This is Task Order No. 12, consisting of 14 pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated October 17, 2019 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

a. Effective Date of Task Order: TBD

b. Owner: City of Schertz

c. Engineer: Halff Associates, Inc.

d. Lookout Road Reconstruction (0.65 Miles)

e. Specific Project (description):

- Reconstruct Lookout Road from Doerr Lane to Schertz Parkway to include 42-foot flexible pavement section utilizing existing curb and gutter,
- Upsize and Replace existing sewer lines with 18-inch sewer lines along the same corridor.

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are as follows:

A. Design Phase (90%)

1. As deemed necessary, meet with OWNER officials to discuss the Project.
2. CONSULTANT will assist the CITY during public involvement meetings for up to three (3) meetings and will provide up to three (3) exhibits to used for coordination in those meetings.
3. CONSULTANT will verify potential utility conflicts utilizing the utility data collected by survey through 811 locate services will only contact utility companies on a as needed basis. All utilities will be shown on paving and utility design plans but no individual utility map will be provided.
4. Perform field survey required to establish apparent existing right-of-way or easement boundaries (but not right-of-way acquisition surveys) and site topography required to collect information needed in the design of the Project; establish or locate at least two Benchmarks set to U.S. Coast and Geodetic Survey Datum within the job site in accordance with sound engineering practices. Establish or locate at least two additional Benchmarks set to U.S. Coast and Geodetic Survey Datum for the job site outside the limits of construction in accordance with sound engineering practices. Topographic survey will be collected at 50-

foot cross sections to develop existing planimetrics and contours. No right of entry agreements are anticipated for this project since all improvements are to remain within the ROW. Show on the preliminary plan existing topographical features including improvements within and outside the right-of-way necessary for the design of the Project. Survey must include all visible utilities and tying of utility-locate paint markings by 811 within the survey area for underground utilities. Provide the necessary number of control points/benchmarks on the ground for the Project and ensuring the horizontal and vertical control correspond with the design plans.

5. Perform the high-level hydrologic analysis of the existing conditions to assess existing surface drainage impacts on pavement. The necessary data collection, hydrology analysis and preparation of a technical memo are included in this task. No drainage design is anticipated or included in this task.

8. When applicable, show adequate existing property line elevations, proposed top of curb elevations, proposed top of channel elevations and adequate proposed flow line elevations on the profiles.

9. Include street and drainage cross sections for every 50-foot stations (plus any intermediate stations if field conditions so dictate) at a scale of 1" = 20'-0" horizontally and 1" = 10'-0" vertically unless otherwise directed by the City Engineer. These designs must combine the application of sound engineering principles with a high degree of economy. Design standards of other agencies, when approved by CITY, must be used when so directed by the City Engineer.

10. Unless directed otherwise by the City Engineer, provide roadway and drainage drawings that include, but are not limited to, plan and profile sheets with the plan portion at a scale of 1" = 40' – 0" and the profile portion at a scale of 1" = 40'-0" horizontally and 1" = 10'-0" vertically. All scales should be conveniently located on each sheet and have the scaled number ratios on corresponding horizontal or vertical scales readily noticeable. All drawings must be submitted on standard 11" by 17" sheets (untrimmed).

11. Develop a plan and profile view set of drawings for the approved recommended sewer alignments in sufficient detail to clearly indicate the problems involved, including approximate locations of existing utilities within the Project site or ROW, and anticipated design to minimize conflicts, as applicable.

12. Prepare a by-pass flow data layout sheet. The sheet shall include existing and proposed sewer mains and manholes within and around the project limits.

13. Ensure that project drawings include, but not be limited to, plan and profile sheets with the plan view at a scale of l"=40' horizontal and a profile view at a scale of l"=10' vertical on a standard sheet size of 11"x17". All design drawings shall be submitted on 11"x17", unless stated otherwise.

14. Furnish a Storm Water Pollution Prevention Plan ("SW3P") and Best Management Practices Plan for control of erosion during and after construction.

15. Prepare a Traffic Control Plan ("TCP") and a plan for pavement markings, signing, and delineators on 11" x 17" plan sheets.

16. If applicable, prepare a request for any design exceptions, including all information necessary to support the request, and submit them to the City Engineer for review and approval.

