TASK ORDER FORM

This is Task Order No. 07 , consisting of 42 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:

b. Owner: The City of Schertz

c. Engineer: Kimley-Horn and Associates, Inc.

d. Specific Project (title): Main Street Revitalization

e. Specific Project (description): The City of Schertz plans to revitalize Main Street with approximately limits of Schertz Parkway to Curtiss Avenue. Planned improvements include the installation of gateway markers on each end of the project, key intersections to provide opportunities for landscape features, streetscape and irrigation features, illumination with decorative light standards and festoon lighting, wayfinding and signage, gap fill areas with new curbs and sidewalks, upgrade ADA curb ramps as needed, complete a mill and inlay with spot base repairs, modify the typical striped section to redefine lane assignments and on street parking or bike lanes, and install stamped concrete or decorative pavers in roadway surface at gateways markers.

2. Services of Engineer

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

☐ as follows: [Reference Engineer Scope and Fee proposal dated August 2, 2021]

B. Resident Project Representative (RPR) Services: Does Not Apply

C. Designing to a Construction Cost Limit: Does Not Apply

D. Other Services: None

E. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

2. Additional Services

A. Additional Services that may be authorized or necessary under this Task Order are:

☐ as follows: [Reference Engineer scope and fee proposal dated August 2, 2021 for supplemental and additional service tasks. Additionally, items specifically excluded from the basic scope of services are listed under the exclusions section of the referenced scoped and fee proposal and were not included in the base compensation. In the event items excluded from scope and fee are required to finalize scope associated with this work authorization, or assumptions are modified throughout the project, the need for additional services will be required. Engineer will notify the City of Schertz and submit an additional service proposal for additional tasks and will proceed once an amended work authorization is fully executed. For supplemental service items included in the referenced scope and fee proposal, Engineer will submit a letter to the City requesting authorization of supplemental funds prior to commencing work.]

3. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B, subject to the following: *[Reference Engineer Scope and Fee Proposal for items to be provided by owner]*

4. Task Order Schedule

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

The proposed tentative schedule for this work authorization is based on a total duration of 15 months, inclusive of design, bid and construction. This schedule is contingent on the City selecting a landscape, lighting and typical roadway section concept upon presentation to council or Main Street committee, and cooperation from the power supply company. Any delays with concept selection or information from the power company may impact design milestone and the schedule will be adjusted accordingly. For the purposes of this task order, a Notice to Proceed date of August 30, 2021 has been assumed.

Notice to Proceed (NTP) – August 30, 2021
Planning and Conceptual Layouts – August 30, 2021 to November 4, 2021
90% Design Services – November 5, 2021 to January 27, 2022
100% Design Services (Signed and Sealed Submittal) – January 28, 2022 to March 23, 2022
Procurement – March 24, 2022 to April 26, 2022
Anticipated council action May 10, 2022
Construction – May 16, 2022 to November 18, 2022

Party	**Action**	**Schedule**
Engineer	**Furnish [N/A] review copies of the Report and other Study and Report Phase deliverables to Owner.**	**Within [N/A] days of the Effective Date of the Task Order.**
Owner	**Submit comments regarding Report and other Study and Report Phase deliverables to Engineer.**	**Within [N/A] days of the receipt of Report and other Study and Report Phase deliverables from Engineer.**
Engineer	**Furnish [N/A] copies of the revised Report and other Study and Report Phase deliverables to Owner.**	**Within [N/A] days of the receipt of Owner's comments regarding the Report and other Study and Report Phase deliverables.**

Engineer	**Furnish [pdf] review copies of the Preliminary Design Phase documents,**	**Within [67] days of Owner's authorization to proceed with Preliminary Design Phase**
	opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.	**services.**
Owner	**Submit concept selection and comments regarding Preliminary Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Engineer.**	**Within [14] days of the receipt of Preliminary Design Phase documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables from Engineer.**
Engineer	**Furnish [pdf] copies of the 90% Design documents, opinion of probable Construction Cost, and other Preliminary Design Phase deliverables to Owner.**	**[Per Schedule above] from receipt of Owner's Notice to proceed to the 90% Design Phase Deliverable Date, submit 90% Design Phase documents, opinion of probable Construction Cost, and other Design Phase deliverables.**
Owner	**Submit comments and instructions regarding the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, to Engineer.**	**Within [14] days of the receipt of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables from Engineer.**
Engineer	**Furnish [5] copies of the final signed and sealed Drawings and Specifications, assembled Construction Contract Documents, bidding- related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, to Owner.**	**Within [40] days of the receipt of Owner's comments and instructions regarding the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables**

5. Payments to Engineer

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

Task	Description of Service	Amount	Basis of Compensation
	BASIC SERVICES		
1	Project Management	$ 49,470.00	[Lump Sum]
2	Topographic Survey	$ 35,240.00	[Lump Sum]
3	Geotechnical Investigaton and Report Preparation	$ 16,320.00	[Lump Sum]
4	Planning and Conceptual Layouts	$ 106,010.00	[Lump Sum]
5	90% Design	$ 201,870.00	[Lump Sum]
6	Final Design	$ 41,560.00	[Lump Sum]
7	Procurement	$ 11,805.00	[Lump Sum]
8	Construction Phase	$ 36,270.00	[Lump Sum]
9	Record Drawings and Project Closeout	$ 6,680.00	[Lump Sum]
10	Reimbursable Project Expenses	$ 1,800.00	[Lump Sum]
	Total Compensation (BASIC SERVICES)	**$ 507,025.00**	**[Lump Sum]**
	SUPPLEMENTAL SERVICES		
S-1	Subsurface Utility Engineering	$ 84,720.00	[Lump Sum]
S-2	Signage and Wayfinding	$ 26,730.00	[Lump Sum]
S-3	Topographic Survey	$ 12,360.00	[Lump Sum]
S-4	TDLR	$ 5,250.00	[Lump Sum]
	Total Compensation (SUPPLEMENTAL SERVICES)	**$ 129,060.00**	**[Lump Sum]**
	Total Compensation (BASIC + SUPPLEMENTAL SERVICES)	**$ 636,085.00**	**[Lump Sum]**

*Based on a [15] -month continuous design and construction period.

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer's labor, overhead, profit, reimbursable expenses (if any), and Consultants' charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

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

6. **Consultants retained as of the Effective Date of the Task Order:** Kimley-Horn and Associates, Inc.

7. **Other Modifications to Agreement and Exhibits:** Scope associated with this task order is identified in scope and fee proposal dated August 2, 2021. No other modifications to Agreement and Exhibits are proposed at this time

8. **Attachments:** Engineer scope and fee proposal dated August 2, 2021

9. **Other Documents Incorporated by Reference:** None

10. **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 [ ].

OWNER:	ENGINEER:
By: _____	By: _____
Print Name: Dr. Mark Browne	Print Name: Jeffrey A. Farnsworth, PE
Title: City Manager	Title: Asst. Secretary
	Engineer License or Firm's Certificate No. (if required): 80190
	State of: Texas
DESIGNATED REPRESENTATIVE FOR TASK ORDER:	DESIGNATED REPRESENTATIVE FOR TASK ORDER:
Name: Kathryn Woodlee, PE	Name: Stephen J. Aniol, PE
Title: City Engineer	Title: Senior Project Manager
Address: 11 Commercial Place, Schertz, TX 78153	Address:
E-Mail Address: kwoodlee@schertz.com	E-Mail Address: stephen.aniol@kimley-horn.com
Phone: (210) 619-1823	Phone: (210) 321-3404

Kimley»Horn

August 2, 2021

John Nowak, PE
Project Manager
City of Schertz – Engineering
11 Commercial Place
Schertz, Texas 78154

RE: ***Main Street Revitalization (FM 1518 to Schertz Pkwy) – Scope and Fee Proposal (Task Order – 07)***

Dear Mr. Nowak:

Kimley-Horn and Associates (Kimley-Horn) is pleased to submit this scope and fee proposal for professional engineering services for the Main Street Revitalization project. This proposal includes conceptual planning, design, bid and construction phase services for the proposed project, and is based on a design scoping meeting held between Kimley-Horn and the City with subsequent coordination calls to clarify scope.

PROJECT UNDERSTANDING

It is our understanding that the purpose of this project is to revitalize the Main Street corridor in a manner that brings the Main Street feeling to local residents, business owners and travelers. The City desires to install gateway markers on each end of the project, select key intersections that provide opportunities for landscape architecture features, streetscape and irrigation features, install illumination with decorative light standards, install wayfinding and signage within the project corridor, gap fill areas with new curbs and sidewalks, upgrade ADA curb ramps as needed, complete a mill and inlay with spot base repairs along the complete project limit, modify the typical striped section to redefine lane assignments and on street parking or bike lanes, and potentially install stamped concrete or decorative pavers at select intersections. The City does not currently have a theme and desires Kimley-Horn to review and present multiple options to staff and council. Upon selection of final theme Kimley-Horn will prepare full construction drawings and specifications, assist the City with project advertising and bidding, and support the City during the construction phase.

BASIC SERVICES

The tasks below outline the proposed basic scope of services to be completed by Kimley-Horn and sub-consultants for this project and coincide with our general understanding of the project. The scope presented in this proposal coincides with the project work plan included as an attachment to this proposal.

1. Project Management
   1.1. Prepare monthly summary reports/invoicing

1.2. Sub-contract management
1.3. Schedule development and monthly updates – Schedule will be developed in Microsoft Project format and pdf copy will accompany the monthly invoice
1.4. Ongoing coordination and communications with Client and internal team meetings

2. Survey Services

Provide full topographic survey for approximately 3,500-feet of Main Street, from Curtiss Avenue to Schertz Pkwy. Survey limits are referenced in Attachment 2.

2.1. Boundary and improvements
  2.1.1. Locate property corners and adjoining property corners to establish property lines. Provide a "Not Found" if no corner is located
2.2. Topographic survey to include the following items
  2.2.1. Improvements to include curbs, driveways, walls, visible utilities, exterior building footprints and heights, fences, parking spaces, and signs of visible encroachment
  2.2.2. Locate visible evidence of utilities near subject tract. Contact 811 (Texas one-call locator) and complete records research for Quality Level (QL) C and D utility data. Pick up and notate aerial utilities including dimensions to existing ground
  2.2.3. Show buried site utilities including top of nut elevations on valves, measure downs, flow lines and pipe sizes on all manholes, locate nearest fire hydrants and sewer manhole with inverts, locate cleanouts and meter boxes
  2.2.4. For culverts locate flow lines, dimensions and material
  2.2.5. Paint stripes and lane lines
  2.2.6. Light poles and cross arms on sketch, plus base dimension and material; include any traffic equipment within boundaries
  2.2.7. Pylon or billboard signs – include diameter of pole and shots of pedestal
  2.2.8. Monument signs – include dimensions and sketch, include all traffic signage
  2.2.9. Topographic survey for design in surface coordinates, assuming 50' sections and 10' outside boundary. Cross section survey shots to be obtained at ROW, sidewalk, top of curb, edge of pavement, lane lines and centerline
  2.2.10. Locate and pick up noticeable sags/crests that do not follow the normal terrain
  2.2.11. Set horizontal and vertical control
2.3. Tree survey
2.4. Obtain geotechnical bore locations (separate survey trip)
2.5. Project control sheet
  2.5.1. 90% and final design phase
2.6. Deliverables
  2.6.1. Produce 1 CAD file inclusive of all survey data
  2.6.2. Draft project control sheet at 90%
  2.6.3. Signed and sealed project control sheet at Final deliverable

