EXHIBIT B
AUTHORIZATION OF CHANGE IN SERVICE

CONTRACT NUMBER / CONTRACT NAME:	**#219-373/ Reconstruction of Downtown Alleys**	
CITY REPRESENTATIVE:	**Rohit Vij**	
CONTRACTOR:	**Cobb Fendley & Associates, Inc.**	
CONTRACT EFFECTIVE DATE:	**October 15, 2019**	
THIS AUTHORIZATION DATE:	**September 6, 2022**	**AUTHORIZATION NO.: 4**

DESCRIPTION OF WORK TO BE ADDED TO OR DELETED FROM SCOPE OF SERVICES:

A change in service is required to provide the design phase services for Jacks Alley Drainage, Electric UG Conversion, Decorative Lighting, Guadalupe Street and Hutchison Street Storm Sewer improvements. The amount requested to complete additional tasks will be funded from C415, i.e. Downtown Alley Reconstruction.

Original Contract Amount:	$ 148,298.00	
Previous Increases/Decreases in Contact Amount:	$ 649,877.50	
This Increase/Decrease in Contract Amount:	$ 229,969.75	
Revised Contract Amount:	$1,028,145.25	

CONTRACTOR:

Julie Hastings
Signature

7/20/2022
Date

Julie Hastings, PE / Principal
Print Full Name / Title (if not in individual capacity)

CITY:

Signature

Date

Print Name

Title

City Department Use Only Below This Line (PM, etc.).

Account Number(s):	Amount	Date
# C415 (Drainage): 51036378-70200	$56,427.26	September 6, 2022
# C415 (W/WW): 52036383-70200	$41,738.09	September 6, 2022
# C415 (GeneralTIRZ): 14063256-70200	$29,754.65	September 6, 2022
# C415 (Electric): 51536383-70200	$102,049.75	September 6, 2022

EXHIBIT 1
CITY OF SAN MARCOS
Kissing Alley Improvements
Jacks Alley Drainage, Electric UG Conversion, Decorative Lighting, Guadalupe Street and Hutchison Street Storm Sewer
ADDITIONAL SCOPE OF SERVICES

PROJECT UNDERSTANDING:

Cobb, Fendley & Associates, Inc. (CobbFendley) has been tasked by the City of San Marcos to provide additional Design Phase tasks for this project with the following milestone deliverables: 30%, 60%, 90%, 99% and 100% Plans, Specs, and Estimate for installing new storm sewer in N. Guadalupe Street from Jack's Alley to E. Hutchison Street, replacing the existing E. Hutchison Street Storm Sewer from the west side of N. Guadalupe Street to N. LBJ Drive, relocation of Overhead Electric and Telecom/Communication lines to Underground along Jacks Alley from N. Guadalupe Street to N. LBJ Drive and along E. Hutchison Street from N. Guadalupe Street to N. LBJ Drive, installation of Decorative Lighting along Jacks Alley from N. Guadalupe Street to N. LBJ Drive, and repaving of (1) Jacks Alley, (2) N. Guadalupe Street from Jacks Alley to E. Hutchison Street, and (3) E. Hutchison from the west side of N. Guadalupe Street to N. LBJ Drive. The project will also include SUE Services to provide an additional twelve (12) Level A Test Holes and additional Quality Level B designating on N. Guadalupe Street, E. Hutchison St., and Jacks Alley

The following is the understood scope of services.

Phase A:

30% Plans**:**

CobbFendley will develop 30% Plans for installing new storm sewer in N. Guadalupe Street from Jack's Alley to E. Hutchison Street, replacing the existing E. Hutchison Street Storm Sewer from the west side of N. Guadalupe Street to N. LBJ Drive, the relocation of Overhead Electric and Telecom/Communication lines to Underground along Jacks Alley from N. Guadalupe Street to N. LBJ Drive and along E. Hutchison Street from N. Guadalupe Street to N. LBJ Drive and the installation of Decorative Lighting along Jacks Alley from N. Guadalupe Street to N. LBJ Drive, and repaving of (1) Jacks Alley, (2) N. Guadalupe Street from Jacks Alley to E. Hutchison Street, and (3) E. Hutchison from the west side of N. Guadalupe Street to N. LBJ Drive, and repaving of (1) Jacks Alley, (2) N. Guadalupe Street from Jacks Alley to E. Hutchison Street, and (3) E. Hutchison from the west side of N. Guadalupe Street to N. LBJ Drive for review and comment. This assumes the 30% plans will take (3) months to complete, excluding City and Stakeholder review time.

1. Project Management and QA/QC: This task consists of effort associated with project administration, coordination with City staff, coordination and supervision of the Project Team, invoicing, and quality management so that project milestones and deliverables meet schedule and budget constraints.
    a. Project Management
    b. QA/QC
2. Meetings
    a. Project Coordination Meetings with the Client.

a. Two (2) additional meetings have been budgeted for this 30% Phase for the Overhead Electric and Telecom/Communication lines to Underground relocation and one (1) project meeting has been budgeted for the Decorative Lighting Preliminary Phase milestone submittal (30%).

b. Three (3) additional meetings have been budgeted for investigating the potential to use permeable pavers in Jacks Alley

b. Project Kickoff Meeting (1) for 30% Additional Services Plans

3. Revision of Design Summary Report to include the addition of the Overhead Electric and Telecom/Communication lines to Underground along Jacks Alley from N. Guadalupe Street to N. LBJ Drive and along E. Hutchison Street from N. Guadalupe Street to N. LBJ Drive, the installation of Decorative Lighting along Jacks Alley from N. Guadalupe Street to N. LBJ Drive, and repaving of (1) Jacks Alley, (2) N. Guadalupe Street from Jacks Alley to E. Hutchison Street, and (3) E. Hutchison from the west side of N. Guadalupe Street to N. LBJ Drive and the installation of new storm sewer in N. Guadalupe Street from Jack's Alley to E. Hutchison Street, replacing the existing E. Hutchison Street Storm Sewer from the west side of N. Guadalupe Street to N. LBJ Drive.

4. 30% Plans – Anticipated additional Sheets and Numbers – The design sheets at 30% level are only plan view and existing ground profile that shows known existing utility crossings. The existing utilities will be schematic until further verified in the field. Profiles of proposed infrastructure will be shown at 60% and beyond. The Plan Sheets shall be on 11x17 Sheets at 1" =40' H and 1" = 10' Vertical.

   a. Existing Drainage Area Map, Off-site and On-site – (1) Sheet for Jacks Alley

   b. Proposed Drainage Area Maps, Off-site and On-site – (1) Sheet for Jacks Alley

   c. Storm Drainage Calcs– (2) Sheets (will include hydrologic and hydraulic calcs for inlets and storm pipes)

   d. Storm Drainage Plans – (1) Sheet (profile will show existing grade, proposed storm sewer main, existing utility crossings, 25-year and 100-year HGL; excludes laterals, proposed grade, and proposed utility crossings)

   e. Roadway Plans – (3) Sheets for Guadalupe and Hutchison Streets

   f. Electrical design plans for Jacks Alley – plan view to show existing and proposed pole placement, primary and secondary pull boxes, transformers; plan of proposed duct bank, and existing utility crossings; will exclude proposed utility crossings and proposed grade. Refer to CobbFendley Electric and Telecommunication Proposal.

   g. Lighting for Jacks Alley – Prepare 2D Photometric Analysis with Visual Lighting 2020 R2 software or equivalent to meet AASHTO Roadway Lighting Design Guide Illuminance Method for continuous lighting within the project limits. This analysis will be based on luminaire and mounting information provided to ASI.. Refer to American StructurePoint Proposal.