17. Identify all temporary and permanent easements and/or ROW if applicable.

18. Identify and notify all affected utilities and coordinate plans for utility relocation (if applicable). CONSULTANT must maintain a record of all utility contacts and submit them to CITY.

19. Furnish CITY with one paper copy and one Adobe Acrobat PDF Copy of the Roadway Design Phase (90%) plans and supporting documents, including any and all of those mentioned immediately above. Upon review and approval of the plan and supporting documents, CITY will furnish to CONSULTANT, in writing, approval of the plan and cost estimate and authority to proceed with the Final Design Phase of the Project.

B. Final Design Phase (100%)

1. Prepare detailed Agreement drawings, specifications, instructions to bidders, general provisions, proposal and other documents necessary for CITY to advertise for bids, all based on guides furnished CONSULTANT by CITY after authorization has been received from the City Engineer to proceed with the final plans.

   a. Street cross sections must be included for every 50-foot station (plus any intermediate stations if field conditions so dictate) at a scale of 1" = 20' – 0" horizontally and 1" = 10' – 0" vertically unless otherwise directed by the City Engineer. These designs must combine the application of sound engineering principles with a high degree of economy. Design standards of other agencies, when approved by CITY, must be used when so directed by the City Engineer.

   b. Detailed specifications will be developed using the City of Schertz Standard Specifications for Public Works Construction, and any other necessary special specifications.

   c. A specimen copy of standard general provisions, instructions to bidders, and applicable prevailing wage rates will be furnished to CONSULTANT by CITY for incorporation in the specifications for the proposed Project.

2. Prepare a project construction schedule.

3. Prepare and furnish to CITY, one SW3P manual for use during construction.

4. Coordinate plan development with the utility relocation plans of all affected utilities. CONSULTANT must maintain a record of all utility contacts and submit them to CITY. CONSULTANT must arrange all necessary utility coordination meetings. CONSULTANT must provide each utility with a copy of any sheets changed during the Final Plan review process for comment.

5. Prior to the actual printing and delivery of the final plans and specifications, provide one PDF proposal submit to Engineering Section of the Public Works Department for approval or correction as may be deemed necessary. If the plans as submitted by CONSULTANT for final review are deemed by the City Engineer to be incomplete and another review is justified, CONSULTANT shall make the corrections as specified and resubmit one set of revised sheets only and one complete set of Adobe Acrobat PDF files for this review. CONSULTANT shall bear the expense of the additional set of revised sheets and PDF files required for this review.

   Upon review and written approval of the advance copies, CONSULTANT shall provide and submit to the City Engineer two sets of Plans and Specifications. CONSULTANT shall also provide plans in digital format on a CD with each sheet in a separate file with the file name being the sheet number. PDF files must be exact copies of the hard copies.

6. Furnish as a part of CONSULTANT's basic fee not more than two sets of bidding documents. Specifications and proposals must each be provided in one PDF file separate from the plans.

C. Bid Phase:

1. Provide an index of plan sheets and the Itemized Bid Form in a Microsoft Excel format. The Bid Form must have the format, item number, quantities, item description, and price extensions locked so that the bidders cannot change them.

2. Attend a Pre-Bid Conference with City representatives and prospective bidders.

3. Respond to Contractor questions during the bidding process and develop addendum as required

4. Attend the formal opening of bids and tabulate and furnish to CITY an original, five copies, and PDF of the bid tabulation together with written recommendation regarding the award of the contract.

D. Construction Phase:

1. Attend a Pre-construction Conference with the representatives of the interested City Departments and the Contractor.
2. After Contractor's approval, review and take appropriate action (approve with modifications, reject, etc.) upon the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. This action must be taken with reasonable promptness so as to minimize delay. The reviews and approvals or other action must not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto. The approval of a specific item will not indicate approval of an assembly of which the item is a component.
3. Review and respond to requests for information (RFIs). RFIs may include to evaluate and determine the acceptability of substitute materials and equipment proposed by Contractor.
4. After completion of the work, and before final payment to the Contractor, it will be CITY's responsibility to require (through contract documents prepared by CONSULTANT) a set of "Record Drawings" from the Contractor, who has control of the work and who is in a position to know how the Project was constructed. CONSULTANT, after receiving this information, shall transfer the information to a set of paper tracings as "Record Drawings" or documents for CITY's permanent file. Record Drawings and documents must also be provided to the CITY in Adobe Acrobat PDF format. CITY shall not hold CONSULTANT liable for the information supplied by the Contractor.

