

ATTACHMENT D

AUTHORIZATION OF CHANGE IN SERVICES
CITY OF SAN MARCOS, TEXAS

PROJECT: Sessom Drainage Imps at Academy (#217-262)

CONSULTANT: American Structurepoint, Inc.

AUTHORIZATION NO.: 4

ORIGINAL CONTRACT DATE: March 21, 2017

AUTHORIZATION DATE: August 4, 2020

WORK TO BE ADDED TO OR DELETED FROM SCOPE OF SERVICES

A change in service is requested to provide additional design engineering for the Sessom Drainage Improvement at Academy project. Scope will include developing two preliminary striping options for Academy/Sessom pavement markings from Holland St to LBJ Drive that follows to the MoveSM Memo. Once the preferred option is selected revisions will be made to TCP, Signing and Pavement Marking, and Traffic Signal sheets and cost estimate.

Previous Change In Services

#1: October 25, 2017; Geotechnical Engineering Services; \$2,950.00

#2: April 2, 2018; Surveying, drainage, landscaping, tree mitigation, and irrigation services; \$49,961.00

#3: June 2019: Surveying, drainage, water and wastewater design, SUE, Construction Phase Services: \$146,418.62

| | |
|---|----------------------|
| Previous contract amount: | <u>\$ 427,500.62</u> |
| Net increase/decrease in contract amount: | <u>\$ 96,204.00</u> |
| Revised contract amount: | <u>\$ 523,704.62</u> |

Requested by:

By:



Date: 8/7/2020

RICARDO ZAMARRIPA, VP

Printed name, title

Approved by:

City of San Marcos:

Date: _____

By: _____

Bert Lumbreras, City Manager

6/18/08

**ATTACHMENT A: SCOPE OF SERVICES FOR CIS#4
CITY OF SAN MARCOS
SESSOM DRAINAGE IMPROVEMENTS AT ACADEMY PS&E**

Project Understanding

The work to be performed by The ENGINEER, under this contract will consist of Design Engineering (100%) for Change in Service (CIS) #4. Scope will include the work necessary to develop 2 preliminary striping options for Academy/Sessom pavement markings from Holland St to LBJ Drive that follows to the MoveSM Memo prepared by the City of San Marcos. Once the preferred option is selected by the City, the current TCP Plan, Pavement Marking, Traffic Signal Layout, and Signing sheets, sign and pavement marking details and cost estimate will be revised. The additional pavement marking sheets will be based on existing GIS and Aerial photography. (No additional survey to be performed).

I. Preliminary Phase (30%)

- A. Field Investigations/ Data Collection
 - i. Perform site visit to document striping configurations and collect measurements of lanes, sidewalks, and curb ramps at the following intersections:
 - a. Holland St and Academy/Sessom Dr.
 - b. Harvard St and Academy/Sessom Dr.
 - c. Comanche St and Academy/Sessom Dr.
 - d. Tomas Rivera Drive and Academy/Sessom Dr.
 - e. LBJ Drive at Academy/Sessom Dr.
 - f. Holland at RM12.
 - ii. Collect GIS data along project limits
- B. Provide 2 alternatives typical section and operational analysis
 - i. Alternative 1: One 10' lane in each direction, single bus lane and on street bike lanes in each direction.
 - ii. Alternative 2: One 12' lane in each direction, and 6' on street bike lane with 3' buffer in each direction.
 - iii. Traffic Operational analysis for each alternative with recommendation memo. Traffic study area to include Academy Street between W Holland St to Sessom Dr and Sessom Dr. between Academy St. to LBJ Dr.
 - a. Review traffic analysis provided by the City for segment capacity and safety for both vehicles and on-street bicycles based on each alternative's typical section.
 - b. Review traffic analysis provided by the City for intersection capacity at Sessom/Academy, Sessom/Comanche, and Sessom/LBJ intersections for each alternative.
 - c. Summarize review of analysis provided by the City alternatives in a memorandum

II. Design Phase (90%/100%)

- A. Project Management and QA/QC: This task includes routine communication with the OWNER; managing subconsultants, manpower, budgets, and schedules; invoicing; implementing and monitoring of QA/QC efforts; and other activities associated with managing the project for 3 additional months.
- B. Meetings:
 - i. City of San Marcos coordination meetings (2 meeting)
 - a. Attend (2) City of San Marcos coordination meeting.
- C. Design Sheet Categories
 - i. Typical Sections
 - a. Revise current typical sections to reflect the preferred alternative following to the recommendation from 2.B. ii. Above and direction from the City. .
 - b. Add 2 additional typical sections (1 sheet) to cover added pavement marking areas for Holland St to Yale St and Comanche to LBJ Dr.