3. Geotechnical Investigation & Report Preparation

Perform single soil bore in proximity of each Gateway location to establish representative subsurface conditions and recommendations for foundation and structural design. Two (2) bores to an approximate depth of twenty (25) feet are assumed. Consultant will complete the following tasks:

- 3.1. Geotechnical bores and engineering report
  - 3.1.1. Boring logs with field and laboratory data
  - 3.1.2. Stratification based on visual soil (and rock) classification
  - 3.1.3. Groundwater levels observed during and after drilling completion
  - 3.1.4. Site and boring location plans
  - 3.1.5. Subsurface exploration procedures
  - 3.1.6. Description of subsurface conditions
  - 3.1.7. Recommendations for shallow and deep foundation and engineering design parameters
  - 3.1.8. Seismic site classification based on 2018 IBC
  - 3.1.9. Subgrade preparation/earthwork recommendations
  - 3.1.10. Existing pavement section at pavement core location (near Main Street and Curtiss Ave.)
  - 3.1.11. Options for asphalt and concrete pavement thickness recommendations for the proposed roadway based on the provided traffic loading
  - 3.1.12. TxDOT procedure will be used in the pavement design at the intersection of Main Street and Curtiss Ave. New pavement may be designed by matching the existing TxDOT pavement section
- 3.2. Bore layout and coordination
- 3.3. Review preliminary geotechnical engineering report

4. Planning and Conceptual Layouts

For this task Kimley-Horn will evaluate and prepare two (2) conceptual placemaking options for the revitalization of Main Street. To develop these options Kimley-Horn will complete the following tasks:

- 4.1. Utility research and investigation
  - 4.1.1. Make initial outreach to utility providers along the corridor to obtain block maps and record drawings of existing infrastructure
  - 4.1.2. Existing lighting infrastructure will be visually verified in the field
- 4.2. Conceptual illumination review
  - 4.2.1. Conduct one on-site meeting with the local electric service provider to determine service feed options for the proposed street, landscape and pedestrian lighting
  - 4.2.2. Provide up to two options for each of the street, landscaping and festoon lighting for the City to review. City will select option to proceed with the 90% design drawings
- 4.3. Landscape Architecture
  - 4.3.1. Research and urban connectivity
    - 4.3.1.1. Research the landscape heritage of downtown Schertz and identify important aspects related to how landscape contributes to the quality of life for Downtown Schertz. Create authentic landscape connectivity to this place
  - 4.3.2. Corridor walk with City staff to better understand the desires and wants from a placemaking perspective
  - 4.3.3. Technical landscape assessment and improvements identification

4.3.3.1. Provide one technical assessment of the existing landscape constraints and features of Main Street based on the existing conditions. Identify important relationships of the various landscape program related to the street and adjacent uses and opportunities for improvements that are not readily apparent

4.3.4. Approach outline and develop design recommendations and direction

4.3.4.1. Provide in outline format up to three (3) Urban Landscape Architectural Approaches for Main Street including the project design approach, goal and landscape precedent imagery that address

- Major character zones throughout Main Street
- Design elements for key character zones within each district
- Streetscape landscape pallet and character
- Lighting concept and approach

4.3.4.2. Provide up to three (3) landscape hand drawn and colored sketches at 11 x 17 showing design solutions for City consideration. Address one revision to this task

4.3.5. Landscape and lighting approach

4.3.6. Three conceptual milestone options including preliminary design details, coordination and planning

4.3.6.1. Prepare two (2) conceptual milestone options that represent ideas and budget options for City consideration. Each option will include a plan package that describes the option, including a plan view of the improvements rendered in color to represent proposed improvements

4.3.6.2. City will select proposed landscape features and improvements from these options

4.4. Roadway schematic preparation

4.4.1. Site visit to identify existing conditions, including pavement striping, concrete flatwork and identification of pavement repairs

4.4.2. Prepare conceptual route recommendations, layouts and typical sections for up to two (2) concepts. It is assumed that the curbs will remain in place with exception to key intersections where bulb outs may be introduced

4.5. Structural coordination and support

4.5.1. Coordination with landscape architecture for gateway design

4.6. Preliminary opinion of probable construction cost (OPCC)

4.6.1. Develop OPCCs for each landscape option to include all sub tasks noted in Task 4

4.7. Permitting

4.7.1. Initial outreach and coordination meeting with TxDOT in anticipation of the proposed Utility Installation Request (UIR) permit

4.8. Meetings and Coordination

4.8.1. Prepare for and attend up to three (3) coordination meetings with City staff

4.8.2. Attend and present at city council meetings with development of presentation exhibits

4.8.3. Prepare meeting notes following coordination meetings

5. 90% Design

Kimley-Horn will perform the following tasks for 90% design for the placemaking concept selected by the City:

5.1. Utility Coordination
- 5.1.1. Develop utility contact spreadsheet for providers along the corridor
- 5.1.2. Prepare utility conflict matrix with proposed improvements
- 5.1.3. Prepare for and conduct one (1) utility coordination meeting with service providers

5.2. Illumination Design
- 5.2.1. Existing conditions and removals (up to 10 sheets)
- 5.2.2. Photometric analysis
- 5.2.3. Proposed illumination layout (up to 10 sheets)
- 5.2.4. One Line diagrams
- 5.2.5. Wiring charts
- 5.2.6. Summary charts
- 5.2.7. Standard details related to illumination
- 5.2.8. Custom foundation for Festoon poles
- 5.2.9. Custom foundation for lighting poles
- 5.2.10. Electrical voltage drop calculations
- 5.2.11. Electrical service panel schedules

5.3. Landscape Architecture
- 5.3.1. 90% landscape and hardscape construction documents
  - 5.3.1.1. Prepare general notes, specifications and materials legend specific to landscape features
  - 5.3.1.2. Hardscape and layout plans will show site hardscape materials and dimensional control
  - 5.3.1.3. Hardscape detail plan incorporating details such as paving finishes and relationships, six (6) streetscape seating areas at up to three (3) key intersections, including up to two pocket parks that are within the existing right of way. Elevations of pocket parks will remain consistent with existing conditions
  - 5.3.1.4. Fine grading to coordinate spot elevations within the landscape and hardscape areas. These areas consist of sidewalks, courtyards, and planting beds. Retaining walls needed to accomplish the grading will be shown with the proposed top and toe elevations in a “wall zone.” The selection of the wall system and the structural design of the walls is beyond the scope of this proposal and if desired can be completed as an additional service. Underground landscape features are not included as there is not an existing storm sewer system along the corridor to tie to, and drainage design features are excluded from the scope of work
  - 5.3.1.5. Planting plans to show species, size and location with associated details for canopy trees, ornamental trees, shrubs and groundcover, and turf
  - 5.3.1.6. Irrigation plans will be prepared upon City approval of the landscape and hardscape construction documents. The irrigation plans will show head layout, pipe sizing, controller/valve locations, and standard details. The City will specify preferred

irrigation equipment brand (Toro, Hunter, Weathermatic, or Rainbird) prior to initiation of the irrigation design

5.3.1.7. Landscape and hardscape details will be prepared showing hardscape elements explicitly included in the design development package. This consists of details, sections and elevation views

5.3.2. Architectural gateway design layouts and coordination

5.4. Roadway and Utility Design

5.4.1. Develop general sheets to include cover, project location map, index of sheets, typical sections, project layout and summaries

5.4.2. Develop roadway geometrics and plan sheets

5.4.2.1. Up to 10 plan sheets at 40' scale

5.4.2.2. Plans will identify limits of mill and overlay limits, structural pavement (base) repairs, gap fill curb, sidewalk and driveways, ADA curb ramps and tree protection measures

5.4.2.3. Design and intersection grading for three (3) landscape areas and develop plan sheets

5.4.2.4. Develop signage and pavement marking sheets for select typical section

5.4.2.5. Develop water tie-in plans for up to three (3) locations for irrigation system

5.4.2.6. Develop traffic control plan narrative

5.4.2.7. Develop traffic control layouts and detour sheets for up to three (3) phases and three (3) detour routes. Approval from TxDOT for traffic control measures for Hwy 78/FM 1518 traffic will be required

5.4.2.8. Develop storm water pollution prevention plan (SW3P) sheet and narrative

5.4.2.9. Incorporate relevant construction standards

5.5. Structural Design

5.5.1. Structural design for up to two gateway locations

5.5.1.1. Provide location information for where the gateway features will be located and conceptual elevation and section details

5.5.1.2. Design up to one (1) standalone gateway feature located on either end of the project limits. It is assumed the same feature will be utilized for each location

5.5.1.3. Structural and foundation details

5.6. Permitting

5.6.1. Coordinate, prepare and submit TxDOT UIR permit

5.7. Meetings and Coordination

5.7.1. Prepare for and attend up to two (2) coordination meetings

5.8. Internal QA/QC

5.9. 90% Plans Submittal

6. Final Design

Kimley-Horn will review City comments provided for the 90% design drawings and attend a design review meeting to coordinate any final modifications to the plans. All plans associated with disciplines noted in Task 6 will be updated and the final OPCC will be developed. Kimley-Horn will complete a final quality control review of the plans, specifications and estimate. This task assumes that the placemaking theme selected during the Planning and Conceptual Layouts task will remain intact and

substantial revisions to the illumination and roadway layouts, and gateway, signage and wayfinding design will not be required.

Kimley-Horn will submit signed and sealed plans, specifications and final OPCC with this task.

7. Procurement

Kimley-Horn will complete the following tasks during the procurement phase:

- 7.1. Assist City with project advertising
- 7.2. Prepare meeting agenda and attend pre-bid meeting
- 7.3. Prepare pre-bid meeting notes
- 7.4. Document and respond to Contractor questions
- 7.5. Prepare and issue up to two (2) Addenda
- 7.6. Attend bid opening
- 7.7. Contractor qualification and bid evaluation
- 7.8. Prepare bid tabulation
- 7.9. Assist City with bid negotiations
- 7.10. Prepare construction contract award recommendation letter
- 7.11. Prepare conformed plan set

8. Construction Phase Services

- 8.1. Pre-Construction Meeting
- 8.2. Monthly Construction Progress Meetings and site visits
  - 8.2.1. Estimated 6-month construction schedule
  - 8.2.2. Prepare for and conduct monthly progress meeting. Develop and send out meeting notes within three (3) days of progress meeting
  - 8.2.3. At conclusion of progress meeting conduct monthly site visit
- 8.3. Monthly site visit
  - 8.3.1. Site visits associated with this sub-task will occur two weeks after the progress meeting, each month
  - 8.3.2. Prepare construction observation report
- 8.4. Construction Site Visits
  - 8.4.1. Assume an average of one (1) monthly site visits throughout the construction phase
  - 8.4.2. An observation report will be prepared and provided for each site visit

Kimley-Horn will make site visits in accordance with proposed basic scope of work in order to observe the progress of the work. Such observations will not be exhaustive or extend to every aspect of Contractor's work. Observations will be limited to spot checking, selective measurement, and similar methods of general observation. Based on information obtained during site visits, Kimley-Horn will evaluate whether Contractor's work is generally proceeding in accordance with the Contract Documents, and Kimley-Horn will keep the City informed of the general progress of the work.

Additionally, Kimley-Horn will not supervise, direct, or have control over Contractor's work, nor shall Kimley-Horn have authority to stop the Work or have responsibility for the means, methods, techniques, equipment choice and usage, schedules, or procedures of construction selected by Contractor, for safety programs incident to Contractor's work, or for any failure of Contractor to comply with any laws. Kimley-Horn does not guarantee the performance of any Contractor and has no responsibility for Contractor's failure to perform its work in accordance with the Contract Documents.