5. List of standard specifications for additional services. City of San Marcos specifications will be used.

6. Construction Cost Estimate for additional services – with 25% Contingency

7. Project Schedule updated to include additional services.

8. Deliverables

   a. 30% Plans for additional services

9. **Field Services, CobbFendley Supplemental Disciplines, and Subconsultants**

a. Dry Utility Relocation and Coordination – See the attached scope of services provided by CobbFendley for dry utility relocation and coordination services. This scope is 30%/60%/90%/99% and 100%.
b. Illumination – See American Structurepoint scope of services, dated July 15, 2022, for existing and proposed illumination studies and recommendations.
c. Subsurface Utility Engineering (SUE) – See the attached scope of services provided by CobbFendley for SUE services. This scope is 30%.

Phase B:

Design Phase (60/90/99/100%):
There is no change to the remainder of the previously approved scope for the additional Electric and Telecommunication Relocation – See CobbFendley Dry Utility Scope of Services

1. Project Management and QA/QC: This task consists of effort associated with Project Administration, coordination with City staff, coordination and supervision of the Project Team, and Quality Management so that Project Milestones and Deliverables meet Schedule and Budget constraints. This assumes the Project Design Phase is (12) months, excluding City and Stakeholder review time.
    a. Project Management
    b. QA/QC
    c. Monthly Status Report: CobbFendley will provide a monthly status report, including a summary of work completed as well as a status plan set. This assumes a 9-month duration.
2. Meetings
    a. No additional Project Meetings are included for these additional services.
    b. Weekly phone calls with the team – up to (2).
3. Permitting. No permitting services are anticipated for the additional design services.
4. Plans and Deliverables:
    a. 60%/90%/99%/100%: CobbFendley will provide (2) hard copies of 11" x 17" plan sets and (1) PDF electronic copy for the additional services. At a minimum, the plan set will contain the following additional sheets:
        i. Overall Quantity Sheet: CobbFendley will provide a quantity table that includes individual Sheet quantities and the overall Project quantities - (1) Sheet
        ii. Survey – (1) Sheet for Guadalupe Street
        iii. Erosion and Sedimentation (E&S) Control Plans – 1 Sheet for Jacks Alley, Guadalupe Street and Hutchison Street
        iv. Traffic Control Plan – (2) Sheets for Jacks Alley, Guadalupe Street and Hutchison Street, assumes (1) Phase with detour plans during construction.
        v. Roadway Plans and Details – (3) Sheets for Guadalupe and Hutchison Streets
        vi. Existing Drainage Area Map, Off-site and On-site – (1) Sheet for Jacks Alley, Guadalupe Street and Hutchison Street
        vii. Proposed Drainage Area Map, Off-site and On-site – (1) Sheet for Jacks Alley, Guadalupe Street and Hutchison Street

viii. Drainage Calculations – Assumes (1) Sheet for Jacks Alley, Guadalupe Street and Hutchison Street

ix. Storm Sewer P&P – Assumes (1) Sheet (profile will show existing grade, proposed storm sewer main, existing utility crossings, 25-year and 100-year HGL, laterals, proposed grade, and proposed utility crossings)

x. Lateral Profiles – Assumes (1) Sheet

xi. Storm Drainage Details – As required

xii. Electric Design - See the attached CobbFendley scope of services for the electrical relocation.

xiii. Lighting - See American Structurepoint scope of services for existing and proposed illumination studies and recommendations.

b. Contract Documents and Standard Specifications: Provide additional specs required for Jacks Alley, Guadalupe Street and Hutchison Street improvements. City of San Marcos Division and Technical Specifications will be used. Project Specific/Special Specifications will be provided by CobbFendley as needed. TxDOT and TMUTCD specifications and details could be incorporated into the Project for Traffic Controls.

c. Engineer's Opinion of Probable Construction Costs (OPCC) for additional items required for Jacks Alley, Guadalupe Street and Hutchison Street improvements which will include the following contingencies: 60%-15%, 90%-10%, 99%-5%, 100%-5%.

d. Construction Project Schedule: CobbFendley will develop an updated Construction Schedule for the Project consisting of Design, Bid and Construction Phases to include the additional services. The schedule will be updated during design.

e. Engineers' Report – update the Engineering Report from the PER with the final design information for the additional services.

f. Submittals – This proposal assumes (4) Submittals compiling and disseminating the Plans, Reports, Studies, and Contract Documents for including the additional services into the previous change in service to the City of San Marcos for review.

5. Subconsultants:

a. Dry Utility Design and Coordination – See CobbFendley Scope and Fee

b. Illumination Design – Final Design – Provided by American Structurepoint

Schedule

The following project milestones are estimated and may require modification pending preliminary engineering results and construction timeframe constraints:

- 30% Design Documents - (3) months
- 60% Design Documents Submittal – (6) months
- 90% Design Documents Submittal - (5) months
- 99% Design Documents Submittal - (2) months
- 100% Design Documents Submittal - (1) month

The estimated timeframes identified do not include time for City review of Submittals.

City Responsibilities

1. The City will provide to CobbFendley all data in the City's possession relating to CobbFendley services on the Project. CobbFendley will reasonably rely upon the accuracy, timeliness, and completeness of the information provided by the City. The City will provide CobbFendley with a copy of the survey files for the proposed drainage improvements on Guadalupe Street.

2. The City will give prompt notice to CobbFendley whenever the City observes or becomes aware of any development that affects the scope or timing of CobbFendley services.

3. The City will examine information submitted by CobbFendley and render in writing or otherwise provide comments and decisions in a timely manner.

4. The City will obtain all necessary right-of-entries from required landowners.

5. The City will provide Title Reports for properties with proposed easements.

6. The City will obtain all permanent sanitary sewer line, access, and temporary construction easements, including services such as appraisal of properties, negotiations with the property owners, and actual purchase of the easements.

Additional Services

Additional Services to be performed, if authorized in writing by the City, but which are not included in the above-described Basic and Supplemental Scope of Services, and once a mutually agreed upon fee is negotiated are as follows:

1. Performing title searches for Easement or Joint-Use Agreement preparation.

2. Preparation of additional Easement/ Boundary Exhibits beyond the number identified in the Scope of Services.

3. Acting as an agent of the City in the acquisition of permanent or temporary easements.

4. Preparation of platting documents and/or real property Survey for site acquisition.

5. Accompanying the City when meeting with the TCEQ, U.S. Environmental Protection Agency, or other regulatory agencies during the Project, beyond those meetings identified above.

6. Preparing Applications and supporting documents for Government Grants, Loans, or Planning Advances.

7. Appearing before regulatory agencies or Courts as an expert witness in any litigation with third-parties or condemnation proceedings arising from the development or construction of the Project, including the preparation of engineering data and reports for assistance to the City.

8. Providing professional services associated with the discovery of any hazardous waste or materials in the Project site.

9. Logistics associated with hosting the Public Meetings. Mailers, website development, public signage placement, and other outreach efforts are not included in this scope.

10. Traffic counts are not included in this Scope of Services.

11. Traffic signal design is not included in this Scope of Services.

12. Dry utility design is not included in this Contract other than those specified in the illumination/photometric and dry utility design and coordination section.

13. ROW and Easement acquisitions are to be handled by the City of San Marcos. Additional services are required if CobbFendley is to provide services in this area.

14. It is assumed that TCEQ Permitting is not required for this project. Due to the Project limits located within the Transition Zone of the Edwards Aquifer, and the runoff draining away from the Edwards Aquifer Recharge Zone, based on the TCEQ flowchart, WPAP, SCS, and/or Contributing Zone Permitting is not required by the TCEQ.

