

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 CP&Y, Inc., (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 May 4, 2021 pursuant to SOQ 14-025, (hereinafter “Agreement”); and

WHEREAS, the parties desire to amend the Agreement to allow Contractor to provide additional Services under the Agreement.

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

1. County shall pay Contractor an additional amount not to exceed fifty thousand five hundred sixty dollars and no/100 (\$50,560.00) to perform the additional Services, as described in Contractor’s proposal dated June 30, 2022 attached hereto as Exhibit “A” 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 six hundred thirty-four thousand two hundred ninety-one dollars and no/100 (\$634,291.00), authorized as follows:

\$583,731.00 under the Agreement; and
\$50,560.00 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 an agreement executed by the parties.
4. 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.

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

CP&Y, INC



KP George, County Judge

Authorized Agent – Signature

Date

Robin Handel, PE

Authorized Agent – Printed Name

ATTEST:

Senior Vice President


Title

8/12/2022

Laura Richard, County Clerk

Date

APPROVED:



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

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

EXHIBIT A

June 30, 2022.

Kevin Mineo, PE.
Senior Project Manager,
Binkley & Barfield
1710 Seamist Drive,
Houston, TX 77008

Attn: Mr. Kevin Mineo, PE.,
Senior Project Manager

**Re: Vacek Road Project (Fort Bend County Precinct 1 Mobility Project 20111)
CP&Y Inc. Supplemental Design Scope & Fee Estimate**

Dear Mr. Mineo,

CP&Y Inc. respectfully submits to you our *Supplemental* design scope and fee for the above reference project, related to additional survey and design related services to be performed along Vojt Road. We estimate our total Supplemental “Base Scope” design services, as detailed herein, to be an additional lump sum amount of \$61,933; and an estimated net credit/reduction to the original “Additional Scope” design service budget amounting to (-) \$11,373 as detailed below.

Accordingly, we request an *additional* \$50,560 be appropriated to the Vacek Road design budget to complete the supplemental design tasks as requested by the County and discussed below.

We appreciate the opportunity to submit this proposal to you and look forward to continuing working with you and Fort Bend County staff on this project. Should you have any questions concerning this proposal, please contact me at 713-579-7414.

Sincerely,



Marcel Strachan, P.E.,
Project Manager

Attachments:

- Exhibit A – Scope of Services and summary of deliverable documents
- Exhibit B – Prime (CP&Y Inc) and Subconsultants Summary of Compensation
- Exhibit C – Surveyor (Tejas Surveying Inc) Scope including estimated schedule and fee details



EXHIBIT A
SUPPLEMENTAL
SCOPE OF SERVICES AND DELIVERABLE DOCUMENTS

1. PROJECT DESCRIPTION

CP&Y, Inc. (ENGINEER) and its sub-consultants will provide SUPPLEMENTAL professional engineering services to Fort Bend County (County) for design work related to the widening of Vacek Road roadway from Fairchild Road to Boothline Road near the Village of Fairchilds, Texas.

The County has engaged the ENGINEER to prepare parcel maps and descriptions so the County can acquire the additional right-of-way and drainage easements required along Vojt Road from the Vacek Road intersection to the outfall ditch near Fairchild Creek (See attached exhibit F6).

The County plans to eventually re-align the existing Vojt Road outfall ditch alignment, specifically the segment near Fairchild Creek between Sta 53+00 and 56+40. In addition to preparing detailed right-of-way maps and descriptions for the other segments along Vojt Road, the ENGINEER shall also establish the proposed boundaries, and prepare the necessary parcel maps and descriptions for acquisition of a drainage easement accommodating the future outfall ditch re-alignment.

The supplemental engineering services will include additional topographical survey, utility coordination, limited drainage analysis, and right-of-way mapping.

2. SUPPLEMENTAL BASE SCOPE OF DESIGN PHASE SERVICES

2.1 SUPPLEMENTAL PROJECT MANAGEMENT

- 2.1.1 The ENGINEER shall coordinate with County's Project Manager, manage the efforts of the ENGINEER's personnel, assign manpower, delegate responsibilities, monitor conformance to the scope regarding the budget and schedule, and direct the progress of work. Prepare and submit invoices and progress reports to the County, per the terms of this Contract.
- 2.1.2 The ENGINEER will schedule and attend progress meeting at the preliminary submittal, and additional meetings as needed (assumed 1 total) to review the progress of the engineering effort or address other issues which may arise. The ENGINEER will initiate meetings that include his consultants, and if necessary other parties. The ENGINEER shall prepare and deliver meeting record memorandum of decisions and action items after each meeting in a timely manner.
- 2.1.3 The ENGINEER will schedule and attend periodic meetings with local drainage district, city, municipal utility district, and property owners, as needed (assumed 1 total) to collect data and collaborate on the engineering effort or address other issues which may arise. ENGINEER will prepare and develop relevant exhibits, as necessary, to effectively communication with property owners. The ENGINEER shall prepare and deliver meeting record memorandum of decisions and action items after each meeting in a timely manner.

