MAESTAS

October 25, 2018

Sean Reich, PE City Engineer City of Boerne Public Works Department 402 E. Blanco Road Boerne, Texas 78006

Re:

Old San Antonio Road Right Turn Lane

Professional Engineering Services Proposal

Dear Mr. Reich:

Maestas & Associates, LLC is pleased to submit this revised proposal for performing design services for Old San Antonio Road at Herff Road right turn lane.

We look forward to working with you and your staff on this project and I thank you for providing us with the opportunity to be of service to City of Boerne.

The proposed fee for the attached scope of services is:

For a total supplemental fee of \$15,192.00

Sincerely,

Ernest Maestas, PE

Maestas & Associates, Inc.

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President

City of Boerne Approval

Name:_____

Date:

City of Boerne Public Works Scope of Services for Old San Antonio Road Right Turn Lane

Project Description

This project proposes to widen Northbound Old San Antonio Road at Herff Road to provide a right turn lane. Construction will include widening existing flexible pavement, signing, striping vegetation. Existing drainage systems. Adjustment and/or relocation of existing water, sewer and gas utilities are not anticipated.

Below is a detailed summary of the engineering and survey services to be provided by Maestas & Associates, LLC. and its team of subconsultants that are required for the design and preparation of final construction documents for this project.

Scope of Services

1. Project Management and General Items

- 1.1. Site visits
- 1.2. Gather and analyze existing utility map information
- 1.3. Project Management

2. Right of Way Surveying (Performed by CEC, Inc.)

- 2.1. Acquire Ownership information
- 2.2. Show apparent ROW

3. Topographic Surveying/ Base Mapping (Performed by CEC, Inc.)

- 3.1. Establish Primary Project Control
- 3.2. Establish Secondary Project Control
- 3.3. Set Project centerline or baseline (50' Interval)
- 3.4. Survey topographic features
- 3.5. Survey Cross sections / spot elevations to develop DTM/cross sections 5 feet into adjacent property only where ROE can be secured
- 3.6. Call 811 and coordinate with COB to mark Utilities.
 - 3.6.1. Water
 - 3.6.2. Sanitary Sewer
 - 3.6.3. Natural Gas
 - 3.6.4. Underground Electric
 - 3.6.5. Overhead Electric
 - 3.6.6. Underground Telephone
 - 3.6.7. Overhead Telephone
 - 3.6.8. Underground Cable Television Overhead Cable Television

- 3.7. Utility Survey
 - 3.7.1. Survey Quality Level B paint marks
 - 3.7.2. Water
 - 3.7.2.1. Valve Box elevations
 - 3.7.2.2. Valve Stem elevations
 - 3.7.3. Sanitary Sewer
 - 3.7.3.1. Manhole Rings and Covers elevations
 - 3.7.3.2. Invert elevations and details (sizes, configurations, flow directions, north arrow)
 - 3.7.4. Natural Gas
 - 3.7.4.1. Valve Box elevations
 - 3.7.4.2. Valve Stem elevations
 - 3.7.4.3. Test box elevations
 - 3.7.5. Storm Drainage
 - 3.7.5.1. Manhole rings and covers elevations
 - 3.7.5.2. Invert elevations and details
 - 3.7.5.3. Curb inlets
 - 3.7.5.3.1. Top elevations
 - 3.7.5.3.2. Floor and invert elevations
 - 3.7.5.3.3. lateral details (sizes, configurations, flow directions, north arrow)
 - 3.7.5.4. Outfall elevations
 - 3.7.6. Underground Electric
 - 3.7.6.1. Manhole rings and covers elevations
 - 3.7.7. Telephone
 - 3.7.7.1. Manhole rings and covers elevations
 - 3.7.8. Underground Cable Television
 - 3.7.8.1. Manhole rings and covers elevations
- 3.8. Survey Trees
 - 3.8.1. Perform survey of all trees with trunk diameter > 4".
 - 3.8.2. Tree survey data shall include species, trunk diameter and spread.
 - Includes tag descriptions of surveyed trees to correlate to the digital survey data.
- 3.9. Prepare Project Layout w/survey control points

4. Roadway Design

- 4.1. Prepare existing and proposed typical roadway cross sections showing lanes, and clear zone widths, etc.
- 4.2. Establish proposed horizontal and vertical roadway alignments
- 4.3. Develop combined roadway/drainage plan and profile sheets at 1" = 40' scale on 11" x 17" format. Plans will include:
 - 4.3.1. Existing ground profiles at centerline and left and right ROW
 - 4.3.2. Proposed Horizontal Roadway alignments showing
 - 4.3.2.1. Centerline geometry (centerline bearings, PI, PC, and PT stations, centerline curve data, curb return radii, etc.)
 - 4.3.2.2. Curb locations and geometry
 - 4.3.2.3. Lane widths

- 4.3.2.4. Sidewalk widths and locations
- 4.3.2.5. Transitions and extent of construction of intersecting streets
- 4.3.3. Proposed Roadway vertical alignment showing right and left top of curb profile
- 4.4. Develop Roadway Cross Sections at 50 foot intervals and centerline of all driveways showing existing and proposed utilities.
- 4.5. Identify Roadway Standard Boerne Details

5. Drainage

- 5.1. Ensure widening does not impact adjacent drainage ditch geometry.
- 6. Pavement Design and Geotechnical Services Utilize Geotechnical Report and Pavement Design Provided for Herff Road.

