

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 Gannett Fleming, Inc., (hereinafter “Consultant”), a company authorized to conduct business in the State of Texas.

WHEREAS, the County and Dannebaum Engineering Corporation executed and accepted that certain Agreement for Professional Engineering Services on October 25, 2022, for improvements to the SH99 Frontage Road (Northbound) under Project No. 20320x of the Fort Bend County Mobility Program, pursuant to SOQ 14-025, (hereinafter “Agreement”); and

WHEREAS, consent to assignment of the Agreement to Consultant was executed on September 24, 2024; and

WHEREAS, the parties desire to amend the Agreement to allow Consultant to provide additional Services under the Agreement and to increase the maximum compensation amount.

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

1. County shall pay Consultant an additional amount not to exceed Three Hundred Twenty-Five Thousand Two Hundred Ninety-Three and 24/100 Dollars (\$325,293.24) to perform the additional Services, as described in Consultant’s Proposal dated September 17, 2024, attached hereto as Exhibit “A-1” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Consultant for all Services rendered is hereby increased to an amount not to exceed One Million Eight Hundred Fifty-Five Thousand Two Hundred Thirteen 24/100 Dollars (\$1,855,213.24), authorized as follows:  

\$1,529,920.00 under the Agreement; and  
\$ 325,293.24 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. BY ACCEPTANCE OF AGREEMENT, CONSULTANT 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.

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**

\_\_\_\_\_  
KP George, County Judge

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Laura Richard, County Clerk

APPROVED: \_\_\_\_\_

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

APPROVED AS TO LEGAL FORM:

\_\_\_\_\_  
Darius R. Porter,  
Assistant County Attorney  
General Counsel Division

**GANNETT FLEMING, INC.**

\_\_\_\_\_  
Authorized Agent – Signature

\_\_\_\_\_  
Authorized Agent – Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

## 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.

\_\_\_\_\_  
Robert Ed Sturdivant, County Auditor

### Attachment:

Exhibit A-1 – Consultant's Proposal – September 17, 2024

I:\AGREEMENTS\2025 Agreements\Engineering\Gannett Fleming, Inc. (23-Eng-100191-A1)\Amendment to Agreement for Professional Engineering Services -- Gannett Fleming, Inc..docx. (DRP 12.26.24)

# EXHIBIT A-1



3100 West Alabama  
Houston, TX 77098  
P 713.520.9570

[gannettfleming.com](http://gannettfleming.com)

September 17, 2024

Mr. Stacy Slawinski, P.E.  
Fort Bend County Engineer  
301 Jackson Street, 4<sup>th</sup> Floor  
Richmond, Texas 77469

**SUBJECT: SH 99 Grand Parkway Northbound Frontage Road  
from Fry Road to Westheimer Parkway**  
Supplemental Scope and Fee Proposal for Design Services

Dear Mr. Slawinski:

Gannett Fleming (GF) is pleased to submit for your approval the supplemental scope and fee proposal for the SH 99 Grand Parkway Northbound Frontage Road (NBFR) Project from north of Fry Road to south of Westheimer Parkway.

This supplemental proposal covers additional effort to address design modifications as directed by Fort Bend County and TxDOT. The primary design changes, as further described in Attachment B Additional Scope of Services, are as follows:

- 1) Hydraulic modeling of SBFR bridge crossings over Buffalo Bayou & Little Prong Creek
- 2) Hydrologic analysis of Sidepath along NBFR
- 3) Adjustment of Existing Exit Ramp south of Westheimer Parkway
- 4) Design of Bike Trail lowering under NBFR
- 5) Design of MSE Retaining Walls at Bridge Approaches
- 6) Design of Illumination and ITS affected by Frontage Road and Exit Ramp
- 7) Topo Survey of extended project limits
- 8) Additional Geotechnical Testing
- 9) Coordination of 30%, 60%, and 90% combined Utility meetings for all Frontage Roads.

Attached you will find our Supplemental Fee Proposal (Attachment A) and Additional Scope of Services (Attachment B) for the Project. We ask for your approval and execution of this contract as supported by the attached documents.

GF appreciates the opportunity to provide you with our services. If I can be of any assistance or answer any additional questions, please feel free to contact me at (713) 527-6420 or at NBokaie@gfnet.com. We look forward to working with you on this important Fort Bend County project.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Nick Bokaie", written over a blue circular stamp.