E. SUPPLEMENTAL SERVICES

1. **SUE LEVEL B** - The CONSULTANT will provide Subsurface Utility Engineering (SUE) services for Level B designation to locate underground utilities.

Quality Level-B Utility Designating:
Halff will designate the approximate horizontal position of conductive/toneable utilities within the project limits using geophysical prospecting equipment and mark using paint and/or pin flags. We anticipate the designation of approximately 3,300 linear feet of utilities including buried communication, electric, natural gas, traffic signal, water, waste water/sanitary sewer, and storm drain/storm sewer. Designation of irrigation lines, HDPE lines, gathering lines, asbestos concrete and/or pvc lines, as well as pvc lines without tracer wire or access are not part of this Scope of Services.

Because of limited utility record information and the possibility of non-conductive/un-toneable utilities, Halff cannot guarantee all utilities will be found and marked within the project limits.

Quality Level-C Surveying:
Quality Level-B Utility Designation paint markings, pin flags, and above ground utility appurtenances as well the iron rod with cap or "x-cut" for Quality Level-A Test Holes will be surveyed and tied utilizing project survey control provided by the City of Schertz.

Quality Level-D Records Research:
Available Records will be provided to Halff by the City of Schertz. Halff will perform additional utility record research as needed to successfully complete the project.

Because there are situations where the utility does not have a metallic composition, a metallic tracer line attached, or access to insert a tracer line, the approximate location of the utility may be determined by the use of utility records and direct correspondence with the utility owner/representative. In these areas, the information will be considered Quality Level-D, depicted according to utility record information only.

SUE Field Manager / Professional Engineer:
A SUE Field Manager will be on-site for a portion of this project for field crew supervision, field quality control, and coordination with on-site personnel. A Professional Engineer will be responsible for QA/QC, management of the contract, coordination with the project team and signing the final deliverables if required.

SUE Deliverables / CADD:
Deliverables for the Quality Level-B 2D Utility Designation will be 11-in. x 17-in. SUE plan sheets depicting the findings of the investigation. Deliverables for the Quality Level-A Test Hole excavations will be a 8.5-in. x 11-in. Test Hole Data Form for each Test Hole performed indicating depth, size, location, and other notable characteristics of the utility. Electronic files will be provided in MicroStation and/or AutoCAD format along with PDFs and photos.

Right-of-Entry:
Right-of-Entry is not part of this Scope of Services as work is anticipated within the existing road right-of-way. If right-of-entry is required, it will be performed and provided to Halff by the City of Schertz. Halff will coordinate with property owner(s) once right-of-entry has been obtained.

Permitting:
Street Cut permits will be coordinated with the City of Schertz as required.

Work Zone Traffic Control:
Halff will provide standard temporary work zone traffic control consisting of cones and free-standing signage for this project in accordance with the TMUTCD. As exact test holes locations are unknown, certified traffic control such as lane closure(s), flag person(s), changeable message board(s), and/or arrow board(s), if needed or required by the City of Schertz, will be provided by a certified traffic control provider such as Flasher.

This Scope of Services does not include an engineered traffic control plan and if required for permit approval, Halff will notify the City of Schertz and submit a supplemental agreement for authorization prior to proceeding with additional work.

If an engineered traffic control plan is required for permit approval or if unique traffic control conditions exist, Halff will notify the City of Schertz and submit a supplemental agreement for authorization prior to proceeding with additional work.

Schedule:
Halff will complete the Quality Level-B Utility Designation investigation within Thirty (30) calendar days upon receipt of written notice to proceed from the City of Schertz.

Halff will complete the Quality Level-A Test Hole services within Thirty (30) calendar days upon receipt of the test hole layout from the City of Schertz and approved permits.

Due to uncontrollable factors such as ground conditions, weather, and safety hazards, Halff reserves the right to request more time to facilitate field efforts should one of these circumstances exist.

Work performed in the right-of-way shall be performed Monday through Friday, 9 am to 4 pm and Saturday and Sunday, 7 am to 7 pm barring foul weather.

2. **SUE LEVEL A** - The CONSULTANT will provide Subsurface Utility Engineering (SUE) services for Level A potholes to locate underground utilities. No work shall be performed until CONSULTANT receives a written authorization to proceed with each pothole requested.