7. Utility Coordination

- 7.1. Perform Utility Coordination:
 - 7.1.1. Call 811 to have utilities marked, and (included in CEC Survey Scope)
 - 7.1.2. Survey (included in CEC Survey Scope)
 - 7.1.3. Show surveyed utilities on the plan sheets
 - 7.1.4. Conduct conflict assessment and document any conflicts in a conflict matrix.

8. Traffic Engineering

- 8.1. Prepare Signing and Pavement Marking Plans and Details, including verify signal is placed properly with the added lane.
- 8.2. No Construction Phasing, to be determined by CoB forces during construction.

9. Environmental / Permitting (Coordination, Studies and Design)

9.1. No SWPPP will be provided, controls to be applied by CoB forces during construction.

10. Meetings and Coordination

10.1. Design Coordination Telephone calls

11. Cost Estimating

11.1. Prepare and/or Update Opinion of Probable Construction Costs for Design Phase: 11.1.1. Verify bid items, descriptions, units of measure and quantities for base plans.

12. Design Phase Submittals/Deliverables to City

- 12.1. Compute plan quantities and update Summary of Quantities Sheets
- 12.2. Prepare Written Responses to All Previous Comments
- 12.3. Perform QA/QC
- 12.4. Assemble and Submit Plan Deliverables (PDFs and DGNs on CD)
- 13. Exclusions, the following elements are not included in the scope of services or form basis of assumption in the above proposed scope:

- 13.1. Drainage scope is limited to channel design, drainage area maps and detail drainage design is not included. (Capacity check should be sufficient to address project.)
- 13.2. Tie in of widening will be at Herff road stub out for Old San Antonio Road. Only milling overlaying and striping will occur in the existing intersection.
- 13.3. Vegetation will be sod placed on top of topsoil.
- 13.4. No signal modification will be provided. Possibly adding overhead signs to the master arms limits of signal construction.
- 13.5. ROW will only be established as apparent ROW.

City of Boerne Public Works

FEE SUMMARY AND TIMELINE FOR PROFESSIONAL SERVICES

Project:

Old San Antonio Road Right Turn Lane

Prime Consultant:

Maestas & Associates, LLC

Proposal Date:

10/17/2018

Prepared By:

Maestas & Associates, LLC

ACTIVITY	TIMELINE (CALENDAR DAYS)	FEE			
Design Phase 1. Maestas & Associates, Inc. 2. CEC	60	\$15,192.00 \$10,580.00 \$4,612.00			
BASE FEE TOTAL	60	\$15,192.00			

ADDITIONAL SERVICES

NEGOTIATED AT TIME OF BIDDING IF NEEDED

EXHIBIT 1

City of Boarne Public works

Old San Antonio Right Turn Lane (North Bound) at Herff Road.

all Civil Engineering Services
tas & Associates, LLC
per 25, 2018
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Position Personnel Title	Principal	Project Nanoger	Senior Project Engineer	EiT I	ЕГП	EITIII	CADD Toch I / Eng Tech I	CADD Tech li Eng Tech li		Admini-Clerical	
Fully-Landed Hourly Wage Rates * as defeat tielow)	\$190 00	\$165.00	\$160.00	\$105 00	\$115.00	\$125 00	\$95.00	\$105 00	\$115 00	\$75 00	
						New York					
Turk to be partouned Phrise Description (including Sub-consult int work)	Hours	Heurs	Hours	Hours	Hours	Haurs	Fiours	Hours	Hours	Hours	Total Hours
Design Phase											
Project Management and General Items									,		
1.1 Site visits		3									3
1.2 Gather and analyze existing utility map information 1.3 Project Management			3		-					4	3
		Z								4	0
Right-of-Way Surveying and Mapping Apparent ROW only (By CEC)											
Topographic Surveying / Base Mapping (By CEC)											
Roadway Design						ARAGA — LAGOS MORO					0
4.1 Prepare roadway typical sections - existing and proposed 4.2 Horizontal & vertical roadway alignments			2		4			2			8
Develop combined roadway plan & profile sheets at 1" = 40' scale on 11" x 17"											7
4.3 format. Ditch and Drainage elements to be shown on the sheet		1	2		6			8			17
4.4 Develop Roadway Cross Sections at 50 ft Intervals & centerline of all driveways		1	2		3			6			12
4.5 Identify and incorporate Roadway Standard COB Details							NAME OF THE OWNER O	1			1
Oralnage Design			- 10	1 1							
5.1 None provided except to ensure widening does not encroach on ditch											
Pavement Design and Geotech Services (Based on Herff Road adjacent to Project)											
Utility Coordination / Management 7.1.1 Coordinate with COB to mark utilities call 811 for utility locates					1	-		2		3	
7.1.2 Survey marked utilities and verify with previous plans (CEC)								- 4		3	
7.1.3 Show Utility mapping based on Survey on Plan Sheet			1		2			2			5
7.1.4 Conduct initial utility conflict analysis and prepare Utility Conflict Matrix.			1		2						3
Traffic Engineering											
8.2 Signing and Pavement Marking Layout		1			2			2			5
Environmental/Permiting (Coordination, Studies and Design)											
9.1 SW3P Plans will not be prepared											
						100					
Meetings and Coordination 11.1 Design Coordination Phone Calls		2									0
The paragraphic condition of the conditi		- 4									
Cost Estimeting							£		Part 114-71 (company)		(III)
12.1 Prepare Cost Estimate			1		3		-				4