8.5. Pay Estimate Reviews (monthly and final payment)

8.5.1. Kimley-Horn will review and approve or take other appropriate action in reviewing Contractor application for payment, including recommendations to reject request for payment if quantities are not accurate and in line with the Contract Documents or progress of work

8.6. Shop Drawings/Submittals Reviews

8.6.1. Kimley-Horn will review and approve or take other appropriate action in respect to Shop Drawings and Material Submittals and other data the Contractor is required to submit, but only for conformance with the information given in the Contract Documents. Such review and approvals or other action will not extend to means, methods, techniques, equipment choice and usage, sequences, schedules, or procedures of construction or to related safety precautions and programs

8.7. Request for Information (RFIs)

8.7.1. Kimley-Horn will respond to reasonable and appropriate Contractor requests for information and issue necessary clarifications and interpretations of the Contract Documents to the City as appropriate to the orderly completion of Contractor's work. Any variations from the Contract Documents will require authorization and approval from the City

8.8. Request for Proposals (RFPs) and Change Orders (COs)

8.8.1. Kimley-Horn will review up to two (2) change orders or request for proposals requested by the City

8.9. Substantial and Final Completion Walk-Throughs

8.9.1. Kimley-Horn will conduct a substantial and final completion walkthrough with the City to determine if the completed Work of Contractor is in general conformance with the Contract Documents. Kimley-Horn will develop a list of deficient items at the conclusion of the substantial completion walk and submit to the City and Contractor. Upon notification by the Contractor and City that deficient items have been addressed to the City's satisfaction, Kimley-Horn will recommend final payment to the Contractor and submit a Notice of Acceptability of Work

9. Record Drawings and Project Closeout

9.1. Prepare Record Drawings from Contractor As-Builts

9.1.1. The Contractor is responsible for providing a redlined set of construction drawings to Kimley-Horn identifying all changes made to the approved design during construction

9.2. Deliverables
9.2.1. One (1) CD containing final record drawings in .pdf format
9.2.2. One (1) CD with final unsealed drawings in CADD (.dwg) format

10. Reimbursable Project Expenses
10.1. Mileage for site visits and meetings. Mileage will be reimbursed based on the current standard business mileage rate of $0.56 per mile (Estimated xx meetings/site visits at 40 mi/RT
10.2. Large scale plotting for any document or plot in excess of 11" x 17"

SUPPLEMENTAL SERVICES

Kimley-Horn has coordinated with each sub-consultant and identified potential areas that may require supplemental design services to support this project. Many of these services are listed in the individual sub-consultant's fee proposal but are not meant to be a complete list. The tasks below provide a brief outline of the proposed supplemental services and will only be completed upon written authorization from the Client. Kimley-Horn will coordinate development of a fee proposal with necessary sub-consultants and submit to the City for review.

1. Subsurface Utility Engineering
1.1. Coordinate with SUE and Perform up to 35 QL-A test holes
1.2. Review draft SUE test hole data summary and sheets and QL-B markings
1.3. Coordinate with SUE and perform up to an additional four (4) days of QL-B/designation
1.4. Prepare pothole plan

Upon identification of illumination alignment and light standards, gateway foundation locations, and water main connection locations, Kimley-Horn will evaluate the total need for QL-A and B services and develop a pothole plan to be utilized by the SUE sub-consultant. Kimley-Horn will obtain a revised fee from the SUE sub-consultant for actual services required. Any funds remaining in this task at the conclusion of this project will be returned to the City. Since the fee for SUE services is just an estimate, in the event additional SUE is required due to the proposed design Kimley-Horn will obtain a revised proposal from the SUE sub-consultant and submit an additional service proposal to the City for approval.

2. Signage and Wayfinding
2.1. Identification and strategy to be completed by Kimley-Horn
2.2. Design package coordination with sub-consultant
2.3. Sub-consultant contract management
2.4. Signage and wayfinding sub-consultant services
2.4.1. This task represents the selected signage and wayfinding features to be proposed for the Main Street corridor. The sub-consultant fee for this supplemental service task is an estimate only. Upon identification of the proposed theme, Kimley-Horn will contract with a signage and wayfinding consultant and obtain a representative fee to perform the work

3. Survey
   3.1. Up to an additional four (4) survey trips to obtain QL-A/B survey as listed in SUP 1
   3.2. Data processing and tie QL-A/B into QL-C/D utility survey
   3.3. Sub-consultant management and coordination

4. TDLR Registration, Review and Inspection
   4.1. Coordination and sub-contract management
   4.2. Registration, Review and Final Inspection

ASSUMPTIONS

The following tasks document assumptions made by Kimley-Horn for development of this scope and fee proposal:

1. Project limits along Main Street range from Curtiss Avenue to Schertz Pkwy
2. Seven (7) month design schedule anticipated
3. Up to two (2) conceptual layouts will be developed and presented to City
4. City will select preferred option at conclusion of planning and conceptual layout phase prior to proceeding with 90% design phase
5. Underground storm sewer design will not be required
6. Landscape/hardscape features will remain at grade (not below ground)
7. Gateway feature will be installed on each end of project
8. Utility design will be limited to three (3) locations where irrigation will be connected to existing water mains
9. Three traffic control phases and detour routes will be sufficient
10. Festoon lighting will be designed for one (1) intersection
11. Up to three (3) up lights for landscaping and signage features
12. Up to six (6) electric outlets will be provided, located at Gateways and/or landscaped areas
13. Street and pedestrian lighting will be provided by a single pole and fixture
14. Up to two (2) custom design foundation designs for light poles
15. All improvements will be contained within existing right-of-way (ROW)
16. All permit fees will be paid by the City
17. Partial TxDOT ROW will be impacted and a UIR will be developed and submitted. No temporary construction driveways will be required on TxDOT roadways
18. Improvements will remain outside of Union Pacific Railroad (UPRR) ROW
19. One round of combined City comments will be addressed at each design milestone
20. City will utilize Request for Competitive Sealed Proposals (RFCSP) Bid Format
21. Six (6) month construction schedule anticipated
22. If TDLR inspection is required, this task assumes no variances

EXCLUSIONS

The following services are excluded from the basic scope of this project, but can be completed by Kimley-Horn upon execution of an additional service should the City request it:

1. Street reprofiling for full reconstruction and cross sections
2. Utility relocation other than what is specified in the basic scope of services
3. Drainage design services
    a. Kimley-Horn will evaluate options to maintain streetflow drainage at intersections where bulb outs are installed
    b. An underground storm drain system is not located along the complete Main Street corridor, other than a cross drainage pipe at the Pfeil street intersection that outfalls to TxDOT SH 78 and a single pipe between Pfeil Street and Schertz Pkwy. Designing improvements that require connections to underground drainage would require the installation of a complete underground network. Additionally, this area is within the 100-year floodplain and has a substantial contributing watershed, therefore 2-dimensional modeling would be required to adequately size any proposed storm drain improvements
4. Land acquisitions services
5. Environmental and hazardous materials review
6. Design for special or decorative retaining wall. If retaining walls are required, it is assumed a standard concrete retaining wall less than 3-foot in height will be sufficient
7. Design of fountains, pools, or other special features
8. Additional round of comments to what is specified under Assumptions
9. Milestones in addition to what is proposed for this project
10. Any other services not listed in the basic services

SCHEDULE

Kimley-Horn estimates a total design schedule of seven (7) months for this project. Delays in obtaining information from utility providers and the selected placemaking theme from the City could impact the proposed schedule and submission of final deliverables. Kimley-Horn will develop a detailed design schedule to include all scope of services upon execution of this task order assignment.

FEE AND BILLING

Consultant will perform the above outlined basic scope of services, including reimbursable project expenses and sub-consultant services, for a lump sum fee of **$507,025**. Supplemental sub-consultant services were identified based on our understanding of the project, and an amount of $129,060 has been included in this scope and fee proposal to support the proposed design. The total fee for basic and supplemental services reflective of the scope of services presented within this proposal is a not to exceed amount of **$636,085**. Should additional services be required, Kimley-Horn will coordinate with necessary sub-consultants to obtain a proposal for submittal to the City and will begin work upon formal authorization to proceed. The task and fee summary below provides a breakdown of the basic and supplemental services, and can be further referenced in the project work plan included as Attachment A.

Task	Description of Service	Amount	Basis of Compensation
	BASIC SERVICES		
1	Project Management	$ 49,470.00	[Lump Sum]
2	Topographic Survey	$ 35,240.00	[Lump Sum]
3	Geotechnical Investigaton and Report Preparation	$ 16,320.00	[Lump Sum]
4	Planning and Conceptual Layouts	$ 106,010.00	[Lump Sum]
5	90% Design	$ 201,870.00	[Lump Sum]
6	Final Design	$ 41,560.00	[Lump Sum]
7	Procurement	$ 11,805.00	[Lump Sum]
8	Construction Phase	$ 36,270.00	[Lump Sum]
9	Record Drawings and Project Closeout	$ 6,680.00	[Lump Sum]
10	Reimbursable Project Expenses	$ 1,800.00	[Lump Sum]
	Total Compensation (BASIC SERVICES)	**$ 507,025.00**	**[Lump Sum]**
	SUPPLEMENTAL SERVICES		
S-1	Subsurface Utility Engineering	$ 84,720.00	[Lump Sum]
S-2	Signage and Wayfinding	$ 26,730.00	[Lump Sum]
S-3	Topographic Survey	$ 12,360.00	[Lump Sum]
S-4	TDLR	$ 5,250.00	[Lump Sum]
	Total Compensation (SUPPLEMENTAL SERVICES)	**$ 129,060.00**	**[Lump Sum]**
	Total Compensation (BASIC + SUPPLEMENTAL SERVICES)	**$ 636,085.00**	**[Lump Sum]**

Kimley-Horn will submit monthly progress invoices to Client in accordance with terms and conditions of executed professional services contract.

We appreciate the opportunity to be of service to the City and look forward to successfully completing this project. Please don't hesitate to contact me at stephen.aniol@kimley-horn.com or (210) 321-3404 should you have any questions on the proposed scope and fee.