- 2.1.4 The ENGINEER shall coordinate with its sub-consultants, and monitor conformance to the scope regarding the budget, schedule, and progress of the work.
- 2.1.5 The ENGINEER shall implement and perform Quality Assurance and Quality Control (QA/QC) measures at each plan submittal milestone.
- 2.1.6 The ENGINEER shall review work progress, and address plan submittal review comments from County and private utilities, as applicable, at each plan submittal milestone.

2.2 SUPPLEMENTAL PRELIMINARY DESIGN

2.2.1 Project Surveying:

The ENGINEER will perform topographic survey, to include the following:

- a. **ADDITIONAL Deed Research:**
 - Research Ownership & Subdivision Plats on the Tax Maps.
 - Acquire limited title certificates from a professional abstractor for ownership names, deeds and easement recording information.
- b. **ADDITIONS to Abstract Map:**
 - Plot deeds and easements to identify ownership, dedicated easements, and location of deed lines.
- c. **ADDITIONAL Right of entry:**
 - Prepare a request for right-of-entry and notification to property owner of the proposed commencement of work.
 - Mail requests to the taxpayer's address, or grantor's address in-deed when appropriate, and hand deliver where possible.
- d. **ADDITIONAL Project Control:**
 - Horizontal and vertical control will be established at intervals prescribed in the Fort Bend County Design Manual for Mobility Projects, with inter visibility, not to exceed 1000 foot spacing.
 - Horizontal control will be established on site based upon GPS observation utilizing the Leica RTN.
 - Horizontal control will be based on Texas Coordinate System of 1983, South Central Zone.
 - Vertical control will be extended from existing project controls using high order level loops.
 - Amend overall Survey Control Layout Sheet and Control Recovery Sheets.
- e. **ADDITIONAL Topographic Survey (Along Vojt Road and outfall ditch):**
 - Cross-sections will be taken at intervals not to exceed 100 feet, and at any grade breaks for the proposed Vojt road right-of-way plus a minimum of 20 additional feet.
 - Texas 811 (One Call) will be notified 48 hours in advance of the commencement of topographic surveying.

- Any utility markings provided by the One Call Utility Locators will be collected and a reasonable interpretation made.
 - All visible and apparent utilities will be located.
 - All manhole elevations, culverts, flowlines, and invert elevations will be located and detailed where accessible.
 - Subsurface utility exploration to determine exact locations and depths of lines not otherwise accessible by manholes or inlets is specifically excluded from the scope of work.
 - Any structures within 100 feet of the current centerline of the road will be generally located.
- f. **ADDITIONAL Utility Research**
- A request for gas and electric maps will be submitted to CenterPoint Energy.
 - A request for communication base maps will be submitted to AT&T.
- g. **ADDITIONAL Location of Soil Borings**
- Stake the location of the proposed bore locations using latitude and longitude coordinates provided by the geotechnical consultant.
 - Record the location and elevation of the borings after drilling.
- h. **ADDITIONAL Offsite Drainage Survey**
- Channel cross sections will be taken along Fairchild's Creek at four (4) prescribed locations within 150 feet downstream and 150 feet upstream of the intersecting channel.
- i. **AMENDING the Right-of-Way Map**
- Amend the overall project map to show the additional proposed right-of-way.
 - Stake the proposed right-of-way at all PC, PT and Angle Points, and at 1500-foot stations.

2.2.3 Supplemental Vojt Road Outfall Ditch Drainage Analysis & Memo:

The County wishes to eventually re-align the existing Vojt Road outfall ditch specifically the segment from approximately Sta 53+00 to 56+40 as shown in the Exhibit F6 (the County's preferred conceptual ditch alignment) closer to the existing western property boundary. ENGINEER to verify the required limits of the Drainage Easement needed to accommodate the future ditch geometry and alignment.

The ENGINEER will perform hydrologic and hydraulic analysis of this ditch segment for existing conditions, currently proposed conditions, and the anticipated future conditions along Vojt Road which the County has requested the ENGINEER to assume will eventually be widened in the future to a 36-wide roadway. This analysis will estimate the required size of the future outfall ditch so that the drainage easement boundaries can properly be determined and incorporated into the County's parcel acquisition packages.

