



ISO 9001:2008 CERTIFIED
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
P.O. Box 791479 • Baltimore, MD 21279-1479

FORT BEND COUNTY ENGINEERING DEPARTMENT
ATTN: Ike Akinwaande, SE, PE, MLSE
301 JACKSON ST
RICHMOND, TX 77469

Date: April 14, 2022
KCI Project No: 862104420
Invoice No: 847053
Ft Bend Contract No: 20313x
P.O. NO.: 201137

Attn: MARK C DESSENS, P.E. SCHAUMBERG & POLK, INC.

PROJECT NAME: BELLAIRE BLVD RIGHT TURN LANES @ SH99
2020 MOBILITY ENGINEERING AND SURVEYING

Professional Services from February 1, 2022 through March 31, 2022

	Authorized Amount P.O. # 201137	Reallocated Budgeted Amount (03/10/2022)	Previously Invoiced P.O. 201137	Amount Due this Invoice	Total Amount Invoiced to Date P.O. 201137	Balance Remaining
KCI Services						
1) Study Phase	\$ 43,392.00	\$ 45,042.00	\$ 36,883.200		\$ 36,883.20	\$ 8,158.80
2) Design Phase	\$ 55,401.00	\$ 58,308.00	\$ 34,018.20	\$ 6,797.40	\$ 40,815.60	\$ 17,492.40
2a) TDLR Services	\$ -	\$ 1,220.00	\$ -		\$ -	\$ 1,220.00
2b) Drone Photogrammetry	\$ -	\$ 3,543.00	\$ -	\$ 3,188.70	\$ 3,188.70	\$ 354.30
3) Bid Phase	\$ 25,128.00	\$ 25,128.00	\$ -	\$ -	\$ -	\$ 25,128.00
Subtotal:	\$ 123,921.00	\$ 133,241.00	\$ 70,901.40	\$ 9,986.10	\$ 80,887.50	\$ 52,353.50
Subconsultant Services						
MBCO - TRAFFIC SERVICES						
1) Study Phase	\$ 20,470.00	\$ 16,750.00	\$ 15,510.00		\$ 15,510.00	\$ 1,240.00
2) Design Phase	\$ 35,060.00	\$ 24,460.00	\$ 18,190.00	\$ 4,162.50	\$ 22,352.50	\$ 2,107.50
3) Additional Signal Heads	\$ 7,905.00	\$ 7,905.00	\$ -		\$ -	\$ 7,905.00
TSC - GEOSURVEY						
1) Proposed ROW Mapping	\$ 5,000.00	\$ 10,000.00	\$ -	\$ 9,000.00	\$ 9,000.00	\$ 1,000.00
2) Topo Survey	\$ 36,000.00	\$ 36,000.00	\$ 32,400.00		\$ 32,400.00	\$ 3,600.00
PARADIGM - GEOTECH						
1) Roadway - Report	\$ 9,400.00	\$ 9,400.00	\$ 8,460.00		\$ 8,460.00	\$ 940.00
2) Retaining wall recommendation	\$ 1,500.00	\$ 1,500.00	\$ 1,350.00		\$ 1,350.00	\$ 150.00
Unallocated budget						
		\$ -				
Subconsultant Subtotal:	\$ 115,335.00	\$ 106,015.00	\$ 75,910.00	\$ 13,162.50	\$ 89,072.50	\$ 16,942.50
Total Services	\$ 239,256.00	\$ 239,256.00	\$ 146,811.40	\$ 23,148.60	\$ 169,960.00	\$ 69,296.00

\$ 23,148.60

Approved by:

Thank you.
Susan D. Miller
Vice President

ED



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15021 Katy Freeway, Suite 200 • Houston, Texas 77094 • Phone 832-975-565

March 2022
Bellaire Boulevard Turn Lanes at SH 99, under 2020 Mobility Bond
Project No. 20313x
ENGINEERING PROGRESS SUMMARY

Milestones:

1. ROW documents submitted on 3/28/2022
2. SAM's Club driveway issues was resolved on 3/10/2022

Summary of Work Completed through March 31, 2022:

1. 70% Plan Set Comment review conference call on 3/15/2022.
2. Clarifications from Fort Bend County Toll Road Authority related to plan set comments received 3/23/2022.
3. Drone survey completed for additional sidewalk design and files submitted to design team on 3/24/2022

Work in Progress, Deliverables, and Work activities planned for coming month:

1. Complete draft Study Report and submit for review.
2. Address 70% submittal comments and submit 95% Submittal documents.
3. Design the additional sidewalk and include in 95% Submittal.

Outstanding Issues:

1. None.

Exhibit A

SUPPLEMENTAL SCOPE OF WORK

Project Name: Bellaire Blvd. Right Turn Lanes@ SH 99

Project Number: 20313x

Existing Conditions

Bellaire Blvd is currently a 4-lane facility with curb and gutter and a raised median between the eastbound and westbound lanes. On the east side of SH 99 intersection there is an existing sidewalk along the eastbound lane from the SH 99 intersection east to Parkway Lake Court. Between Parkway Lake Court and Misty Morning Trace (approximately 450 ft) there is no sidewalk along the eastbound lane. Then at Misty Morning Trace the sidewalk continues along the eastbound lane for approximately 1,200 ft.

