

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES

THIS AGREEMENT 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 ZARINKELK ENGINEERING SERVICES, INC. (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas.

WITNESSETH

WHEREAS, County desires that Contractor provide professional engineering services for the design of a 4-lane concrete curb and gutter boulevard section roadway with storm sewer extending Fulshear-Gaston from FM723 to FM359, and to include the modification of signal at FM 723 intersection, for Fulshear-Gaston Project Number 17312, under the 2017 Mobility Bond Program (hereinafter "Services") pursuant to SOQ 14-025; and

WHEREAS, County has determined Contractor is the most highly qualified provider of the desired Services on the basis of demonstrated competence and qualifications, and County and Contractor have negotiated to reach a fair and reasonable amount of compensation for the provision of such Services, as required under Chapter 2254 of the Texas Government Code; and

WHEREAS, Contractor represents that it is qualified and desires to perform such services.

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth below, the parties agree as follows:

AGREEMENT

Section 1. Scope of Services

Contractor shall render the professional engineering services, including the surveying, right-of-way mapping, geotechnical investigations, roadway design, drainage design, traffic control design and utility coordination for the project as described Scope of Services and Deliverable Documents attached hereto as Exhibit A, and incorporated herein for all purposes.

Section 2. Personnel

2.1 Contractor represents that it presently has, or is able to obtain, adequate qualified personnel in its employment for the timely performance of the Scope of Services required under this Agreement and that Contractor shall furnish and maintain, at its own expense, adequate and sufficient personnel, in the opinion of County, to perform the Scope of Services when and as required and without delays.

2.2 All employees of Contractor shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of Contractor who, in the opinion of County, is incompetent or by his conduct becomes detrimental to the project shall, upon request of County, immediately be removed from association with the project.

Section 3. Compensation and Payment

3.1 Contractor's fees shall be calculated at the rates set forth in the attached Exhibit A. The Maximum Compensation for the performance of Services within the Scope of Services described in Exhibit A is One Million One Hundred Six Two Hundred Eighty-three and 00/100 (\$1,106,283.00) as set forth in Exhibit A. In no case shall the amount paid by County under this Agreement exceed the Maximum Compensation without a written agreement executed by the parties.

3.2 All performance of the Scope of Services by Contractor including any changes in the Scope of Services and revision of work satisfactorily performed will be performed only when approved in advance and authorized by County.

3.3 County will pay Contractor based on the following procedures: Upon completion of the tasks identified in the Scope of Services, Contractor shall submit to County staff person designated by the County Engineer, one (1) electronic (pdf) copy of the invoice showing the amounts due for services performed in a form acceptable to County. County shall review such invoices and approve them within 30 calendar days with such modifications as are consistent with this Agreement and forward same to the Auditor for processing. County shall pay each such approved invoice within thirty (30) calendar days. County reserves the right to withhold payment pending verification of satisfactory work performed.

Section 4. Limit of Appropriation

4.1 Contractor clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, that County shall have available the total maximum sum of One Million One Hundred Six Two Hundred Eighty-three and 00/100 (\$1,106,283.00), specifically allocated to fully discharge any and all liabilities County may incur.

4.2 Contractor does further understand and agree, said understanding and agreement also being of the absolute essence of this Agreement, that the total maximum compensation that Contractor may become entitled to and the total maximum sum that County may become liable to pay to Contractor shall not under any conditions, circumstances, or interpretations thereof exceed One Million One Hundred Six Two Hundred Eighty-three and 00/100 (\$1,106,283.00).

Section 5. Time of Performance

Time for performance of the Scope of Services under this Agreement shall begin with receipt of the Notice to Proceed and end no later than December 31, 2022. Contractor shall complete the tasks described in the Scope of Services, within this time or within such additional time as may be extended by the County.

Section 6. Modifications and Waivers

6.1 The parties may not amend or waive this Agreement, except by a written agreement executed by both parties.

6.2 No failure or delay in exercising any right or remedy or requiring the satisfaction of any condition under this Agreement, and no course of dealing between the parties, operates as a waiver or estoppel of any right, remedy, or condition.

6.3 The rights and remedies of the parties set forth in this Agreement are not exclusive of, but are cumulative to, any rights or remedies now or subsequently existing at law, in equity, or by statute.

Section 7. Termination

7.1 Termination for Convenience – County may terminate this Agreement at any time upon forty-eight (48) hours written notice.

7.2 Termination for Default

7.2.1 County may terminate the whole or any part of this Agreement for cause in the following circumstances:

7.2.1.1 If Contractor fails to perform services within the time specified in the Scope of Services or any extension thereof granted by the County in writing;

7.2.1.2 If Contractor materially breaches any of the covenants or terms and conditions set forth in this Agreement or fails to perform any of the other provisions of this Agreement or so fails to make progress as to endanger performance of this Agreement in accordance with its terms, and in any of these circumstances does not cure such breach or failure to County's reasonable satisfaction within a period of ten (10) calendar days after receipt of notice from County specifying such breach or failure.