Quality Level-A Utility Test Holes (Vacuum Excavation):
Up to three (3) test holes will be performed on various utilities at locations specified by the City of Schertz. Halff will cut up to a 12" square test hole, excavate down to utility, record the depth to top of utility, backfill & compact the hole, and restore the surface to its original condition. An iron rod with cap or "x-cut" will be set to mark the approximate centerline location of the utility. A jackhammer will be utilized for work to be performed in asphalt and concrete areas. This Scope of Services includes all test holes being performed under one (1) mobilization.

If test holes are requested on non-conductive/untonable utilities depicted as Quality Level-D where the horizontal location is assumed, Halff will coordinate with Client and respective utility owner, on-site personnel if private property and available records to pinpoint the location to perform the test hole. Due to the concrete/ground conditions, one (1) attempt shall be made, which may or may not expose the subject utility. Should the utility not be exposed, Halff will coordinate with the City of Schertz for direction on digging additional test holes if required and shall be compensated for each test hole dug.

3. **GEOTECHNICAL REPORT** – The consultant will secure the services of Raba Kistner to perform the geotechnical services outlined in Exhibit A (attached).

3. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B:

4. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule:

Party	Action	Schedule
Engineer	**Furnish:** **1. The consultant will submit one set of plans and specifications at the 90%, and two sets of plans at the 100% milestone and will participate in submittal review meetings for each milestone.**	**Halff personnel will be available to commence work upon written notice to proceed.**
Owner	**1.** As Built drawings for roadway **2.** As Built drawings for public utilities within R.O.W. **3.** Adjacent development plats.	**As Coordinated**

5. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order as follows:

Fee provided shall be considered lump sum for the services described in this Task Order. ***See attached Exhibit B for Fee Schedule.***

B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.

6. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is to be determined

OWNER:	ENGINEER:
By: _____	By: 
Print Name: _____	Print Name: Marcos Díaz, PE
Title: _____	Title: Public Works Team Leader
	Engineer License or Firm's: F-312 State of: Texas
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Name: _____	Name: _____
Title: _____	Title: _____
Address: _____	Address: _____
Email Address: _____	Email Address: _____
Phone: _____	Phone: _____

EXHIBIT A
GEOTECHNICAL SCOPE OF WORK

RABA KISTNER

211 Trade Center, Suite 300
New Braunfels, TX 78130

P 830.214.0544
F 830.214.0627
TBPE Firm F-3257

WWW.RKCI.COM

Proposal No. PNA22-086-00
October 19, 2022

AUTHORIZATION FORM

I HEREBY AGREE TO THE TERMS AND CONDITIONS OF THIS AUTHORIZATION FORM, INCLUI
AND AUTHORIZE RABA KISTNER CONSULTANTS, INC. (RKCI) TO PERFORM THE FOLLOWING SERVICE(S): Complete a geotechnical investigation and provide recommendations in a report for the Lookout Road Reconstruction in Schertz, Texas as described in Attachment II – Scope of Work.

LOCATION WHERE SERVICES ARE TO BE PERFORMED: Schertz, Texas

NAME OF RESPONSIBLE PARTY (CLIENT) THAT APPROVES PAYMENT OF ABOVE SERVICES:
Mr. Marco Diaz, P.E./Halff Associates, Inc.

LUMP SUM COST: $15,436.50

Our invoices are due and payable upon receipt at PO Box 971037, Dallas, Dallas County, Texas 75397-0137. All parties hereby agree that this contract upon acceptance will be performable in Guadalupe County, Texas. Our services will be performed in accordance with this letter agreement and the attachments. Please sign, date, and return one signed copy of this form to provide our firm with written authorization.

SIGNATURE:	X	**DATE:**	
PRINTED NAME:	Mr. Marcos Diaz, P.E.		
COMPANY NAME:	Halff Associates, Inc.		
COMPANY ADDRESS:	100 Northeast Loop 410, Suite 200		
CITY, STATE, ZIP:	San Antonio, Texas 78216-4741		
PHONE NUMBER:	210.704.1359	**FAX NUMBER:**	
E-MAIL:	MDiaz@Halff.com		

RABA KISTNER CONSULTANTS, INC.