- ii. Traffic Control Plans
 - a. Revise the current traffic control plans to reflect the revised lane configuration resulting from the preferred lane configuration. (Narrative, quantities sheets)
 - b. Add additional sheets to include the restriping areas from Holland St to Yale St and Comanche St to LBJ Dr. and along Holland Street from RM12 to Academy.
- iii. Traffic Plans
 - a. Revise traffic signal, phasing and plans to accommodate the revised lane assignments at the Sessom Dr. and Academy St. intersection. (3 sheets)
 - b. Add traffic signal modification plans and details to accommodate the revised lane assignments at N Comanche St. & Sessom Dr. (3 sheets) and add traffic signal modification plan for detection adjustments to accommodate the revised lane assignments at LBJ Dr & Sessom Dr. (1 sheets)
 - c. Revise current stripping and signing sheets to include striping configurations following the preferred alternative. (5 sheets and sign and pavement marking details, pavement marking and signing quantity sheet)
 - d. Add additional sheets to include Holland St to Yale St and Comanche St to LBJ Dr. (4 sheets) and Holland Street from RM12 to Academy (approx. 900' -3 sheets)
 - e. Add additional sheets at the intersection of Holland St and Academy/Sessom Blvd and one additional sheet at the intersection of LBJ Dr and Academy/Sessom Blvd.
- iv. Estimate
 - a. Update quantities and opinion of probable construction cost.

C. Resubmit 90% plans with redesigned pavement markings and signals.

III. Construction Phase

No additional services.

Exclusions

- A. The following services are not included in the scope:
 - a. No additional survey
 - b. No additional SUE
 - c. No additional Geotechnical

AMERICAN STRUCTUREPOINT, INC.
ATTACHMENT B: ESTIMATED FEE SUMMARY FOR CIS#4
CITY OF SAN MARCOS
SESSOM DRAINAGE IMPROVEMENTS AT ACADEMY