7.2.2 If, after termination, it is determined for any reason whatsoever that Contractor was not in default, or that the default was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the County in accordance with Section 7.1 above.

7.3 Upon termination of this Agreement, County shall compensate Contractor in accordance with Section 3, above, for those services which were provided under this Agreement prior to its termination and which have not been previously invoiced to County. Contractor's final invoice for said services will be presented to and paid by County in the same manner set forth in Section 3 above.

7.4 If County terminates this Agreement as provided in this Section, no fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to Contractor.

Section 8. Ownership and Reuse of Documents

All documents, data, reports, research, graphic presentation materials, etc., developed by Contractor as a part of its work under this Agreement, shall become the property of County upon completion of this Agreement, or in the event of termination or cancellation thereof, at the time of payment under Section 3 for work performed. Contractor shall promptly furnish all such data and material to County on request.

Section 9. Inspection of Books and Records

Contractor will permit County, or any duly authorized agent of County, to inspect and examine the books and records of Contractor for the purpose of verifying the amount of work performed under the Scope of Services. County's right to inspect survives the termination of this Agreement for a period of four years.

Section 10. Insurance

10.1 Prior to commencement of the Services, Contractor shall furnish County with properly executed certificates of insurance which shall evidence all insurance required and provide that such insurance shall not be canceled, except on 30 days' prior written notice to County. Contractor shall provide certified copies of insurance endorsements and/or policies if requested by County. Contractor shall maintain such insurance coverage from the time Services commence until Services are completed and provide replacement certificates, policies and/or endorsements for any such insurance expiring prior to completion of Services. Contractor shall obtain such insurance written on an Occurrence form (or a Claims Made form for Professional Liability insurance) from such companies having Best's rating of A/VII or better, licensed or approved to transact business in the State of Texas, and shall obtain such insurance of the following types and minimum limits:

10.1.1 Workers' Compensation insurance. Substitutes to genuine Workers' Compensation Insurance will not be allowed. Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.

10.1.2 Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.

10.1.3 Business Automobile Liability insurance with a combined Bodily Injury/Property Damage limit of not less than \$1,000,000 each accident. The policy shall cover liability arising from the operation of licensed vehicles by policyholder.

10.1.4 Professional Liability insurance may be made on a Claims Made form with limits not less than \$1,000,000.

10.2 County and the members of Commissioners Court shall be named as additional insured to all required coverage except for Workers' Compensation and Professional Liability. All Liability policies including Workers' Compensation written on behalf of Contractor shall contain a waiver of subrogation in favor of County and members of Commissioners Court.

10.3 If required coverage is written on a claims-made basis, Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the contract; and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time that work under the Agreement is completed.

Section 11. Indemnity

CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS COUNTY AGAINST LOSSES, LIABILITIES, CLAIMS, AND CAUSES OF ACTION, INCLUDING THE REIMBURSEMENT OF COUNTY'S REASONABLE ATTORNEYS FEES IN PROPORTION TO CONTRACTOR'S LIABILITY, ARISING FROM ACTIVITIES OF CONTRACTOR, ITS AGENTS, SERVANTS OR EMPLOYEES, PERFORMED UNDER THIS AGREEMENT THAT RESULT FROM THE NEGLIGENT ACT, INTENTIONAL TORT, ERROR, OR OMISSION OF CONTRACTOR OR ANY OF CONTRACTOR'S AGENTS, SERVANTS OR EMPLOYEES.

Section 12. Confidential and Proprietary Information

12.1 Contractor acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Agreement, be exposed to or acquire information that is confidential to County. Any and all information of any form obtained by Contractor or its employees or agents from County in the performance of this Agreement shall be deemed to be confidential information of County ("Confidential Information"). Any reports or other documents or items (including software) that result from the use of the Confidential Information by Contractor shall be treated with respect to confidentiality in the same manner as the Confidential Information. Confidential Information shall be deemed not to include information that (a) is or becomes (other than by disclosure by Contractor) publicly known or is contained in a publicly available document; (b) is rightfully in Contractor's possession without the obligation of nondisclosure prior to the time of its disclosure under this Agreement; or (c) is independently developed by employees or agents of Contractor who can be shown to have had no access to the Confidential Information.

12.2 Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to County hereunder, and to advise each of its employees and agents of their obligations to keep Confidential Information confidential. Contractor shall use its best efforts to assist County in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limitation of the foregoing, Contractor shall advise County

immediately in the event Contractor learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Agreement and Contractor will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or Contractor against any such person. Contractor agrees that, except as directed by County, Contractor will not at any time during or after the term of this Agreement disclose, directly or indirectly, any Confidential Information to any person, and that upon termination of this Agreement or at County's request, Contractor will promptly turn over to County all documents, papers, and other matter in Contractor's possession which embody Confidential Information.

