

STATE OF TEXAS                   §  
  §  
COUNTY OF FORT BEND       §

**AMENDMENT TO AGREEMENT FOR  
PROFESSIONAL ENGINEERING SERVICES**

**THIS AMENDMENT**, is made and entered into by and between Fort Bend County (hereinafter “County”), a body corporate and politic under the laws of the State of Texas, and TEDSI Infrastructure Group, (hereinafter “Contractor”), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on June 1, 2021, for improvements to Southbound SH 99 Frontage Road under 2020 Mobility Bond Project No. 20307, pursuant to SOQ 14-025, (hereinafter “Agreement”); and

WHEREAS, the parties desire to amend the Agreement for additional professional engineering services to be provided, increase the total Maximum Compensation under the Agreement for the completion of such additional services, and extend the Time for Performance under the Agreement.

**NOW, THEREFORE**, the parties do mutually agree as follows:

1. County shall pay Contractor an additional amount not to exceed two hundred eighty-eight thousand four hundred four and 25/100 dollars (\$288,404.25) to perform the additional Services, as described in Contractor’s Proposal dated July 18, 2024, and revised on October 15, 2024, attached hereto as Exhibit “A-1” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for all Services rendered is hereby increased to an amount not to exceed two million three hundred ninety-five thousand two hundred fifty-one and 89/100 dollars (\$2,395,251.89), authorized as follows:  
                                  \$2,106,847.64 under the Agreement; and  
                                  \$ 288,404.25 under this Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement and this Amendment exceed the Maximum Compensation without a written agreement executed by the parties.

4. The Time of Performance under the Agreement shall extend to end no later than December 31, 2027.
5. BY ACCEPTANCE OF AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

Except as provided herein, all terms and conditions of the Agreement shall remain unchanged.

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IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the date signed by the final party.

**FORT BEND COUNTY**

**TEDSI INFRASTRUCTURE GROUP**

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KP George, County Judge

  
Authorized Agent – Signature

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Date

Jules M. Morris, Jr., P.E.  
Authorized Agent – Printed Name

ATTEST:

Executive Vice President  
Title

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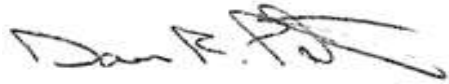
Laura Richard, County Clerk

12/20/2024  
Date

APPROVED:

  
J. Stacy Slawinski, P.E., County Engineer

APPROVED AS TO LEGAL FORM:



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Darius R. Porter  
Assistant County Attorney  
General Counsel Division

**AUDITOR'S CERTIFICATE**

I hereby certify that funds are available in the amount of \$\_\_\_\_\_ to accomplish and pay the obligation of Fort Bend County under this contract.

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Robert Ed Sturdivant, County Auditor

Attachment:

Exhibit A-1 – Contractor's Proposal – July 18, 2024 (Revised, October 15, 2024)

I:\AGREEMENTS\2025 Agreements\Engineering\TEDSI Infrastructure Group (21-Eng-100776-A1)\Amendment to Agreement for Professional Engineering Services -- TEDSI Infrastructure Group.docx. (DRP 12.19.24)

# EXHIBIT A-1

July 18, 2024  
Revised October 15, 2024



**TEDSI**  
TBPE F-1640

**TEDSI INFRASTRUCTURE GROUP**

*Consulting Engineers*

738 Highway 6 South ♦ Suite 430 ♦ Houston, Texas 77079

Tel: (832) 619-1000

Fax: (832) 619-1018

Mr. Kevin Mineo, P.E.  
Managing Director - Transportation  
Binkley and Barfield | DCCM  
1710 Seamist Drive  
Houston, Texas 77008

**Re: SH 99 Grand Parkway Southbound Frontage Road  
Project 20307 - Fry Road to Westheimer Parkway  
Contract Amendment #1**

Dear Mr. Mineo:

TEDSI Infrastructure Group (TEDSI) appreciates the opportunity to submit for your approval this supplemental fee proposal for the above referenced project. This proposed Contract Amendment #1 provides for the following additional items made necessary during design development:

1. **Structural Engineering Firm Replacement.** KCI, the replacement firm, provided a fee proposal that, after prudent negotiation and your acceptance, is still app. 19% higher than the originally contracted fee as provided by Sirrus.
2. **Off-Ramp Design Alternatives.** These include 1) Ramp Reversal, and 2) Exit Ramp Shift Northward.
3. **Redesign of Pedestrian Undercrossing at Buffalo Bayou.** Provide new horizontal location and vertical profile to accommodate mainlane bridge widening and new frontage road bridge structures.
4. **Frontage Road Retaining Walls.** Geotechnical Investigation and Design for 6 separate walls, all necessitated by a measurable rise in profile grade line due to hydraulic analysis results.
5. **Illumination Design.** for Exit Ramp and Pedestrian Undercrossing.
6. **Construction Phase Services.** This was not part of the original contract because this project was not originally funded for construction.

I have attached a fee proposal for this additional work (attached herein). This fee, along with the Contract Summary Rollup is shown below.

**Contract Summary**

Original Contract Amt:	\$2,106,847.64
Amendment #1	<u>\$288,404.25</u>
<b>New Contract Amt:</b>	<b>\$2,395,251.89</b>

Also, due to current project status with regards to the timeline, we also request that the existing contract termination date of December 31, 2025 be extended to December 31, 2027.

In the event of questions, please advise.

Sincerely,

TEDSI INFRASTRUCTURE GROUP

Jules M. (Jay) Morris, Jr., P.E.  
Executive Vice President

SH 99 GRAND PARKWAY SOUTHBOUND FRONTAGE RD  
WESTHEIMER PARKWAY TO FRY ROAD  
Contract Amendment #1

ATTACHMENT A  
July 2024

WORK ELEMENT	Engineering Fees 07/16/2024
<b>Advanced Planning/Preliminary Engineering</b>	
Schematic Design (TEDSI)	\$44,981.06
Environmental Study (TEDSI)	\$0.00
ROW Data	\$0.00
Surveying (TEDSI)	\$0.00
Management (TEDSI)	\$0.00
<b>Management &amp; Final PS&amp;E Engineering</b>	
Roadway Design (TEDSI)	\$13,413.56
Drainage Design / SWPPP (TEDSI)	\$0.00
Traffic - Signing & Pvmnt Markings / Signals (TEDSI)	\$0.00
Misc and TCP (TEDSI)	\$57,590.43
Bridge Design Coordination (TEDSI)	\$0.00
Management (TEDSI)	\$0.00
<b>Subs / Expenses</b>	
Geotechnical (Murillo)	\$31,280.00
Environmental (SWCA)	\$0.00
Survey (Weisser)	\$0.00
ROW Parcel Mapping (Weisser)	\$0.00
Subsurface Utility Mapping (Weisser)	\$0.00
Additional SUE Services (Weisser)	\$0.00
Bridge Design (KCI)	\$43,030.88
Direct Expenses (TEDSI)	\$0.00
<b>Bid/Construction Phase Services</b>	
Post Design Services (TEDSI)	\$98,108.32
<b>Total Management &amp; Engineering Fees</b>	<b>\$288,404.25</b>

Notes

## **SCOPE OF SERVICES**

### **SH 99 Grand Parkway South Bound Frontage Road**

#### **STRUCTURAL ENGINEERING SERVICES**

##### **GENERAL DESCRIPTION**

The work to be performed by the Engineer under this scope of work consists of providing Structural Bridge design for 2 specific water channel crossings within this project, those being Willow Fork and Little Prong. While these new bridges will compare favorably to the existing mainlane crossings at these 2 locations (rough measurements via Google Earth reflect an approximate 300ft and 200ft structure length respectively), the precise/exact bridge lengths will be dependent upon the hydraulics study and therefore remain undefined at this time.

##### **1. GENERAL REQUIREMENTS**

- A. Produce bridge design plans specifications and estimates (PS&E) and prepare construction bid documents.
- B. Furnish computer media and computer graphics files in compliance with the Prime Consultant (PC).
- C. Submit 30%, 60%, 90%, and final PS&E packages for review by the PC requirements and Program Management Consultant (PMC).
- D. Provide Project planning and control to include quality management.
- E. Provide an accurate, complete and constructible set of contract documents.