Nick Bokaie, P.E.  
Vice President, Houston Roadway  
Gannett Fleming

Attachments

ATTACHMENT A  
SUPPLEMENTAL NO. 1

**PROJECT NAME:** SH99 Grand Parkway Northbound Frontage Road  
**PROJECT LIMITS:** North of Fry Road to South of Westheimer Parkway

**AUGUST 2024**

WORK ELEMENT	Engineering Fees
<b>Advanced Planning/Preliminary Engineering (Part 1)</b>	
Schematic Design (DEC)	\$ -
Environmental/NEPA (SWCA)	\$ -
Drainage Impact Report (Gauge)	\$ 86,906.00
Management (DEC)	\$ -
<b>Final PS&amp;E Engineering (Part 2)</b>	
Roadway & Misc Design (DEC)	\$ 64,018.54
Drainage & SW3P Design (DEC)	\$ -
Bridge Design (DEC)	\$ -
Traffic - Signing & Pavement Marking, Illumination, and ITS (iGET)	\$ 59,241.50
TCP (HJ Consulting)	\$ 6,460.00
Management (DEC)	\$ 10,695.76
<b>Extras</b>	
Survey (Weisser)	\$ 13,640.00
ROW Parcel Mapping (Weisser)	\$ -
Geotechnical (Earth Engineering)	\$ 1,300.00
Utility Coordination (DEC)	\$ 83,031.44
Direct Expenses	\$ -
<b>Bid/Construction Phase Services</b>	
Post Design Services (DEC)	\$ -
<b>Total Management &amp; Engineering Fees</b>	<b>\$ 325,293.24</b>

**ATTACHMENT A - PART 2 PS&E  
FEE SCHEDULE (DEC)  
METHOD OF PAYMENT: LUMP SUM**

**PRIME PROVIDER NAME:** DEC  
**CONTRACT NUMBER:**  
**PROJECT NAME:** SH99 Grand Parkway Northbound Frontage Road  
**PROJECT LIMITS:** North of Fry Road to South of Westheimer Parkway

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>RIGHT OF WAY DATA (FC 130)</b>										
COORDINATE 30%/60%/90% UTILITY COORDINATION MEETINGS	36	40	60				16	152	N/A	N/A
UTILITY ADJUSTMENT COORDINATION (20 ENTITIES)	80		160				80	320	N/A	N/A
								0	N/A	N/A
HOURS SUB-TOTALS	116	40	220	0	0	0	96	472		
CONTRACT RATE PER HOUR	\$247.30	\$200.93	\$170.02	\$154.56	\$123.65	\$108.19	\$92.74			
TOTAL LABOR COSTS	\$28,686.80	\$8,037.20	\$37,404.40	\$0.00	\$0.00	\$0.00	\$8,903.04	\$83,031.44		
<b>SUBTOTAL (FC150)</b>								<b>\$83,031.44</b>		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>PROJECT MANAGEMENT (FC 145)</b>										
COORDINATION W/ SUBCONSULTANTS	16		20					36	N/A	N/A
COORDINATION WITH COUNTY AND TXDOT	8		8					16	N/A	N/A
								0	N/A	N/A
HOURS SUB-TOTALS	24	0	28	0	0	0	0	52		
CONTRACT RATE PER HOUR	\$247.30	\$200.93	\$170.02	\$154.56	\$123.65	\$108.19	\$92.74			
TOTAL LABOR COSTS	\$5,935.20	\$0.00	\$4,760.56	\$0.00	\$0.00	\$0.00	\$0.00	\$10,695.76		
<b>SUBTOTAL (FC150)</b>								<b>\$10,695.76</b>		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>ROADWAY DESIGN CONTROLS (FC160)</b>										
HORIZONTAL ALIGNMENT DATA SHEETS		1	2	4		8		15	1	15.0
PROPOSED TYPICAL SECTIONS		1	2	4		16		23	1	23.0
ROADWAY PLAN AND PROFILE (SCALE: H 1"=100' V 1"=10')		1	2	4		12		19	2	9.5
RAMP PLAN AND PROFILE (SCALE: H 1"=100' V 1"=10')		2	4	8		16		30	1	30.0
BIKE TRAIL PLAN AND PROFILE (SCALE: H 1"=50' V 1"=10')		8	4	16		32		60	2	30.0
EARTHWORK CROSS SECTIONS		2	8	16		24		50	10	5.0
BIKE TRAIL CROSS SECTIONS		2	12	24		8		46	2	23.0
SUMMARY OF ROADWAY QUANTITY SHEETS (ALSO ADD BIKE TRAIL)		2	2	8		8		20	1	20.0
SUMMARY OF REMOVAL QUANTITY SHEETS		1	2	2		2		7	1	7.0
HOURS SUB-TOTALS	0	20	38	86	0	126	0	270	21	
CONTRACT RATE PER HOUR	\$247.30	\$200.93	\$170.02	\$154.56	\$123.65	\$108.19	\$92.74			
TOTAL LABOR COSTS	\$0.00	\$4,018.60	\$6,460.76	\$13,292.16	\$0.00	\$13,631.94	\$0.00	\$37,403.46		
<b>SUBTOTAL (FC 160)</b>								<b>\$37,403.46</b>		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MISCELLANEOUS (ROADWAY) (FC 163)										
RETAINING WALL LAYOUTS	2	24	2	20		100		148	4	37.0
RETAINING WALL STANDARDS	1	2	2	8		12		25	10	2.5
SUMMARY OF RETAINING WALL QUANTITY SHEETS	1	2	2	8		12		25	1	25.0
HOURS SUB-TOTALS	4	28	6	36	0	124	0	198	15	
CONTRACT RATE PER HOUR	\$247.30	\$200.93	\$170.02	\$154.56	\$123.65	\$108.19	\$92.74			
TOTAL LABOR COSTS	\$989.20	\$5,626.04	\$1,020.12	\$5,564.16	\$0.00	\$13,415.56	\$0.00	\$26,615.08		
SUBTOTAL (FC 163)								\$26,615.08		

