funds can be shifted between categories.

The estimated fee may be exceeded if site conditions are significantly different than anticipated or changes in work are required or requested. However, the estimated maximum fee will not be exceeded without the client's prior authorization. Required additions to the above scope of services would be invoiced in accordance with the attached fee schedule.

Schedule

Weather and site conditions permitting, field operations will begin within one to two weeks after authorization to proceed. Field operations will start with staking of borings and notifying One-Call, which should take about one week. It is anticipated that drilling these borings will take 1 to 2 weeks to complete. A summary of our proposed schedule is presented in the table below. We will keep you verbally informed of our findings as they become available.

Activity	Schedule
Site coordination of drill rig access, TxDOT permit submittal, staking of borings, DigTess Notification	2 weeks from NTP and receipt of all permits
Drilling of Borings	1 to 2 weeks
Laboratory Testing	2 weeks
Logs and Lab Data	1 weeks
Preparation of Geotechnical Data Report	2 weeks
Preparation of Geotechnical Design Memorandum	2 weeks
Total	**10 to 11 weeks**

Terms and Conditions

Fees for field work, laboratory testing, and report preparation are outlined in Schedule G-2017. Schedule 40.01 describes general contractual conditions including identification of client, on-site responsibilities and risks, warranty, invoicing procedures, and record and sample maintenance. Schedules G-2017 and 40.01 are attached to this proposal.

* * *

To indicate acceptance of this proposal, please have the signature block below signed by a duly authorized representative of the client, and return one copy to us for our files. Whoever signs below is identified as our Client as used throughout Schedule 40.01 attached.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. Please call us if we can be of any additional assistance.

Sincerely,

FUGRO USA LAND, INC.
TBPE Firm Registration No. F-299

Bryan E. Rose, P.E.
Senior Project Manager

Peter H. Bush, P.E.
Senior Vice President

PHB/BER/lt(w/g/project files/2018/P04.30181020)
Attachments:
Attachment 1 – Cost Estimate
Attachment 2 - Schedule 40.01
Attachment 3 – Fee Schedule G-2017

C L I E N T:

_____
Firm Name

_____
Authorizing Signature

_____
Typed Name & Title

_____
Date

Attachment 1
Cost Estimate for Geotechnical Services
Elliot Branch Wastewater Interceptor Improvements
Kyle, Texas

	1. Field Investigation	**Quantity**	**Unit**	**Rate**	**Subtotal**
	Coordination, Utility Clearance, Supervision, Staking of Borings, Field Logging, Piezometer Data Collection				
1.1	Mobilization	1	each	$500.00	$500.00
1.3.1	Drilling and Sampling - Soil	145	feet	$19.00	$2,755.00
1.6.1	Drilling and Sampling - Soft Rock	150	feet	$27.00	$4,050.00
1.4	Standard Penetration Tests	30	each	$26.00	$780.00
1.9	Hourly Charge for Drill Crew Standby Time: Access, Maneuvering, Piezometers, Patching Street Borings, etc.	10	hour	$200.00	$2,000.00
1.16	Plugging of Boreholes	240	feet	$8.00	$1,920.00
4.1	Site Clearing for Rig Access (Cost +5%)	1	allow	$2,800.00	$2,800.00
1.13	Traffic Control	1	day	$2,400.00	$2,400.00
1.9	Piezometer Installation (2 at 20 ft) with Surface Completion	8	hour	$200.00	$1,600.00
3.2	Senior Project Manager	5	hour	$190.00	$950.00
3.7	Graduate Professional	32	hour	$105.00	$3,360.00
3.8	Logger	50	hour	$90.00	$4,500.00
				Subtotal	**$27,615.00**

	2. Laboratory Investigation	**Quantity**	**Unit**	**Rate**	**Subtotal**
2.1	Moisture Contents	10	each	$16.00	$160.00
2.2	Atterberg Limit Determinations	10	each	$70.00	$700.00
2.6	Sieve Analysis	10	each	$70.00	$700.00
2.22	Soluble Sulfate	4	each	$95.00	$380.00
2.11	Unconfined Compression Tests - Soil	10	each	$65.00	$650.00
2.12	Unconfined Compression Tests - Rock	4	each	$70.00	$280.00
2.13	Unconsolidated-Undrained Triaxial Compression Test	3	each	$75.00	$225.00
				Subtotal	**$3,095.00**