T. Ian Perez, P.E.
Vice President

TIP/alg

Attachments: I – Standard Terms and Conditions
II – Scope of Work
III – Fee Estimate

EXHIBIT A
GEOTECHNICAL SCOPE OF WORK

Proposal No. PNA22-086-00
October 19, 2022

ATTACHMENT II

Raba Kistner, Inc. Scope of Work

Lookout Road Sanitary Sewer Improvements
Schertz Parkway to Doerr Lane
Schertz, Texas

Project Description

To be considered in this study is approximately 3,500 linear feet of sanitary sewer improvements extending from Schertz Parkway to Doerr Lane in Schertz, Texas (Guadalupe County). It is our understanding that the average existing sewer depth is 15 ft. The proposed scope of work includes curb to curb pavement reconstruction over the same project limits.

The general purpose of our study is to perform a geotechnical investigation of the subsurface soils along the alignment; to perform field and laboratory testing; and to prepare a report presenting our findings as well as recommendations for deep utility installation, backfill, trench stability, and pavement reconstruction.

As part of our study, we proposed drilling 6 borings along the subject alignments (approximate 700 ft spacing). We proposed drilling the borings to a maximum depth of 20 ft below the existing grade.

Traffic control will be required for the field portion of this study and 1-1/2 days of traffic control has been included in the fee. We have assumed that no permits will be required from the City Schertz to perform our field operations or that the City will waive any permit requirements. If permits are required and we are engaged to obtain the permits, our coordination time and fees will be in addition to those included in this scope and fee. Raba Kistner will locate the borings and will submit utility clearance requests to Lonestar 811, but it is expected that the client will provide any available utility drawings along the subject roadways.

Once the field and laboratory portion of our project is complete, we will utilize the results to prepare the recommendations. The results of our field and laboratory results will provided in a written engineering report along with utility installation, backfill/trenching, and pavement reconstruction recommendations and construction considerations. In order to prepare the pavement recommendations, traffic information will need to be provided to our office In addition, we will provide construction considerations regarding groundwater and trench sloughing issues which are currently an issue for the adjacent reconstruction section

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EXHIBIT B - FEE SCHEDULE

Lookout Road - City of Schertz

Estimated Level of Effort for Intermediate and Final Design, and Construction Phase Services