15. It is assumed the CLOMR and LOMR Applications are not required on this Project.

16. It is assumed that detention pond or regional storm water management is not required in this Project.

17. This Scope of Services does not include Drainage 2D Modeling.

18. Bid Phase services

19. Construction Phase services

Detailed Fee Schedule

EXHIBIT 2 - FEE ESTIMATE

City of San Marcos, Texas

Kissing Alley Improvements - add Jacks Alley, Guadalupe/Hutchison Streets Storm Sewer Design

July 18, 2022

					Staff							Civil Subconsultants	Total Expense	Mileage	Printing 8.5x11	Printing Full Size
					Julie	Stanley	Larissa	Kristen	Rachael	Rafael	Amber					
		Professional Service Description	Total Task Hours	Total Task Cost	Principal (Sr PM V)	Project Manager II	Senior Engineer II	Project Engineer II	Project Engineer I	Senior Technician III	Clerical	Sub 1	Expenses cost	per mile	per each	per sf
					$278.00	$201.00	$227.00	$155.00	$129.00	$170.00	$82.00	Fee		$0.58	$0.15	$3.00
		Phase A 30% Plans - 3 months	**278**	**$112,113.00**	**7**	**61**	**15**	**72**	**86**	**13**	**24**	**$68,069.00**	**$ 4,049.75**			
1		Project Management & QA/QC														
	a	Project Management	16	$2,656.00	2	8					6		$ -			
	b	QA/QC - 30%	12	$2,826.00	2		10						$ -			
	c	Monthly Status Reports	6	$777.00		2			1		3		$ -			
2		Meetings											$ -			
	a	Project Coordination Meetings - 2	14	$2,308.00	2	4		4			4		$ -			
	b	Kickoff Meeting - 1	10	$1,727.00	1	2	1	2	2	1	1		$ 40.25	70		
	c	Bi-weekly Coordination Meetings - 6	30	$4,422.00		6		6	6	6	6		$ -			
	d	Permeable Paver Meetings - 3	12	$1,965.00		3		3	3	3			$ -			
3		Design Development Summary Report	3	$511.00		1		2					$ -			
4		30% Plans											$ -			
	a	Existing Drainage Area Map - Offsite and Onsite - 1 Sheet	7	$1,027.00		1		2	4				$ -			
	b	Proposed Drainage Area Map - Offsite and Onsite - 1 Sheet	8	$1,208.00		1		4	3				$ -			
	c	Storm Drainage Calcs - 2 Sheets	22	$3,190.00		2		8	12				$ -			
	d	Storm Drainage Plans - 3 Sheets (Plan and Profile)	35	$5,043.00		3		12	20				$ -			
	e	Roadway Plans - 3 Sheets	32	$4,623.00		3		6	20	3			$ -			
5		List of standard specifications	3	$511.00		1		2					$ -			
6		Construction Cost Estimates	8	$1,332.00		2		6					$ -			
7		Project Schedule	4	$712.00		2		2					$ -			
8		Deliverables											$ -			
	a	Monthly Status Update - Assumes 2	3	$365.00		1					2		$ -			
	b	30% Plans	12	$1,846.00		2	2	2	4		2		$ -			
	c	Design Checklist	7	$1,223.00		1	2	2	2				$ -			
9		Subconsultants / CF Supplemental Disciplines											$ -			
	a	Dry Utility Design and Coordination - See CobbFendley Scope and Fee	14	$17,295.00		8		4	2			$14,809.00	$ 9.50	10	25	
	b	Illumination Design - Provided by American StructurePoint (Not in this phase)	12	$10,278.00		6		3	3			$8,220.00	$ -			
	c	Subsurface Utility Engineering (QL-B, QL-A)	8	$46,268.00		2		2	4			$45,040.00	$ 4,000.00			

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City of San Marcos, Texas

Kissing Alley Improvements - add Jacks Alley, Guadalupe/Hutchison Streets Storm Sewer Design

July 18, 2022

					Staff											
					Julie	Stanley	Larissa	Kristen	Rachael	Rafael	Amber					
		Professional Service Description	Total Task Hours	Total Task Cost	Principal (Sr PM V)	Project Manager II	Senior Engineer II	Project Engineer II	Project Engineer I	Senior Technician III	Clerical	Sub 1	Expenses cost	per mile	per each	per sf
					$278.00	$201.00	$227.00	$155.00	$129.00	$170.00	$82.00	Fee		$0.58	$0.15	$3.00
Phase B Design (60% Plans - -6 months)			**206**	**$40,958.00**	**6**	**30**	**18**	**59**	**91**	**2**	**0**	$7,950.00	$ 439.00			
1		Project Management & QA/QC														
	a	QA/QC - 60%	22	$5,198.00	4		18						$ -			
2		Meetings											$ -			
3		Deliverables											$ -			
	a	60% Plans											$ -			
	i	Typical Sections - 1 Sheet	5	$892.00	1	1		1	2							
	ii	SW3P Plans/EPIC - 1 Sheet	2	$356.00		1		1								
	iii	E&S Plans - 1 Sheet	7	$1,027.00		1		2	4				$ -			
	iv	E&S Details	3	$485.00		1		1	1				$ -			
	v	TCP Notes and Narrative - 1 Sheet	4	$614.00		1		1	2				$ -			
	vi	TCP Plan - 2 Sheets	21	$3,054.00	1	2		2	16				$ -			
	vii	TCP Details	4	$614.00		1		1	2				$ -			
	viii	TCP Typical Sections - 1 Sheet	6	$872.00		1		1	4				$ -			
	ix	Pavement Removal - 1 Sheet	6	$872.00		1		1	4				$ -			
	x	Roadway Layout - 1 Sheet	5	$769.00		1		2	2				$ -			
	xi	Existing Drainage Area Map -Offsite and Onsite - 1 Sheet	7	$1,027.00		1		2	4				$ -			
	xii	Proposed Drainage Area Map -Offsite and Onsite - 1 Sheet	9	$1,337.00		1		4	4				$ -			
	xiii	Drainage Calculations - 1 Sheet	18	$2,674.00		2		8	8				$ -			
	xiv	Storm Sewer P&P - 1 Sheet	21	$3,133.00		3		8	10				$ -			
	xv	Lateral Profile - 1 Sheet	21	$3,163.00		3		6	10	2			$ -			
	xvi	Storm Drainage Details	3	$485.00		1		1	1				$ -			
	b	Contract Documents and Standard Specifications	4	$640.00		1		2	1				$ 15.00		100	
	c	Engineers Opinion of Probable Cost	7	$1,079.00		1		4	2				$ -			
	d	Engineer's Report	12	$1,796.00		2		4	6				$ 9.00		60	
	e	Submittal - 1	5	$743.00		1		1	3				$ 369.00		60	120
	f	Respond to Comments	6	$898.00		1		2	3				$ -			
4		Subconsultants / CF Supplemental Disciplines														
	a	Illumination Design - Provided by American StructurePoint	8	$9,230.00		2		4	2			$7,950.00	$ 46.00			

EXHIBIT 2 - FEE ESTIMATE

City of San Marcos, Texas

Kissing Alley Improvements - add Jacks Alley, Guadalupe/Hutchison Streets Storm Sewer Design

