

PO 205572  
DMS  
REC 625963

AGENDA



3300 S. Gessner Rd.  
Suite 249  
Houston, Texas 77063  
T-713-706-4414  
F-713-706-4410

May 9, 2022

Mr. Stacy Slawinsky, P.E.  
Attn: Mr. Gabriel Odreman, P.E., PMP  
Project Manager - RPS/North America  
575 N. Dairy Ashford, Suite 700  
Houston, Texas 77079

Re: 2020 Mobility Bond Program, Fort Bend County  
Blueridge Road Widening from Rockergate Drive to South of McHard Road  
Bond No. 20205  
FCM Project No 2021062  
Period Ending: January 1, 2022 thru April 30, 2022  
**Invoice No. 2021062-2**

Dear Mr. Odreman:

We hereby submit our invoice for the above referenced project. The total amount due for this invoice is **Forty-Six Thousand Five Hundred Twenty-Two Dollars and Zero Cent (\$46,522.00)**. This amount is for professional services as per our contract.

Please feel free to call me if there are any questions.

Very truly yours,  
FCM Engineers, P.C.

Dr. Frank C, Mbachu, P.E. DEE  
President

FCM/mh  
Enclosure

Project Name: Blueridge Road Widening from Rockergate Drive to South of McHard Road								Date: May 9, 2022	
Bond No. 20205/FCM Project No: 2021062									
<b>Invoice Number: 2</b>									
Invoice Period: January 1, 2022 thru April 30, 2022									
Invoice Date: May 9, 2022									
<b>A) Basic Services</b>									
	Amount Authorized	NTP Date	Invoice No.	Invoice Amount	% Complete	Total to Date	Previously Invoiced	Amount Due	
1. Phase I Design Basic Services	\$ 46,990.00	11/4/2021	2	\$ 21,145.50	80.00%	\$ 37,592.00	\$ 16,446.50	\$ 21,145.50	
2. Phase II Design Basic Services	\$ 164,023.00	11/4/2021		\$ -	0.00%	\$ -	\$ -	\$ -	
3. Phase III Design Basic Services	\$ 33,886.00	11/4/2021		\$ -	0.00%	\$ -	\$ -	\$ -	
<b>Total Basic Services</b>	<b>\$ 244,899.00</b>			<b>\$ 21,145.50</b>	<b>15.35%</b>	<b>\$ 37,592.00</b>	<b>\$ 16,446.50</b>	<b>\$ 21,145.50</b>	
<b>B) Additional Services</b>									
	Amount Authorized	NTP Date	Invoice No.	Invoice Amount	% Complete	Total to Date	Previously Invoiced	Amount Due	
1. Surveying - ISD Engineering Group	\$ 53,900.00	11/4/2021	2	\$ 18,865.00	56.00%	\$ 30,184.00	\$ 18,865.00	\$ 11,319.00	
2. Geotechnical Investigations - Geotech Engineering & Testing (GET)	\$ 31,602.00	11/4/2021	2	\$ 16,424.50	96.46%	\$ 30,482.00	\$ 16,424.50	\$ 14,057.50	
3. Detention Pond Design	\$ 14,580.00	11/4/2021		\$ -	0.00%	\$ -	\$ -	\$ -	
<b>Total Additional Services</b>	<b>\$ 100,082.00</b>			<b>\$ 35,289.50</b>	<b>60.62%</b>	<b>\$ 60,666.00</b>		<b>\$ 25,376.50</b>	
<b>Total A &amp; B Services</b>	<b>\$344,981.00</b>			<b>\$ 56,435.00</b>	<b>28.48%</b>	<b>\$ 98,258.00</b>		<b>\$ 46,522.00</b>	
<b>TOTAL DUE FOR INVOICE NO.2</b>								<b>\$ 46,522.00</b>	



3300 S. Gessner Road  
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**Blueridge Road Rehabilitation from Rockergate Drive to S. McHard: Project No. 20205**

**PROJECT STATUS REPORT No. 2, 05/9/2022**

A. Services Performed in the Proceeding Month

IDS has submitted the survey information but still lacking some necessary information that is required to start Phase II design. GET has completed and submitted the geotechnical investigation report for Blueridge Road widening. The final report will be completed after the comments are received and addressed. FCM is completing the PER report to be submitted in the first week of May 2022.