POSITION DESCRIPTION	Sr. Project Manager/QAQC	Project Manager/ Sr. Lands Arch	Mid Project Engineer	Engineer EIT/ Lands Arch	Sr. GIS	Survey Technician	Admin Assistant	SUE Designating	RPLS Manager	SUE Field Manager	SUE/Survey Crew 2-man	SubConsultant Fee	Total Labor hrs.	Cost
BILLABLE LABOR RATES	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00	Lump Sum		
INTERMEDIATE DESIGN PHASE SERVICES (90%)														
1) Engineering Services														
Project Administration and Coordination														
1. Project Management	2	32	24										58	$12,130.00
2. Public Involvement Meetings (1 meeting, 3 exhibits)	3	3	3	6									15	$2,835.00
3. Prepare Monthly Invoices and Progress Reports (Assumes 10 Invoices)		5	5				10						20	$2,850.00
Roadway Design (90%)														
1. Develop Roadway Geometry (Horizontal & Vertical)		1	8	12									21	$3,360.00
2. Develop Typical Sections		2	4	10									16	$2,550.00
3. Develop Removal Plan Layout Sheets		2	24	24									50	$8,240.00
4. Develop Title Sheet, Index Sheet, and Project Layout Sheets		1	4	8									13	$2,060.00
5. Develop Roadway Plan & Profile Layout Sheets	2	8	24	60									94	$14,950.00
6. Develop Traffic Control Plan Layout Sheets	1	4	24	40									69	$11,105.00
7. Develop Traffic Control Sequence of Construction & Narrative		1	8	4									13	$2,280.00
8. Develop Intersection Layouts		1	8	24									33	$4,980.00
9. Develop Cross Sections		2	24	32									58	$9,320.00
10. Develop Roadway Quantity Summaries		1	6	12									19	$2,980.00
11. Develop Construction Cost Estimate	1	2	8	8									19	$3,305.00
Utility Design/Coordination (90%)														
1. Utility Design/Coordination Meetings														
a. Utility Design/Coordination Meetings (Assumes 1 Meetings Total)		8	8										16	$3,280.00
b. Coordination of Utility Adjustments			8	16									24	$3,680.00
c. Technical Assistance and Meeting Exhibits		4		16									20	$3,040.00
2. Develop Utility Tracking Report			2	8									10	$1,460.00
3. Utility Investigation (As-Builts, Field Observations)			4	8									12	$1,840.00
4. Prepare Sewer Plan and Profile	1	4	32	54									91	$14,515.00
5. Prepare Schematic Bypass Plan			4	12									16	$2,380.00
6. Develop Construction Cost Estimate		1	2	4									7	$1,140.00
Drainage (90%)														
1. Hydrologic Data Collection, Review, and Analysis		2	8	20	4								34	$5,160.00
2. Prepare Existing Watershed Maps		1	6	12	4								23	$3,480.00
3. Develop Drainage Technical Memo		2	24	16									42	$7,160.00
4. Develop SW3P Layouts		1	12	20									33	$5,200.00
Signing and Pavement Markings (90%)														
1. Develop Signing/Striping Layout Sheets		2	16	24									42	$6,720.00
2. Prepare Signing/Striping Quantity and Plan Summaries		1	2	4									7	$1,140.00
Total Hours	10	91	302	454	8	0	10	0	0	0	0		**875**	
SUMMARY														
HOURS SUB-TOTALS	10	91	302	454	8	0	10	0	0	0	0		**875**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			-
TOTAL - Engineering Services (Roadway Design Phase)	**$2,650.00**	**$20,020.00**	**$57,380.00**	**$61,290.00**	**$1,000.00**	**$0.00**	**$800.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**		**$143,140.00**
2) Surveying Services														
1. Record Research, Develop Base Map, and Establish Apparent ROW		1				10			3		10		24	$4,075.00
2. Establish Project Control and Develop Topographic Survey, Culverts, Storm Sewer, Utilities		1				16			2		25		44	$7,350.00
3. Tie Existing Surface Utilities and Locate Markings						4					15		19	$3,240.00
4. Provide Control Sheets		2				6			4				12	$2,190.00
5. Collect, Inventory and Photograph Existing Signs		1									6		7	$1,300.00
Total Hours	0	5	0	0	0	36	0	0	9	0	56		**106**	
SUMMARY														
HOURS SUB-TOTALS	0	5	0	0	0	36	0	0	9	0	56		**106**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			-
TOTAL - Surveying Services	**$0.00**	**$1,100.00**	**$0.00**	**$0.00**	**$0.00**	**$4,860.00**	**$0.00**	**$0.00**	**$2,115.00**	**$0.00**	**$10,080.00**	**$0.00**		**$18,155.00**

EXHIBIT B - FEE SCHEDULE

Lookout Road - City of Schertz

Estimated Level of Effort for Intermediate and Final Design, and Construction Phase Services