DESCRIPTION							TOTAL MH BY FC	TOTAL COSTS BY FC
SUMMARY								
RIGHT OF WAY DATA (FC 130)							472	\$83,031.44
ROADWAY DESIGN CONTROLS (FC160)							52	\$10,695.76
DRAINAGE (FC161)							270	\$37,403.46
SIGNING, PVMT. MARKING, & SIGNAL (FC162)							0	\$0.00
MISCELLANEOUS (ROADWAY) (FC 163)							0	\$0.00
BRIDGE DESIGN (FC 170)							198	\$26,615.08
CONSTRUCTION PHASE SERVICES (FC 309) - T&M							0	\$0.00
SUBTOTAL LABOR EXPENSES							468	\$157,745.74
OTHER DIRECT EXPENSES	QUANTITY	RATE	UNIT					
Mileage (# of miles) (current IRS rate)		\$current IRS rate	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
ZIP DRIVE Archive		\$5.00	EACH					\$0.00
SUBTOTAL DIRECT EXPENSES								\$0.00

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$157,745.74
NON-SALARY (OTHER DIRECT EXPENSES)	\$0.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$0.00
GRAND TOTAL	\$157,745.74



SH99 NORTHBOUND FRONTAGE ROAD NBFR FROM FRY ROAD TO WESTHEIMER PARKWAY FBC PROJECT# 20XXXX ADDITIONAL LEVEL OF EFFORT FOR <u>TRAFFIC CONTROL PLAN SERVICES</u> , DECEMBER 2023										
Employee Classification		Principal	Project Manager	QA/QC Engineer	Project Engineer	Graduate Engineer	CAD Technician	Admin	Subtotal Hours	Total
Labor Rate Per Hour		\$325.00	\$275.00	\$225.00	\$175.00	\$135.00	\$105.00	\$95.00		
TASK	TASK DESCRIPTION	ESTIMATED HOURS								
TRAFFIC CONTROL PLAN SERVICES										
1	Preliminary Engineering									
1.1	Traffic Control & Construction Phasing Layout								0	\$ 0.00
1.2	Preliminary Traffic Control Planning								0	\$ 0.00
2	Final PS&E									
2.1	TCP Notes									
2.2	Overall Phasing Layout								0	\$ 0.00
2.3	Advance Signing Layout								0	\$ 0.00
2.4	TCP Phase 1								0	\$ 0.00
2.5	TCP Phase 2								0	\$ 0.00
2.6	TCP Phase 3		4	2	8	12	18		44	\$ 6,460.00
2.7	TCP Typical Sections								0	\$ 0.00
2.8	TCP Details									
2.9	TCP Standards								0	\$ 0.00
2.10	Summary Sheets for TCP Quantities								0	\$ 0.00
2.11	Compute & Tabulate Quantities								0	\$ 0.00
SUBTOTAL			4	2	8	12	18		44	\$ 6,460.00
TOTAL HOURS			4	2	8	12	18		44	
TOTAL ESTIMATE			\$1,100	\$450	\$1,400	\$1,620	\$1,890			\$ 6,460.00