	3. Technical Services	**Quantity**	**Unit**	**Rate**	**Subtotal**
	Logging, Laboratory Assignment, Report Preparation				
3.7	Graduate Professional	10	hour	$105.00	$1,050.00
3.9	Drafting	10	hour	$75.00	$750.00
3.1	Word Processing	2	hour	$65.00	$130.00
				Subtotal	**$1,930.00**

	4. Engineering Services (GDR, GDM)	**Quantity**	**Unit**	**Rate**	**Subtotal**
3.2	Senior Project Manager	15	hour	$190.00	$2,850.00
3.4	Project Engineer	23	hour	$150.00	$3,450.00
3.7	Graduate Professional	10	hour	$105.00	$1,050.00
				Subtotal	**$7,350.00**
			Elliot Branch Interceptor		**$39,990.00**

ATTACHMENT A-4

5550 LBJ Freeway, Suite 610
Dallas, Texas 75240

12830 Willow Centre Dr., Suite A
Houston, TX 77066

99 Regency Parkway, Suite 105
Mansfield, Texas 76063

DBE/WBE/HUB
Stateside
Right of Way Services

6208 West Adams Ave.
Temple, Texas 76502

June 26, 2018

RPS Group
Stephanie Blew, P.E.
Senior Project Manager
4801 Southwest Parkway
Parkway 2, Suite 150
Austin, Texas 78735

Re: Proposal for securing Right of Entries (ROE) in RPS of Kyle, Texas – Elliott Branch Project and the Edward Business Park

RIGHT OF WAY SCOPE OF SERVICES

Stateside agrees to perform consulting services in connection with the Elliott Branch Project and the Edward Business Park.

RIGHT OF ENTRIES

Stateside will complete right of entry agreements for the Elliott Branch Project and the Edward Business Park parcels.

- Stateside will identify the subject property, verified by the County or its representatives.
- Stateside will request title and verify ownership of approved parcel through on line search.
- Stateside will send a request for a ROE, via mail or email, to the landowner/s:
  - Address as posted on tax documentation in the Hays County Tax Assessors Office.
  - Additional addresses as deemed appropriate or requested by landowner/s or landowner/s representative
    - Letter/s will include authorization for access (Right of Entry "ROE") for agents and consultants of RPS, the RPS of Kyle or their assigns:
      - Stateside Agents
      - Surveyor/s
      - Appraiser/s
      - Geotechnical investigations
      - Environmental
      - Other requests, as later specified
    - Request for Contact Information
      - Name
      - Phone
      - Email
      - Address
    - Landowner Bill of Rights
    - Acknowledgement of Receipt
    - Self-Addressed Stamped Envelope

RIGHT OF ENTRIES – (cont'd)

- If the landowner does not contact the agent within a day or two of receiving the Introductory Packet, Stateside will research contact information.
- If needed, Stateside will meet with the owner/s at the property to discuss the proposed project.
- All information is entered into the data base, logged onto the tracker and placed in an electronic and paper file for each parcel.

Reporting:
Stateside will maintain office files containing copies of completed notices and forms, contacts and discussions and project status reports, as required. RPS will have access to files and will be cc'd on email correspondence. Additional exhibits will be available through RPS, if needed. Stateside will notify RPS if a landowner retains an attorney and makes that information available to Stateside.

Invoice:
Stateside accounting requires invoicing on a month end basis. Payment is expected within 30 days of the date of the invoice.

Fees:
Right of Entry Services:

• **Right of Entries - $1500 per ROE**	**$19,500**
• **Mileage – up to 1,000 miles**	**$ 545**
	$ 20.045

Milestone Payments:
The fees will be submitted on a milestone basis:

- **Right of Entry**
  - Set up 20%
  - Send ROE Packet 50%
  - Receive ROE 30%

Thank you for this opportunity and we look forward to working with you and your team.

Sincerely,
STATESIDE RIGHT OF WAY SERVICES, L.L.C.

Diane Burkhardt Valek
President

McGRAY & McGRAY
LAND SURVEYORS, INC.

March 16, 2017

Mr. Wade Benton
RPS
4801 Southwest Parkway
Parkway 2, Ste. 150
Austin, TX 78735
(512) 326-5659

VIA E-MAIL
wade.benton@klotz.com

RE: Proposal for Additional Design Surveying Services for the Elliot Branch Wastewater Interceptor Improvements Project in Kyle, Texas

Dear Mr. Benton:

We appreciate the opportunity to present you with this proposal for additional design surveying services for the above referenced project. The following represents our understanding of the services being requested.