July 18, 2022

					Staff							Civil Subconsultants	Total Expense	Mileage	Printing 8.5x11	Printing Full Size
					Julie	Stanley	Larissa	Kristen	Rachael	Rafael	Amber					
		Professional Service Description	Total Task Hours	Total Task Cost	Principal (Sr PM V)	Project Manager II	Senior Engineer II	Project Engineer II	Project Engineer I	Senior Technician III	Clerical	Sub 1	Expenses cost	per mile	per each	per sf
					$278.00	$201.00	$227.00	$155.00	$129.00	$170.00	$82.00	Fee		$0.58	$0.15	$3.00
Phase B Design (90% Plans - 5 months)			**225**	**$38,029.00**	**5**	**32**	**8**	**63**	**106**	**11**	**0**	**$3,082.00**	$ 393.00			
1		Project Management & QA/QC														
	a	Project Management	0	$0.00									$ -			
	b	QA/QC - 90%	10	$2,372.00	2		8						$ -			
	c	Monthly Status Reports	0	$0.00									$ -			
2		Meetings -											$ -			
3		Deliverables											$ -			
	a	90% Plans											$ -			
	i	Cover Sheet - 1 Sheet	3	$485.00		1		1	1				$ -			
	ii	General Notes	1	$129.00					1				$ -			
	iii	General Layout - 1 Sheet	2	$284.00				1	1				$ -			
	iv	Survey - 2 sheets	1	$129.00					1				$ -			
	v	Typical Sections - 1 Sheet	5	$892.00	1	1		1	2				$ -			
	vi	SW3P Plans/EPIC - 1 Sheet	2	$356.00		1		1					$ -			
	vii	E&S Plans - 1 Sheets	7	$1,027.00		1		2	4				$ -			
	viii	E&S Details	3	$485.00		1		1	1				$ -			
	ix	TCP Notes and Narrative - 1 Sheet	4	$614.00		1		1	2				$ -			
	x	TCP Plan - 2 Sheets	15	$2,280.00	1	2		2	10				$ -			
	xi	TCP Details	3	$485.00		1		1	1				$ -			
	xii	TCP Typical Sections - 1 Sheet	4	$614.00		1		1	2				$ -			
	xiii	Pavement Removal - 1 Sheet	4	$614.00		1		1	2				$ -			
	xiv	Roadway Layout - 1 Sheet	5	$769.00		1		2	2				$ -			
	xv	Roadway P&P - 3 Sheets	20	$3,100.00	1	2		4	10	3			$ -			
	xvi	Roadway Grading - 2 Sheets	16	$2,363.00		1		4	8	3			$ -			
	xvii	Driveway Detail Plans - 2 Sheets	9	$1,367.00		1		2	4	2			$ -			
	xviii	Roadway Detail Sheets	4	$583.00				1	2	1			$ -			
	xix	Existing Drainage Area Map -Offsite and Onsite - 1 Sheet	5	$769.00		1		2	2				$ -			
	xxiii	Proposed Drainage Area Map -Offsite and Onsite - 1 Sheet	5	$769.00		1		2	2				$ -			
	xxiv	Drainage Calculations - 1 Sheet	17	$2,421.00		1		6	10				$ -			
	xxv	Storm P&P - 3 Sheets	20	$2,880.00		2		6	12				$ -			
	xxvi	Lateral Profile - 1 Sheet	18	$2,652.00		2		4	10	2			$ -			
	xxvii	Storm Drainage Details	3	$485.00		1		1	1				$ -			
	b	Contract Documents and Standard Specifications	4	$640.00		1		2	1				$ 15.00		100	
	c	Engineers Opinion of Probable Cost	7	$1,079.00		1		4	2				$ -			
	d	Engineer's Report	9	$1,383.00		2		3	4				$ 9.00		60	
	e	Submittals - 1	5	$743.00		1		1	3				$ 369.00		60	120
	f	Respond to Comments	6	$898.00		1		2	3				$ -			
4		Subconsultants / CF Supplemental Disciplines														
	a	Illumination Design - Provided by American StructurePoint	8	$4,362.00		2		4	2			$3,082.00	$ -			

EXHIBIT 2 - FEE ESTIMATE

City of San Marcos, Texas

Kissing Alley Improvements - add Jacks Alley, Guadalupe/Hutchison Streets Storm Sewer Design

July 18, 2022

					Staff											
					Julie	Stanley	Larissa	Kristen	Rachael	Rafael	Amber					
		Professional Service Description	Total Task Hours	Total Task Cost	Principal (Sr PM V)	Project Manager II	Senior Engineer II	Project Engineer II	Project Engineer I	Senior Technician III	Clerical	Sub 1	Expenses cost	per mile	per each	per sf
					$278.00	$201.00	$227.00	$155.00	$129.00	$170.00	$82.00	Fee		$0.58	$0.15	$3.00
Phase B Design (99/100% Plans - 3 months)			**195**	**$33,595.00**	**5**	**35**	**16**	**44**	**90**	**5**	**0**	$2,258.00	$ 393.00			
1		Project Management & QA/QC														
	a	QA/QC - 99/100%	18	$4,188.00	2		16						$ -			
2		Meetings											$ -			
3		Permitting - City of San Marcos											$ -			
4		Deliverables											$ -			
	a	100% Plans											$ -			
	i	Cover Sheet - 1 Sheet	3	$485.00		1		1	1				$ -			
	ii	General Notes	1	$129.00					1				$ -			
	iii	General Layout - 1 Sheet	2	$284.00				1	1				$ -			
	iv	Survey - 2 sheets	1	$129.00					1				$ -			
	v	Typical Sections - 1 Sheet	5	$892.00	1	1		1	2				$ -			
	vi	SW3P Plans/EPIC - 1 Sheet	2	$356.00		1		1					$ -			
	vii	E&S Plans - 1 Sheets	7	$1,027.00		1		2	4				$ -			
	viii	E&S Details	3	$485.00		1		1	1				$ -			
	ix	TCP Notes and Narrative - 1 Sheet	4	$614.00		1		1	2				$ -			
	x	TCP Plan - 2 Sheets	12	$1,867.00	1	2		1	8				$ -			
	xi	TCP Details	3	$485.00		1		1	1				$ -			
	xii	TCP Typical Sections - 1 Sheet	4	$614.00		1		1	2				$ -			
	xiii	Pavement Removal - 1 Sheet	4	$614.00		1		1	2				$ -			
	xiv	Roadway Layout - 1 Sheet	5	$769.00		1		2	2				$ -			
	xv	Roadway P&P - 3 Sheets	13	$2,058.00	1	1		3	6	2			$ -			
	xvi	Roadway Grading - 2 Sheets	8	$1,197.00		1		2	4	1			$ -			
	xvii	Driveway Detail Plans - 2 Sheets	4	$583.00				1	2	1			$ -			
	xviii	Roadway Detail Sheets	5	$784.00		1		1	2	1			$ -			
	xix	Existing Drainage Area Map -Offsite and Onsite - 1 Sheet	7	$1,027.00		1		2	4				$ -			
	xxviii	Proposed Drainage Area Map -Offsite and Onsite - 1 Sheet	7	$1,027.00		1		2	4				$ -			
	xxix	Drainage Calculations - 1 Sheet	14	$2,002.00		2		2	10				$ -			
	xxx	Storm P&P - 3 Sheets	13	$1,801.00		1		2	10				$ -			
	xxxi	Lateral Profile - 1 Sheet	9	$1,285.00		1		2	6				$ -			
	xxxii	Storm Drainage Details	3	$485.00		1		1	1				$ -			
	b	Contract Documents and Standard Specifications	3	$485.00		1		1	1				$ 15.00		100	
	c	Engineers Opinion of Probable Cost	5	$769.00		1		2	2				$ -			
	d	Engineer's Report	5	$769.00		1		2	2				$ 9.00		60	
	e	Submittals - 2	5	$743.00		1		1	3				$ 369.00		60	120
	f	Respond to Comments	6	$898.00		1		2	3				$ -			
5		Subconsultants / CF Supplemental Disciplines														
	a	Illumination Design - Provided by American StructurePoint	14	$4,744.00		8		4	2			$2,258.00	$ -			
		END BASIC SERVICES														
		Total Basic Service Hours:	**82,263.00**		**23.00**	**158.00**	**57.00**	**238.00**	**373.00**	**31.00**	**24.00**	**81359.00**				
		Total Design Services, including Field Services	**$224,695.00**													
		Total Expenses	**$ 5,274.75**													
		Overall Total	**$ 229,969.75**													

The hours listed above are an estimate. The hours assigned to the Phase are not exclusive to the Phase which they are assigned. The total fee will not exceed the total contract amount as discussed in Article 2. The hourly rates of this contract shall apply throughout the remainder of this

Subconsultant Proposals

City of San Marcos – "Kissing Alley Improvements"
Cobb Fendley - Electric and Telecommunication Relocation
Supplement - July 15 2022

Scope

The COSM has requested a modification to the project limits for the Overhead to Underground Utility relocation. The new limit includes Hutchinson Street from LBJ to Guadalupe, Jack's Alley, and a crossing from Kissing Alley to the Courthouse.