Sincerely,
KIMLEY-HORN AND ASSOCIATES, INC.
TBPE# 928

By: Stephen J. Aniol, P.E.
Senior Project Manager

Attachments
1 – Project Work Plan
2 – Project Limits
3 – Geotechincal Engineering Proposal (Terracon)
4 – SUE Sub-Consultant Proposal (The Rios Group)

CITY OF SCHERTZ

Fee/Price Proposal Breakdown for Professional Services

ATTACHMENT 1 - PROJECT WORK PLAN

Project Name:	**Main Street Revitalization** **On-Call Engineering Services, Task Order - 07**
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	8/2/2021
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Stephen Aniol, PE

			Position/Personnel Title	QA/QC Manager	Sr. Project Manager	Senior Civil Engineer	Civil Engineer	Staff Engineer II	Project Manager / RPLS	Registered Surveyor	Surveyor-In-Training	Administrative /Clerical	Landscape Architectural Staff - Non Contract Rates: Senior Landscape Architect	Landscape Architect	Senior Staff Landscape Architect	Staff Landscape Architect		Consultant Fee Total	Sub-Consultant Fee Total	Fee Total
			Contract Approved Rates (Engineering and Survey)	$ 225.00	$ 195.00	$ 180.00	$ 145.00	$ 115.00	$ 175.00	$ 145.00	$ 110.00	$ 75.00	$ 210.00	$ 150.00	$ 135.00	$ 120.00				
			Task to be performed/Phase Description (including Sub-consultant work)														Total Hours			
			BASIC SERVICES																	
1			**Project Management**	**0**	**136**	**0**	**106**	**8**	**0**	**0**	**0**	**20**	**16**	**12**	**0**	**0**	**298**	**$ 49,470.00**	**$ -**	**$ 49,470.00**
1.1			Prepare Monthly Summary Reports/Invoicing		16		24					16					56	$ 7,800.00	$ -	
1.2			Sub-consultant management		8		16	8				4					36	$ 5,100.00	$ -	
1.3			Schedule Development and Monthly Updates		12		16										28	$ 4,660.00	$ -	
1.4			Ongoing coordination and communications with Client and internal Team Meetings		100		50						16	12			178	$ 31,910.00	$ -	
2			**Topographic Survey**	**0**	**0**	**0**	**0**	**0**	**14**	**34**	**86**	**0**	**0**	**0**	**0**	**0**	**134**	**$ 16,840.00**	**$ 18,400.00**	**$ 35,240.00**
2.1			Boundary and Improvements Survey						2	6	12						20	$ 2,540.00	$ 3,800.00	
2.2			Topographic Design Survey						4	10	28						42	$ 5,230.00	$ 11,800.00	
2.3			Tree Survey						2	2	4						8	$ 1,080.00	$ 2,300.00	
2.4			Locate Geotechnical Bore Holes						1	2	4						7	$ 905.00	$ 500.00	
2.5			Project Control Sheet														0	$ -	$ -	
	2.5.1		90% and final design phase						1	2	8						11	$ 1,345.00	$ -	
2.6			Deliverables														0	$ -	$ -	
	2.6.1		Produce 1 CAD file inclusive of all surveyed data						4	12	30						46	$ 5,740.00	$ -	
3			**Geotechnical Investigaton and Report Preparation**	**0**	**8**	**0**	**12**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**28**	**$ 4,220.00**	**$ 12,100.00**	**$ 16,320.00**
3.1			Perform up to 2 bores (max. 25' depth) and prepare Final Preliminary Geotechnical Report in Adobe PDF format		2		4	4									10	$ 1,430.00	$ 12,100.00	
3.2			Bore layout and coordination		2		4	4									10	$ 1,430.00	$ -	
3.3			Review preliminary geotechnical report		4		4										8	$ 1,360.00	$ -	
																	0	$ -		
4			**Planning and Conceptual Layouts**	**8**	**62**	**0**	**94**	**178**	**0**	**0**	**0**	**12**	**74**	**130**	**0**	**184**	**742**	**$ 106,010.00**	**$ -**	**$ 106,010.00**
4.1			Utility														0	$ -	$ -	
	4.1.1		Utility research and investigations		3		8	18									29	$ 3,815.00	$ -	
4.2			Illumination														0	$ -	$ -	
	4.2.1		On-Site Meeting with Electric Service Provider				6	6									12	$ 1,560.00	$ -	
	4.2.2		Develop Two Options for Lighting		2		8										10	$ 1,550.00	$ -	
4.3			Landscape Architecture														0	$ -	$ -	
	4.3.1		Research and Urban Connectivity									6	4	4		10	24	$ 3,090.00	$ -	
	4.3.2		Corridor Walk with City Staff and memo		4		4						6	6			20	$ 3,520.00	$ -	
	4.3.3		Technical Landscape Assessment and improvement identification										6	24		10	40	$ 6,060.00	$ -	
	4.3.4		Outline Approaches for design, priorities and design vocabulary, develop design recommendations and direction. Provide up to three perspective drawings of initial direction.		4		4					2	12	32		40	94	$ 13,630.00	$ -	
	4.3.5		Landscape and Lighting Approach										10	14		20	44	$ 6,600.00	$ -	
	4.3.6		Two Conceptual Milestone Options including design, preliminary details, preliminary coordination and preliminary planting	8	4		4					4	20	36		72	148	$ 21,700.00	$ -	
4.4			Roadway														0	$ -	$ -	
	4.4.1		Data Collection Review		2		6	16									24	$ 3,100.00	$ -	
	4.4.2		Site Visit with photo documentation (Est. 2 Trips)		6		6	6									18	$ 2,730.00	$ -	
	4.4.3		Develop conceptual route recommendations, layouts, and typical sections (2 concepts - 10 Plan Sheets per concept)		8		24	60									92	$ 11,940.00	$ -	
4.5			Structural														0	$ -	$ -	
	4.5.1		Conceptual gateway support (structural options and costs)		2		4										6	$ 970.00	$ -	
4.6			Preliminary Opinion of Probable Construction Cost (OPCC) for three (3) concepts.		8		16	40					6	14		20	104	$ 14,240.00	$ -	
4.7			Permitting														0	$ -	$ -	
	4.7.1		Initial Outreach / Coordination Meeting with TxDOT		4		4										8	$ 1,360.00	$ -	
4.8			Meetings and Coordination														0	$ -	$ -	
	4.8.1		Prepare for and attend coordination meetings (Est. 3 Meetings)		9			12					10			12	43	$ 6,675.00	$ -	
	4.8.2		Attend and present at city council meeting		4			16									20	$ 2,620.00	$ -	
	4.8.3		Prepare meeting notes (4 Meeting Notes)		2			4									6	$ 850.00	$ -	
5			**90% Design**	**0**	**115**	**20**	**256**	**821**	**0**	**0**	**0**	**18**	**56**	**80**	**0**	**160**	**1526**	**$ 201,870.00**	**$ -**	**$ 201,870.00**
5.1			Utility														0	$ -	$ -	
	5.1.1		Develop utility contact spreadsheet		1		2	4									7	$ 945.00	$ -	
	5.1.2		Prepare utility conflict matrix		2		8	16									26	$ 3,390.00	$ -	
	5.1.3		Utility Coordination and Meeting		4		4	12									20	$ 2,740.00	$ -	
5.2			Illumination														0	$ -	$ -	
	5.2.1		Existing Conditions and Removals (10 sheets)		1		8	40									49	$ 5,955.00	$ -	
	5.2.2		Photometric Analysis		2		8	30									40	$ 5,000.00	$ -	
	5.2.3		Proposed Illumination Layout (10 sheets)		8		40	150									198	$ 24,610.00	$ -	
	5.2.4		One Line Diagrams		2		2	10									14	$ 1,830.00	$ -	
	5.2.5		Wiring Charts		2		4	20									26	$ 3,270.00	$ -	
	5.2.6		Summary Charts		2		4	20									26	$ 3,270.00	$ -	
	5.2.7		Standard Details		2		1	5									8	$ 1,110.00	$ -	
	5.2.8		Custom Foundation for Festoon Poles		4	10											14	$ 2,580.00	$ -	
	5.2.9		Custom Foundation for Lighting Poles		4	10											14	$ 2,580.00	$ -	
	5.2.10		Electrical Voltage Drop Calculations		2		4	20									26	$ 3,270.00	$ -	
	5.2.11		Electrical Service Panel Schedules		2		4	20									26	$ 3,270.00	$ -	
5.3			Landscape Architecture														0	$ -	$ -	
	5.3.1		90% Construction Documents		4		4					12	32	64		124	240	$ 33,460.00	$ -	
	5.3.2		Gateway Design										8	16		20	44	$ 6,480.00	$ -	
5.4			Roadway & Utility Design														0	$ -	$ -	
	5.4.1		Develop General Sheets		4		16	40									60	$ 7,700.00	$ -	

CITY OF SCHERTZ

Fee/Price Proposal Breakdown for Professional Services

ATTACHMENT 1 - PROJECT WORK PLAN

Project Name:	**Main Street Revitalization** **On-Call Engineering Services, Task Order - 07**
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	8/2/2021
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Stephen Aniol, PE