Survey Limits:

- The survey limits are approximately shown on the attached exhibit.

Scope of Services:

- Provide a 75 foot wide topographic survey (edge of pavement to 50 feet inside private property), based on NAVD 88, with reference to benchmark provided and development of one-foot interval contours. Vertical control will be established at an accuracy of 0.01 feet. The survey will also include locations of physical features that may be affected by construction, including sidewalks (type), driveways (type), roadways, railroads, fences (type), walls, signs, mail boxes, planters, sheds, rock outcroppings, manholes, cleanouts, meter boxes, valve boxes, curbs (back of curb and lip), structures, etc. Invert information will be provided for all accessible manholes.
- Surveyed features located horizontally relative to NAD 83 State plane coordinates. Horizontal control will be carried to second order accuracy.
- Tree survey of trees 8" or larger. If this needs to be 6", please let me know so we can revise our proposal.
- It is our understanding that right of entry will be obtained by the City of Kyle or a representative and that task is not included in this proposal.

Fee:

2 Man Crew:	28 hrs @	$150.00 /hr.=	$	4,200.00
Field Coordinator:	1 hrs @	$98.00 /hr.=	$	98.00
Sr. Tech:	14 hrs @	$96.00 /hr.=	$	1,344.00
Tech:	28 hrs @	$82.00 /hr.=	$	2,296.00
RPLS:	1 hrs @	$145.00 /hr.=	$	145.00
Project Manager:	0.5 hrs @	$165.00 /hr.=	$	82.50
	LUMP SUM FEE TOTAL=		**$**	**8,165.50**

We can start this project immediately after receipt of notice to proceed. We estimate this project will take approximately 3 to 4 weeks to complete, weather and circumstances beyond our control permitting. If you need us to accelerate this schedule, please let us know so we can configure our staff accordingly.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let me know.

Sincerely,

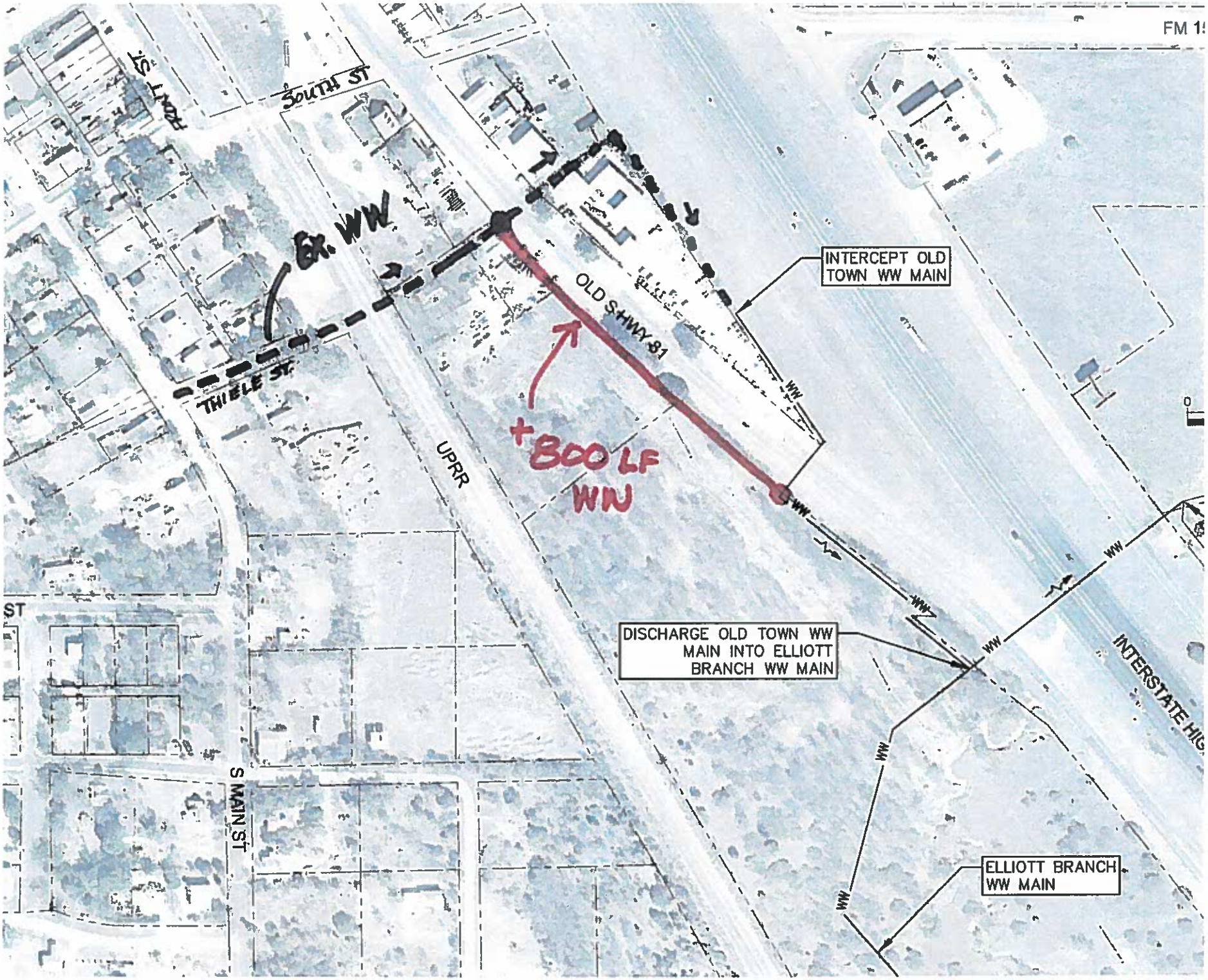
Chris Conrad, RPLS
Vice President
TBPLS Firm# 10095500