In coordination with the Fort Bend County Drainage District Engineer, the following tasks will be performed:

Task A: Hydrologic Analysis

- a. Existing Conditions Hydrologic Analysis: ENGINEER will perform an existing conditions hydrologic analysis of the outfall ditch, while accounting for the latest Atlas 14 precipitation values. This task will include verifications of external and internal drainage areas delineation, verifying the Tc, land use and the computed design and 5-, 25- and 100-yr peak flows.
- b. Perform Proposed Conditions Hydrologic Analysis: ENGINEER will perform a proposed conditions hydrologic analysis of the outfall ditch, while accounting for the latest Atlas 14 precipitation values. This task will include delineating or revising proposed conditions internal and external drainage areas, determining Tc, land use, and computing the design and 5-, 25- and 100-year peak flows using the Rational Method. The flows calculated will be utilized to size the outfall ditch.

Task B: Hydraulic Analysis (for the outfall ditch)

- c. Existing Conditions Hydraulic Analysis: ENGINEER will verify and confirm the hydraulic conditions of the existing ditches. The tailwater conditions at the ditch outfall location will be analyzed, and the design storm and 100-year hydraulic grade line (HGL) will be verified and confirmed.
- d. Perform Proposed Conditions Hydraulic Analysis: ENGINEER will perform a proposed conditions hydraulic analysis of the proposed ditch performance for the design storm and up to the 100-yr event.
- e. Modify Hydraulic Analysis: This task will include modifying the hydraulic analysis up to one (1) time to incorporate County review comments/changes in the design.

Task C: Supplemental H&H Memo / Documentation

- f. Prepare supplemental H&H Memo: ENGINEER will document the results of the ditch analysis as a supplemental memo to the project Preliminary Engineering Report. Digital files of the model and/or calculations developed for this project will be provided.

2.2.4 Preliminary Outfall Ditch Geometric Layout (30% Design):

- a. The ENGINEER will evaluate the ditch horizontal alignment and geometry utilizing actual survey to establish the Ditch/Drainage Easement alignment. The ENGINEER will then develop conceptual plan and profile layout for the proposed future ditch alignment. The layout shall show the proposed project centerline/alignment including Station PC, PTs, and proposed drainage easement limits based on the proposed ditch typical section and anticipated cross slopes; as well as existing features shown in plan and profile, and proposed roadway features in plan only with minor annotation.
- b. The ENGINEER will develop a preliminary ditch typical section.
- c. The ENGINEER will attend and conduct a review meeting to include key County staff, prior to finalizing proposed drainage easement boundaries.

2.3 SUPPLEMENTAL UTILITY COORDINATION

The ENGINEER will:

- 2.3.3 Perform records research and field visits to determine the presence of underground or overhead private or public utilities.
- 2.3.4 Send records requests to utilities and obtain I.D. numbers (CenterPoint and AT&T).
- 2.3.5 Depict utilities to a reasonable degree of accuracy on the plan and profile drawing.
- 2.3.6 Prepare a conflict table to highlight conflicts between existing utilities and proposed improvements, if applicable.

2.4 FINAL DESIGN:

Detail Design for future Vojt Road widening and drainage ditch outfall re-alignments *are excluded from scope of work* and will be handled by others when the County decides to authorize such work. The supplemental preliminary design efforts discussed above are intended only to help establish the required proposed drainage easement limits along Vojt Road so the County can procure the necessary parcels prior to future design and construction.

3. ADDITIONAL SCOPE OF SERVICES

The following Additional Services will be performed when authorized by the County, on a specified rate basis.

3.1 PROPOSED PARCEL DOCUMENTS

Note: *This subsection has been amended from the original project scope. Items struck through in red will be either removed from the original scope or credited to the County's budget. Other items revised or added to the original scope are underlined in red.*

The ENGINEER shall:

- ~~3.1.1 Prepare Parcel Plats and Descriptions (for up to 2 potential detention pond sites)~~
 - ~~a. Acquire limited title certificates from a professional abstractor for ownership names, deeds and easement recording information of the sites.~~
 - ~~b. Survey up to three pre-defined parcels.~~
 - ~~c. Provide topographic elevations of natural ground at 50-foot intervals.~~
 - ~~d. Prepare a metes and bounds description suitable for acquisition of each parcel.~~
 - ~~e. Prepare a Category 1A-Condition II Land Title Survey of each parcel.~~
 - ~~f. Deliverables of the surveys and descriptions shall be provided in PDF format~~
- 3.1.2 Parcel Plats and Descriptions (for up to 26 Parcels Total along Vacek Rd, along Vojt Rd, and along the new Vacek SE outfall ditch alignment).
 - a. Prepare individual Parcel Plats for the additional Right-of-Way parcels and applicable Drainage Easements.
 - b. Prepare metes and bounds descriptions for the additional Right-of-Way parcels and applicable Drainage Easements.
 - c. Deliverable of the surveys and descriptions shall be provided in PDF format
 - d. Stake the right-of-way line at all intersecting property lines.