## **2. BRIDGE DESIGN**

### **Preliminary Design Phase**

- Prepare Bridge Conceptual Layout and Section
- Coordinate with Bridge Hydraulics Engineer to help determine span arrangement
- Coordinate with Roadway Engineer to develop bridge section
- Develop letter report with bridge recommendations
- Prepare Cost Estimate

### **Final Design Phase**

- Bridge Layout
- Bridge Typical Section
- Foundation Layout
- Boring Logs
- Abutment Plan, Elevation & Details
- Bent Plan, Elevation & Details
- Framing Plan
- Slab Plan
- Slab Details
- Beam Design
- Bearing Seat Elevations & Quantities
- Bridge Standards
- Prepare Cost Estimate
- Prepare Specifications

## **3. QUANTITY TAKE-OFFS AND QUANTITY SUMMARIES**

Quantities will be determined by the Engineer for the items. These quantities will be included on summary sheets. Quantity calculations should be organized and easily verified by the PC. Sample calculations should be prepared for each submittal for review by the PC. Calculations should be organized by item, clear and concise, and in an electronic format that can be transmitted via e-mail, if necessary.

## **4. CONSTRUCTION COST ESTIMATE**

An estimate of the construction costs will be prepared based on plan quantities in standard TxDOT bid format at the 60%, 90% and final submittal stages of the Project. More detailed and refined quantities will be updated for each successive submittal. All estimates will utilize Fort Bend and TxDOT's historical price data for similar projects.



## **5. PREPARATION AND SUBMITTAL OF PS&E**

- A. All submittals will follow the design requirements and provide so that the contract documents can be prepared into the milestone submittals as summarized below:
- 1) The 30% submittal shall include legible 11"x17" construction drawings in a Portable Document File (PDF) format.
  - 2) The 60% submittal shall include legible 11"x17" construction drawings in a PDF format. Also include, 30% submittal comments addressed, applicable standard drawings shown on the index of sheets, a listing of "Governing Specifications and Special Provisions" and a construction cost estimate.
  - 3) The 90% submittal shall include legible 11"x17" construction drawings in a PDF format. Also include all 60% submittal comments addressed, all applicable standard drawings shown on the index of sheets, a complete set of Engineer-prepared Special Specifications, Special Provisions and Reference Specifications, a listing of "Governing Specifications and Special Provisions", an edited "Bid Proposal Form" and a construction cost estimate as a PDF.
  - 4) The 100% review submittal shall include legible 11"x17" construction drawings in a PDF format. Also include all 90% submittal comments addressed, all applicable standard drawings shown on the index of sheets, a complete set of Engineer-prepared Special Specifications, Special Provisions and Reference Specifications, a listing of "Governing Specifications and Special Provisions", an edited "Bid Proposal Form" a construction cost estimate and a signed approval sheet. When requested provide one (1) set of 11" x 17" white mylars.

## **6. PROJECT MANAGEMENT**

The purpose of this task is to provide the overall management of this design contract. Project files will be set up and contact with PC will be maintained.

- A. Report and coordinate with PC on any design issues and requests for information.
- B. Prepare and submit monthly progress reports and invoices to PC for review and approval. The invoices will include the progress report, invoice, and the schedule – as described above. The progress report will list outstanding issues that need resolution, as well as progress of the tasks and estimated completion dates for the work.

- C. Internal administration of the Project files. At the completion of the work, the Project files will be shipped to the PC.
- D. Prepare an overall Project schedule, detailing the progression of the work incorporating information provided by other PTMs involved in this section. This schedule will include review dates by the PC and PMC, submittal dates for deliverables, and estimated time frame to complete the work. The schedule will be updated monthly and included in the progress report. Changes or adjustments in the schedule caused by delays due to unforeseen task difficulties or lengthy review times will be shown and reported to the PC.
- E. Attend coordination and interim progress review meetings once per month (or as necessary). Furnish to the PC any draft notes pertaining to the Structural Design.
- F. The Engineer will attend the Project “kick-off” meeting held by the PC.