12.3 Contractor acknowledges that a breach of this Section, including disclosure of any Confidential Information, or disclosure of other information that, at law or in equity, ought to remain confidential, will give rise to irreparable injury to County that is inadequately compensable in damages. Accordingly, County may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies that may be available. Contractor acknowledges and agrees that the covenants contained herein are necessary for the protection of the legitimate business interest of County and are reasonable in scope and content.

12.4 Contractor in providing all services hereunder agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.

12.5 Contractor expressly acknowledges that County is subject to the Texas Public Information Act, TEX. GOV'T CODE ANN. §§ 552.001 *et seq.*, as amended, and notwithstanding any provision in the Agreement to the contrary, County will make any information related to the Agreement, or otherwise, available to third parties in accordance with the Texas Public Information Act. Any proprietary or confidential information marked as such provided to County by Consultant shall not be disclosed to any third party, except as directed by the Texas Attorney General in response to a request for such under the Texas Public Information Act, which provides for notice to the owner of such marked information and the opportunity for the owner of such information to notify the Attorney General of the reasons why such information should not be disclosed.

Section 13. Independent Contractor

13.1 In the performance of work or services hereunder, Contractor shall be deemed an independent contractor, and any of its agents, employees, officers, or volunteers performing work required hereunder shall be deemed solely as employees of contractor or, where permitted, of its subcontractors.

13.2 Contractor and its agents, employees, officers, or volunteers shall not, by performing work pursuant to this Agreement, be deemed to be employees, agents, or servants of County and shall not be entitled to any of the privileges or benefits of County employment.

Section 14. Notices

14.1 Each party giving any notice or making any request, demand, or other communication (each, a "Notice") pursuant to this Agreement shall do so in writing and shall use one of the following methods of delivery, each of which, for purposes of this Agreement, is a writing: personal delivery, registered or certified mail (in each case, return receipt requested and postage prepaid), or nationally recognized overnight courier (with all fees prepaid).

14.2 Each party giving a Notice shall address the Notice to the receiving party at the address listed below or to another address designated by a party in a Notice pursuant to this Section:

County: Fort Bend County Engineering Department
Attn: County Engineer
301 Jackson Street
Richmond, Texas 77469

With a copy to: Fort Bend County
Attn: County Judge
401 Jackson Street, 1st Floor
Richmond, Texas 77469

Contractor: Zarinkelk Engineering Services, Inc.
Attn: Giti Zarinkelk, President
617 Caroline Street, #2
Houston, Texas 77002

14.3 A Notice is effective only if the party giving or making the Notice has complied with subsections 14.1 and 14.2 and if the addressee has received the Notice. A Notice is deemed received as follows:

14.3.1 If the Notice is delivered in person, or sent by registered or certified mail or a nationally recognized overnight courier, upon receipt as indicated by the date on the signed receipt.

14.3.2 If the addressee rejects or otherwise refuses to accept the Notice, or if the Notice cannot be delivered because of a change in address for which no Notice was given, then upon the rejection, refusal, or inability to deliver.

Section 15. Compliance with Laws

Contractor shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations.

When required by County, Contractor shall furnish County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

Section 16. Standard of Care

Contractor represents shall perform the Services to be provided under this Agreement with the professional skill and care ordinarily provided by competent engineers practicing under the same or similar circumstances and professional license. Further, Contractor shall perform the Services as expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer.

Section 17. Assignment

17.1 Neither party may assign any of its rights under this Agreement, except with the prior written consent of the other party. That party shall not unreasonably withhold its consent. All assignments of rights are prohibited under this subsection, whether they are voluntarily or involuntarily, by merger, consolidation, dissolution, operation of law, or any other manner.

17.2 Neither party may delegate any performance under this Agreement.

17.3 Any purported assignment of rights or delegation of performance in violation of this Section is void.

Section 18. Applicable Law

The laws of the State of Texas govern all disputes arising out of or relating to this Agreement. The parties hereto acknowledge that venue is proper in Fort Bend County, Texas, for all legal actions or proceedings arising out of or relating to this Agreement and waive the right to sue or be sued elsewhere. Nothing in the Agreement shall be construed to waive the County's sovereign immunity.

Section 19. Successors and Assigns

County and Contractor bind themselves and their successors, executors, administrators and assigns to the other party of this Agreement and to the successors, executors, administrators and assigns of the other party, in respect to all covenants of this Agreement.

Section 20. Third Party Beneficiaries

This Agreement does not confer any enforceable rights or remedies upon any person other than the parties.