**ATTACHMENT A**  
**FEE SCHEDULE (iGET)**  
**METHOD OF PAYMENT: LUMP SUM**

**PRIME PROVIDER NAME:** DEC  
**CONTRACT NUMBER:**  
**PROJECT NAME:** SH99 Northbound Frontage Road  
**PROJECT LIMITS:** Fry Road to Westheimer Parkway

TASK DESCRIPTION	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>SIGNING, PVMT. MARKING, &amp; SIGNAL (FC162)</b>											
SIGNING LAYOUTS	4		12				60	4	80	4	20
PAVEMENT MARKING LAYOUTS (SCALE 1"=100')	4		12				60	4	80	4	20
PAVEMENT MARKING DETAILS	4		8				24	4	40	10	4
PAVEMENT MARKING SUMMARY	4		8				24	4	40	2	20
ROADWAY LIGHTING DESIGN	4		16				40	2	62	2	31
ITS - Traffic	8		24				60	8	100	4	25
HOURS SUB-TOTALS	28	0	80	0	0	0	268	26	402	20	
CONTRACT RATE PER HOUR	\$180.00		\$125.00				\$69.75	\$74.25			
TOTAL LABOR COSTS	\$5,040.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$18,693.00	\$1,930.50	\$35,663.50		
<b>SUBTOTAL (FC 162)</b>									<b>\$35,663.50</b>		

TASK DESCRIPTION	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>MISCELLANEOUS (ROADWAY) (FC 163)</b>											
CONSTRUCTION COST ESTIMATE (30, 60, 90 & FINAL)	8		40				16	1	65		
GENERAL NOTES, SPECIFICATIONS AND PROVISIONS	8		40				16	1	65		
HOURS SUB-TOTALS	16	0	80	0	0	0	32	2	130	0	
CONTRACT RATE PER HOUR	\$180.00		\$125.00				\$69.75	\$74.25			
TOTAL LABOR COSTS	\$2,880.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$2,232.00	\$148.50	\$15,260.50		
<b>SUBTOTAL (FC 163)</b>									<b>\$15,260.50</b>		

TASK DESCRIPTION	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	SENIOR ENGINEER TECH	ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
<b>MANAGING CONTRACTED PER SERVICES &amp; SURVEY CONTRACTS (FC 164)</b>											
MONTHLY PROGRESS MEETINGS (12 ESTIMATED)	12		12				12		36	N/A	N/A
COORDINATION WITH CORRIDOR PM, ENGINEERS, ETC.	12		12				12		36	N/A	N/A
HOURS SUB-TOTALS	24	0	24	0	0	0	24	0	72		
CONTRACT RATE PER HOUR	\$150.00		\$120.00				\$50.00	\$30.00			
TOTAL LABOR COSTS	\$3,600.00	\$0.00	\$2,880.00	\$0.00	\$0.00	\$0.00	\$1,200.00	\$0.00	\$7,680.00		
<b>SUBTOTAL (FC 164)</b>									<b>\$7,680.00</b>		

DESCRIPTION								TOTAL MH BY FC	TOTAL COSTS BY FC
SIGNING, PVMT. MARKING, & SIGNAL (FC162)								402	\$35,663.50
MISCELLANEOUS (ROADWAY) (FC 163)								130	\$15,260.50
MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)								72	\$7,680.00
SUBTOTAL LABOR EXPENSES								604	\$58,604.00
OTHER DIRECT EXPENSES	QUANTITY	RATE	UNIT						
Mileage (# of miles) (current IRS rate)	400	current IRS rate	MI						\$268.00
Courier Services	9	\$30.00	EACH						\$270.00
Photocopies 8.5x11	170	\$0.10	EACH						\$17.00
Photocopies 11x17	250	\$0.25	EACH						\$62.50
Plot (Color on Bond)	0	\$3.50	SF						\$0.00
Mylars 11x17	0	\$4.00	SHEET						\$0.00
CD Archive	4	\$5.00	EACH						\$20.00
SUBTOTAL DIRECT EXPENSES									\$637.50

SUBCONTRACTS:									
SUBCONTRACT SUB-TOTAL									\$0.00

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$58,604.00
NON-SALARY (OTHER DIRECT EXPENSES)	\$637.50
SUBCONTRACTS (includes labor costs and direct expenses)	\$0.00
GRAND TOTAL	\$59,241.50