			Position/Personnel Title	QA/QC Manager	Sr. Project Manager	Senior Civil Engineer	Civil Engineer	Staff Engineer II	Project Manager / RPLS	Registered Surveyor	Surveyor-In-Training	Administrative /Clerical	Landscape Architectural Staff - Non Contract Rates: Senior Landscape Architect	Landscape Architect	Senior Staff Landscape Architect	Staff Landscape Architect		Consultant Fee Total	Sub-Consultant Fee Total	Fee Total
			Contract Approved Rates (Engineering and Survey)	$ 225.00	$ 195.00	$ 180.00	$ 145.00	$ 115.00	$ 175.00	$ 145.00	$ 110.00	$ 75.00	$ 210.00	$ 150.00	$ 135.00	$ 120.00				
			Task to be performed/Phase Description (including Sub-consultant work)														Total Hours			
		5.4.2	Develop Roadway Geometrics and Plan Sheets (10 Sheets)		4		16	40									60	$ 7,700.00	$ -	
		5.4.3	Design Intersection Grading and develop sheets (3 intersections)		4		16	48									68	$ 8,620.00	$ -	
		5.4.4	Develop Signing and Pavement Markings (10 Sheets)		4		16	40									60	$ 7,700.00	$ -	
		5.4.5	Develop Water tie-in plans for up to three (3) locations for irrigation		4		8	32									44	$ 5,620.00	$ -	
		5.4.6	Develop Traffic Control Plan Narrative		1		2	8									11	$ 1,405.00	$ -	
		5.4.7	Design Traffic Control Layout and Detour sheets (3 Phases - 9 sheets and 3 Detours - 3 sheets)		8		32	80									120	$ 15,400.00	$ -	
		5.4.8	Develop SW3P sheet and narrative		1		2	4									7	$ 945.00	$ -	
		5.4.9	Incorporate Standards				1	4									5	$ 605.00	$ -	
	5.5		Structural														0	$ -	$ -	
		5.5.1	Structural gateway design and plan sheets (2 gateways)		12		18	80									110	$ 14,150.00	$ -	
	5.6		Permitting - Prepare and Submit TxDOT UIR Permits		6		8	24									38	$ 5,090.00	$ -	
	5.7		Meetings and Coordination														0	$ -	$ -	
		5.7.1	Prepare for and attend meetings (Est. 2 Meetings)		8			12					8			12	40	$ 6,060.00	$ -	
		5.7.2	Attend meeting with Electric Service Provider		3		3										6	$ 1,020.00	$ -	
		5.7.3	Prepare meeting notes				3	2									5	$ 665.00	$ -	
	5.8		QAQC														0	$ -	$ -	
		5.8.1	Plan review meeting (90% Submittal)		4			4					4				12	$ 2,080.00	$ -	
		5.8.2	Provide responses to client comments		4		4	4					4			4	20	$ 3,140.00	$ -	
	5.9		Submittal														0	$ -	$ -	
		5.9.1	Prepare & Compile Opinion of Probably Construction Cost (OPCC)		2		8	20									30	$ 3,850.00	$ -	
		5.9.2	Develop contract documents		2		4	16									22	$ 2,810.00	$ -	
		5.9.3	Develop list of governing specifications		1		2	8									11	$ 1,405.00	$ -	
		5.9.4	Prepare and Submit 90% Plan Set		1		4	8				6					19	$ 2,145.00	$ -	
	6		**Final Design**	**8**	**26**	**0**	**55**	**129**	**0**	**0**	**0**	**0**	**12**	**24**	**0**	**48**	**302**	**$ 41,560.00**	**$ -**	**$ 41,560.00**
	6.1		Illumination														0	$ -	$ -	
		6.1.1	Address City comments and Finalize Illumination design		4		12	32									48	$ 6,200.00	$ -	
	6.2		Landscape Architecture														0	$ -	$ -	
		6.2.1	Address City comments and Finalize Landscape design										12	24		48	84	$ 11,880.00	$ -	
	6.3		Roadway & Utilities														0	$ -	$ -	
		6.3.1	Address City comments and Finalize Roadway design		4		16	40									60	$ 7,700.00	$ -	
	6.4		Structural														0	$ -	$ -	
		6.4.1	Address City comment and Finalized Structural gateway design		2		4	16									22	$ 2,810.00	$ -	
	6.5		Meetings and Coordination														0	$ -	$ -	
		6.5.1	Prepare for and attend meetings (Est. 1 Meetings)		3		4										7	$ 1,165.00	$ -	
		6.5.2	Prepare meeting notes				1	1									2	$ 260.00	$ -	
	6.6		QAQC	8	4												12	$ 2,580.00	$ -	
	6.7		Submittal														0	$ -	$ -	
		6.7.1	Finalized Opinion of Probably Construction Cost (OPCC)		2		4	16									22	$ 2,810.00	$ -	
		6.7.2	Finalize contract documents		2		4	8									14	$ 1,890.00	$ -	
		6.7.3	Finalize list of governing specifications		1		2	4									7	$ 945.00	$ -	
		6.7.4	Prepare and Submit 100% Plan Set		4		8	12									24	$ 3,320.00	$ -	
	7		**Procurement**	**0**	**24**	**0**	**27**	**24**	**0**	**0**	**0**	**6**	**0**	**0**	**0**	**0**	**81**	**$ 11,805.00**	**$ -**	**$ 11,805.00**
	7.1		Assist Schertz with Project Advertising		2												2	$ 390.00	$ -	
	7.2		Prepare Meeting Agenda for & Attend Pre-Bid Meeting		3			4									7	$ 1,045.00	$ -	
	7.3		Prepare Pre-Bid Meeting Notes				2										2	$ 290.00	$ -	
	7.4		Contractor Questions		4		8										12	$ 1,940.00	$ -	
	7.5		Prepare & Issue Addenda (Up to 2 Addenda)		4		8	12									24	$ 3,320.00	$ -	
	7.6		Attend Bid Opening		2												2	$ 390.00	$ -	
	7.7		Contractor Qualification & Bid Evaluation		2		4										6	$ 970.00	$ -	
	7.8		Prepare Bid Tabulation				1					6					7	$ 595.00	$ -	
	7.9		Assist Schertz with Bid Negotiations		4												4	$ 780.00	$ -	
	7.10		Prepare Construction Contract Award Recommendation Letter		1		2										3	$ 485.00	$ -	
	7.11		Prepare Conformed Plan Set		2		2	8									12	$ 1,600.00	$ -	
	8		**Construction Phase**	**0**	**56**	**0**	**86**	**112**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**254**	**$ 36,270.00**	**$ -**	**$ 36,270.00**
	8.1		Pre-Construction Meeting		3		3										6	$ 1,020.00	$ -	
	8.2		Monthly Construction Progress Meetings and Site Visits (Anticipate 6 Monthly Meetings)		12		12	36									60	$ 8,220.00	$ -	
	8.3		Construction Site Visits														0	$ -	$ -	
		8.3.1	Monthly site visits (Anticipate 6 Site Visits)		9		9	12									30	$ 4,440.00	$ -	
		8.3.2	Prepare Observation Report for each Site Visit				6	12									18	$ 2,250.00	$ -	
	8.4		Pay Estimate Reviews		6		12										18	$ 2,910.00	$ -	
	8.5		Shop Drawings/Submittal Review		8		24	24									56	$ 7,800.00	$ -	
	8.6		Requests for Information (RFIs)		10		16	24									50	$ 7,030.00	$ -	
	8.7		Requests for Proposals (RFPs) and Change Orders (COs)		4		4										8	$ 1,360.00	$ -	
	8.8		Substantial/Final Completion Walk-Throughs		4			4									8	$ 1,240.00	$ -	
	9		**Record Drawings and Project Closeout**	**0**	**4**	**0**	**6**	**20**	**0**	**0**	**0**	**0**	**1**	**4**	**0**	**16**	**51**	**$ 6,680.00**	**$ -**	**$ 6,680.00**
	9.1		Prepare Record Drawings from Contractor As-Builts		4		6	20					1	4		16	51	$ 6,680.00	$ -	
	10		**Reimbursable Project Expenses**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**$ 1,800.00**	**$ -**	**$ 1,800.00**
	10.1		Site Visits (Est. 35 trips for site visits and meetings for design and construction)														0	$ 800.00	$ -	
	10.2		Plotting														0	$ 1,000.00	$ -	

CITY OF SCHERTZ

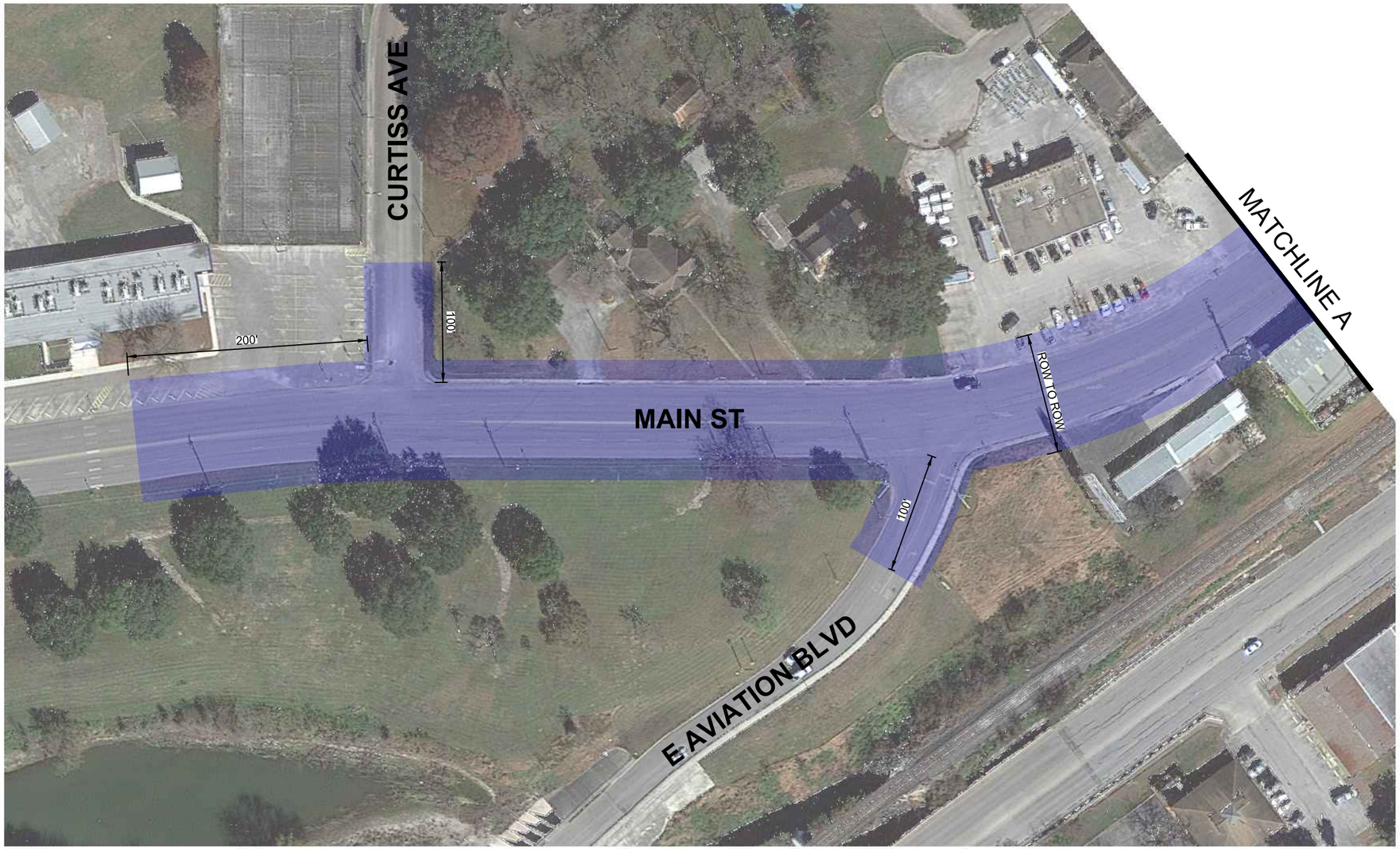
Fee/Price Proposal Breakdown for Professional Services

ATTACHMENT 1 - PROJECT WORK PLAN

Project Name:	**Main Street Revitalization** **On-Call Engineering Services, Task Order - 07**
Design Firm:	Kimley-Horn and Associates, Inc.
Date Proposal Submitted:	8/2/2021
CoS Project Manager:	John Nowak, PE
Kimley-Horn Project Manager:	Stephen Aniol, PE

			Position/Personnel Title	QA/QC Manager	Sr. Project Manager	Senior Civil Engineer	Civil Engineer	Staff Engineer II	Project Manager / RPLS	Registered Surveyor	Surveyor-In-Training	Administrative /Clerical	Landscape Architectural Staff - Non Contract Rates: Senior Landscape Architect	Landscape Architect	Senior Staff Landscape Architect	Staff Landscape Architect		Consultant Fee Total	Sub-Consultant Fee Total	Fee Total
			Contract Approved Rates (Engineering and Survey)	$ 225.00	$ 195.00	$ 180.00	$ 145.00	$ 115.00	$ 175.00	$ 145.00	$ 110.00	$ 75.00	$ 210.00	$ 150.00	$ 135.00	$ 120.00				
			Task to be performed/Phase Description (including Sub-consultant work)														Total Hours			
			Total Hours (Basic Services):	16	431	20	642	1300	14	34	86	56	159	250	0	408	3416			
			Total Fee (Basic Services):															**$ 476,525.00**	**$ 30,500.00**	**$ 507,025.00**
			SUPPLEMENTAL SERVICES																	
	S-1		**Subsurface Utility Engineering**	**0**	**12**	**0**	**32**	**36**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**80**	**$ 11,120.00**	**$ 73,600.00**	**$ 84,720.00**
	1.1		Coordinate with SUE & Perform up to 35 QL-A SUE		4		8	8									20	$ 2,860.00	$ 61,650.00	
	1.2		Review draft SUE test hole data sheet & QL-B markings		4		16	8									28	$ 4,020.00		
	1.3		Coordinate with SUE & Perform up to and additional four (4) days of QL-B/designation		2		4	4									10	$ 1,430.00	$ 11,950.00	
	1.4		Prepare pothole plans		2		4	16									22	$ 2,810.00		
	S-2		**Signage and Wayfinding**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**10**	**26**	**0**	**40**	**82**	**$ 11,730.00**	**$ 15,000.00**	**$ 26,730.00**
	2.1		Signage and Wayfinding identificatoin and strategy										6	10		24	40	$ 5,640.00	$ -	
	2.2		Package Coordination with sub consultant										4	16		16	36	$ 5,160.00	$ -	
	2.3		Sub consultant contract management		4							2					6	$ 930.00	$ -	
	2.4		Signage and Wayfinding sub-consultant services														0	$ -	$ 15,000.00	
	S-3		**Topographic Survey**	**0**	**4**	**0**	**4**	**4**	**4**	**16**	**32**	**0**	**0**	**0**	**0**	**0**	**64**	**$ 8,360.00**	**$ 4,000.00**	**$ 12,360.00**
	3.1		Survey trips to obtain SUE QL-A locations (up to 35 QL-A locations) (up to 4 trips)		4		4	4	4	16	32						64	$ 8,360.00	$ 4,000.00	
	S-4		**TDLR**	**0**	**7**	**0**	**4**	**7**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**18**	**$ 2,750.00**	**$ 2,500.00**	**$ 5,250.00**
	4.1		Coordination and sub-contract management		4		4	4									12	$ 1,820.00	$ -	
	4.2		Registration, Review and Inspection		3			3									6	$ 930.00	$ 2,500.00	
			Total Hours (Supplemental Services):	0	27	0	40	47	4	16	32	2	10	26	0	40	244			
			Total Fee (Supplemental Services):															**$ 33,960.00**	**$ 95,100.00**	**$ 129,060.00**
			TOTAL FEE (Basic + Supplemental Services):															**$ 510,485.00**	**$ 125,600.00**	**$ 636,085.00**