Proposed Conditions

Provide a 5 ft sidewalk for approximately 450 linear ft on the eastbound side of Bellaire Blvd from Parkway Lake Court to Misty Morning Trace intersection. The sidewalk width may be reduced to 4 ft in specific areas to avoid utilities behind the curb.

Assumptions:

- Project limits are defined as follows:
 - From Parkway Lake Court intersection to Misty Morning Trace intersection
- Survey will include only the eastbound lane from Parkway Lake Court to Misty Morning Trace; the full intersection at Misty Morning Trace will not be surveyed.
- No ROW acquisition will be required.
- No traffic signal equipment relocation is required.
- No utility relocation will be required.
- No drainage or detention calculations will be performed.
- Sidewalk profile to match existing curb profile providing drainage as required
- If a retaining wall is required, concrete block retaining wall will be utilized and no geotechnical investigation will be required.
- Modification of island at Misty Morning Trace will be required.
- Pedestrian pavement markings will be required on Misty Morning Trace only. No pavement markings will be provided on Bellaire Blvd.
- A TDLR review will be required.

Professional Services

Overall Scope:

The overall scope is to provide engineering services necessary for the construction of sidewalk along the eastbound lane of Bellaire Blvd from Parkway Lake Court

Exhibit A

intersection to Misty Morning Trace intersection. This Supplemental shall cover the Study, Design, and Bid Phases of this Supplemental as described below:

1. Study Phase:

A. General Scope:

The Study Report shall be revised to incorporate the addition of the sidewalk on the eastbound side of Bellaire Blvd from Parkway Lake Court to Misty Morning Trace intersection.

Design options will be provided and selected during this phase. The preparation of Study documents will be initiated based on the requirements outlined in the **Fort Bend County Engineering Design Manual**.

B. Supplemental Study Phase Meetings:

No Study Phase Meetings will be required.

C. Study Phase Deliverables:

The Study Phase Deliverables are to include the following:

- i. Revised PER report narrative based on the **Fort Bend County Engineering Design Manual**
- ii. 30% Drawings for sidewalk to include typical sections, and plan view sheets.

D. Study Phase Project Management

Provide General Project Management Services for the Supplemental Study Phase, including:

- i. Monthly progress reports and billings oversight
- ii. Sub-Consultant Management/Coordination

2. Design Phase:

A. General Scope:

The Design Phase will use the conceptual design developed during the Study Phase and will further develop the design to bring the design drawings to a bid ready level of detail based on the **Fort Bend County Engineering Design Manual**

B. Supplemental Deliverables:

- i. Revised Plan sheets, including
 - a. Index of sheets
 - b. Typical sections,
 - c. Project Layout sheet

Exhibit A

- d. Survey Control
- e. Sidewalk plan view (Note: no profile will be required)
- f. Signing & Striping plan
- g. Storm Water Pollution Prevention Plan (SWPPP)
- h. Standard drawings & details, as appropriate
- ii. Earthwork Quantities (Note: no cross sections will be required)
- iii. Cost estimate

C. Project Management

No significant changes to the original scope of services

D. TDLR Review

- The project will be registered with the Texas Department of Licensing and Regulations (TDLR) in accordance with the TDLR regulations including payment of registration fees.
- A complete set of construction documents will be submitted to the TDLR, or Registered Accessibility Specialist in accordance with the TDLR regulations, including payment of Plan Review fees.
- The payment of the final inspection fee will also be made by the Engineer.

E. Survey Services – KCI

Drone Photogrammetry – Utilizing a drone to fly over the area, an Ortho mosaic map will be produced as well as a DTM of the area. The flight will have to be only over the grass area since drones are not allowed to fly over moving cars. The mapping and DTM will be accurate to 0.1' horizontal and 0.2' vertical.

3. Bid Phase

No significant changes to the original scope of services

4. Construction Phase Services

No significant changes to the original scope of services

Sub-Consultant Services

Geotechnical Services – Paradigm Consultants, Inc.

No Changes to scope of Services

Survey Services – GeoSurv, Inc.

No Changes to scope of Services

Traffic Services – MBCO Engineering & Surveying

No Changes to scope of Services

"EXHIBIT C" - Compensation for Professional Services
Fort Bend County Engineering Department
2020 MOBILITY ENGINEERING AND SURVEYING - Bellaire Right Turn Lane @ SH 99
Project No. 20313x

Professional Services

Study Phase	\$ 1,650.00	
Design Phase	\$ 1,611.00	
TDLR Services	\$ 1,220.00	
		\$ 4,481.00

Survey Services

Drone Photogrammetry	\$ 3,543.00	
		\$ 3,543.00

TOTAL SERVICES	\$ 8,024.00
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