Subprovider: Gauge Engineering, LLC  
Highway: SH 99 NBFR  
Limits: Fry Road to Westheimer Parkway  
CSJ: xxxx-xxx-xx

Attachment A (Add. Services)  
Fee Schedule  
Method of Payment: Lump Sum

TASK DESCRIPTION	SUPPORT MANAGER	ENGINEER - SENIOR	ENGINEER (HYDRAULIC)	ENGINEER-IN- TRAINING	CADD OPERATOR	ADMINISTRATIVE/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MANAGING CONTRACTED/DONATED PE - FC 145 (145,164)									
PROJECT MANAGEMENT AND ADMINISTRATION									
PREPARE MONTHLY PROGRESS REPORTS (5 ADDITIONAL MONTHS)	5					3	8	N/A	N/A
COORDINATION MEETING WITH GF AND COUNTY (10 ADDITIONAL TEAMS)	5	5		5			15	N/A	N/A
QUALITY CONTROL/DOCUMENTATION							0	N/A	N/A
HOURS SUB-TOTALS	10	5	0	5	0	3	23	0	
CONTRACT RATE PER HOUR	\$232.00	\$211.00	\$168.00	\$138.00	\$121.00	\$90.00			
TOTAL LABOR COSTS	\$2,320.00	\$1,055.00	\$0.00	\$690.00	\$0.00	\$270.00	\$4,335.00		
% DISTRIBUTION OF STAFFING	1.95%	0.97%	0.00%	0.97%	0.00%	0.58%			
SUBTOTAL - FC 145 (145, 164)							\$4,335.00		

TASK DESCRIPTION	SUPPORT MANAGER	ENGINEER - SENIOR	ENGINEER (HYDRAULIC)	ENGINEER-IN- TRAINING	CADD OPERATOR	ADMINISTRATIVE/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (160)									
ROADWAY DESIGN									
PREPARE WSEL PROFILE EXHIBITS									
SH 99 EXISTING AND PROPOSED FRONTAGE ROAD (1.4 MILES)									
HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	
CONTRACT RATE PER HOUR	\$232.00	\$211.00	\$168.00	\$138.00	\$121.00	\$90.00			
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
% DISTRIBUTION OF STAFFING	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
SUBTOTAL - FC 160 (161)							\$0.00		

TASK DESCRIPTION	SUPPORT MANAGER	ENGINEER - SENIOR	ENGINEER (HYDRAULIC)	ENGINEER-IN- TRAINING	CADD OPERATOR	ADMINISTRATIVE/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (161)									
DRAINAGE DESIGN									
1. DATA COLLECTION							0	N/A	N/A
2. HYDROLOGIC STUDIES (1.4 MILES - CONTRIBUTING TO 2 OUTFALLS)									
DELINEATE EXISTING DRAINAGE AREAS							0	N/A	N/A
DETERMINE EXISTING HYDROLOGIC PARAMETERS							0	N/A	N/A
CALCULATE EXISTING CONDITIONS FLOWRATES							0	N/A	N/A
DELINEATE PROPOSED DRAINAGE AREAS							0	N/A	N/A
DETERMINE PROPOSED HYDROLOGIC PARAMETERS							0	N/A	N/A
CALCULATE PROPOSED CONDITIONS FLOWRATES							0	N/A	N/A
VERIFY FEMA HEC-HMS FLOW RATES							0	N/A	N/A
3. STORM DRAINS									
UPDATE EXISTING CIVILTECH SWMM MODEL (10-YR AND 100-YR)							0	N/A	N/A
PROPOSED TRUNK MODEL USING CIVILTECH SWMM MODEL AND VERIFY NO IMPACT (10-YR AND 100-YR)	1	3	10	24			38	N/A	N/A
INCORPORATE FILL IN FLOODPLAIN MITIGATION VOLUME IN SWMM MODEL AND VERIFY NO IMPACT							0	N/A	N/A
4. COMPLEX HYDRAULIC DESIGN AND DOCUMENTATION									
DEVELOP REVISED EXISTING CONDITIONS HYDRAULICS MODELS TO ACCOUNT FOR MITIGATION ALTERNATIVES	4	8	14	42			68	N/A	N/A
DEVELOP PROPOSED CONDITIONS HYDRAULICS MODELS FOR 35 MITIGATION ALTERNATIVES	18	54	76	188			336	N/A	N/A
QUANTIFY IMPACTS	4	12	16	40			72	N/A	N/A
5. SCOUR ANALYSIS									
SCOUR EVALUATION OF BRIDGE CROSSINGS (2-BRIDGES)							0	N/A	N/A
PREPARE SCOUR FORM 2605							0	N/A	N/A
BRIDGE SCOUR REPORT							0	N/A	N/A
6. PS&E									
BRIDGE HYDRAULIC DATA SHEETS (2-BRIDGES)							0	N/A	N/A
7. DRAINAGE REPORT									