30% Design

Cobb, Fendley and Associates, Inc. (CobbFendley) will update the 30% plans for the client's use and comment. This assumes the updated 30% plans will take 3 months to complete, excluding City and Stakeholder review timelines.

1. 30% Electric/Telecom Relocation Plans – The 30% design plans are only plan view, existing ground level, and show existing utility crossings. Existing utilities will be schematic until further verified in the field. Profiles of proposed infrastructure will be shown at 60% and beyond. The plan sheets will be 11"x17" and 1"=40' Horizontal and 1"=10' Vertical.
    a. Electric and Telecommunication Joint Trench Plan – 4 sheets
    b. Notes and Details – 4 sheets
    c. Construction Cost Estimate – with 25% Contingency
    d. QAQC
2. Meetings and Project Coordination
    a. Project Coordination meeting with the clients. Two additional meetings have been budgeted.
    b. Project Kickoff Meeting for updated layout
    c. Biweekly phone calls with project team for 2 months
    d. Monthly status reports and invoicing.
3. Utility Coordination
    a. Individual coordination meetings with Telecom providers in the area to show updated project limits. Assume 4 meetings.
    b. Coordination with CenterPoint gas for potential relocation. Assume 1 meeting.
4. Deliverables
    a. Monthly Status Update
    b. 30% Plans
    c. Construction Cost Estimate

60%/90%/100% Design

1. CobbFendley will provide electronic (pdf) copies of plans for review. The plan set will contain the following:
    a. Electric and Telecommunication Joint Trench Plan – 4 sheets
    b. Notes and Details – 4 sheets
    c. Construction Cost Estimate – with 25% Contingency
    d. QAQC

NO CHANGE TO REMAINDER OF PREVIOUSLY APPROVED SCOPE

Kissing Alley - Dry Utility Relocation and Coordination Services

Fee Summary Subprovider: Cobb, Fendley & Associates, Inc.	Principal $299.00	Project Mgr III $227.00	Senior Engineer $201.00	Project Engineer II $155.00	Project Engineer I $129.00	Sr Utility Specialist (Sr Tech III) $170.00	Sr Tech I / Utility Specialist $129.00	Technician II $84.00	Technician I $62.00	Clerical $82.00	Total Hours	Task Budget
		23%	2%	66%	5%	0%	5%	0%	0%	0%		
Electric / Telecom Relocation Design and Gas Relocation Coordin	**0**	**20**	**2**	**57**	**4**	**0**	**4**	**0**	**0**	**0**	**87**	**$14,809.00**
30% Design (3 months)	0	20	2	57	4	0	4	0	0	0	87	**$ 14,809.00**
1. 30% Electric/Telecom Relocation Design												
a. Plan Sheets (Up to 4)		4		24							28	$ 4,628.00
b. Notes and Detail Sheets (Up to 4)		1		8							9	$ 1,467.00
c. Construction Cost Estimate (+/- 25%)		1		4							5	$ 847.00
d. QAQC		3		6							9	$ 1,611.00
2. Meetings/Project Management												
a. Project Coordination Meetings with COSM (2)		2		2							4	$ 764.00
b. Project Kickoff Meeting		1		1							2	$ 382.00
c. Biweekly coordination meetings (4)		2		2							4	$ 764.00
d. Meetings with telecom utility providers (4)		4		8							12	$ 2,148.00
e. Monthly status reports and invoicing		2		2							4	$ 764.00
3. Utility Coordination Meeting with Centerpoint (1)			2		4		4				10	$ 1,434.00
Total												**$14,809.00**

ATTACHMENT A
CITY OF SAN MARCOS
KISSING ALLEY PROJECT
SCOPE OF SERVICES

Project Understanding

The work to be performed by American Structurepoint under this contract will provide Preliminary Engineering (30%) thru final PS&E design for the Kissing Alley Project. The project consists of the following improvements:

- General Description – This addendum is to provide utility and lighting improvements for approximately 500 linear feet along Jacks Alley between N. LBJ Drive and N Guadalupe Street ONLY, as part of the Kissing Alley Project.

Basic Scope of Services

Preliminary Phase (30%)

1. Project Management and QA/QC: This task consists of effort associated with project administration, coordination with the Prime consultant, City staff, coordination and supervision of internal project team, and quality management so that project milestones and deliverables meet schedule and budget constraints.

0. Tasks (Jacks Alley ONLY)
    a. Illumination
        a. Photometric Analysis – Prepare 2D Photometric Analysis with Visual Lighting 2020 R2 software or equivalent to meet AASHTO Roadway Lighting Design Guide Illuminance Method for continuous lighting within the project limits. This analysis will be based on luminaire and mounting information provided to ASI.

1. Develop Opinion of Probable Cost for Construction: The opinion of probable cost will be prepared according to the current practices for the City of San Marcos and will include all items of work required for the complete construction of the work.

2. Deliverables:

    a. 30%: American Structurepoint will provide one (1) pdf electronic copy containing the following:

        i. Photometric analysis output exhibit.

        ii. Engineer's Opinion of Probable Construction Costs (OPCC).

        iii. Preliminary Engineering Report Illumination Section Draft (1-PDF, 1-DOC)

        iv. Preliminary Engineering Report Illumination Section Final (1-PDF, 1-DOC).

ATTACHMENT A
CITY OF SAN MARCOS
KISSING ALLEY PROJECT
SCOPE OF SERVICES

Design Phase (60/90/99/100%)

1. Project Management and QA/QC: This task consists of effort associated with project administration, coordination with the Prime consultant, City staff, coordination and supervision of the internal project team, and quality management so that project milestones and deliverables meet schedule and budget constraints.

2. Tasks
    a. General Notes
    b. Quantity Sheet
    c. Illumination Sheets:
        a. Illumination Layouts (two (2) 20 scale layout sheets)
        b. Electrical Service Schedule (included on corresponding layout sheet)

3. Deliverables:

    b. 60%: American Structurepoint will provide one (1) pdf electronic copy of 11" x 17" plan sets. At a minimum, the plan set will contain the following:

        i. General Notes

        ii. Illumination Quantity Sheet: American Structurepoint will provide a quantity table that includes individual sheet quantities.

        iii. Illumination Plan Sheets: Estimated Number of Sheets – two (2).

        iv. Standard Details, Standard Specifications, and Project Specific Special Specifications and Details were previously included in the Kissing Alley Supplement and no additional services should be needed for the Jacks Alley Supplemental Agreement.

        v. Engineer's Opinion of Probable Construction Costs (OPCC).

    c. 60% Comment Response Letter.

    d. 90%: American Structurepoint will provide one (1) pdf electronic copy of 11" x 17" plan sets. The plan set will also contain the following:

        i. General Notes

        ii. Illumination Quantity Sheet: American Structurepoint will provide a quantity table that includes individual sheet quantities.

        iii. Illumination Plan Sheets: Estimated Number of Sheets – two (2).

        iv. Standard Details, Standard Specifications, and Project Specific Special Specifications and Details were previously included in the Kissing Alley Supplement and no additional services should be needed for the Jacks Alley Supplemental Agreement.

        v. Engineer's OPCC.

e. 90% Comment Response Letter.

f. 99%: American Structurepoint will provide two (2) hard copies of 11" x 17" plan sets and one (1) pdf electronic copy. The plan set will also contain the following:

   i. General Notes

   ii. Illumination Quantity Sheet: American Structurepoint will provide a quantity table that includes individual sheet quantities.

   iii. Illumination Plan Sheets: Estimated Number of Sheets – two (2).

   iv. Standard Details, Standard Specifications, and Project Specific Special Specifications and Details were previously included in the Kissing Alley Supplement and no additional services should be needed for the Jacks Alley Supplemental Agreement.

   v. Engineer's OPCC.

g. 99% Comment Response Letter.

h. Final 100%: American Structurepoint will provide one (1) pdf electronic copy of 11" x 17" plan sets. Upon approval by the City, one (1) pdf copy, and one (1) CAD copy of the sealed plans will be provided.