ATTACHMENT 2 - PROJECT LIMITS



N

0 25 50 100
SCALE: 1"=100'

PRELIMINARY
FOR REVIEW ONLY
Not for construction, bidding, or permit purposes.
Kimley»Horn
Engineer STEPHEN ANIOL
P.E. No. 112658 Date $DATE$

Kimley»Horn
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
TBPE REGISTERED FIRM NO. F-928 PHONE: 210-541-9166 WEBSITE:Kimley-Horn.com

No.	Revision	Drawn	Approved	Date

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

MAIN ST
ILLUMINATION
PROJECT

SURVEY LIMITS SCHEMATIC

PROJECT NO.:		DATE:	
DRWN. BY: HF	DSGN. BY:	CHKD. BY: SJA	SHEET NO.: 1

DATE: 7/27/2021 3:48:19 PM USER:
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ATTACHMENT 2 - PROJECT LIMITS

N

0 25 50 100
SCALE: 1"=100'

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Engineer STEPHEN ANIOL
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601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
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No.	Revision	Drawn	Approved	Date

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SEAL OF THE CITY OF SCHERTZ INCORPORATED 1958

MAIN ST ILLUMINATION PROJECT

SURVEY LIMITS SCHEMATIC

PROJECT NO.: DATE:
DRWN. BY: HF DSGN. BY: CHKD. BY: SJA SHEET NO.: 2

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DATE: 7/27/2021 3:48:36 PM
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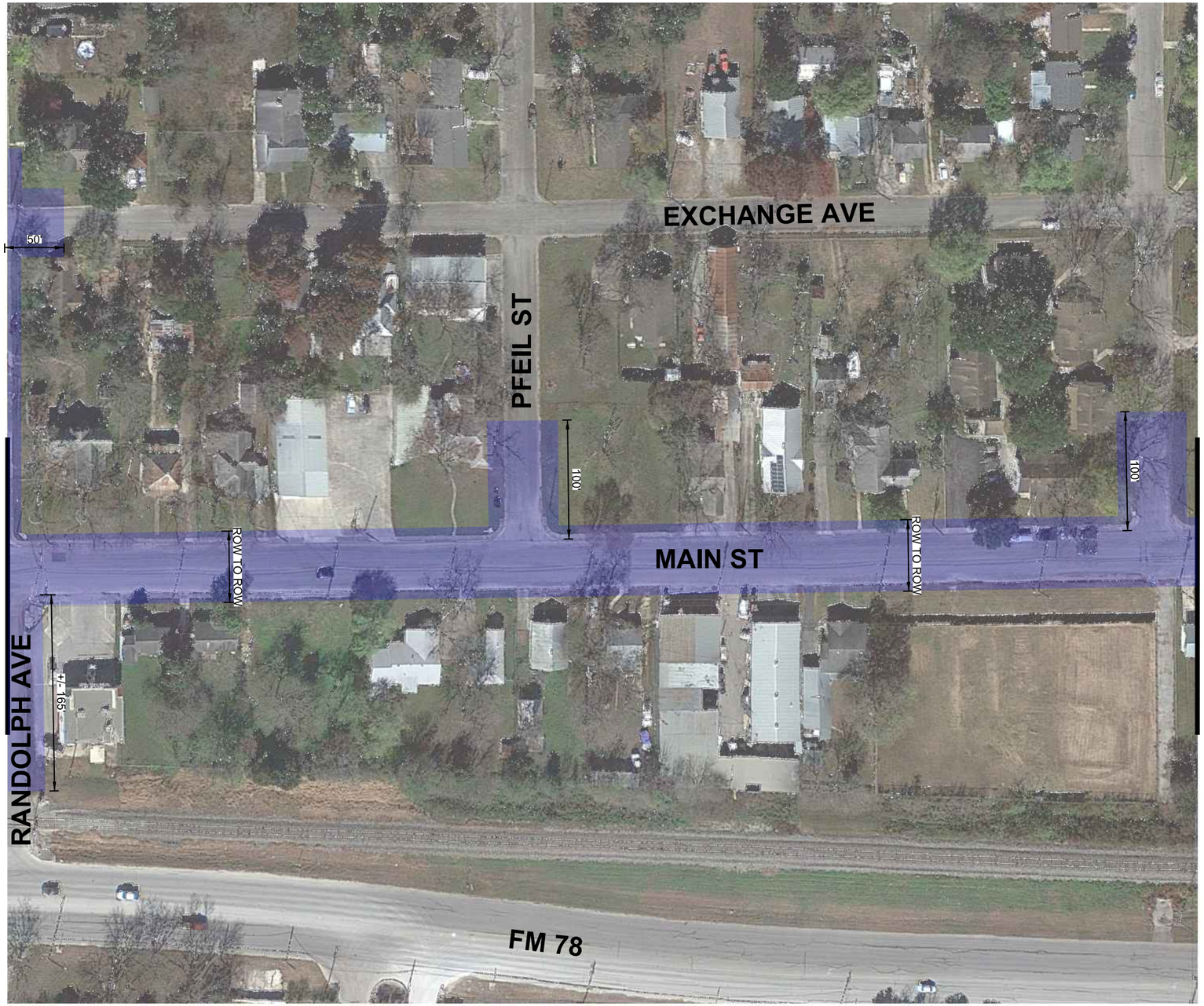
ATTACHMENT 2 - PROJECT LIMITS



N

0 25 50 100
SCALE: 1"=100'

PRELIMINARY
FOR REVIEW ONLY
Not for construction, bidding, or permit purposes.
Kimley»Horn
Engineer STEPHEN ANIOL
P.E. No. 112658 Date $DATE$

Kimley»Horn
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
TBPE REGISTERED FIRM NO. F-928 PHONE: 210-541-9166 WEBSITE:kimley-Horn.com

No.	Revision	Drawn	Approved	Date

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

MAIN ST
ILLUMINATION
PROJECT

SURVEY LIMITS SCHEMATIC

PROJECT NO.:		DATE:	
DRWN. BY: HF	DSGN. BY:	CHKD. BY: SJA	SHEET NO.: 3

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ATTACHMENT 2 - PROJECT LIMITS

N

0 25 50 100
SCALE: 1"=100'

PRELIMINARY
FOR REVIEW ONLY
Not for construction, bidding, or permit purposes.
Kimley»Horn
Engineer STEPHEN ANIOL
P.E. No. 112658 Date $DATE$

Kimley»Horn
601 NW LOOP 410, SUITE 350
SAN ANTONIO, TEXAS 78216
TBPE REGISTERED FIRM NO. F-928 PHONE: 210-541-9166 WEBSITE: Kimley-Horn.com

No.	Revision	Drawn	Approved	Date

CITY OF SCHERTZ TEXAS
ENGINEERING AND PUBLIC WORKS

SEAL OF THE CITY OF SCHERTZ INCORPORATED 1958

MAIN ST ILLUMINATION PROJECT

SURVEY LIMITS SCHEMATIC

PROJECT NO.: DATE:
DRWN. BY: HF DSGN. BY: CHKD. BY: SJA SHEET NO.: 4

DATE: 7/27/2021 3:49:14 PM USER:
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July 29, 2021

ATTACHMENT 3 - Geotech

Kimley-Horn
601 NW Loop 410, Suite 350
San Antonio, TX 78216

Attn: Mr. Stephen J. Aniol, P.E.
D: (210) 321-3404
M: (210) 612-0546
E: Stephen.Aniol@kimley-horn.com

Re: Revised Proposal for Geotechnical Engineering Services
Proposed Main Street Revitalization
Along Main Street between Curtiss Ave and Schertz Pkwy
City of Schertz, Texas
Terracon Proposal No. P90215160R

Dear Mr. Aniol:

We appreciate the opportunity to submit this Revised Proposal to Kimley-Horn to provide Geotechnical Engineering services for the above referenced project. **We understand that we have been selected to provide these services for this publicly funded project. Therefore, providing cost information is in compliance with the Texas Professional Services Procurement Act.** The following are exhibits to the attached Agreement for Services.

Exhibit A	Project Understanding
Exhibit B	Scope of Services
Exhibit C	Compensation and Project Schedule
Exhibit D	Site Location and Nearby Geotechnical Data
Exhibit E	Anticipated Exploration Plan

Our base fee to perform the scope of services described in this Revised Proposal is in **Exhibit C**. Terracon and Kimley-Horn have a Master Service Agreement for in place (dated March 22, 2016). The proposed Scope of Services may be authorized by a Purchase Order referencing the existing Master Services Agreement. Services will be initiated upon acceptance of PO and receipt of authorization with written notice to proceed (including e-mail). The terms, conditions and limitations stated in the Master Services Agreement, including sections of this Revised Proposal incorporated therein, shall constitute the exclusive terms and conditions and services to be performed for this project.

Sincerely,
Terracon Consultants, Inc.
(Firm Registration: TX F3272)

Tariqul Anwar, P.E.
Project Engineer

Gregory P. Stieben, P.E., D.GE
Senior Consultant

Terracon

ATTACHMENT 3 - Geotech

EXHIBIT A - PROJECT UNDERSTANDING

Our scope of services is based on our understanding of the project as described by the client and the expected subsurface conditions as described below. We have not visited the project site to confirm the information provided. Aspects of the project, undefined or assumed, are highlighted as shown below. We request the design team verify this information prior to our initiation of field exploration activities.

Site Location and Anticipated Conditions

Item	Description
Parcel Information	The project is located along Main Street between Curtiss Ave and Schertz Pkwy in City of Schertz, Texas. (See Exhibit D)
Existing Improvements	Existing City Streets.
Current Ground Cover	Asphalt.
Existing Topography	Assumed to be relatively level.
Site Access	We expect the site, and all exploration locations, are accessible with our truck-mounted drilling equipment.

Planned Construction

Item	Description
Information Provided	Client has provided us a site plan via an email dated June 14, 2021. Additional information was provided on July 27, 2021.
Proposed Structure	Project will include construction of gateways at two locations. The pavement at the intersection of Curtiss Ave and Main Street may be designed as TxDOT roadway.
Foundations	The structures may be supported on either shallow spread footing or drilled pier foundation system.
Pavements	The pavements at the two boring locations may be reconstructed for new traffic load. The traffic load has not been finalized yet.

EXHIBIT B - SCOPE OF SERVICES

Our proposed scope of services consists of field exploration, laboratory testing, and engineering/project delivery. These services are described in the following sections.

Field Exploration

Based on the client suggestions and our experience with the project site and proposed development, the following boring field exploration is planned:

Number of Borings / Core	Planned Boring / Core Depth (feet) [1, 2]	Planned Location
1 boring	25	Near Curtiss Ave [3]
1 boring	25	Near Schertz Pkwy
1 coring	---	Near Curtiss Ave

1. Below ground surface
2. If rock is encountered at a shallower depth, the borings will be terminated drilling 10 feet into the rock or above mentioned depth whichever is shallower
3. TxDOT sampling will be followed for this boring.

Boring Layout and Elevations: We use handheld GPS equipment to locate borings with an estimated horizontal accuracy of +/-20 feet. Field measurements from existing site features may be utilized. If available, approximate elevations are obtained by interpolation from a site specific, surveyed topographic map.