| Task | Principal | QA/QC | PM | Sr Proj Eng | Proj Eng | Sr Tech | Tech | EIT | Total Hours | Labor Cost | ASI Direct Expenses | Accessibility Code Etc. TDLR | Coleman Landscaping | Cobb Fendley SUE | Chaparral Survey | KFrieese W/WW | Total Subconsultants | Total Cost |
|---|-----------|-------|----|-------------|----------|---------|------|-----|-------------|--------------|---------------------|------------------------------|---------------------|------------------|------------------|---------------|----------------------|--------------|
| I. Design Phase (30%) | | | | | | | | | | | | | | | | | | |
| A. Field Investigations | | | | | | | | | | | | | | | | | | |
| i. Perform site visit | | | | 8 | | | | 16 | 24 | \$ 3,200.00 | | | | | | | \$ - | \$ 3,200.00 |
| ii. Collect GIS | | 1 | | 2 | | | | 8 | 11 | \$ 1,480.00 | | | | | | | \$ - | \$ 1,480.00 |
| B. Two alternatives -Typical sections and Operational Analysis | | | | | | | | | | | | | | | | | | |
| i. Alternative 1 | | 1 | | 1 | | | | 6 | 8 | \$ 1,080.00 | | | | | | | \$ - | \$ 1,080.00 |
| ii. Alternative 2 | | 1 | | 1 | | | | 6 | 8 | \$ 1,080.00 | | | | | | | \$ - | \$ 1,080.00 |
| iii. Operational Analysis | | | | | | | | | | | | | | | | | | \$ - |
| a. Review analysis segment capacity and safety - 2 alternatives. | | | | | 11 | | | 8 | 19 | \$ 2,420.00 | | | | | | | \$ - | \$ 2,420.00 |
| b. Review Capacity analysis at (3 intersections, 6 traffic scenarios) | | | | 2 | 2 | | | 36 | 40 | \$ 4,600.00 | | | | | | | \$ - | \$ 4,600.00 |
| c. Summary Memorandum | | 1 | 2 | 3 | 16 | | | 4 | 26 | \$ 3,840.00 | | | | | | | \$ - | \$ 3,840.00 |
| II. Design Phase (90/100%) Subtotal | 0 | 1 | 2 | 5 | 29 | 0 | 0 | 48 | 110 | \$ 17,700.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 17,700.00 |
| II. Design Phase (90/100%) | | | | | | | | | | | | | | | | | | |
| A. Project Management and QA/QC | | | | | | | | | | | | | | | | | | |
| i. Project Management | 3 | | 3 | | | | | | 6 | \$ 1,320.00 | | | | | | | \$ - | \$ 1,320.00 |
| ii. QA/QC | | 3 | | | | | | | 3 | \$ 720.00 | | | | | | | \$ - | \$ 720.00 |
| B. Meetings | | | | | | | | | | | | | | | | | | |
| i. City of San Marcos coordination meetings (2 meeting) | | | | | | | | | | | | | | | | | | |
| a. Attend 2 meeting | | | 4 | 4 | | | | 2 | 10 | \$ 1,700.00 | | | | | | | \$ - | \$ 1,700.00 |
| C. Design Sheet Categories | | | | | | | | | | | | | | | | | | |
| i. Typical Sections | | | | | | | | | | | | | | | | | | |
| a. Revise current typical sections | | 1 | 1 | 2 | 4 | | | 8 | 16 | \$ 2,230.00 | | | | | | | \$ - | \$ 2,230.00 |
| b. Add new typicals to plans | | 1 | 1 | 2 | 4 | | | 8 | 16 | \$ 2,230.00 | | | | | | | \$ - | \$ 2,230.00 |
| ii. Traffic Control Plans | | | | | | | | | | | | | | | | | | |
| a. Revise current Traffic Control Plans | | 1 | 2 | 8 | | | | 24 | 35 | \$ 4,700.00 | | | | | | | \$ - | \$ 4,700.00 |
| b. Add sheets for a added areas | | 2 | 7 | 14 | 28 | | | 56 | 107 | \$ 14,410.00 | | | | | | | \$ - | \$ 14,410.00 |
| iii. Traffic Plans | | | | | | | | | | | | | | | | | | |
| a. Revise Traffic Signal Plans (3 sheets) | | 1 | | 3 | 4 | 6 | | 16 | 30 | \$ 3,910.00 | | | | | | | \$ - | \$ 3,910.00 |
| b. Add Traffic Signal Mod. Plans at Commanche & LBJ (4 sheets) | | 1 | | 8 | 20 | | | 40 | 69 | \$ 8,880.00 | | | | | | | \$ - | \$ 8,880.00 |
| c. Revise current signing and pavement marking sheets (5 sheets) | | | 1 | 4 | 2 | 4 | | 15 | 26 | \$ 3,380.00 | | | | | | | \$ - | \$ 3,380.00 |
| d. Add sheets for Holland to Yale and Comanche to LBJ (4 shts) | | | 3 | 9 | 18 | 36 | | 70 | 136 | \$ 17,270.00 | | | | | | | \$ - | \$ 17,270.00 |
| e. Additional Intersection PM sheets (2 sheets) | | | 1 | 3 | 5 | 10 | | 20 | 39 | \$ 4,980.00 | | | | | | | \$ - | \$ 4,980.00 |
| iv. Update Quantities and Estimate | 1 | 2 | | 5 | | | | 12 | 20 | \$ 2,950.00 | | | | | | | \$ - | \$ 2,950.00 |
| D. 90% Resubmittal | | | | | | | | | | | | | | | | | | |
| i. Prepare 90% resubmittal | 1 | 6 | 4 | 8 | 16 | | | 32 | 67 | \$ 9,650.00 | | | | | | | \$ - | \$ 9,650.00 |
| II. Design Phase (90/100%) Subtotal | 4 | 12 | 27 | 70 | 101 | 56 | 0 | 303 | 513 | \$ 78,330.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 78,330.00 |
| III. Construction Phase | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Basic Scope Total | 4 | 13 | 29 | 75 | 130 | 56 | 0 | 351 | 623 | \$ 96,030.00 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 96,030.00 |
| 1%2%5%12%21%9%0%56% | | | | | | | | | | \$ 96,030.00 | \$ 174.00 | | | | | | | \$ 174.00 |
| | | | | | | | | | | Total Cost | | | | | | | | \$ 96,204.00 |