3.3 SUPPLEMENTAL “PRE-CONSTRUCTION PHASE SERVICES”

The ENGINEER shall perform the following, as requested by the County:

A. Survey Updates:

- 3.3.2 Refresh the survey control for commencement of construction, as needed (*for along Vojt Road and outfall ditch alignment*).

3.4 SUPPLEMENTAL “ADDITONAL PROJECT MANAGEMENT & COORDINATION”

- 3.4.3 Provide coordination for survey updates, as needed during pre-construction (*for along Vojt Road and outfall ditch alignment*).

3.5 ENVIRONMENTAL SITE ASSESSMENT

- 3.5.1 An Environmental Site Assessment is not anticipated. If requested by the County, this task may be added by contract amendment.

4. SERVICES TO BE PROVIDED BY THE COUNTY

The County, or it’s agent via separate contract, will provide the following items and services including, but not limited to:

- 4.1 Preliminary wetlands investigation, or other required environmental studies. Notification of the ENGINEER, if additional mitigating efforts or requirements will be required.
- 4.2 Project notification to the Texas Historical Commission, if required.
- 4.3 Secure permits from governing agencies, if required.
- 4.4 Assist the Design Consultant in identifying major utilities and providing contact information for various utilities as needed.
- 4.5 Coordinate directly with utility companies to facilitate utility adjustments required by the proposed improvements.

EXHIBIT B
SUMMARY OF SUPPLEMENTAL COMPENSATION FOR PROFESSIONAL SERVICES
METHOD OF PAYMENT: LUMP SUM

PRIME PROVIDER NAME: CP&Y, INC.

PROJECT NAME: VACEK ROAD

DATE: 6/30/2022

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	STAFF ENGINEER	SR. CADD/ DESIGNER	GRADUATE ENGINEER (EIT)	CADD/ DESIGNER	CLERICAL/ ADMIN	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET	COST PER TASK
2. BASE SCOPE OF DESIGN PHASE SERVICES											
2.1 PROJECT MANAGEMENT											
2.1.1 COORDINATE W/ COUNTY PM, & MANAGE STAFF	8							8	N/A		\$1,552.00
2.1.2 ATTEND PROGRESS MEETINGS								0	N/A		\$0.00
2.1.3 COORDINATE W/ AGENCIES & PROPERTY OWNERS								0	N/A		\$0.00
2.1.4 COORDINATE W/ SUBS	8	4			4			16	N/A		\$2,704.00
2.1.5 QA/QC								0	N/A		\$0.00
2.1.6 ADDRESS COMMENTS								0	N/A		\$0.00
2.2 PRELIMINARY DESIGN											
2.2.1 PROJECT SURVEYING											\$43,950.00
a. DEED RESEARCH											
b. ABSTRACT MAP											
c. RIGHT OF ENTRY											
d. PROJECT CONTROL											
e. TOPOGRAPHIC SURVEY											
f. UTILITY RESEARCH											
g. LOCATION OF SOIL BORINGS											
h. OFF-SITE DRAINAGE SURVEY (CHANNEL SECTIONS)											
i. PREPARE RIGHT-OF-WAY MAP											
2.2.2 GEOTECHNICAL INVESTIGATION											
a. ROADWAY DRILLING AND SAMPLING (13 @ 10-FT EA)									N/A		
b. LABORATORY TESTING											
c. ENGINEERING ANALYSIS & GEOTECHNICAL REPORT											
2.2.3 SUPPLEMENTAL DRAINAGE ANALYSIS (WOJT OUTFALL DITCH)											
a. EXISTING HYDROLOGIC ANALYSIS		2	2		4			8	N/A		\$1,104.00
b. PROPOSED HYDROLOGIC ANALYSIS		2	2		6			10	N/A		\$1,354.00
c. EXISTING HYDRAULIC ANALYSIS:		2	4		6			12	N/A		\$1,632.00
d. PROPOSED HYDRAULIC ANALYSIS		2	6		12			20	N/A		\$2,660.00
e. MODIFY HYDRAULIC ANALYSIS		2	2		4			8	N/A		\$1,104.00
f. SUPPLEMENTAL H&H MEMO		4	2		4	8		18	N/A		\$2,406.00
2.2.4 PRELIM GEOMETRIC LAYOUT (WOJT RD OUTFALL DITCH)											
a. CONCEPTUAL PLAN & PROFILE LAYOUT			2		4	8		14	N/A		\$1,754.00
b. CONCEPTUAL DITCH TYPICAL SECTION			2		2	2		6	N/A		\$772.00
e. REVIEW MEETING		1	1					2	N/A		\$302.00