B. List of Planned Activities for the following Month

The following activities are planned to be accomplished in May 2022.

- 1.) Receive comments from For Bend County and other reviewers
- 2.) Revise the PER based review comments
- 3.) Coordinate with surveyor to finalize topographic survey.



# GEOTECH ENGINEERING and TESTING

Geotechnical, Environmental, Construction Materials, and Forensic Engineering



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

**PARTIAL INVOICE**  
(12-30-21 through 01-31-22)

Please show invoice number on your remittance

**By E-Mail and Regular Mail**

**TO:** FCM Engineers, PC  
3300 S. Gessner Road, Suite 249  
Houston, Texas 77063

**INVOICE DATE:** 02-25-22

**INVOICE NO:** 33241

**ATTENTION:** Dr. Frank C. Mbachu, P.E., DEE  
President

**FORT BEND COUNTY PROJECT NO:** 20205

**GET PROJECT NO:** 21-557E

**PROJECT:** Desktop Geologic Fault Study and Geotechnical Study of Blueridge Widening Between Rockergate Drive and South of McHard Road  
Paving and Drainage Improvement  
Fort Bend County, Texas  
**PHONE #:** (713) 706-4414  
**EMAIL:** fmbachu@fcm-engineers.com

**PROJECT ENGINEER:** Mason Derakhshandi, Ph.D.

**AUTHORIZATION:** This study was authorized by Dr. Frank C. Mbachu, P.E., DEE on November 11, 2021

**BILLING STATUS**

Authorized Total Project Budget: \$ 31,602.00

GET Project No.	Invoice No.	Date	Authorized Project Budget	Amount for This Invoice	Percent of Authorized Project Budget to Date	Remaining Budget to Date
21-557E	33098	12/30/21	\$ 31,602.00	\$ 16,424.50	51.97%	\$ 15,177.50
21-557E	33241	02/25/22	\$ 31,602.00	\$ 14,057.50	96.46%	\$ 1,120.00

**AMOUNT DUE FOR THIS INVOICE: \$ 14,057.50**

<u>SERVICE</u>	<u>UNIT FEE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>	<u>TOTAL</u>
<b>Geotechnical Study</b> (Total Project Budget: \$ 31,602.00) Includes: Engineering Analysis and Draft Report				
(96.46% of Total Project Budget)				\$ <u>14,057.50</u>
<b>Total Due</b>				\$ <u>14,057.50</u>

**REMIT TO:** DAE & ASSOCIATES, LTD.  
dba GEOTECH ENGINEERING AND TESTING  
17407 US Highway 59  
HOUSTON, TEXAS 77396  
(713) 699-4000

**Conditions:** Invoice is due on presentation.

Distribution: DAE, Accounting (hard copy), Job Binder

CC: FCM Engineers, PC – Dr. Frank C. Mbachu, P.E., DEE

**Estimated Cost Summary (Detailed)**  
**Desktop Geologic Fault Study and Geotechnical Study**  
**Blueridge Road Paving and Drainage Improvements**  
**Fort Bend County, Texas**