Subprovider: Gauge Engineering, LLC  
Highway: SH 99 NBFR  
Limits: Fry Road to Westheimer Parkway  
CSJ: xxxx-xxx-xx

Attachment A (Add. Services)  
Fee Schedule  
Method of Payment: Lump Sum

DRAFT REPORT							0	N/A	N/A
FINAL REPORT							0	N/A	N/A
HOURS SUB-TOTALS	27	77	116	294	0	0	514	0	
CONTRACT RATE PER HOUR	\$232.00	\$211.00	\$168.00	\$138.00	\$121.00	\$90.00			
TOTAL LABOR COSTS	\$6,264.00	\$16,247.00	\$19,488.00	\$40,572.00	\$0.00	\$0.00	\$82,571.00		
% DISTRIBUTION OF STAFFING	5.25%	14.98%	22.57%	57.20%	0.00%	0.00%			
SUBTOTAL - FC 160 (161)							\$82,571.00		

DESCRIPTION							TOTAL COSTS BY FC
MANAGING CONTRACTED/DONATED PE - FC 145 (145,164)							\$4,335.00
ROADWAY DESIGN - FC 160 (160)							\$0.00
ROADWAY DESIGN - FC 160 (161)							\$82,571.00
SUBTOTAL LABOR EXPENSES							\$86,906.00

OTHER DIRECT EXPENSES	UNIT	COST/UNIT		FC102(110) QUANTITY			TOTAL COSTS
Mileage	mile	\$0.585					\$0.00
SUBTOTAL DIRECT EXPENSES				\$0.00			\$0.00

SUMMARY	
TOTAL COSTS FOR SUB PROVIDER ONLY	\$86,906.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUB PROVIDER ONLY	\$0.00
GRAND TOTAL	\$86,906.00

**CHANGE ORDER REQUEST****Additional Service Compensation Request By:**

WES Representative Name	John W. Harvill
WES Representative Title	Director of Surveying
Date of Request	4-27-23

Hereinafter, "**Authorizing Contractor**"

WES Job No.	EL020
Client P.O./ Reference Job. No.	PSA Dated 1-5-23

Additional Services Requested/Performed	Approx. 900 Linear feet of Additional ROW and Topographic Survey. Includes Locations of Individual Trees in Heavily Wooded Areas.
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Deliverables Included	Same as Described in PSA
Estimated Completion Date	5-11-23

**Compensation for Additional Services:** \$13,640.00 (\$15.16/ft) (Original Scope \$12.17/ft)**TERMS AND CONDITIONS**

This Change Order is entered into (1) pursuant to the terms of the Agreement and the Terms and Conditions herein, or (2) if an Agreement is not currently in effect, then in accordance with the Terms and Conditions herein, by and between Weisser Engineering Company, Inc. DBA Weisser Engineering & Surveying, a Texas corporation ("WES") and the Authorizing Contractor named above. WES agrees to perform the Additional Services for Authorizing Contractor pursuant to the terms, conditions and provisions of the Agreement, if applicable, and this Change Order. Authorizing Contractor promises to pay each of WES's invoices within thirty (30) days of receipt of invoice.

By signing below, Authorizing Contractor affirms that the individual signing below has the requisite authority to authorize the commitment described herein, agrees to be legally bound by the terms herein, and that this Change Order is by reference hereby made part of the Agreement, if applicable. **WES'S LIABILITY TO AUTHORIZING CONTRACTOR FOR CLAIMS OF ANY KIND, WHETHER BASED ON CONTRACT OR TORT OR OTHERWISE RELATING TO THIS CHANGE ORDER, SHALL NOT EXCEED THE COMPENSATION PAID OR OWED TO WES FOR SERVICES UNDER THIS CHANGE ORDER.** In no event shall WES be liable to Authorizing Contractor for any unrealized costs, anticipated profits, or any other consequential damages.