Authorized to Proceed by:

Signature Date

Print Name Title

CIC: klr
encl.


FM 1
South St
Front St
Ex. WW
OLD S HWY 81
INTERCEPT OLD TOWN WW MAIN
THIELE ST
+800 LF WW
UPRR
DISCHARGE OLD TOWN WW MAIN INTO ELLIOTT BRANCH WW MAIN
S MAIN ST
ELLIOTT BRANCH WW MAIN
WW

McGRAY & McGRAY
LAND SURVEYORS, INC.

April 2, 2019

Stephanie Blew, P.E.
RPS Group
4801 Southwest Pkwy
Parkway 2, Suite 150
Austin, TX 78735
(512) 579-3340

VIA EMAIL
stephanie.blew@rpsgroup.com

RE: Second Revised Proposal for Additional Topographic Design Surveying Services for Elliott Branch WW Reclaim Interceptor Line, Kyle, Texas.

Dear Ms. Blew:

We appreciate the opportunity to present you with this second revised proposal for additional services for the above referenced project. The following represents our understanding of the area to survey and scope of services. Our fee proposal follows.

Area to Survey:

- As shown on Exhibit "A", attached.

Scope of Services:

Survey Control:

- We will use the same control as we used previously on the Elliott Branch WW Interceptor project.
- We will also tie the vertical datum to a FEMA Benchmark.

Topographic Design Survey (Area Highlighted in "Red" on Exhibit "A"):

- A topographic design survey of the area highlighted in "Red" on Exhibit "A", being 50' wide and located easterly of and parallel with, the Proposed Wastewater Interceptor line. Spot elevations will not to exceed 50-feet intervals and will include any grade breaks.
- Locate and identify all above ground features within the survey limits including, fences, signs, visible utilities, manholes, water valves, telecom boxes, utility poles and water meters.
- Invert elevations and size/type of utility and drainage pipes and culverts shall be identified for all manholes and culverts within the project limits.
- Contact the City of Kyle to locate their utilities.
- Locate the utilities marked by the City of Kyle and all SUE designation marks set by The Rios Group.
- Locate of trees 8-inches in diameter or larger.

Location of Environmental Markings (Areas Highlighted in "Yellow" on Exhibit "A"):

- Obtain the location of pin flags set by Hicks & Co. within the areas highlighted in "Yellow" on Exhibit "A".

Manholes along Old S. Hwy 81 & IH 35 southbound feeder road (Area Highlighted in "Green" on Exhibit "A"):

- Obtain information for the manholes within the area highlighted in "Green" on Exhibit "A". If these manholes are bolted shut, we will contact the City of Kyle to open them to collect the invert and pipe size information.
- Locate the utilities marked by the City of Kyle and all SUE designation marks set by The Rios Group.