**FEE SCHEDULE (KCI)**  
**METHOD OF PAYMENT: LUMP SUM**

PRIME PROVIDER NAME: TEDSI

CONTRACT NUMBER:

PROJECT NAME: SH99 Southbound Frontage Road

PROJECT LIMITS: Fry Road to Westheimer Parkway

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	DESIGN ENGINEER	SENIOR TECH	SENIOR CADD	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>PROJECT COORDINATION (FC 164)</b>									
PROJECT COORDINATION/MANAGEMENT	80	40				12	132		
<b>BRIDGE DESIGN (FC170)</b>									
<b>BRIDGE 1 (Willow Fork Crossing)</b>									
Bridge Layout (1 sheet)	2	16	56				74		
Typical Section (1 sheet)	2	14	24				40		
Foundation Layout (1 sheet)	2	14	24				40		
Boring Logs (2 sheets)	1	4	8				13		
Abutment Plan, Elevation & Details (3 sheets)	2	40	144				186		
Bent Plan, Elevation & Details (2 sheets)	2	40	120				162		
Framing plan (1 sheet)	2	16	32				50		
Slab Plan (1 sheet)	2	16	48				66		
Slab Details (1 sheet)	2	16	32				50		
Beam design (1 sheet)	2	16	32				50		
Bearing seat elevations & Quantities (1 sheet)	2	16	32				50		
<b>BRIDGE 2 (Little Prong Crossing)</b>									
Bridge Layout (1 Sheet)	2	16	56				74		
Typical Section (1 sheet)	2	14	24				40		
Foundation Layout (1 sheet)	2	14	24				40		
Boring Logs (2 sheets)	1	4	8				13		
Abutment Plan, Elevation & Details (3 sheets)	2	40	144				186		
Bent Plan, Elevation & Details (2 sheets)	2	40	120				162		
Framing plan (1 sheet)	2	16	32				50		
Slab Plan (1 sheet)	2	16	48				66		
Slab Details (1 sheet)	2	16	32				50		
Beam design (1 sheet)	2	16	32				50		
Bearing seat elevations & Quantities (1 sheet)	2	16	32				50		
Bridge Special Provisions and Specifications (each bridge)		16					16		
Standard Drawings		4	24				28		
HOURS SUB-TOTALS	122	476	1128	0	0	12	1738		
CONTRACT RATE PER HOUR	\$283.34	\$214.05	\$117.45		\$160.64	\$90.00			
TOTAL LABOR COSTS	\$34,567.48	\$101,887.80	\$132,483.60	\$0.00	\$0.00	\$1,080.00	\$270,018.88		
<b>SUBTOTAL (FC161)</b>							<b>\$270,018.88</b>		

OTHER DIRECT EXPENSES	QUANTITY	RATE	UNIT				
Mileage (# of miles) (0.58)			MI				\$0.00
Courier Services			EACH				\$0.00
Photocopies 8.5x11 (Report 2 copies for TxDOT and TEDSI, one for Willfork & FBCDD)			EACH				\$0.00
SUBTOTAL DIRECT EXPENSES							\$0.00

SUMMARY	
TOTAL LABOR EXPENSES (includes multiplier)	\$270,018.88
NON-SALARY (OTHER DIRECT EXPENSES)	\$0.00
GRAND TOTAL	\$270,018.88

**FEE SCHEDULE (TEDSI)**  
**METHOD OF PAYMENT: LUMP SUM**

PRIME PROVIDER NAME: TEDSI

CONTRACT NUMBER:

PROJECT NAME: SH99 Southbound Frontage Road

PROJECT LIMITS: Westheimer Parkway to Fry Road

Contract Amendment #1

**PART 1 - PRELIMINARY ENGINEERING**

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	EIT	CADD DESIGNER	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>ROUTE &amp; DESIGN STUDIES (FC 110)</b>									
DATA COLLECTION									0
DEVELOP BASE MAPS									0
ANALYZE EXISTING CONDITIONS									0
GEOTECHNICAL BORINGS AND INVESTIGATIONS	1	2	4	8					15
DESIGN CONCEPT CONFERENCE (FORM & MTG)									0
CONCEPTUAL DESIGN SCHEMATICS	2	4	4	4	16		24		54
GEOMETRIC DESIGN SCHEMATICS	4	4	8	24	24	0	24		88
TYPICAL SECTIONS	2	2	8		8	0	8		28
ENVIRONMENTAL CONSTRAINTS									0
DRAINAGE STUDY									0
DRAINAGE AREA MAPS									0
COMPUTE PEAK FLOWS									0
COMPUTE STORAGE VOLUMES									0
PREPARE HYDROGRAPHS									0
CONSTRUCTION COST ESTIMATES									0
MITIGATION STUDY REPORT									0
SCOUR ANALYSIS / REPORT									0
DITCH HYDRAULIC COMPUTATIONS									0
ROW REQUIREMENTS	2	2	4		4	4	8		24
TRAFFIC DATA COLLECTION									0
TRAFFIC STUDIES									0
BICYCLE AND PEDESTRIAN ACCOMODATIONS									0
CROSS SECTIONS									0
PRELIMINARY CONSTRUCTION SEQUENCE	2	4	4		4	8	0		22
PRELIMINARY COST ESTIMATE									0
ENGINEERING SUMMARY REPORT									0
PREPARE DELIVERABLES									0
DETERMINATION OF DESIGN EXCEPTIONS/WAIVERS									0
HOURS SUB-TOTALS	13	18	32	36	56	12	64	0	231
CONTRACT RATE PER HOUR	\$324.92	\$291.59	\$237.44	\$199.96	\$170.79	\$162.46	\$143.72	\$120.80	
TOTAL LABOR COSTS	\$4,223.96	\$5,248.62	\$7,598.08	\$7,198.56	\$9,564.24	\$1,949.52	\$9,198.08	\$0.00	\$44,981.06
<b>SUBTOTAL (FC 110)</b>									<b>\$44,981.06</b>

DESCRIPTION								TOTAL MH BY FC	TOTAL COSTS BY FC
ROUTE & DESIGN STUDIES (FC 110)								231	\$44,981.06
ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT (FC 120)								0	\$0.00
RIGHT OF WAY DATA (FC 130)								0	\$0.00
PROJECT MANAGEMENT (FC 145)								0	\$0.00
SURVEYING (FC 150)								0	\$0.00
SUBTOTAL LABOR EXPENSES								231	\$44,981.06
OTHER DIRECT EXPENSES	QUANTITY	RATE	UNIT						
Mileage (# of miles)		\$0.545	MI						\$0.00
Courier Services		\$30.00	EACH						\$0.00
Photocopies 8.5x11		\$0.10	EACH						\$0.00
Photocopies 11x17		\$0.25	EACH						\$0.00
Plot (Color on Bond)		\$3.50	SF						\$0.00
Mylars 11x17		\$4.00	SHEET						\$0.00
CD Archive		\$5.00	EACH						\$0.00
TRAFFIC COUNTS		\$650.00	EACH						\$0.00
SUBTOTAL DIRECT EXPENSES									\$0.00

SUBCONTRACTS:									
Murillo (Geotech)									\$31,280.00
SWCA (Environmental)									
Weisser Engineering (Exist ROW Mapping)									
Weisser Engineering (Topo Surveying)									
Weisser Engineering (SUE)									
Weisser Engineering (Additional Services)									
SUBCONTRACT SUB-TOTAL									\$31,280.00

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$44,981.06
NON-SALARY (OTHER DIRECT EXPENSES)	\$0.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$31,280.00
GRAND TOTAL - PRELIMINARY ENGINEERING	\$76,261.06

**FEE SCHEDULE (TEDSI)**  
**METHOD OF PAYMENT: LUMP SUM**

PRIME PROVIDER NAME: TEDSI

CONTRACT NUMBER:

PROJECT NAME: SH99 Southbound Frontage Road

PROJECT LIMITS: Westheimer Parkway to Fry Road

Contract Amendment #1

**PART 2 - PS&E SERVICES**

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	EIT	CADD DESIGNER	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>ROADWAY DESIGN CONTROLS (FC160)</b>									
BICYCLE AND PEDESTRIAN ACCOMODATIONS	2	4	4	4	24		40		78
HOURS SUB-TOTALS	2	4	4	4	24	0	40	0	78
CONTRACT RATE PER HOUR	\$324.92	\$291.59	\$237.44	\$199.96	\$170.79	\$162.46	\$143.72	\$120.80	
TOTAL LABOR COSTS	\$649.84	\$1,166.36	\$949.76	\$799.84	\$4,098.96	\$0.00	\$5,748.80	\$0.00	\$13,413.56
<b>SUBTOTAL (FC 160)</b>									<b>\$13,413.56</b>