EXHIBIT B
SUMMARY OF SUPPLEMENTAL COMPENSATION FOR PROFESSIONAL SERVICES
METHOD OF PAYMENT: LUMP SUM

PRIME PROVIDER NAME: CP&Y, INC.
PROJECT NAME: VACEK ROAD
DATE: 6/30/2022

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	STAFF ENGINEER	SR. CADD/ DESIGNER	GRADUATE ENGINEER (EIT)	CADD/ DESIGNER	CLERICAL/ ADMIN	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET	COST PER TASK
2.3 UTILITY COORDINATION											
2.3.1 RECORDS RESEARCH & SITE VISITS			1		1				N/A		\$264.00
2.3.2 SUBMIT REQUESTS TO UTIL COS					1				N/A		\$125.00
2.3.3 DEPICT UTILITIES ON PLANS					1				N/A		\$125.00
2.3.4 UTILITY CONFLICT TABLE					1				N/A		\$125.00
2.3.5 SUBMIT MILESTONE DRAWINGS TO UTILITIES									N/A		\$0.00
2.3.6 MUNICIPAL UTILITY ADJUSTMENT DETAILS									N/A		\$0.00
2.4 FINAL DESIGN											
2.4.1 TRAFFIC CONTROL PLANS (1"=100' SCALE)									N/A		\$0.00
2.4.2 SW&P PLANS (1"=100' SCALE)									N/A		\$0.00
2.4.3 MISCELLANEOUS PLANS & DETAILS									N/A		\$0.00
2.4.4 TYPICAL SECTIONS									N/A		\$0.00
2.4.5 DRAINAGE PLANS									N/A		\$0.00
2.4.6 ROADWAY PLANS & PROFILE (1"=40'H, 1"=4'V SCALE)									N/A		\$0.00
2.4.7 CROSS SECTIONS & EARTHWORK									N/A		\$0.00
2.4.7 CONSTRUCTION COST ESTIMATE									N/A		\$0.00
2.4.8 SPECIFICATIONS									N/A		\$0.00
2.2.7 EXPENSES											\$0.00
HOURS SUB-TOTALS	16	19	24	0	50	18	0	127	0		
CONTRACT RATE PER HOUR	\$194.00	\$163.00	\$139.00	\$136.00	\$125.00	\$122.00	\$80.00				
TOTAL LABOR COSTS	\$3,104.00	\$3,097.00	\$3,336.00	\$0.00	\$6,250.00	\$2,196.00	\$0.00	\$17,983.00			
TOTAL ESTIMATED SUPPLEMENT TO BASE SCOPE OF DESIGN PHASE SERVICES BUDGET											\$61,933.00

EXHIBIT B
SUMMARY OF SUPPLEMENTAL COMPENSATION FOR PROFESSIONAL SERVICES
METHOD OF PAYMENT: SPECIFIED RATE

PRIME PROVIDER NAME: CP&Y, INC.
PROJECT NAME: VACEK ROAD

DATE: 6/30/2022

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	STAFF ENGINEER	SR CADD/ DESIGNER	GRADUATE ENGINEER (EIT)	CADD/ DESIGNER	CLERICAL/ ADMIN	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET	COST PER TASK
3. ADDITIONAL SCOPE OF SERVICES											
3.1 PROPOSED PARCEL DOCUMENTS											
3.1.1 PROP PARCEL AND DESC - POND (2 PARCEL @ \$3,360.00 EA)											-\$6,760.00
3.1.2 PROP PARCEL AND DESC - RDWY (28 PARCEL @ \$1,929.66 EA)											-\$55,960.00
3.1.2 PROP PARCEL AND DESC - RDWY (26 PARCELS @ \$1,929.66 EA)											\$50,010.00
3.2 GEOTECHNICAL INVESTIGATION (POND SITES)											
3.2.1 POND DRILLING AND SAMPLING (4 @ 15-FT EA)											\$0.00
3.2.2 LABORATORY TESTING											\$0.00
3.2.3 ENGINEERING ANALYSIS & GEOTECHNICAL REPORT											\$0.00
3.3 PRE-CONSTRUCTION PHASE SERVICES											
A. SURVEY UPDATES											
3.3.1 STAKE PROJECT ROW FOR UTILITY RELOCATION (AS NEEDED)											\$0.00
3.3.2 REFRESH SURVEY CONTROLS FOR CONSTRUCTION (VOLT RD & OUTFALL DITCH)											\$980.00
3.4. ADDITIONAL PROJECT MANAGEMENT											
3.4.1 COORDINATE & REVIEW / PROPOSED PARCEL & DESC DOCUMENTS	0	0						0	N/A		\$0.00
3.4.2 COORDINATE ADDITIONAL GEOTECHNICAL INVESTIGATION	0	0						0	N/A		\$0.00
3.4.3 COORDINATE SUBS SURVEY UPDATES (PRE-CONSTRUCTION)	1	1						2	N/A		\$357.00
HOURS SUB-TOTALS	1	1	0	0	0	0	0	2			
CONTRACT RATE PER HOUR	\$194.00	\$163.00	\$139.00	\$136.00	\$125.00	\$122.00	\$80.00				
TOTAL LABOR COSTS	\$194.00	\$163.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$357.00			
TOTAL ESTIMATED CREDIT TO ADDITIONAL SERVICES BUDGET											-\$11,373.00