P21-168

**Consultant Proposal Breakdown**

GEOTECH ENGINEERING AND TESTING		Principal Engineer	Senior Engineer	Graduate Engineer	Field Technician	Typing/ Drafting	Unit of Measure	Estimated Quantity	Rate	Subtotal (Cost \$)	Previously Used	Used	
Date: February 25, 2022													
<b>PER HARRIS COUNTY FEE SCHEDULE</b>		\$250.00	\$205.00	\$115.00	\$55.00	\$70.00							
<b>Task No. Task Description</b>		<b>* LEVEL OF EFFORT</b>											
<b>Desktop Geologic Fault Study</b>													
1	Review of Existing Published Fault Maps by Staff Engineer			4						\$460.00	\$0.00	\$460.00	
2	Reporting		0.5	1						\$217.50	\$0.00	\$217.50	
										<b>Total:</b>	<b>\$677.50</b>	<b>\$0.00</b>	<b>\$677.50</b>
<b>Project Initiation upon Receiving NTP</b>													
3	Review of the scope of the work	1	2	2						\$890.00	\$890.00		
4	Coordinate with Client, in obtaining the updated information of the project			1						\$115.00	\$115.00		
<b>Paving and Roadside Ditch along project alignment, 11 Borings</b>													
<b>Field Investigation</b>													
5	Develop a Drilling Plan			1						\$115.00	\$115.00		
6	Staking the Eleven (11) Borings in the Field			7						\$805.00	\$805.00		
7	Coordinate with Surveyors to Locate & Tie in Borings at Site			1						\$115.00	\$115.00		
8	Field Coordination during Drilling Including Utility Clearance, Texas One Call, and/or obtain drilling permission			8						\$920.00	\$920.00		
9	Mobilization / Demobilization						LS	1	\$700.00	\$700.00	\$700.00		
10	Drilling and Sampling Eleven (11) Borings												
11	Continuous (0' - 20')						LF	110	\$25.00	\$2,750.00	\$2,750.00		
12	Daily Travel						EA	1	\$500.00	\$500.00	\$500.00		
13	Borehole Grouting						FT	110	\$12.00	\$1,320.00	\$1,320.00		
14	Technician, Logging Borings, Borehole cleaning and Water Level Reading				30					\$1,650.00	\$1,650.00		
15	Vehicle Charge (Boring staking, site visits during field coordination during drilling including utility clearance, Texas One Call etc., and borehole logging and grouting)						HR	43	\$12.00	\$516.00	\$516.00		
										<b>Subtotal</b>	<b>\$10,396.00</b>	<b>\$10,396.00</b>	<b>\$0.00</b>
<b>Laboratory Testing</b>													
16	Assign Laboratory Tests, Looking at Soil Samples			4						\$460.00	\$460.00		
17	Data Reduction and Evaluation			1						\$115.00	\$115.00		
18	Water Content (all samples)						EA	55	\$11.00	\$605.00	\$605.00		
19	Liquid and Plastic Limits						EA	16	\$71.00	\$1,136.00	\$1,136.00		
20	Percent Passing #200 Sieve						EA	11	\$55.00	\$605.00	\$605.00		
21	Torvane						EA	55	\$3.00	\$165.00	\$165.00		
22	Hand Penetrometer						EA	55	\$4.00	\$220.00	\$220.00		
23	Unconfined Compression						EA	11	\$51.00	\$561.00	\$561.00		
										<b>Subtotal</b>	<b>\$3,867.00</b>	<b>\$3,867.00</b>	<b>\$0.00</b>
Plate 3													

**Estimated Cost Summary (Detailed)**  
**Desktop Geologic Fault Study and Geotechnical Study**  
**Blueridge Road Paving and Drainage Improvements**  
**Fort Bend County, Texas**

P21-168

**Consultant Proposal Breakdown**

GEOTECH ENGINEERING AND TESTING		Principal Engineer	Senior Engineer	Graduate Engineer	Field Technician	Typing/Drafting	Unit of Measure	Estimated Quantity	Rate	Subtotal (Cost \$)	Previously Used	Used	
Date: February 25, 2022													
<b>PER HARRIS COUNTY FEE SCHEDULE</b>		\$250.00	\$205.00	\$115.00	\$55.00	\$70.00							
<b>Task No. Task Description</b>		<b>* LEVEL OF EFFORT</b>											
<b>Engineering Analysis and Report</b>													
24	Prepare Plan of Borings			1						\$115.00	\$0.00	\$115.00	
25	Analyze field and laboratory test results			2						\$230.00	\$0.00	\$230.00	
26	Prepare summary of laboratory test data			1						\$115.00	\$0.00	\$115.00	
27	Edit and prepare final boring log profiles			11						\$1,265.00	\$0.00	\$1,265.00	
28	Prepare and develop boring log profiles			1						\$115.00	\$0.00	\$115.00	
29	Develop asphalt pavement design based on traffic loading	0.5	2	6						\$1,225.00	\$0.00	\$1,225.00	
29	Recommendations on ditch side slopes		1	5						\$780.00	\$0.00	\$780.00	
30	Recommendations on erosion protection		1	5						\$780.00	\$0.00	\$780.00	
31	OSHA soil classification for the trench safety and Trench Safety		3	6						\$1,305.00	\$0.00	\$1,305.00	
32	Document the results of soil exploration, laboratory testing and geotechnical recommendations in a geotechnical draft report	4	10	32						\$6,730.00	\$0.00	\$6,730.00	
33	Incorporate the review comments	1	2	4						\$1,120.00	\$0.00	\$0.00	
34	Technical Typing/Drafting					6				\$420.00	\$0.00	\$420.00	
35	Report Reproduction Allowance									\$300.00	\$0.00	\$300.00	
										<b>Subtotal</b>	<b>\$14,500.00</b>	<b>\$0.00</b>	<b>\$13,380.00</b>
										<b>Total:</b>	<b>\$28,763.00</b>	<b>\$14,263.00</b>	<b>\$13,380.00</b>
<b>ALLOWANCE ITEMS</b>													
<b>Traffic Coordination/Allowance</b>													
36	Traffic Control (cost + 10%)					DAY	3		\$720.50	\$2,161.50	\$2,161.50	\$0.00	
										<b>Total</b>	<b>\$2,161.50</b>	<b>\$2,161.50</b>	<b>\$0.00</b>
Plate 4										<b>Grand Total:</b>	<b>\$31,602.00</b>	<b>\$16,424.50</b>	<b>\$14,057.50</b>