**This Change Order Is Agreed To & Accepted By:**

Authorizing Contractor	Weisser Engineering & Surveying
Company Name:	
Signature:	Printed Name: Walter P. Sass, RPLS
Printed Name:	Title: President
Title:	
Contact Email:	
Phone Number:	



## **EARTH ENGINEERING, INC.**

*Geotechnical, Materials Testing & Environmental Consultants*  
4877 Langfield Road • Houston, TX 77040 • T: (713) 681-5311 • F: (713) 681-5411 • [www.eartheng.com](http://www.eartheng.com)

July 11, 2023

Mr. Michael J. Kaspar, P.E.  
DEC Engineering  
3100 West Alabama St.  
Houston, Texas 77098  
O 713.527.6374  
C 979.270.1115

Proposal No.: P-EE2217606-G-S  
Sent Via E-Mail: [michael.kaspar@decorp.com](mailto:michael.kaspar@decorp.com)

### **SOIL TESTING FOR A BRIDGE AT SH99 NBFR - FRY ROAD TO WESTHEIMER PARKWAY IN KATY, TX.**

Dear Mr. Kaspar,

**Earth Engineering, Inc.** is pleased to present this proposal to perform Soluble PH, Chloride and Sulfate.

#### **SCOPE OF WORK**

The scope of our services was specified based on Texas Department of Transportation TXDOT:

The scope of our services was specified by the client as follows:

- Test eight (8) samples at various depths for the following:
  - Soluble pH
  - Chloride
  - Sulfate



## SCHEDULING

We anticipate that the total project duration will be 3 working days.

## ESTIMATED FEES

The total cost for the geotechnical study is estimated to be **\$ 1,300.00**

## INSURANCE

Earth Engineering inc. maintains the following insurance:

- Professional Liability (errors and omissions): one **million**.
- General Liability: **two million**.
- Workman's Compensation: **one million**.
- Commercial Auto Insurance: **one million**.
- Umbrella Insurance: **five million**

## CLIENT RESPONSIBILITIES

Earth Engineering, Inc. requests that you provide the following information prior to the site visit and our site activities:

- Formal written authorization.
- Name and telephone number of a responsible client contact, if other than yourself.

Should you have any questions concerning this proposal or other services we may provide, please feel free to contact us at (713) 681-5311 or by e-mail at [moes@eartheng.com](mailto:moes@eartheng.com). We will be pleased to discuss them with you.

Yours very truly,  
**EARTH ENGINEERING, INC.**

*Moe A. Shihadeh*

Moe A. Shihadeh, P.E., D.GE  
Principal - Diplomate Geotechnical Engineering



**ATTACHMENT B  
SUPPLEMENTAL NO. 1  
ADDITIONAL SCOPE OF SERVICES**

**SH 99 Grand Parkway Northbound Frontage Road**

County: Fort Bend  
Highway: SH 99 Grand Parkway Northbound Frontage Road (NBFR)  
Limits: North of Fry Road to South of South of Westheimer Parkway  
(Approximate NBFR Station 3362+00 to 3431+00)

**1. Geotechnical Borings and Investigations (FC 110) (by Earth Engineering, Inc.)**

As requested by TxDOT, additional testing of eight (8) soil samples at various depths for Soluble pH, Chloride, and Sulfate.

**2. Topographic Surveying (FC 150) (by Weisser Engineering & Surveying)**

Additional topographic surveying of approximately 900 linear feet to cover extended NBFR project limits, including locations of trees in heavily wooded areas.

**3. Drainage Design (FC 161) (by Gauge Engineering, LLC)**

**Hydrologic Studies (See additional details from Gauge Engineering)**

Based on review of the SH 99 Main Lane widening Drainage Study, the ultimate condition modeling did not include the proposed 10' wide Sidepath adjacent to the proposed NBFR and SBFR. The additional effort will be to incorporate the proposed Sidepath into the proposed condition drainage models and develop the appropriate mitigation measures. Up to three (3) alternatives will be analyzed to minimize impacts to the water surface elevation.

**Complex Hydraulic Design and Documentation (See additional details from Gauge Engineering)**

After discussion with the design team, HEC-RAS modeling of the Buffalo Bayou and Little Prong Creek crossings should include both the proposed NBFR and SBFR. The additional effort will be to provide the HEC-RAS modeling and Hydraulic Data Sheets required for the SBFR bridges.