Deliverables:

- Survey shall be provided in AutoCAD (.dwg) format.
- The units of the drawing file shall be U.S. survey feet.

Fees (Non-taxable):

2 Man Crew	110 hrs @	$150.00 /hr.=	$	16,500.00
Field Coordinator:	6 hrs @	$98.00 /hr.=	$	588.00
Sr. Tech:	55 hrs @	$96.00 /hr.=	$	5,280.00
Tech:	110 hrs @	$82.00 /hr.=	$	9,020.00
Research:	8 hrs @	$72.00 /hr.=	$	576.00
RPLS:	16 hrs @	$145.00 /hr.=	$	2,320.00
Project Manager:	2 hrs @	$165.00 /hr.=	$	330.00
Title Reports:		$600.00	$	600.00
		TOTAL =	**$**	**35,214.00**

Once we receive the notice to proceed, we will get the project scheduled.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let Joe Webber or Chris Conrad know.

Sincerely,

Judith McGray, ~~RPLS~~
President
TBPLS Firm #10095500

Authorized to Proceed by:

Signature Date

Print Name Title

JJM:CIC:klr
encl.

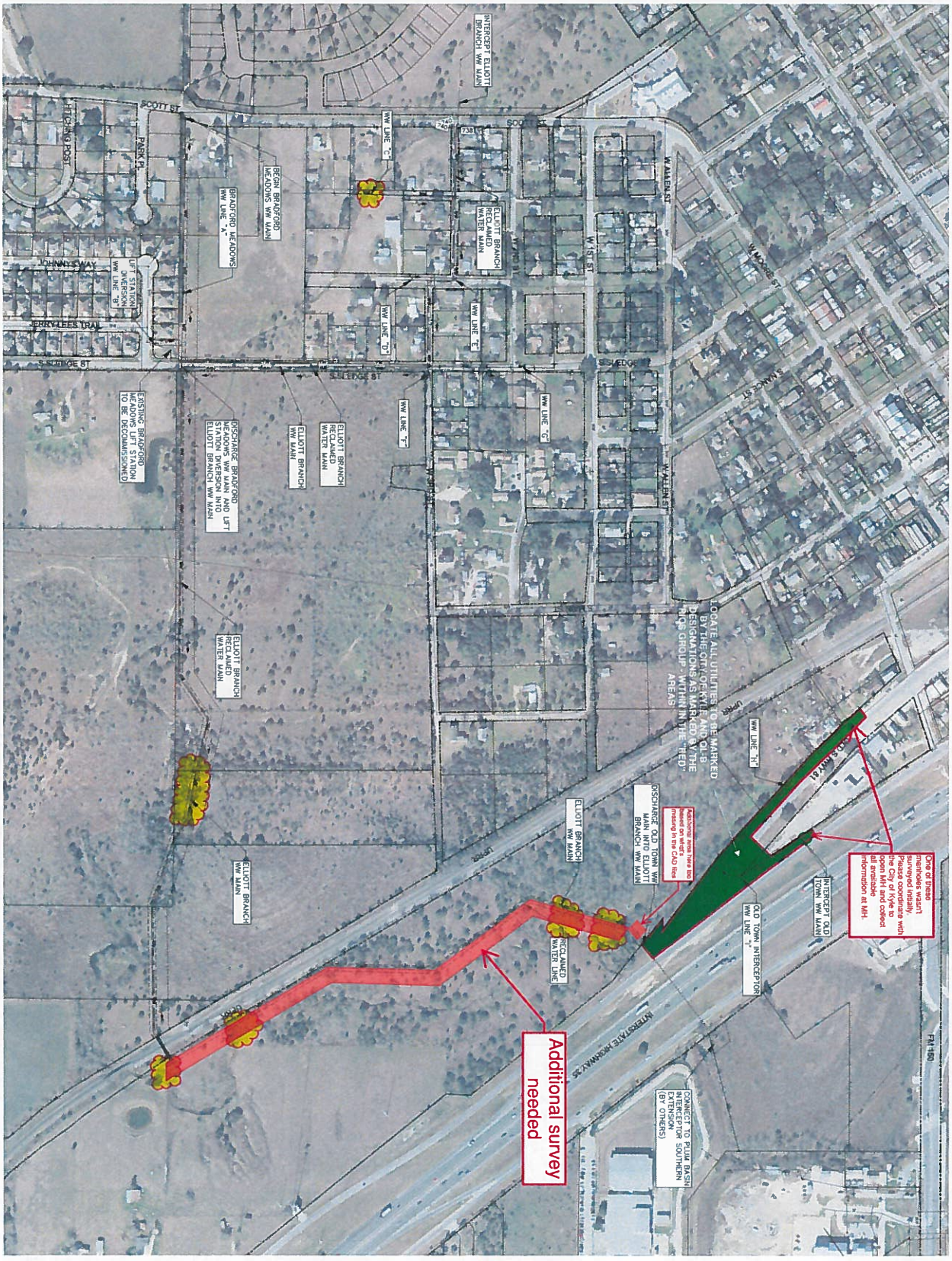
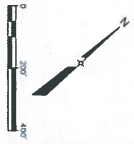