EXHIBIT C
SUMMARY OF SUPPLEMENTAL COMPENSATION FOR PROFESSIONAL SERVICES
SURVEYING & MAPPING SERVICES BUDGET

SUB PROVIDER NAME: TEJAS SURVEYING, INC.

PROJECT NAME: VACEK ROAD

DATE: 6/30/2022

TASK DESCRIPTION	General Description	2 MAN FIELD CREW	PARTY CHIEF & VEHICLE	ABSTRACTING	SURVEY/ TECH	CAD	LIASON	SUPERVISION	RPLS	PRINCIPLE	TOTAL LABOR HRS & COSTS	COST PER TASK
BASE SCOPE OF SERVICES (LUMP SUM)												
PHASE 1 ACTIVITIES (for Vol Rd)												
Deed Research	Research Tax Maps and Real Property Records to identify vesting deeds, subdivision plats and easements			35			5	5		5		\$5,500.00
Abstract Map	Plot Deeds and Easements with Grantee & pertinent data, recording information, called bearings, distances, and monumentation				10	20		4	4		38	\$3,680.00
Right of Entry	Prepare letters to land owners for mail and hand delivery with return addresses		3		3		1	1			8	\$760.00
Project Control	Establish 6 permanent survey control monuments, Run levels, Relate to project baseline and prepare Control Map and Monument Recovery Detail Sheet	42			12			10	10	1	75	\$10,710.00
Topographic Route Survey	Locate obvious property corners to more accurately locate parcels on abstract map, perform topographic survey, Process field data and prepare Coded line deliverable, State project baseline accordingly).	30			6	6	6	4	4	2	58	\$6,170.00
Utility Research	Locate of Soil Borings		n/a								0	\$0.00
Offsite Drainage Survey			n/a								0	\$0.00
SUPPLEMENT TO PHASE 2 ACTIVITIES												
Right-of-Way Maps (along Vol Rd and along Vascek SE Drainage Ditch)	Import right-of-way location as prescribed. Locate property corners of record to finalize location of abutting properties. Upgrade abstract map to right-of-way map. Calculate intersections with proposed right-of-way. Calculate station and offsets. Prepare area runs for taking. Provide tables of ownership and proposed acquisition areas	22		6	20	40	6	6	20	4	130	\$15,130.00
TOTAL SUPPLEMENT TO - BASE SCOPE OF SERVICES (LUMP SUM)												
ADDITIONAL SCOPE OF SERVICES - AS AUTHORIZED												
PHASE 3 ACTIVITIES												
CREDIT - ORIGINAL Offsite Detention Pond Plats and Descriptions (up to 2)	Perform additional abstracting, establish control, collect and reduce data, provide Coded lines, prepare survey and description for two ponds. Prepare notes and bounds descriptions. Set proposed property monumentation for acquisition	20		6	7	12	2	2	2	2	53	-\$6,760.00
CREDIT - ORIGINAL Parcel Plats and Descriptions (up to 29 Parcels)	Perform additional abstracting, establish control, collect and reduce data, provide Coded lines, prepare survey and description for two ponds. Prepare notes and bounds descriptions. Set proposed property monumentation for acquisition	87	10	5	87	145	29	29	87	5	464	-\$55,960.00
Parcel Plats and Descriptions (up to 26 Parcels) - along Vascek Rd and Vol Rd	Prepare parcel sketches at 1" = 50' on 8-1/2" x 11" sheets. Prepare notes and bounds descriptions. Set proposed property monumentation for acquisition.	78	9	4	78	130	26	26	78	4	433	\$50,010.00
PHASE 4 ACTIVITIES (PRE-CONSTRUCTION)												
SUPPLEMENT Stake Project Right-of-Way for Utility Relocations	Stake project centerline for control utility relocations	0			0		0	0	0	0	0	\$0.00
SUPPLEMENT Refresh Survey Controls for commencement of construction	Refresh existing survey control for quick location by contractor	2			2		2			1	7	\$980.00
TOTAL ESTIMATED CREDIT TO - ADDITIONAL SCOPE OF SERVICES												
PHASE 4 ACTIVITIES (PRE-CONSTRUCTION)												
HOURS SUB-TOTALS		281	28	56	225	353	77	87	205	24	1336	
CONTRACT RATE PER HOUR		\$165.00	\$90.00	\$90.00	\$90.00	\$90.00	\$110.00	\$136.00	\$136.00	\$250.00		
TOTAL LABOR COSTS		\$46,365.00	\$2,520.00	\$5,040.00	\$20,250.00	\$31,770.00	\$8,470.00	\$9,970.00	\$27,675.00	\$6,000.00	\$157,660.00	
TOTAL ESTIMATED SUPPLEMENT FOR SURVEYING & MAPPING SERVICES												
\$32,220.00												