Subsurface Exploration Procedures: We advance soil borings with a truck-mounted drill rig using continuous flight augers (solid stem and/or hollow stem, as necessary, depending on soil conditions). Four samples are obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Soil sampling is typically performed using thin-wall tube and/or split-barrel sampling procedures. In the thin-walled tube sampling procedure, a thin-walled, seamless steel tube with a sharp cutting edge is pushed hydraulically into the soil to obtain a relatively undisturbed sample. In the split barrel sampling procedure, a standard 2-inch outer diameter split barrel sampling spoon is driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. The samples are placed in appropriate containers, taken to our soil laboratory for testing, and classified by a geotechnical engineer. In addition, we observe and record groundwater levels during drilling and sampling.

Our exploration team prepares field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials encountered during drilling, and our interpretation of subsurface

conditions between samples. Final boring logs, prepared from field logs, represent the geotechnical engineer's interpretation, and include modifications based on observations and laboratory tests.

Visual observation of existing pavement: The general condition/performance of the existing pavement will be evaluated with the pavement core near the intersection of Curtiss Ave and Main Street.

Property Disturbance: We backfill borings with auger cuttings after completion. Pavements are patched with cold-mix asphalt and/or ready mixed concrete, as appropriate. Our services do not include repair of the site beyond backfilling our boreholes, and cold patching existing pavements. Excess auger cuttings are dispersed in the general vicinity of the borehole. Because backfill material often settles below the surface after a period, we recommend boreholes are checked periodically and backfilled, if necessary. We can provide this service, or grout the boreholes for additional fees, at your request.

Laboratory Testing

The samples will be tested in our laboratory to determine physical engineering characteristics. Testing will be performed under the direction of a geotechnical engineer and will include:

- Moisture Content Test.
- Gradation Tests or Percent Finer than the No. 200 Mesh (75-µm) Sieve.
- Atterberg Limits.
- Soluble Sulfate Tests.
- Unconfined Compressive Strength Tests

In addition, one representative bulk samples will be collected from each boring location (total 2 sets of tests) and will be tested for the following:

- pH lime series tests.
- PI lime series tests.
- Moisture density relationship (ASTM D698).
- California Bearing Ratio (CBR).

Safety

Terracon is currently not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our scope of services does not include environmental site assessment services, but identification of unusual or unnatural materials encountered while drilling will be noted on our logs and discussed in our report.

Exploration efforts require borings (and possibly excavations) into the subsurface, therefore Terracon complies with local regulations to request a utility location service Texas811 and Schertz Water Utilities. We consult with the owner/client regarding potential utilities, or other unmarked underground hazards. Based upon the results of this consultation, we consider the need for alternative subsurface exploration methods, as the safety of our field crew is a priority.

Private utilities should be marked by the owner/client prior to commencement of field exploration. Terracon will not be responsible for damage to private utilities that are not made aware to us. If the owner/client is not able to accurately locate private utilities, Terracon can assist the owner/client by coordinating or subcontracting with a private utility locating services. Fees associated with the additional services are not included in our current scope of services and will be forwarded to our client for approval prior to initiating. The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected. The use of a private utility locate service would not relieve the owner of their responsibilities in identifying private underground utilities.

Site Access: Terracon must be granted access to the site by the property owner. By acceptance of this Revised Proposal, without information to the contrary, we consider this as authorization to access the property for conducting field exploration in accordance with the scope of services.

Permitting and Traffic Control: We understand the Terracon will need to obtain a City and TxDOT permit to allow work city street. Terracon will provide traffic control. We understand, we will be provided a City point of contact to obtain City permit.

Engineering and Project Delivery

Results of our field and laboratory programs are evaluated by a professional engineer. The engineer develops a geotechnical site characterization, performs the engineering calculations necessary to evaluate foundation alternatives, and develops appropriate geotechnical engineering design criteria for earth-related phases of the project.

The final geotechnical engineering report provides the following:

- Boring logs with field and laboratory data
- Stratification based on visual soil (and rock) classification
- Groundwater levels observed during and after completion drilling
- Site and Boring location plans
- Subsurface exploration procedures
- Description of subsurface conditions
- Recommended for shallow and deep foundation and engineering design parameters
- Seismic site classification based on 2018 IBC

- Subgrade preparation/earthwork recommendations
- Existing pavement section at the core location
- Options for asphalt and concrete pavement thickness recommendations for the proposed roadway based on the provided traffic loading.
- TxDOT procedure will be used in the pavement design at the intersection of Curtiss Ave and Main Street. New pavement may be designed by matching the existing TxDOT pavement section.

Additional Services

In addition to basic services noted above, the following services are often associated with geotechnical engineering services. Fees for basic services noted above do not include the following:

Review of Plans and Specifications: Our geotechnical report and associated verbal and written communications will be used by others in the design team to develop plans and specifications for construction. Review of the project plans and specifications is a vital part of our geotechnical engineering services. This consists of review of project plans and specifications related to site preparation, foundation construction. Our review includes a written statement, which conveys our opinions, related to the plans and specifications' consistency with our geotechnical engineering recommendations.

Observation and Testing of Pertinent Construction Materials: Development of our geotechnical engineering recommendations and report relies on an interpretation of soil conditions. This is based on widely spaced exploration locations, and assuming construction methods will be performed in a manner sufficient to meet our expectations, and is consistent with recommendations made at the time the geotechnical engineering report is issued. We should be retained to conduct construction observations, and perform/document associated materials testing, for site preparation, foundation, and pavement construction. This allows a more comprehensive understanding of subsurface conditions and necessary documentation of construction, to confirm and/or modify (when necessary) the assumptions and recommendations made by our engineers.

Perform Environmental Assessments: Our scope for this project does not include, either specifically or by implication, an environmental assessment of the site intended to identify or quantify potential site contaminants. If the client/owner is concerned about potential for such conditions and/or contamination, an environmental site assessment should be conducted. We can provide a proposal for an environmental assessment, if desired.

EXHIBIT C - COMPENSATION AND PROJECT SCHEDULE

Compensation

Based upon our understanding of the site, the project as summarized in **Exhibit A**, and our planned scope of services outlined in **Exhibit B**, our base fee is shown in the following table:

Task	Lump Sum Fee
Subsurface Exploration, Laboratory Testing, Traffic Control, Geotechnical Consulting & Reporting	$12,100

Additional services not part of the base fee include the following:

Additional Services (see Exhibit B)	Lump Sum Fee	Initial for Authorization
Plans and Specifications Review	$600	
Construction Materials Testing Services	TBD	

Our scope of services does not include services associated with site clearing, wet ground conditions, tree or shrub clearing, or repair of/damage to existing landscape. If such services are desired by the owner/client, we should be notified so we can adjust our scope of services.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this revised proposal. If conditions are encountered that require scope of services revisions and/or result in higher fees, we will contact you for approval, prior to initiating services. A supplemental proposal stating the modified scope of services as well as its effect on our fee will be prepared. We will not proceed without your authorization, as evidenced by your signature on the Supplemental Agreement for Services form.

Terracon

ATTACHMENT 3 - Geotech

Project Schedule

We developed a schedule to complete the scope of services based upon our existing availability and understanding of your project schedule. However, this does not account for delays in field exploration beyond our control, such as weather conditions, permit delays, or lack of permission to access the boring locations. In the event the schedule provided is inconsistent with your needs, please contact us so we may consider alternatives.

Stage	Posting Date from Notice to Proceed [1, 2]
Project Planning	5 days
Site Characterization	15 days
Geotechnical Engineering	24 days

1. Upon receipt of your notice to proceed and completion of private utility locate we will activate the schedule component with specific, anticipated calendar dates for the three delivery points noted above as well as other pertinent events such as field exploration crews on-site, etc.
2. We will maintain a current calendar of activities. In the event of a need to modify the schedule, the schedule will be updated to maintain a current awareness of our plans for delivery.