The HEC-RAS modeling will include multiple alternatives to assess impacts to the upstream and downstream water surface elevation (WSE) with mitigation measures to include slope paving along the channel and lowering of the existing bike trail north of Buffalo Bayou.

#### 4. PS&E Design Modifications (by GF)

Per direction from Fort Bend County and TxDOT, design modifications include:

- 1) The existing exit ramp south of Westheimer Parkway will be shifted south toward the Buffalo Bayou bridge crossing to increase weaving distance in advance of the Westheimer Parkway intersection.
- 2) The existing Bike Trail under the Buffalo Bayou Bridge will be lowered to accommodate the proposed NBFR and SBFR bridges, including multiple alternatives coordinated with the Hydraulic modeling.
- 3) The roadway profile across the Buffalo Bayou and Little Prong bridges will be raised to result in no impact to the WSE, as coordinated with the Hydraulic modeling.
- 4) The elevated NBFR roadway profile will require design of MSE Retaining walls at each of the NBFR bridge approaches.
- 5) Review and design of Illumination elements that are impacted by the new NBFR and the relocated exit ramp.
- 6) Review and design of ITS elements that are impacted by the new NBFR and the relocated exit ramp.

Scope Changes include the following:

- **Roadway Design Controls (FC 160) (by GF)**

Additional design effort associated with the relocated exit ramp and auxiliary lane includes Horizontal Alignment Data Sheets, Proposed Typical Sections, Roadway and Ramp Plan & Profile Sheets, Cross Sections, and associated Quantities.

Additional design effort for the Bike Trail and MSE Retaining Walls includes new plans, standards, and quantities.

- **Signing and Pavement Marking (FC 162) (by iGET)**

Additional design effort includes signing and pavement marking for exit ramp and auxiliary lane, large overhead signage for exit ramp, and associated standards and quantities.

- **Illumination (FC 162) (by iGET)**

Additional design effort includes illumination design to accommodate the NBFR and exit ramp including new plans, standards, and quantities.

- **ITS (FC 162) (by iGET)**

Additional design effort includes ITS design to accommodate the NBFR and exit ramp including new plans, standards, and quantities.

- **Traffic Control Plan (FC 163) (by HJ Consulting)**

Additional traffic control phase (Phase 3), construction sequencing, and sheet production to accommodate removal and relocation of the existing exit ramp.

## **5. Utility Coordination (FC 130) (by GF)**

The Utility Coordinator shall perform the following additional coordination activities in conjunction with the TxDOT 30%, 60%, and 90% Utility Coordination Meetings for all frontage road segments:

- 1) Combine Utility Conflict Matrices and Layouts for all frontage road segments for distribution to all utility companies.
- 2) Prepare Contact List, Invite Letters to be signed by TxDOT, and meeting invite sent to all utility companies.
- 3) Prepare Agenda, Presentation, and Meeting Minutes for each meeting.
- 4) Open Projects with applicable utility companies (CenterPoint Gas, Energy Transfer, etc.) and uploaded project plans for each frontage road segment to utility SharePoint sites.
- 5) Coordinate with frontage road segment design consultants to provide information to utility companies.
- 6) Arrange individual meetings with utility companies and segment design consultants.



May 31, 2024

Michael Kaspar, P.E.  
DEC Corporation  
3100 West Alabama St.  
Houston, TX 77098

**Re: SH 99 Northbound Frontage Road Drainage Study**

Dear Mr. Kaspar,

Gauge Engineering, LLC (Gauge) is pleased to submit this proposal to provide supplemental services in support of DEC on the SH 99 Northbound Frontage Road design project. Gauge will incorporate the southbound frontage road bridge into the crossing analysis, build on the hydraulic modeling already performed under the current authorized scope to develop the 35 mitigation alternatives and revise the inline detention design to incorporate the additional impervious associated with the shared-use-path.

We propose to perform this supplemental work for a Lump Sum amount of \$86,906.00. A detailed breakdown of the scope items and fee can be found under Exhibits "B" and "D". Please feel free to contact me at (713) 269-7782 if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Derek St. John".

Derek St. John, P.E.  
Principal

Attachments: Exhibit B – Scope of Services  
Exhibit D – Level-of-Effort

**ATTACHMENT B  
SUPPLEMENTAL NO. 1  
ADDITIONAL SCOPE OF SERVICES**

**SH 99 Grand Parkway Northbound Frontage Road**

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Highway: SH 99 Grand Parkway Northbound Frontage Road (NBFR)  
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