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

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------|--|--|--|--------------|
| Payment to the ENGINEER will be made as follows: | | | | | | | | | | | | | | | ASI Design Fee | | | | \$ 96,030.00 |
| 1. Basic Services - The amounts of theses invoices will be based on the extent of work completed by the Engineer on an hourly basis. | | | | | | | | | | | | | | | ASI Expenses | | | | \$ 174.00 |
| 2. Supplemental Services - The Engineer will receive approval in writing before performing supplemental services. The amounts of these invoices will be based on the extent of work completed by the Engineer on an hourly basis. | | | | | | | | | | | | | | | Accessibility Code Etc. | | | | |
| 3. Reimbursable expense - Reimbursable expenses including such 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. | | | | | | | | | | | | | | | Coleman | | | | \$ - |
| Invoice and Time of Payment | | | | | | | | | | | | | | | Cobb Fendley | | | | \$ - |
| 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. | | | | | | | | | | | | | | | Chaparral | | | | \$ - |
| | | | | | | | | | | | | | | | KFrieese | | | | \$ - |

| Direct Expenses | Rate | | Quantity | Total |
|---------------------------------|----------|-------------|----------|-----------|
| Meals | \$ 25.00 | Each | 0 | \$ - |
| Mileage | \$ 0.58 | Mile | 300 | \$ 174.00 |
| Courier Services (Deliveries) | \$ 25.00 | Each | 0 | \$ - |
| CADD Color Plotting (Per SQ FT) | \$ 1.50 | Square Feet | 0 | \$ - |
| Photocopies B/W (8.5x11) | \$ 0.05 | Each | 0 | \$ - |
| Photocopies B/W (11x17) | \$ 0.15 | Each | 0 | \$ - |
| Photocopies B/W (22x34) | \$ 0.60 | Each | 0 | \$ - |
| Color Copies (8.5x11) | \$ 0.49 | Each | 0 | \$ - |
| Color Copies (11x17) | \$ 1.00 | Each | 0 | \$ - |
| Truck for SUE | \$ 55.00 | Trip | 0 | \$ - |
| Asphalt Repair SUE | \$ 5.00 | Square Feet | 0 | \$ - |

| | | |
|--------------------------|----|--------|
| ASI Hourly Billing Rates | | |
| Principal | \$ | 250.00 |
| QA/QC | \$ | 240.00 |
| Project Manager | \$ | 190.00 |
| Sr Proj Eng | \$ | 180.00 |
| Project Eng | \$ | 140.00 |
| Sr Tech | \$ | 135.00 |
| Tech | \$ | 95.00 |
| EIT | \$ | 110.00 |
| Admin | \$ | 80.00 |

| Direct Expenses | Rate | | Quantity | Total |
|---------------------------------|-------------|-------------|-----------------|------------------|
| Meals | \$ 25.00 | Each | 0 | \$ - |
| Mileage | \$ 0.58 | Mile | 300 | \$ 174.00 |
| Courier Services (Deliveries) | \$ 25.00 | Each | 0 | \$ - |
| CADD Color Plotting (Per SQ FT) | \$ 1.50 | Square Feet | 0 | \$ - |
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| Color Copies (11x17) | \$ 1.00 | Each | 0 | \$ - |
| Truck for SUE | \$ 55.00 | Trip | 0 | \$ - |
| Asphalt Repair SUE | \$ 5.00 | Square Feet | 0 | \$ - |
| Total Cost | | | | \$ 174.00 |