Additional Services

Additional Services to be performed, if authorized in writing by the City, but which are not included in the above-described Basic and Supplemental Scope of Services, and once a mutually agreed upon fee is negotiated are as follows:

1. Researching and selecting appropriate style/brand of luminaire (assume City or Design Workshop will provide approved pedestrian lighting options)

2. Bid Phase and Construction Phase Services

EXHIBIT 3 - FEE ESTIMATE

City of San Marcos, Texas
Kissing Alley (Jacks Alley Only)
American Structurepoint

					American Structurepoint Staff							Direct Expenses
		Professional Service Description	Total Task Hours	Total Task Cost	Project Manager	QA/QC	Senior Project Engineer	Project Engineer	Sr Tech	Tech	EIT	Mileage @ $0.58/mile
					$190.00	$240.00	$180.00	$140.00	$135.00	$95.00	$110.00	Fee
		Preliminary Phase (30%)	**60**	**$ 8,220**								
1		Project Management	1	$ 190	1							
		QC Review and Address QC Comments - 30%	2	$ 480		2						
		Project Accounting and Administration	3	$ 470	1			2				
2		Project Meetings (includes site visit)	6	$ 990	3			3				$46.00
3		Photmetric Analysis (2D)	40	$ 5,120				24			16	
4		Develop OPCC	3	$ 360				1			2	
5		Preliminary Engineering Report Draft (Illumination write-up)	3	$ 360				1			2	
		Preliminary Engineering Report Final (Illumination write-up)	2	$ 250				1			1	
		Design Phase (60/90/99/100%)	**97**	**$ 13,290**								
1		Project Management	5	$ 800	2			3				
		Coordination with Prime Consultant	6	$ 940	2			4				
		QC Review and Address QC Comments - 60%	2	$ 480		2						
		QC Review and Address QC Comments - 90%	2	$ 480		2						
		QC Review and Address QC Comments - 99% & 100%	2	$ 480		2						
		Project Accounting and Administration	3	$ 470	1			2				
2		Prepare 60% Plans - General Notes	3	$ 360				1			2	
		Prepare 60% Plans - Quantity Sheet	3	$ 360				1			2	
		Prepare 60% Plans - Illumination Sheets (5 layout sheets including electrical service schedule)	15	$ 1,800				5			10	
		Prepare 60% Plans - List of Standard Details	2	$ 250				1			1	
		Prepare 60% Plans - Project Specific / Special Details	2	$ 250				1			1	
		Prepare 60% List of Standard Specifications	2	$ 250				1			1	
		Prepare 60% Project Specific / Special Specifications	2	$ 250				1			1	
		Prepare 60% OPCC	2	$ 250				1			1	
		Submit 60% Plans, OPCC, and Schedule (2 hard copies, 1 pdf)	2	$ 250				1			1	
		60% Comment Response Letter	2	$ 330	1			1				
		Prepare 90% Plans - General Notes	2	$ 250				1			1	
		Prepare 90% Plans - Quantity Sheet	3	$ 360				1			2	
		Prepare 90% Plans - Illumination Sheets (5 layout sheets including electrical service schedule)	8	$ 940				2			6	
		Prepare 90% Project Specific / Special Specifications	2	$ 250				1			1	
		Prepare 90% OPCC	2	$ 250				1			1	
		Submit 90% Plans, OPCC, and Schedule (2 hard copies, 1 pdf)	2	$ 250				1			1	
		90% Comment Response Letter	2	$ 330	1			1				
		Prepare 99% Plans - General Notes	2	$ 250				1			1	
		Prepare 99% Plans - Quantity Sheet	3	$ 360				1			2	
		Prepare 99% Plans - Illumination Sheets (5 layout sheets including electrical service schedule)	3	$ 360				1			2	
		Prepare 99% Project Specific / Special Specifications	2	$ 250				1			1	
		Prepare 99% OPCC	2	$ 250				1			1	
		Submit 99% Plans, OPCC, and Schedule (2 hard copies, 1 pdf)	2	$ 250				1			1	
		99% Comment Response Letter	2	$ 330	1			1				
3		Prepare 100% Plans, Specifications, OPCC	3	$ 360				1			2	
		Submit 100% Plans, Specifications, OPCC (2 hard copies, 1 pdf)	2	$ 250				1			1	

EXHIBIT 3 - FEE ESTIMATE

City of San Marcos, Texas
Kissing Alley (Jacks Alley Only)
American Structurepoint

					American Structurepoint Staff							Direct Expenses
		Professional Service Description	Total Task Hours	Total Task Cost	Project Manager	QA/QC	Senior Project Engineer	Project Engineer	Sr Tech	Tech	EIT	Mileage @ $0.58/mile
					$190.00	$240.00	$180.00	$140.00	$135.00	$95.00	$110.00	Fee
		Phase C - Bid Phase	**0**	**$ -**								
1		Project Management	0	$ -								
2		Answer Contractor Questions (1)	0	$ -								
3		Addenda (1)	0	$ -								
		Phase D - Construction Phase	**0**	**$ -**								
1		Project Management	0	$ -								
2		Attend Pre-construction Conference	0	$ -								
3		Shop Drawings/Submittal Review (2 submittals)	0	$ -								
4		Requests for Information (RFIs)	0	$ -								
5		Construction Site Visits	0	$ -								
6		Attend Substantial Completion Walk-through and Prepare Punchlist	0	$ -								
7		Attend Final Completion Walk-through and Prepare Recommendation of Final Payment Letter	0	$ -								
		END BASIC SERVICES LABOR										
		Total Basic Service Hours:	**157**		**13**	**8**	**0**	**72**	**0**	**0**	**64**	
		Total Basic Services LABOR	**$ 21,510**									
		Direct Expenses		**$ 46**								
		Mileage ($0.58/mile)	0	$ 46								$46.00
			0	$ -								
		END										
		Total Direct Expenses	**$ 46**									
		Total Fee Basic + Direct Expenses		**$ 21,556**								

The hours listed above are an estimate. The hours assigned to the Phase are not exclusive to the Phase which they are assigned. The total fee will not exceed the total contract amount as discussed in Article 2. The hourly rates of this contract shall apply throughout the remainder of this contract and to all change in services.

Payment to the ENGINEER will be made as follows:

1. Basic Services - The amounts of these invoices will be based upon the extent of work completed by the Engineer on an hourly basis.
2. Supplemental Services - The Engineer will receive approval in writing before performing supplemental services. The amounts of these invoices will be based upon the extent of work completed by the Engineer on a lump sum basis.
3. Reimbursable Expense - Reimbursable expenses including such things as expenses for plotting, reproduction of documents, auto travel mileage (current IRS approved mileage rate), delivery charges, long distance communications, freight, and state accessibility will be invoiced with appropriate backup documentation.