EXHIBIT "A"



NO.	DATE	REVISION/CORRECTION	BY

CHECKED BY WD DESIGNED BY AL DRAWN BY AL

SHEET 4 of 72

CITY OF KYLE
ELLIOTT BRANCH WASTEWATER INTERCEPTOR

OVERALL ALIGNMENTS

30% SUBMITTAL

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF STEPHANIE O. BLAW P.E. ON May 16, 2018. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING OR PERMIT PURPOSES.

RPS
A MEMBER OF THE RPS GROUP PLC
4801 Southwest Parkway,
Parkway 2, Suite 150
Austin, Texas 78735 (512)
326-5659
TBPE #F-293

THE RIOS GROUP

March 28, 2019

Stephanie Blew, P.E.
RPS
4801 Southwest Parkway
Parkway 2, Suite 150
Austin, TX 78735
T: 512.328.5771
Stephanie.Blew@rpsgroup.com

RE: Subsurface Utility Engineering
City of Kyle Elliott Branch Wastewater Improvements

Dear Ms. Blew:

The Rios Group, Inc. (TRG) is pleased to submit a cost proposal for Subsurface Utility Engineering (SUE) for the above referenced project. This proposal is based on information provided via email on March 25, 2019.

Introduction

TRG will perform SUE services for this project in general accordance with the recommended practices and procedures described in ASCE publication CI/ASCE 38-02 "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." As described in the publication, four levels have been established to describe and depict the quality of subsurface utility information. The four quality levels are as follows:

- Quality Level D (QL"D") – Information obtained from existing utility records.
- Quality Level C (QL"C") – Surveyed data depicting visible above-ground features supplemented with QL"D" information.
- Quality Level B (QL"B") – Two-dimensional horizontal information obtained through the application and interpretation of non-destructive surface geophysical methods. Also known as "designating," this level incorporates QL"C" information and provides horizontal positioning of subsurface utilities to within approximately 1.0 foot.
- Quality Level A (QL"A") – Three-dimensional horizontal and vertical information obtained through non-destructive vacuum excavation equipment to expose utilities at critical points. Also known as "locating," this level incorporates QL"B" information and provides horizontal and vertical positioning of subsurface utilities to within approximately 0.05 feet.

Scope of Work

Based on information provided by RPS (Client), TRG has developed a proposed scope for SUE services on this project. This scope may be modified, with Client and TRG concurrence, during the performance of work if warranted by changing or unexpected field conditions.

The scope of this proposal includes QL"A" and QL"B" SUE services for the City of Kyle Elliott Branch Wastewater Improvements project. The limits of the SUE investigation area are highlighted in red on Exhibit B (two separate areas). TRG will attempt to designate the following utilities within these areas: chilled water, natural gas/crude oil/refined product pipelines, communication duct banks, fiber optic, cable television, telephone, and electric. Storm drain facilities will be inverted at manholes, and will be depicted as QL"C" information. Potable water, reclaimed water, and sanitary sewer facilities are not included in this scope of work. Irrigation lines and utility services lines are also excluded from this scope of work. Additionally, an inventory of overhead utilities is not included in this scope of work.

This proposal also includes **twenty (20) QL"A" SUE test holes** at locations that will be determined by the Client following a review of the QL"B" SUE data.

The survey of SUE field markings for the QL"B" SUE work is not included in this scope of work. It is assumed that the Client's surveyor will provide TRG with surveyed field markings (at no cost to TRG) for use in preparing the final deliverables. The survey of SUE field markings for the QL"A" SUE work is included in this scope of work. It is assumed that the Client will provide the necessary survey control information.