POSITION DESCRIPTION	Sr. Project Manager/QAQC	Project Manager/ Sr. Lands Arch	Mid Project Engineer	Engineer EIT/ Lands Arch	Sr. GIS	Survey Technician	Admin Assistant	SUE Designating	RPLS Manager	SUE Field Manager	SUE/Survey Crew 2-man	SubConsultant Fee	Total Labor hrs.	Cost
BILLABLE LABOR RATES	**$265.00**	**$220.00**	**$190.00**	**$135.00**	**$125.00**	**$135.00**	**$80.00**	**$135.00**	**$235.00**	**$186.00**	**$180.00**	**Lump Sum**		
FINAL ENGINEERING PHASE SERVICES (100%)														
1) Engineering Services														
Roadway Design (100%)														
1. Incorporate Comments From 90% Submittal		2	4	8									14	$2,280.00
2. Final Title Sheet, Index Sheet, and Project Layout Sheets		1	4	4									9	$1,520.00
3. Final Roadway Plan & Profile Layout Sheets		6	16	32									54	$8,680.00
4. Final Traffic Control Plan	2	4	16	24									46	$7,690.00
5. Final Intersection Layouts	1	2	6	8									17	$2,925.00
6. Final Miscellaneous Details		2		8									10	$1,520.00
7. Final Roadway Quantity Summaries		2		8									10	$1,520.00
8. Final Construction Cost Estimate		2		4									6	$980.00
9. Develop Specifications and General Notes	1	4		16									21	$3,305.00
10. Develop Construction Schedule	1	2	4										7	$1,465.00
11. Develop Project Technical Specification Manual		2	12	8									22	$3,800.00
Utility Design/Coordination (100%)														
1. Incorporate Comments From 90% Submittal		1	2	4									7	$1,140.00
2. Final Sewer Plan and Profile		4	24	32									60	$9,760.00
3. Final Schematic Bypass Plan			4	8									12	$1,840.00
4. Final Miscellaneous Details			4	8									12	$1,840.00
Drainage (100%)														
1. Final Drainage Computation Summary Sheets		1		2									3	$490.00
2. Final SW3P Layout Sheets		2	24	32									58	$9,320.00
Signing and Pavement Markings (100%)														
1. Final Signing/Striping Layout Sheets		1	2	8									11	$1,680.00
2. Final Signing/Striping Quantity and Plan Summaries		2		4									6	$980.00
Total Hours	5	40	122	218	0	0	0	0	0	0	0		**385**	
SUMMARY														
HOURS SUB-TOTALS	5	40	122	218	0	0	0	0	0	0	0		**385**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			-
TOTAL - Engineering Services (Final Design Phase)	**$1,325.00**	**$8,800.00**	**$23,180.00**	**$29,430.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**		**$62,735.00**
2) Bid Phase Services														
1. Develop Bid Form		1					1						2	$300.00
2. Develop SW3P Manual		1	8	16			1						26	$3,980.00
3. Attend Pre-Bid Meeting and Bid Opening		6	8										14	$2,840.00
4. Provide Response to Contractor's Questions During Bidding Process		2	8	8									18	$3,040.00
5. Develop Final Bid Tab Summary and Recommendation		4		8			1						13	$2,040.00
Total Hours	0	14	24	32	0	0	3	0	0	0	0		**73**	
SUMMARY														
HOURS SUB-TOTALS	0	14	24	32	0	0	3	0	0	0	0		**73**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			-
TOTAL - Bid Phase Services	**$0.00**	**$3,080.00**	**$4,560.00**	**$4,320.00**	**$0.00**	**$0.00**	**$240.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**		**$12,200.00**
CONSTRUCTION PHASE SERVICES														
1) Construction Phase Services														
Construction Services														
1. Attend Pre-Construction conference		4	4										8	$1,640.00
2. Review Shop Drawings		2	8	16									26	$4,120.00
3. Review & Respond to Requests for Information (RFI's)		4	8	16									28	$4,560.00
4. Prepare Final As-Built Record Drawings	1	4		16									21	$3,305.00
Total Hours	1	14	20	48	0	0	0	0	0	0	0		**83**	
SUMMARY														
HOURS SUB-TOTALS	1	14	20	48	0	0	0	0	0	0	0		**83**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			-
TOTAL - Construction Phase Services	**$265.00**	**$3,080.00**	**$3,800.00**	**$6,480.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**		**$13,625.00**

EXHIBIT B - FEE SCHEDULE

Lookout Road - City of Schertz

Estimated Level of Effort for Intermediate and Final Design, and Construction Phase Services

POSITION DESCRIPTION	Sr. Project Manager/QAQC	Project Manager/ Sr. Lands Arch	Mid Project Engineer	Engineer EIT/ Lands Arch	Sr. GIS	Survey Technician	Admin Assistant	SUE Designating	RPLS Manager	SUE Field Manager	SUE/Survey Crew 2-man	SubConsultant Fee	Total Labor hrs.	Cost
BILLABLE LABOR RATES	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00	Lump Sum		
SPECIFIED ADDITIONAL SERVICES														
1) Specified Additional Services														
Specified Additional Services														
Subsurface Utility Engineering (SUE) Level B	2			8	24	1	1	100	1	16	20		173	$25,136.00
Subsurface Utility Engineering (SUE) (3 Level A potholes @ $3,000 each)												$9,000.00	0	$9,000.00
Geotechnical Engineering	1	4					2					$15,436.50	7	$16,741.50
Total Hours	3	4	0	8	24	1	3	100	1	16	20		**7**	
SUMMARY														
HOURS SUB-TOTALS	3	4	0	8	24	1	3	100	1	16	20		**180**	-
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00			
TOTAL - Specified Additiona Services	**$795.00**	**$880.00**	**$0.00**	**$1,080.00**	**$3,000.00**	**$135.00**	**$240.00**	**$13,500.00**	**$235.00**	**$2,976.00**	**$3,600.00**	**$24,436.50**		**$50,877.50**
TOTAL PROJECT SUMMARY														
HOURS SUB-TOTALS	19	168	468	760	32	37	16	100	10	16	76		**1702**	$300,732.50
BILLABLE RATE PER HOUR	$265.00	$220.00	$190.00	$135.00	$125.00	$135.00	$80.00	$135.00	$235.00	$186.00	$180.00		**1702**	
TOTAL PROJECT SUMMARY	**$5,035.00**	**$36,960.00**	**$88,920.00**	**$102,600.00**	**$4,000.00**	**$4,995.00**	**$1,280.00**	**$13,500.00**	**$2,350.00**	**$2,976.00**	**$13,680.00**	**$24,436.50**		**$300,732.50**