13430 Northwest Freeway, Suite 700, Houston, Texas 77040  
TxEng Firm 2726 | TxSurv Firm 10110700  
t 713.462.3178 | idseg.com

January 26, 2022  
Project No: 239600151  
Invoice No: 2396-001-51-530-2

FCM Engineers, PC  
Frank C. Mbachu, P.E.  
3300 S. Gessner Rd., Suite 249  
Houston, Texas 77063

Blueridge Road Widening  
Professional Services from December 26, 2021 to January 25, 2022

	Proposed Fee	% Complete	Total Amt Complete	Previously Invoiced	This Invoice
Surveying Services	53,900.00	43%	23,177.00	18,865.00	4,312.00

**Total this Invoice** \$4,312.00



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TxEng Firm 2726 | TxSurv Firm 10110700  
t 713.462.3178 | idseg.com

February 26, 2022  
Project No: 239600151  
Invoice No: 2396-001-51-530-3

FCM Engineers, PC  
Frank C. Mbachu, P.E.  
3300 S. Gessner Rd., Suite 249  
Houston, Texas 77063

Blueridge Road Widening  
Professional Services from January 26, 2022 to February 25, 2022

	Proposed Fee	% Complete	Total Amt Complete	Previously Invoiced	This Invoice
Surveying Services	53,900.00	46%	24,794.00	23,177.00	1,617.00

**Total this Invoice** \$1,617.00



13430 Northwest Freeway, Suite 700, Houston, Texas 77040  
TxEng Firm 2726 | TxSurv Firm 10110700  
t 713.462.3178 | ldseg.com

March 26, 2022  
Project No: 239600151  
Invoice No: 2396-001-51-530-4

FCM Engineers, PC  
Frank C. Mbachu, P.E.  
3300 S. Gessner Rd., Suite 249  
Houston, Texas 77063

Blueridge Road Widening  
Professional Services from February 26, 2022 to March 25, 2022

	Proposed Fee	% Complete	Total Amt Complete	Previously Invoiced	This Invoice
Surveying Services	53,900.00	52%	28,028.00	24,794.00	3,234.00

**Total this Invoice** \$3,234.00



13430 Northwest Freeway, Suite 700, Houston, Texas 77040  
TxEng Firm 2726 | TxSurv Firm 10110700  
t 713.462.3178 | idseg.com

April 26, 2022  
Project No: 239600151  
Invoice No: 2396-001-51-530-5

FCM Engineers, PC  
Frank C. Mbachu, P.E.  
3300 S. Gessner Rd., Suite 249  
Houston, Texas 77063

Blueridge Road Widening  
Professional Services from March 26, 2022 to April 25, 2022

	Proposed Fee	% Complete	Total Amt Complete	Previously Invoiced	This Invoice
Surveying Services	53,900.00	56%	30,184.00	28,028.00	2,156.00

**Total this Invoice** \$2,156.00