Any necessary Right-Of-Entry (ROE) permits, including railroad ROE, will be provided by the Client prior to the start of field work.

TRG Procedures

QL"D" and "C" – Records Research and Surface Feature Survey

It is the responsibility of the SUE provider to perform due-diligence with regard to records research and the acquisition of available utility records. The due-diligence provided for this project will consist of contacting the applicable One Call agency and associated utility owners/municipalities, visually inspecting the work area for evidence of utilities, and reviewing available utility record information. Additional utilities not identified through these efforts will be referred to as Unknown utilities.

QL"B" – Designating

Following a review of the project scope and available utility records with the project manager, TRG field personnel will begin designating the approximate horizontal position of known subsurface utilities within the project area. A suite of geophysical equipment that includes magnetic and electromagnetic induction will be used to designate conductive utilities. Where access is available, a sonde will be inserted into non-conductive utilities to provide a medium for transmission which can then be designated using geophysical equipment. Non-conductive utilities can also be designated using other proven methods, such as rodding and probing. TRG will make a reasonable attempt to designate Unknown utilities identified during field work; however, no guarantee is made that all Unknown utilities will be designated. Utilities will be marked and labeled to distinguish type and ownership. Field data depicting the designated utilities, as well as relevant surface features, will be produced to ensure accuracy and completeness of subsequent survey data. The TRG project manager will review the collected survey data, field data, and utility records for accuracy and completeness.

QL"A" – Locating

TRG will utilize non-destructive vacuum excavation equipment to excavate test holes at the requested locations. To layout the test holes, TRG will follow the *QL"B" – Designating* procedures described above. Once each utility is located, TRG will record the size, type, material, and depth. Test holes will be uniquely marked. Excavations will be backfilled by mechanical means with the appropriate material, and the original surface will be restored. If necessary, TRG can core pavement up to a depth of 12 inches. Asphalt surfaces will be repaired with an asphalt cold patch, and concrete cores will be epoxied in place, flush with the surrounding surface. TRG assumes that flowable fill will not be required when backfilling test holes and that full-section pavement repair (including sidewalks) will not be required to restore the original pavement surface. If requested, these services can be provided at an additional cost.

TRG will establish any necessary routine traffic control measures at no additional cost. However, if non-routine traffic control measures (lane closures, traffic detours, flagpersons, etc.) are required, this service will be invoiced as a direct expense. Due to the risk of damage, TRG will not attempt to probe or excavate test holes on AC water lines unless approval is obtained from the owner in advance. Additionally, excavation in rock, or to a depth greater than 18 feet, is considered beyond the scope of this proposal.

TRG has made the following assumptions with regard to the test holes on this project:

- All test holes will be accessible to truck-mounted vacuum excavation equipment.
- Right-Of-Way (ROW) permits from the City of Kyle will be required. TRG will obtain all required City permits and ensure that coordination and compliance with the City is provided.
- Designed traffic control plans will not be required.
- Non-routine traffic control measures will be required. TRG will acquire the services of a qualified Maintenance-Of-Traffic (MOT) Subcontractor, and ensure that adequate traffic control is provided.
- The coring of pavement will be required.

Deliverables

TRG will provide the following as a final deliverable to the Client:

- A utility file in CAD format depicting all designated and located utilities. The Client will provide TRG with any necessary background files for use in completing the final deliverables.
- A summary sheet of all test hole coordinate data and depth information.
- 8.5" x 11" Test Hole Data Forms for all test hole locations completed. These plans will be signed and sealed by a Professional Engineer and delivered to the Client in electronic PDF form.
- 11" x 17" SUE Plan Sheets depicting all designated and located utilities. These plans will be signed and sealed by a Professional Engineer and delivered to the Client in electronic PDF form.

Schedule

TRG can mobilize within three (3) weeks of receiving Notice-To-Proceed (NTP). TRG estimates that the QL"B" SUE work can be completed in twenty (20) working days, broken down as follows:

- QL"B" field work – 10 days
- QL"B" deliverable preparation – 10 days (following receipt of survey data)

TRG estimates that the QL"A" SUE work can be completed in twenty-five (25) working days following approval of the City permits, broken down as follows:

- QL"A" field work – 10 days
- QL"A" survey and preparation of data – 5 days
- QL"A" deliverable preparation – 10 days

Estimated Fee

The total estimated cost to complete the work described herein is **Sixty-Four Thousand Fifty Dollars and NO/100 ($64,050.00)**. An itemized breakdown of cost is provided in Exhibit A. Please note that these pricings are based on an assumption of quantities, and that only actual quantities will be invoiced – up to the total Contract amount.