Invoice and Time of Payment

Invoices will be prepared in a format approved by the City prior to submission of the first monthly invoice. Invoices shall be submitted monthly and paid within 30 days.

SUE Scope of Services

The purpose of this SUE investigation is to provide additional twelve (12) Test Holes and additional QLB designating on N. Guadalupe Street, E. Hutchison St., and alley that crosses Kissing Alley, as per attached exhibit (cyan shaded area). QLB designating on Kissing Alley was part of the original scope.

When performing this type of work CobbFendley typically follows ASCE 38-02 "The Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data"- see below.

Utility Quality Levels are defined in cumulative order (least to greatest):

Quality Level D - Existing Records: Utilities are plotted from review of available existing records.

Quality Level C - Surface Visible Feature Survey: Quality Level "D" information from existing records is correlated with surveyed surface-visible features.

Quality Level B - Designate: Two-dimensional horizontal mapping. This information is obtained through the application and interpretation of appropriate non-destructive surface geophysical methods. Utility indications may be referenced to established survey control. Additional description of services, methodology and equipment to follow.

Quality Level A - Locate (Test Hole): Three-dimensional mapping and other characterization data. This information is obtained through exposing utility facilities through test holes and measuring and recording (to appropriate survey control) utility/environment data.

It is anticipated that for this project, CobbFendley will provide QLB and QLA (Test Holes). SUE investigations are conducted for engineering design purposes and are not to be used for construction clearing purposes.

Utility Designating (Quality Level B)

1. CobbFendley will perform Record Research to obtain utility information for site and adjacent streets that may contain utilities leading onto the site - to assist identifying utilities and marking them in the field. Client to provide any utility as-built records and contact information they have available.
2. CobbFendley will designate (means to record and mark) the horizontal location of the existing tone-able utilities using non-destructive surface geophysical techniques. Tone-able utilities are typically utilities that are conductive. Water and communication vaults can be investigated from above ground. Cobb Fendley does not typically enter buried power vaults or manholes. Utility service lines may not be conductive and therefore may not be shown. Overhead utilities and storm drains are not included.
3. Ground Penetrating Radar (GPR) services will not be provided for this project.
4. A non-water base paint, utilizing the APWA color code scheme and pin flags will be used on all surface markings of underground features.
5. Survey utility field marking and above ground utility features. Draft survey data to provide composite utility map. Client will provide the base map in AutoCAD format, as well as the applicable project survey control information.

Vacuum Excavation (Quality Level A)

Based on Level B SUE performed above, potential utility conflicts will be identified by the Client – this scope is for an additional 12 test holes (0-6ft deep), in addition to the 8 test holes in the original scope. It is anticipated that 2-3 test holes can be excavated per day depending on location, site conditions and depth Test holes are typically excavated using a nondestructive compressed air vacuum excavation truck - performed as follows:

1. Comply with policies for the prevention of underground utility damage (i.e., one-call system).
2. If test holes are in pavement, neatly cut and remove existing paving.
3. Vacuum excavate to measure and record the depth and location of found items. CobbFendley accepts no responsibility for contaminated soils should they be encountered during excavation. CobbFendley does not take ownership of any excavated material. This scope and fee does not include addressing issues with excessive ground water, flooded swales or other ground and surface water issues.
4. Record (as possible, depending on digging conditions) depth of the utility, line size, line material, condition of the line, type of soil around the line. Provide markers at each utility location.
5. Backfill the hole with excavated material and asphalt cold-patch compacted in-place.
6. Survey of utility test hole locations. Client will provide the base map in AutoCAD format, as well as the applicable project survey control information.
7. CobbFendley's final deliverable will be test holes data sheets showing utility depth, size and line material, condition of the line, type of soil for each location, as appropriate and as site conditions allow.
8. CobbFendley is not responsible, and will be compensated, for dry test holes that are on utilities that are undesignatable, not in the location as per the as-builts, or otherwise unable to confirmed for horizontal position prior to digging. Client will be notified if this is an issue during the project.

Standard traffic safety measures will be performed by CobbFendley (if needed) and is included in our standard rates, which is short-term signage and cones to provide notice to the public and safety for crews, to access utility features adjacent to the roadway or other traffic areas. It is anticipated that full traffic control (lane closures, arrow board, etc.) will be required to perform these services and is included in the fee estimate.

SUE Limitations

Above ground geophysical techniques cannot guarantee to find all buried utility lines. This is particularly true with when GPR is being used in unfavorable conditions. Soil conditions in most parts of Texas are not conducive to GPR use (the USDA Natural Resource Conservation Service maps show the suitability of soil for GPR use as low), as a result its effectiveness in finding buried utilities is limited.

CobbFendley will perform SUE in accordance with ASCE 38/02 Standard Guidelines and will exercise all reasonable and customary care in the performance of SUE and Survey services, realizing efficient design and ultimately the safety of all personnel is a prime consideration in the detection and mapping of subsurface utility features which may be in conflict with proposed construction. However, a possibility exists that some utilities may not be detected and/or mapped using standard SUE procedures previously described. While uncommon, utilities possessing these characteristics can be missed while using the standard SUE procedures: utilities buried excessively deep, beyond detection limits of standard locating equipment, abandoned utilities, utilities with no apparent surface features and no records available, non-conductive utilities, and utilities buried in soil unsuitable for GPR detection.

Contractor shall call One Call before excavating as required by Texas Law.