TEJAS SURVEYING, INC.

*Firm No. 10031300
1810 First Oaks St., Suite 220
Richmond, TX 77406-1666*

June 1, 2022

Mr. Marcel Strachan, PE
CP&Y
Texas First Bank Building
11757 Katy Freeway, Suite 1540
Houston, Texas 77079

Re: Addendum No 1: Fort Bend County Mobility Projects – Pct 1 – 20111 **Vacek Road**

Dear Marcel:

In connection with the design of Fort Bend County Mobility Project: Vacek Road - from Fairchild Road to Boothline Road, we hereby propose to provide the following surveying services as an addendum to the original scope of work, to be performed in a manner consistent with the Fort Bend County August 2020 Engineering Design Manual for this route survey, and as further described in the attached revised Exhibit “A” Surveying & Mapping Scope, and as itemized in the attached revised Exhibit “B” Surveying & Mapping Budget, for an amount not to exceed THIRTY TWO THOUSAND TWO HUNDRED TWENTY AND NO/100 DOLLARS (\$32,220.00).

Please allow approximately 40 days for the collection of data and preparation of the deliverables, once we have received notice to proceed. Payment for services rendered shall be due and payable monthly, based on percentage of completion as invoiced for services rendered, within 10 days of receipt of payment from Fort Bend County for same. Tejas Surveying, Inc would like to be apprised of the billing to Fort Bend County when surveying expenses are included.

Respectfully submitted:

Randy S. McClendon, RPLS

EXHIBIT “A”
PRECINCT 1 MOBILITY PROJECT 20111
VACEK ROAD ADDENDUM NO 1
SURVEYING & MAPPING SCOPE
JUNE 1, 2022

ADDITIONAL DEED RESEARCH

- ◆ Research Ownership & Subdivision Plats on the Tax Maps.
- ◆ Acquire limited title certificates from a professional abstractor for ownership names, deeds and easement recording information..

ADDITONS TO THE EXISTING ABSTRACT MAP

- ◆ Plot deeds and easements to identify ownership, dedicated easements, and location of deed lines.

ADDITIONAL RIGHT OF ENTRY

- ◆ Prepare a request for right-of-entry and notification to property owner of the proposed commencement of work.
- ◆ Mail requests to the taxpayer’s address, or grantor’s address in deed when appropriate, and hand deliver where possible.

ADDITIONAL PROJECT CONTROL

- ◆ Horizontal and vertical control will be established at intervals prescribed in the Fort Bend County Design Manual for Mobility Projects, with inter visibility, not exceed 1000 foot spacing.
- ◆ Horizontal control will be established on site based upon GPS observation utilizing the Leica RTN.
- ◆ Horizontal control will be based on Texas Coordinate System of 1983, South Central Zone.
- ◆ Vertical control will be extended from existing project controls using high order level loops.
- ◆ Amend overall Survey Control Layout Sheet and Control Recovery Sheets.

TOPOGRAPHIC ROUTE SURVEY

- ◆ Cross-sections will be taken at intervals not to exceed 100 feet, and at any grade breaks for the proposed Vojt road right-of-way plus a minimum of 20 additional feet.
- ◆ Texas 811 (One Call) will be notified 48 hours in advance of the commencement of topographic surveying.
- ◆ Any utility markings provided by the One Call Utility Locators will be collected and a reasonable interpretation made.
- ◆ All visible and apparent utilities will be located.

- ◆ All manholes elevations, culverts, flowlines and invert elevations will be located and detailed where accessible.
- ◆ Subsurface utility exploration to determine exact locations and depths of lines not otherwise accessible by manholes or inlets is specifically excluded from the scope of work.
- ◆ Any structures within 100 feet of the current centerline of the road will be generally located.