EXHIBIT D - SITE LOCATION and NEARBY GEOTECHNICAL DATA

Proposed Main Street Revitalization ■ City of Schertz, Texas

July 29, 2021 ■ Terracon Proposal No. P90215160R

Terracon

ATTACHMENT 3 - Geotech

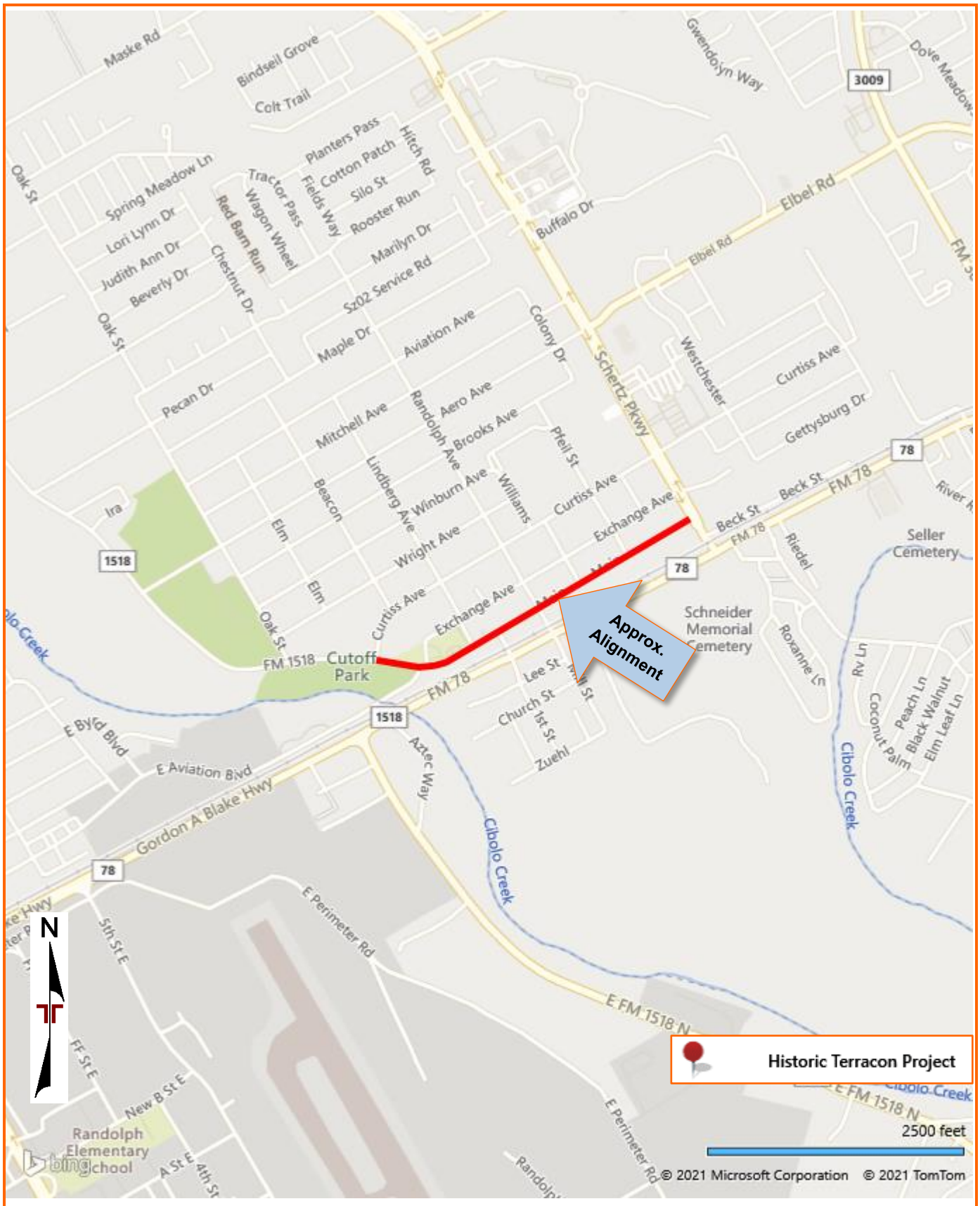

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

EXHIBIT E - ANTICIPATED EXPLORATION PLAN

Proposed Main Street Revitalization ■ City of Schertz, Texas

July 29, 2021 ■ Terracon Proposal No. P90215160R

Terracon

ATTACHMENT 3 - Geotech

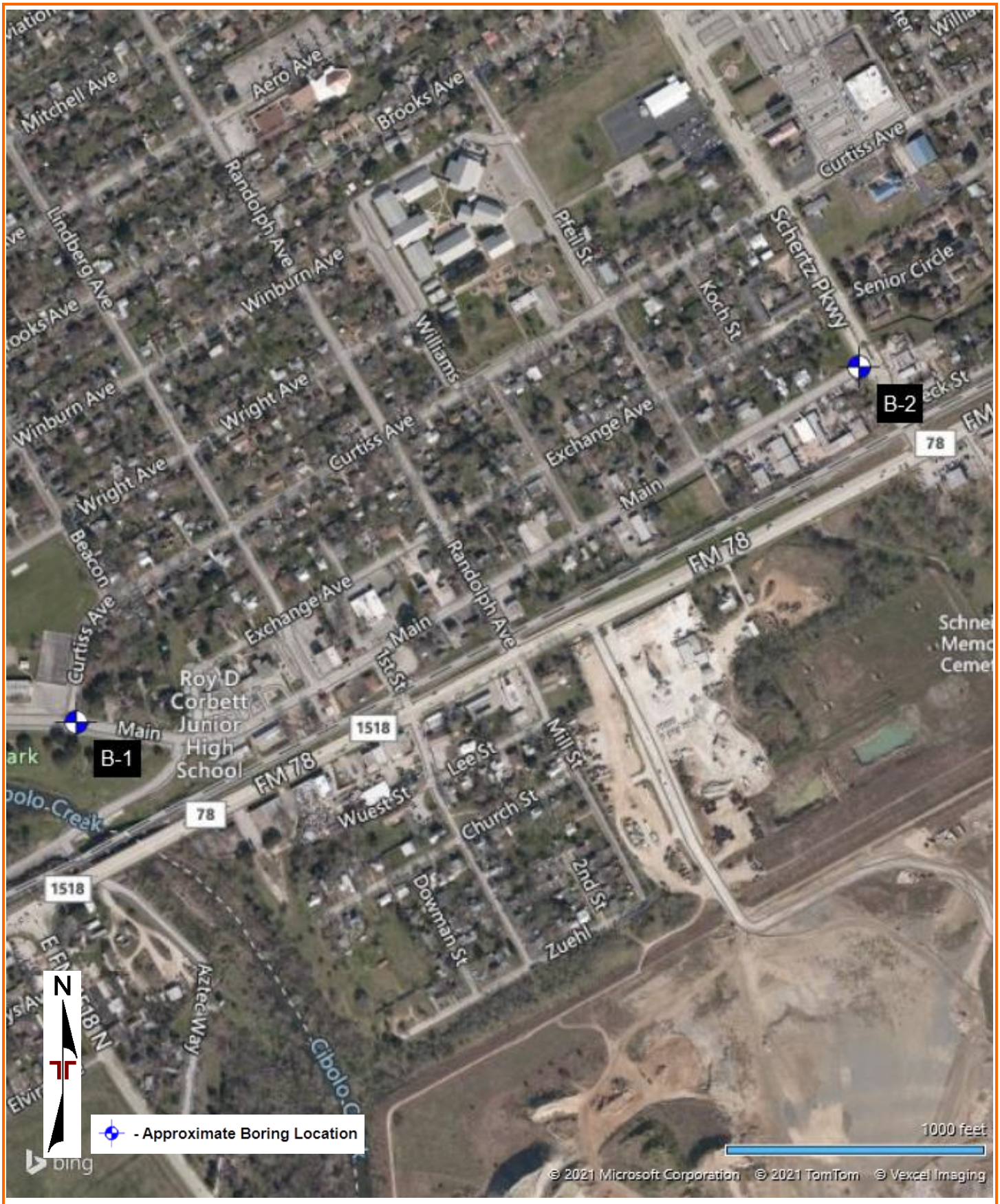

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

ATTACHMENT 3 - Geotech

Terracon

Fee Breakdown for Geotechnical Study
Proposed Main Street Revitalization
Schertz, Texas
Proposal No. P90215160R

Geotechnical Borings	Quantity	Unit	Rate	Subtotal
City Permit & Traffic Control	1	each	$1,500.00	$1,500.00
Drill Rig and Crew Mob/Demob	1	each	$350.00	$350.00
Drilling and Sampling - Soil	50	ft	$17.00	$850.00
Senior Technician (Drilling & Utility Coordination)	12	hour	$75.00	$900.00
Vehicle Charge	2	each	$100.00	$200.00
TxDOT Pavement Core	1	each	$750.00	$750.00
				$4,550.00

Laboratory Testing	Quantity	Unit	Rate	Subtotal
Water Content	16	each	$10.00	$160.00
Liquid and Plastic Limits (3 points)	8	each	$95.00	$760.00
Sieve Analysis (No. 200)	6	each	$50.00	$300.00
Density of Undisturbed Samples - Soil	4	each	$15.00	$60.00
Unconfined Compression - Soil	4	each	$60.00	$240.00
Pocket Penetrometer	8	each	$5.00	$40.00
Soluble Sulfates (TEX-145-E)	3	each	$30.00	$90.00
Maximum Density Relations (proctors)	2	each	$225.00	$450.00
CBR, Three Point	2	each	$150.00	$300.00
Lime modification optimum (using pH)	2	each	$85.00	$170.00
Soil-lime mixture design (using plasticity index)	2	each	$250.00	$500.00
				$3,070.00

Professional Services and Meetings (Two meetings)	Quantity	Unit	Rate	Subtotal
Project Principal	5	hour	$200.00	$1,000.00
Project Manager	16	hour	$150.00	$2,400.00
Staff Engineer	8	hour	$120.00	$960.00
Clerical	2	hour	$60.00	$120.00
				$4,480.00

Total Estimated Fee **$12,100.00**

THE RIOS GROUP

ATTACHMENT 4 - SUE

June 16, 2021
Stephen J. Aniol, P.E.
Kimley-Horn
601 NW Loop 410, Suite 350
San Antonio, Texas 78216
210.321.3404 office
Stephen.Aniol@kimley-horn.com

RE: Subsurface Utility Engineering
City of Schertz – Main Street Revitalization

Dear Mr. Aniol:

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 June 14, 2021.

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 Kimley-Horn (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 **Base Scope** of this proposal is to provide up to **thirty-five (35)** QL "A" test holes all located within the limits of the City of Schertz – Main Street Revitalization – Schertz, Texas. To layout the test hole locations, TRG will perform QL"B" SUE designating in accordance with the *QL"B" – Designating* procedures described below. TRG will attempt to designate the requested utility for 10 feet on each side of the test hole locations. It is assumed that all test hole locations will fall within the limits identified in red as shown on Exhibit B to this proposal. It is also assumed that all test hole locations will be selected by the client and provided to TRG prior to mobilization.

Supplemental Services: As supplemental services, the client has requested TRG to provide an estimated fee for additional QL"B" SUE Services. If required, this supplemental fee estimate includes up to **four (4) days of QL"B" SUE Services.** It is assumed that the Supplemental QL"B" SUE will fall within the limits identified in red as shown on Exhibit B to this proposal.

*The survey of QL "B" and QL"A" SUE information is **not** included in this scope of work. It is assumed that the Client will provide survey of TRG's paint marks, pin flags and test hole monuments.*

Any necessary Right-of-Entry (ROE) permits, including railroad ROE, will be provided by the Client prior to the start of TRG 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 Texas Department of Transportation (TXDOT) and City of Schertz may be required. TRG will obtain all required permits and ensure that coordination and compliance is provided.
- Designed traffic control plans will **not** be required.
- Non-routine traffic control measures will be required depending on test hole locations. 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 may 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.

Schedule

TRG can mobilize within three (3) weeks of receiving Notice-To-Proceed (NTP). TRG estimates that the **Base Scope** of work can be completed in thirty-one (31) working days, broken down as follows:

- QL"B" field work – 2 days
- Layout test holes – 4 days
- QL"A" field work – 15 days (after permit approval)
- QL"A" deliverable preparation – 10 days (after receipt of survey data)

TRG estimates that the **Supplemental Services** Scope of work can be completed in eleven (11) working days, broken down as follows:

- QL"B" field work – 4 days
- QL"A" deliverable preparation – 7 days (after receipt of survey data)

Estimated Fee

The total estimated cost to complete the base scope of work described herein is **Sixty-One Thousand Six Hundred Fifty Dollars and 00/100 ($61,650.00)**. An itemized breakdown of cost is provided in Exhibit A-1.

The total estimated cost to complete the supplemental service scope of work described herein is **Eleven Thousand Nine Hundred Fifty Dollars and 00/100 ($11,950.00)**. An itemized breakdown of cost is provided in Exhibit A-2.

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 210.981.3050.

Respectfully,

The Rios Group, Inc.

Thomas W. Franke III

Branch Manager

THE RIOS GROUP

Estimate for Subsurface Utility Engineering

Main Street - Base Scope

Schertz, TX

EXHIBIT A-1

Direct Expenses		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
ROW Permit Acquisition	$	500.00	1	LS	$	500.00
Traffic Control (Standard)*	$	350.00	10	DAY	$	3,500.00
Traffic Control (Intersection)*	$	1,500.00	4	DAY	$	6,000.00
Flowable Backfill	$	270.00	5	EA	$	1,350.00
Deliverable Preparation	$	4,500.00	1	LS	$	4,500.00
Sub-Total					**$**	**15,850.00**
* Depends on TH Locations						
QL"B" SUE Designating		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
QL"B" SUE (2-Man)	$	255.00	20	HR	$	5,100.00
Test Hole Layout	$	155.00	40	HR	$	6,200.00
Sub-Total					**$**	**11,300.00**
QL"A" SUE Test Holes						
Unit Rate - Depth		*Rate*	*Assumed Quantity*	*Unit of Measure*		*Sub-Total*
0 - 4 feet	$	850.00	25	EA	$	21,250.00
4 - 8 feet	$	1,150.00	10	EA	$	11,500.00
8 - 12 feet	$	1,450.00		EA	$	-
12 - 18 feet	$	2,300.00		EA	$	-
Pavement Coring	$	350.00	5	EA	$	1,750.00
Test Hole Total			35			
Sub-Total					**$**	**34,500.00**
Total Estimated Cost					**$**	**61,650.00**

THE RIOS GROUP

Estimate for Subsurface Utility Engineering
Main Street - Supplemental
Schertz, TX

EXHIBIT A-2

Direct Expenses	*Rate*	*Assumed Quantity*	*Unit of Measure*	*Sub-Total*
Deliverable Preparation	$ 1,750.00	1	LS	$ 1,750.00
Sub-Total				**$ 1,750.00**
QL"B" SUE Designating	*Rate*	*Assumed Quantity*	*Unit of Measure*	*Sub-Total*
QL"B" SUE (2-Man)	$ 255.00	40	HR	$ 10,200.00
Sub-Total				**$ 10,200.00**
Total Estimated Cost				**$ 11,950.00**