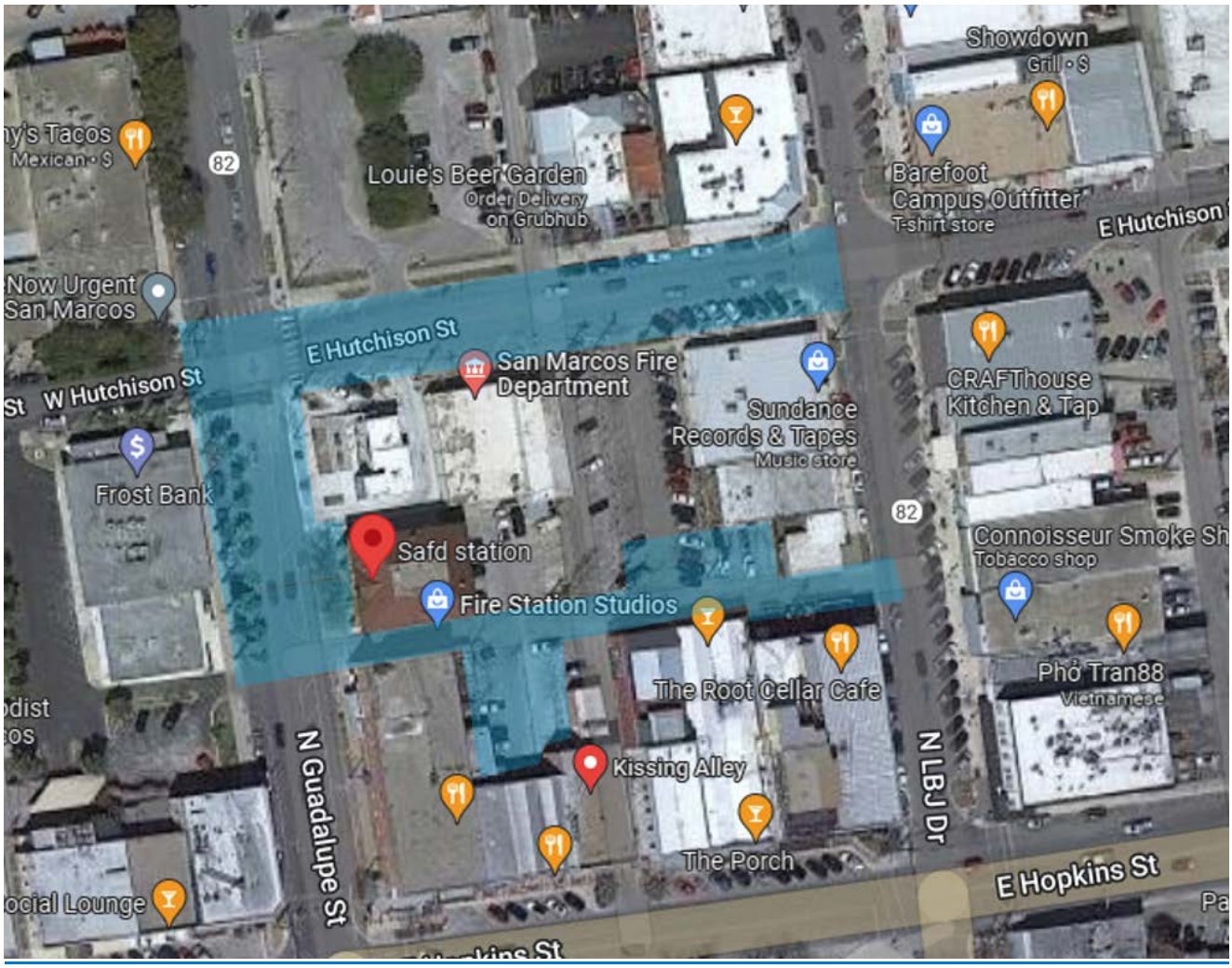
SUE Assumptions

- All Access provided by the City/Client
- No specialized back fill or pavement patching (excavated spoils and cold patch asphalt only)
- No coring of pavement or other specialized excavation methods
- No excessive traffic control (concrete barriers, police escort, TMA trucks, etc.)
- No Permit fee or permitting process with the City
- All sites accessible without any physical barriers
- No engineered traffic control plans

CobbFendley

Exhibit - SUE Scope Map

Scope limits shown by cyan shaded area below:



CobbFendley

DOWNTOWN ALLEY RECONSTRUCTION
REVISED SCOPE

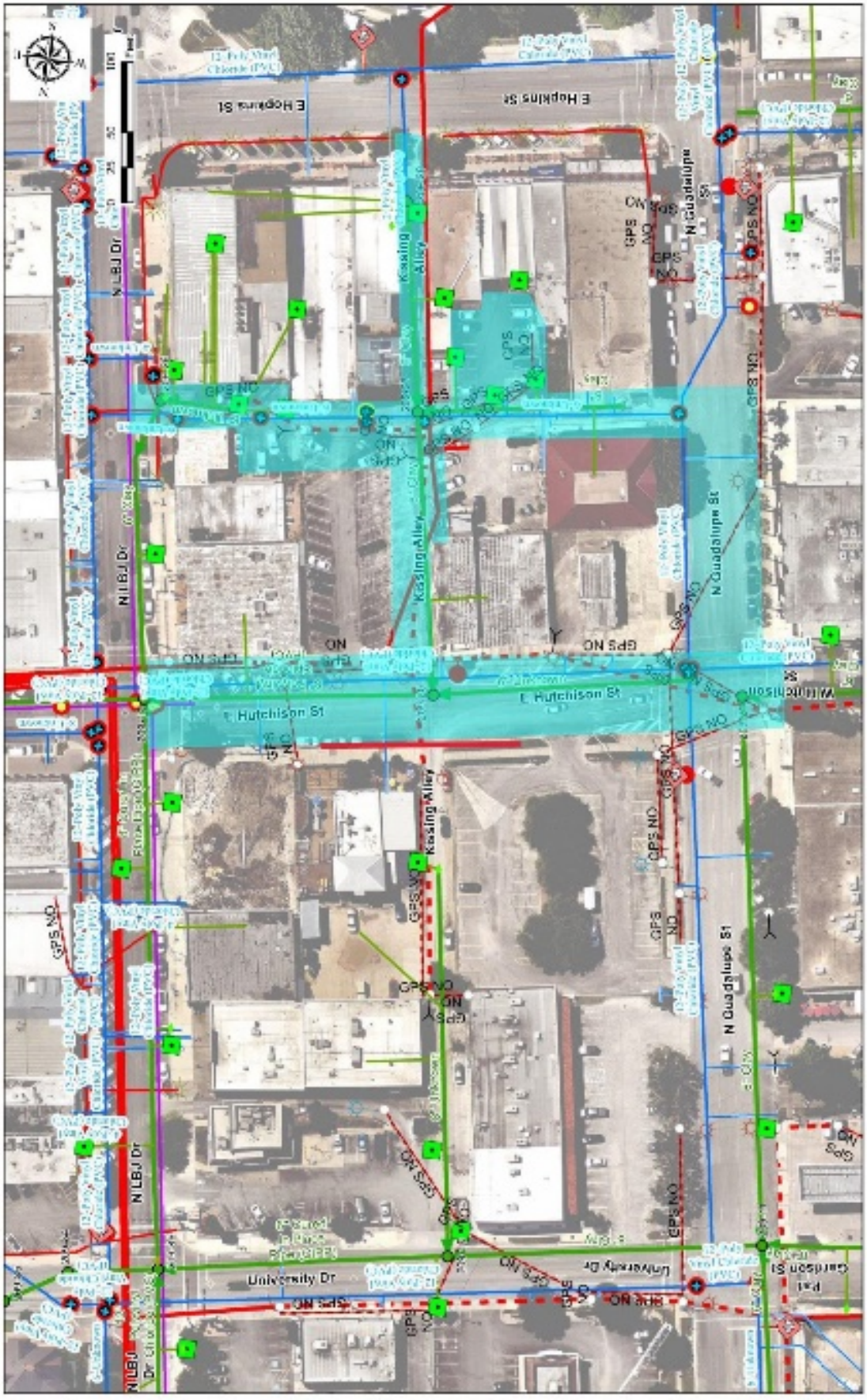


EXHIBIT 3 - UTILITY COORINDATION -FEE ESTIMATE

City of San Marcos, Texas

Kissing Alley Additional Services - SUE Services

			Staff																	Task Budge
	Professional Service Description	Total Task Hours	Project Manager	Senior Engineer	Engineer III	Engineer II	Engineer I	Senior Utility Specialist	Utility Specialist	Senior Technician	Technician III	Technician II	Technician I	SUE Task Manager	SUE Desig 1 man	SUE Desig 2 man	Vac Truck and Crew	RPLS	Survey Crew	Clerical Staff	
			$275.00	$260.00	$160.00	$145.00	$125.00	$165.00	$140.00	$135.00	$120.00	$110.00	$90.00	$155.00	$125.00	$185.00	$260.00	$150.00	$150.00	$75.00	Fee
1.5	**Subsurface Utility Engineering**																				
																					$45,040.00
	1.5.1 QL-B Designations (4 days field work)	116		8						16	6			8		48		4	24	2	$19,430.00
	1.5.2 QL-A Vacuum Excavation (up to 12 test holes 0-6ft deep)	100		8						12	4			6		6	54	1	7	2	$21,610.00

Expense - Traffic Control - assume 4 days @ $1000 per day = $4000 — $4,000.00

SUE Assumptions:

All Access provided by the City/Client
No specialized back fill or pavement patching (excavated spoils and cold patch asphalt only)
No coring of pavement or other specialized excavation methods
No excessive traffic control (concrete barriers, police escort, TMA trucks, etc.)
No Permit fee or permitting process with the City
All sites accessible without any physical barriers
No engineered traffic control plans