ADDITIONAL UTILITY RESEARCH

- ◆ A request for gas and electric maps will not be submitted to CenterPoint Energy .
- ◆ A request for communication base maps will not be submitted to AT&T.

ADDITIONAL LOCATION OF SOIL BORINGS

- ◆ Stake the location of the proposed bore locations using latitude and longitude coordinates provided by the soils consultant.
- ◆ Record the location and elevation of the borings after drilling.

OFFSITE DRAINAGE SURVEY

- ◆ Channel cross sections will be taken along Fairchilds Creek at four (4) prescribed locations within 150 feet downstream and 150 feet upstream of the intersecting channel.

AMENDING THE RIGHT-OF-WAY MAP

- ◆ Amend the overall project map to show the additional proposed right-of-way.
- ◆ Stake the proposed right-of-way at all PC, PT and Angle Points, and at 1500-foot stations.

PARCEL PLATS AND DESCRIPTIONS

- ◆ Prepare individual Parcel Plats for the additional Right-of-Way parcels.
- ◆ Prepare metes and bounds descriptions for the additional Right-of-Way parcel.
- ◆ Stake the right-of-way line at all intersecting property lines.

CONSTRUCTION PHASE SERVICES

- ◆ Refresh the survey control for commencement of construction, if needed.

Task	General Description	2-Man Field Crew	Party Chief & Vehicle	Abstracting	Survey Tech	CAD	Liason	Super- vision	RPLS	Principal	Total Hours	Task Cost
Rate		\$165	\$90	\$90	\$90	\$90	\$110	\$110	\$135	\$250		
Deed Research	Research Tax Maps and Real Property Records to identify vesting deeds, subdivision plats and easements			35			5	5		5	50	\$5,500
Abstract Map	Plot Deeds and Easements with Grantee & pertinent data, recording information, called bearings, distances, and monumentation				10	20		4	4		38	\$3,680
Right of Entry	Prepare letters to land owners for mail and hand delivery with return addresses		3		3		1	1			8	\$760
Project Control	Establish 6 permanent survey control monuments. Run levels. Relate to project baseline and prepare Control Map and Monument Recovery Detail Sheet	42			12			10	10	1	75	\$10,710
Topographic Route Survey	Locate obvious property corners to more accurately locate parcels on abstract map. Perform topographic survey pursuant to specifications using Geopak codes. Process field data and prepare microstation 2d and 3d files. Prepare TIN. Stake project baseline accordingly.	30			6	6	6	4	4	2	58	\$8,170
Utility Research	N/A											\$0
Location of Soil Borings	N/A											\$0
Offsite Drainage Survey	N/A											\$0
Right-of-Way Map	When authorized, Import right-of-way location as prescribed. Locate property corners of record to finalize location of abutting properties. Upgrade abstract map to right-of-way map. Calculate intersections with proposed right-of-way. Calculate station and offsets. Prepare area runs for taking. Provide tables of ownership and proposed acquisition areas.	22	6	6	20	40	6	6	20	4	130	\$15,130
SubTotal Costs		\$15,510	\$810	\$3,690	\$4,590	\$5,940	\$1,980	\$3,300	\$5,130	\$3,000	\$0	\$43,950
CREDIT -Offsite Detention Ponds	Perform additional abstracting, establish control, collect and reduce data, provide 2d and 3dgn files, prepare survey and description for two ponds.	20		6	7	12	2	2	2	2	53	-\$6,760
CREDIT -Parcel Plats and Descrip	When authorized, prepare parcel sketches at 1" = 50' on 8-1/2" x 11" sheets. Prepare metes and bounds descriptions. Set proposed property monumentation for acquisition.	87	10	5	87	145	29	29	87	5	484	-\$55,960
Parcel Plats and Descriptions	When authorized, prepare parcel sketches at 1" = 50' on 8-1/2" x 11" sheets. Prepare metes and bounds descriptions. Set proposed property monumentation for acquisition.	78	9	4	78	130	26	26	78	4	433	\$50,010
SubTotal Costs		-\$4,785	-\$90	-\$630	-\$1,440	-\$2,430	-\$550	-\$550	-\$1,485	-\$750	\$0	-\$12,710
Utility Relocations	Stake project centerline for control utility relocations	0			0		0	0	0	0	0	\$0
Pre Construction Services	Refresh existing survey control for quick location by contractor.	2			2		2			1	7	\$980
Sub-Total Costs		\$330	\$0	\$0	\$180	\$0	\$220	\$0	\$0	\$250	0	\$980
TOTAL ADDENDUM		\$11,055	\$720	\$3,060	\$3,330	\$3,510	\$1,650	\$2,750	\$3,645	\$2,500	\$0	\$32,220