EXHIBIT 1

City of Boerne Public works

Old San Antonio Right Turn Lane (North Bound) at Herff Road.

Project Name	On-Call Civil Engineering Services
Name of Firm Subconsultant	Maestas & Associates, LLC
Date Proposal Submitted:	October 25, 2018
Project Manageri	Jason Scheppers

Position/Personnel Titlia	Principa!	Project Manager	Senior Froject Engineer	EIT I	EIT II	EIT III	CADD Tech I / Eng Tech I	CADD Tech II / Eng Tech II	CADD Tech III / Eng Tech III	Admin/Clerical	
Fully-Loaded Hourly Wage Rates 1 (as defined below)	\$190.00	\$165.00	\$160.00	\$105.00	\$115,00	\$125 00	\$95 00	\$105 00	\$115 00	\$75 00	
Design Phase Submittats/Deliverables to City			*****								
13.4 Perform Internal OA/QC and Complete Cartification Form 13.5 Assemble and Submit Plan Deliverables (PDFs and DGNs on CD)		2	2								
Total Hours Design Phase:	0	12	14	0	27	0	0	26	0	7	8
Total Design Phase Fee (Not to Exceed):	\$0.00	\$1,980.00	\$2 240 00	\$0.00	\$3,105.00	\$0.00	\$0.00	\$2,730.00	\$0.00	\$525 00	\$ 10,580,00

EXHIBIT 1

Fee/Price Proposal Braskdown for Professional Services

Piojetti me	Old San Antonio Rd @ Herff Rd Design Topo Rosewood
Martie Subcrins Jianti	Civil Engineering Consultants, Inc.
Date Proposal School field:	October 4, 2018
Project Manager.	Dion P. Albertson

Position/Farconne/ Title	Abstractor	Department Head - Sr. Project Til prager	Sc Protest Manager	Sulvey Free c	t 24 fan Sur ley Clew	3-Man Survey Grow	Sr. Survey Technic an	Sun.e, Tegnnician	Survey Coordinator	Computer Scanning Technician	L Person Static Scan Clew		Lidar filobile Mapping Unit	Admin. Clerical	
fully Loaded Noting Wage Plates 1 (as defined below)	\$100.00	\$190.00	\$150.00	\$145.00	\$155.00	\$204 00	\$115.00	\$95.00	\$100.00	\$110 00	\$300.00	\$500.00	\$4 000 00	\$65.00	
Task to be performed. Physiol Description (molecting Sun- physicant, work)	Hours	Hours	Hours	Hours	Haurs	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Davs	Hours	Hours
Abblization, Research, Deed/Plat Drafting Set 3 Project Control Pots & Locate ROW Mons		1		0.5				4						0.25	10.75 4.5
Detailed topg in 300'X50' area as requested-E ROW of OSAR igot Elay-Edge payement & ROW line as requested						6 3			0.5 0.5				2		6.5 3.5
2C, Process, Analyzation, Drafting & Deliver V8i file				2			3							0.25	5.25
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Intal Fee Proposel (Not to Exceed)	\$500.00	\$190.00	\$0,0	0 5302.50	\$0.00	\$2,652,00	53-15 00	\$380 00	\$150.00	\$0.00	50.00	\$0.00	50 09	\$32.50	\$4,612.6

^{*} A fully-foaded Hourly Wage Rate is defined as an employee's base hourly rate plus labor overhead (including fringe benefits), general and administralive (indirect) expenses in profit and escalation (if applicable).