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	EIT	CADD DESIGNER	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>MISCELLANEOUS (ROADWAY) (FC 163)</b>									
<b>RETAINING WALLS:</b>									
RETAINING WALL PLAN/PROFILE	2		4		16	24	40	1	87
RETAINING WALL DETAILS			1		1		2		4
RETAINING WALL SUMMARIES	1		2		2	2	2	1	10
RETAINING WALL STANDARDS					2		2		4
<b>ILLUMINATION:</b>									
SAFETY LIGHTING DESIGN	2	10				16			28
ILLUMINATION LAYOUTS	2	4	8		24	60	60		158
ILLUMINATION DETAILS		2	2		2	4	4		14
ILLUMINATION SUMMARIES		2	4		4	8	4		22
ILLUMINATION STANDARDS						4	4		8
HOURS SUB-TOTALS	7	18	21	0	51	118	118	2	335
CONTRACT RATE PER HOUR	\$324.92	\$291.59	\$237.44	\$199.96	\$170.79	\$162.46	\$143.72	\$120.80	
TOTAL LABOR COSTS	\$2,274.44	\$5,248.62	\$4,986.24	\$0.00	\$8,710.29	\$19,170.28	\$16,958.96	\$241.60	\$57,590.43
<b>SUBTOTAL (FC 163)</b>									<b>\$57,590.43</b>

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
CONSTRUCTION PHASE SERVICES (FC 309) - T&M									
ASSISTANCE AND SUPPORT DURING BIDDING	2	8	16						26
PRECONSTRUCTION MEETINGS	2	4							6
FIELD MEETINGS		12	24						36
BI-WEEKLY PROGRESS MEETINGS	24		24						48
SHOP DRAWING REVIEW	8	40	40						88
RESPOND TO RFIs	16	24	24						64
RESPOND TO GENERAL QUESTIONS	16	40							56
PROVIDE CLARIFICATIONS	8		24						32
HOURS SUB-TOTALS	76	128	152	0	0	0	0	0	356
CONTRACT RATE PER HOUR	\$324.92	\$291.59	\$237.44	\$199.96	\$170.79	\$162.46	\$143.72	\$120.80	
TOTAL LABOR COSTS	\$24,693.92	\$37,323.52	\$36,090.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$98,108.32
SUBTOTAL (FC 163)									\$98,108.32

DESCRIPTION								TOTAL MH BY FC	TOTAL COSTS BY FC
PROJECT MANAGEMENT (FC 164)								0	\$0.00
ROADWAY DESIGN CONTROLS (FC160)								78	\$13,413.56
DRAINAGE (FC161)								0	\$0.00
SIGNING, PVMT. MARKING, & SIGNAL (FC162)								0	\$0.00
MISCELLANEOUS (ROADWAY) (FC 163)								335	\$57,590.43
BRIDGE DESIGN (FC 170)								0	\$0.00
CONSTRUCTION PHASE SERVICES (FC 309) - T&M								356	\$98,108.32
SUBTOTAL LABOR EXPENSES								769	\$169,112.31

SUBCONTRACTS:									
Murillo (Geotech)									\$0.00
SWCA (Environmental)									\$0.00
Weisser Engineering (Surveying)									\$0.00
Additional cost to add KCI and replace Sirrus Engineering (Bridge Design)									\$43,030.88
SUBCONTRACT SUB-TOTAL									\$43,030.88

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$169,112.31
NON-SALARY (OTHER DIRECT EXPENSES)	\$0.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$43,030.88
GRAND TOTAL - PS&E SERVICES	\$212,143.19