We look forward to working with you on this project. If there are any questions, please do not hesitate to call at 512.580.5440.

Respectfully,

The Rios Group, Inc.

Ryan C. Chapin, P.E.
Project Manager

THE RIOS GROUP

Estimate for Subsurface Utility Engineering
City of Kyle
Elliott Branch Wastewater Improvements

EXHIBIT A

Direct Expenses		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
ROW Permits	$	300.00	5	EA	$	1,500.00
ROW Permit Acquisition	$	500.00	1	LS	$	500.00
Traffic Control (Standard)	$	800.00	7	DAY	$	5,600.00
Deliverable Preparation	$	2,500.00	1	LS	$	2,500.00
Survey (RPLS)	$	2,250.00	1	DAY	$	2,250.00
Sub-Total					**$**	**12,350.00**
QL"B" SUE Designating		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
Designating Crew	$	2,500.00	10	DAY	$	25,000.00
Sub-Total					**$**	**25,000.00**
QL"A" SUE Test Holes						
Unit Rate - Depth		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
0 - 4 feet	$	850.00	8	EA	$	6,800.00
4 - 8 feet	$	1,150.00	8	EA	$	9,200.00
8 - 12 feet	$	1,450.00	4	EA	$	5,800.00
12 - 18 feet	$	2,300.00	0	EA	$	-
Pavement Coring	$	350.00	14	EA	$	4,900.00
Test Hole Total			20			
Sub-Total					**$**	**26,700.00**
Total Estimated Cost					**$**	**64,050.00**

575 Round Rock West Drive, Building K, Suite 400 | Round Rock, TX 78681 | Phone: 512.580.5440
Subsurface Utility Engineering | Utility Coordination

EXHIBIT B

FM 150
OLD S HWY 81
INTERCEPT OLD TOWN WW MAIN
WW LINE "H"
OLD TOWN INTERCEPTOR WW LINE "I"
UPRR
CONNECT TO PLUM BASIN INTERCEPTOR SOUTHERN EXTENSION (BY OTHERS)
SUE Services Needed
DISCHARGE OLD TOWN WW MAIN INTO ELLIOTT BRANCH WW MAIN
INTERSTATE HIGHWAY 35
ELLIOTT BRANCH WW MAIN
RECLAIMED WATER LINE
W MOORE ST
S NANCE ST
W ALLEN ST
W ALLEN ST
S SLEDGE ST
W 1ST ST
S MAIN ST
WW LINE "G"
SCOTT ST
W 2ND ST
INTERCEPT ELLIOTT BRANCH WW MAIN
WW LINE "E"
W 3RD ST
WW LINE "F"
WW LINE "C"
WW LINE "D"
SUE Services Needed
S SLEDGE ST
ELLIOTT BRANCH WW MAIN
BEGIN BRADFORD MEADOWS WW MAIN
BRADFORD MEADOWS WW LINE "A"
DISCHARGE BRADFORD MEADOWS WW MAIN AND LIFT STATION DIVERSION INTO ELLIOTT BRANCH WW MAIN
ELLIOTT BRANCH WW MAIN
UPRR
SCOTT ST
PARK PL
LIFT STATION DIVERSION WW LINE "B"
EXISTING BRADFORD MEADOWS LIFT STATION TO BE DECOMMISSIONED
JOHNNY'S WAY
JERRY LEES TRAIL
S SLEDGE ST
HITCHING POST

N
0 200' 400'

RPS
A MEMBER OF THE RPS GROUP PLC
4801 Southwest Parkway, Parkway 2, Suite 150
Austin, Texas 78735 (512) 326-5659
TBPE #F-293

30% SUBMITTAL

"THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF STEPHANIE D. BLEW 92682 ON May 31, 2018. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES."

June 8, 2018, ELLIOTT BRANCH WW INTERCEPTOR, RPS #12066.01

CITY OF KYLE
ELLIOTT BRANCH WASTEWATER INTERCEPTOR

OVERALL ALIGNMENTS

NO.	DATE	REVISION/CORRECTION	BY

CHECKED BY WB DESIGNED BY AL DRAWN BY AL

SHEET

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