Proposal No. PNA22-086-00
October 19, 2022

Attachment III

RKCI GEOTECHNICAL RATE SHEET

City of Schertz
2020 GEOTECHNICAL IDIQ

Boring Schedule	No.	Depth, ft	Total, ft
Sewer/Pavement	6	20	120

TOTAL DRILLING FOOTAGE, ft= 120

DRILLING	**UNIT**	**# Units**	**COST/UNIT**	**Total**
MOBILIZATION	MILE	60	$4.95	$ 297.00
AUGER DRILLING W/O SAMPLING 0 - 25 FT	FT	120	$11.00	$ 1,320.00
AUGER DRILLING W/O SAMPLING 25 - 50 FT	FT	0	$12.00	$ -
SPT/ST 0 - 25 FT	PER SAMPLE	42	$39.00	$ 1,638.00
SPT/ST 25 - 50 FT	PER SAMPLE	0	$42.00	$ -
DCP TESTING	PER TEST	6	$50.00	$ 300.00
DRILLER STANDBY	HR	2	$250.00	$ 500.00
GROUT BORING HOLE	FT	120	$4.50	$ 540.00
TOTAL DRILLING				**$ 4,595.00**
FIELD LOGGING/COORDINATION				
BORING LAYOUT	MH	4	$120.00	$ 480.00
DRILLING - COORDINATION	MH	3	$120.00	$ 360.00
TRAFFIC CONTROL - COORDINATION	MH	2	$120.00	$ 240.00
TRAFFIC CONTROL	DAY	1.5	$1,500.00	$ 2,250.00
LOGGER - ENGINEER/GEOLOGIST	MH	12	$120.00	$ 1,440.00
DRILLER VEHICLE TRIP CHARGE	MILE	60	$0.83	$ 49.50
TOTAL LOGGING				**$ 4,819.50**
LABORATORY TESTING				
MOISTURE CONTENT	PER TEST	42	$13.00	$ 546.00
ATTERBERG LIMITS DETERMINATION	PER TEST	6	$95.00	$ 570.00
3-POINT CALIFORNIA BEARING RATIO TEST (1 specimen)	PER TEST	1	$900.00	$ 900.00
HYDROMETER ANALYSIS	PER TEST	0	$300.00	$ -
MATERIAL FINER THAN NO. 200 SIEVE	PER TEST	2	$60.00	$ 120.00
UNCONFINED COMPRESSIVE STRENGTH (SOIL)	PER TEST	0	$53.00	$ -
UNCONFINED COMPRESSIVE STRENGTH (ROCK)	PER TEST	0	$65.00	$ -
SIEVE ANALYSES	PER SIEVE	0	$60.00	$ -
LIME STABILIZATION TEST	PER TEST	1	$1,595.00	$ 1,595.00
SULFATE CONTENT TESTING	PER TEST	1	$86.00	$ 86.00
TOTAL TESTING				**$ 3,817.00**
ENGINEERING AND REPORT PREPARATION				
PRINCIPAL	MH	0	$185.00	$ -
SENIOR PROJECT MANAGER	MH	0	$180.00	$ -
PROJECT MANAGER	MH	3	$145.00	$ 435.00
EIT	MH	14	$95.00	$ 1,330.00
CADD TECH I	MH	0	$60.00	$ -
CADD TECH II	MH	2	$80.00	$ 160.00
ADMIN/CLERICAL	MH	4	$70.00	$ 280.00
TOTAL ENGINEERING				**$ 2,205.00**
			TOTAL	**$ 15,436.50**