## GEOTECHNICAL INVESTIGATION PROPOSAL

July 17, 2024

Mr. Jules M. (Jay) Morris, Jr., PE  
TEDSI Infrastructure Group  
738 Hwy 6 South, Suite 430  
Houston, Texas 77079

Re: **Geotechnical Investigation - Additional Work  
Fort Bend County 2020 Bond Program, Precinct 3  
State Highway 99 SB Frontage Road  
from Westheimer Parkway and Fry Road  
Fort Bend County, Texas  
TMC File GEO3652023**

**The Murillo Company (TMC)** is pleased to submit this proposal for additional work (not included in the original scope) to TEDSI Infrastructure Group. Existing soils sample data will be analyzed to provide the necessary design and construction data for six (6) new Retaining Walls.

### INTRODUCTION

Approximately 5,000 ± linear feet of paving and drainage improvements will be reconstructed along State Highway 99 (Grand Parkway) southbound Frontage Road in Fort Bend County, Texas. The specific project improvements are as follows:

Six (6) Retaining Walls will be used to separate the main lanes from the Frontage Road. **TMC** recommends six (6) piezometers be installed to a depth of thirty (30) feet along the Frontage Road. Water table data will be recorded at 24 hours, 48 hours, 7 days and 28 days.

### SCOPE OF WORK

The scope of work will be in general accordance with Texas Department of Transportation (TxDOT) requirements. The scope of our work will consist of conducting analysis of existing soil sample data to provide the necessary design and construction data for six (6) new Retaining Walls.

### LABORATORY TESTING

Laboratory tests will be performed on selected soil samples to evaluate soils design parameters for the proposed project. **TMC** will conduct additional detailed testing for slope stability analysis of the embankment Retaining Walls. These tests will consist of two (2) additional Consolidated Undrained (Cu) Triaxial Tests with pore pressure measurements.

All tests will be performed in general accordance with American Society of Testing Materials (ASTM) Procedures, and soils samples classified in general accordance to ASTM Standards.

### **ENGINEERING ANALYSIS AND REPORTING**

The field and laboratory data will be analyzed and presented in an engineering report. Design analysis and recommendations will include:

### **COST ESTIMATE**

Based on the additional scope of work outlined above, **TMC** estimates the cost for laboratory and engineering services based on the attached Fee Schedule to be as shown on the attached not to exceed amount Summary Cost Estimate.

Upon completion of the investigation, one (1) hard copy and one (1) digital copy (pdf format) of the draft and final report will be provided. Additional report copies will be provided at a separate charge.

### **REPORTS**

Our report will be submitted to the Client in a draft form for comments. Once these reviews are completed, a final report will be issued. The Client agrees that all reviews are complete once a notice for a final report is issued. Any changes to the final report will be outside the scope of our study. We will incorporate any future comments after the final report is issued on a time and materials basis per the applicable fee schedule.

We appreciate the opportunity to submit the proposal for Geotechnical Services to TEDSI Infrastructure Group. This investigation will be authorized upon the execution of Work Authorization pursuant to the terms and conditions of the Master Agreement between for TEDSI Infrastructure Group and The Murillo Company. We look forward to your acceptance of this proposal.

Very Truly Yours,



Donna Murillo  
Executive Vice President

Texas Board of Professional Engineers Registration No. F-2911

**SUMMARY COST ESTIMATE**

SH 99 South Bound Frontage Road from Westheimer Parkway and Fry Road

	Borings	Depth	Total Footage
Drilling	0	80	0
	0	30	0
			<u>0</u>

	Depth	Price	Footage	Cost
Drilling Cost	0 to 50	20	0	\$ -
	50 to 100	24	0	\$ -

	Days	Price	
Mob/Demob	0	500	\$ -

	Depth	Price	
Piezometer	0	24	\$ -

	Depth	Price	
Grouting	0	12	\$ -

	Depth	Price	
Plugging Piezometer	0	20	\$ -

	Hours	Price	
*Lab			\$ 7,200.00
Engineer	16	250	\$ 4,000.00
Project Manager	120	165	\$ 19,800.00
Admin	4	70	\$ 280.00

**\*\*Total Cost = \$ 31,280.00**

\* Lab includes Slope Stability, Embankment &amp; CU Triaxial

\*\* Not to Exceed