Section 21. Severability

If any provision of this Agreement is determined to be invalid, illegal, or unenforceable, the remaining provisions remain in full force, if the essential terms and conditions of this Agreement for each party remain valid, binding, and enforceable.

Section 22. Publicity

Contact with citizens of Fort Bend County, media outlets, or governmental agencies shall be the sole responsibility of County. Under no circumstances whatsoever, shall Contractor release any material or information developed or received in the performance of the Services hereunder without the express written permission of County, except where required to do so by law.

Section 23. Captions

The section captions used in this Agreement are for convenience of reference only and do not affect the interpretation or construction of this Agreement.

Section 24. Conflict

In the event there is a conflict between this Agreement and the attached exhibits, this Agreement controls.

Section 25. Certain State Law Requirements for Contracts

25.1 Agreement to Not Boycott Israel Chapter 2270 Texas Government Code: By signature below, Contractor verifies Contractor does not boycott Israel and will not boycott Israel during the term of this Agreement.

25.2 Texas Government Code Section 2251.152 Acknowledgment: By signature below, Contractor represents pursuant to Section 2252.152 of the Texas Government Code, that Contractor is not listed on the website of the Comptroller of the State of Texas concerning the listing of companies that are identified under Section 806.051, Section 807.051 or Section 2253.153.

{EXECUTION PAGE FOLLOWS}

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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 last party hereto.

FORT BEND COUNTY

ZARINKELK ENGINEERING SERVICES, INC.

Robert E. Hebert, County Judge

Giti Zarinkelk, President

Date

Date

ATTEST:

Laura Richard, County Clerk

APPROVED:

Richard W. Stolleis, P.E., County Engineer

APPROVED AS TO LEGAL FORM:

LaNetra S. Lary, Assistant County Attorney

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

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EXHIBIT A



617 Caroline Street #2
Houston, Texas 77002
Phone 832-242-2426
Fax 832-242-2445

May 18, 2018

Mark Dessens, P.E.
Project Manager
SPI
11767 Katy Freeway, Suite 900
Houston, Texas 77079

**RE: Fulshear-Gaston Road from FM723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 17312**

Dear Mr. Dessens:

Attached please find our fee proposal for the design of Fulshear-Gaston Road from FM723 to FM 359. Also attached is our level of effort spreadsheet. Our proposed fee including all subs for Phase I and Phase II of the project is \$1,106,283.

Please call me at 832-242-2426 if you have any questions. We look forward to working with SPI and Fort Bend County on this project.

Sincerely,

A handwritten signature in blue ink that reads "Giti Zarinkelk". The signature is fluid and cursive, with the first name "Giti" and last name "Zarinkelk" clearly distinguishable.

Giti Zarinkelk, P.E.

Enclosures: Scope of Services
LOE

SCOPE OF SERVICES

Fulshear-Gaston Road from FM723 to FM 359 Fort Bend Mobility Bond 2017; Project Number 17312

PROJECT UNDERSTANDING

The proposed project includes approximately 1.6 miles of 4-lane concrete curb and gutter boulevard section roadway with storm sewer extending Fulshear-Gaston Road from FM 723 to FM 359. The project will include modification of signal at FM 723 intersection.

SCOPE OF SERVICES

This scope includes a preliminary design, and final design. Guidelines and overall scope of services are outlined in the 2017 Fort Bend County Mobility Bond Program Summary of Design Process document.

Following are the basic service phases that will be required for this project:

Preliminary Design

The preliminary design will include the following:

- Coordination with sub consultants, private and public entities
- Field investigations along the preliminary alignment
- Development of a typical section
- Drainage study
- Drainage impact analysis and coordination (described below)
- Preparation of preliminary cost estimate
- Preparation of report and exhibits
- Site triangles
- 30% design plan set

Design

The design phase will include the following:

- Design Drawings including: cover sheet; general notes; index; overall layout; P&P drawings at 20 scale; typical sections; drainage areas; drainage improvements; advanced warning, traffic control; signal modification, signing and stripping; SWPPP; roadway cross sections.
- Design drawing submittals at 70 percent, 95 percent and final
- An opinion of the probable construction cost will be prepared in a format as directed
- Technical specifications utilizing provided Fort Bend County table of contents and bid documents. The bid sheet will be in Excel format.

Survey services will include establishment of control, property research, a route topographic survey, and coordination with pipeline companies.

Geotechnical services will include filed explorations at 18 locations with borings 5 feet in depth and 8 location with borings 15 feet depth, laboratory testing of gathered samples, engineering analysis and geotechnical recommendations for the roadway, storm drain facilities.

Signal design services will include signal modification design at the Fulshear-Gaston and FM 723 intersection.

Public/private utility design, coordination, pipeline coordination/design, quantity sheet, Environmental services, Design phase during construction, Construction phase services, Land acquisition, permitting are not included with this effort.

Plans will be done in Microstation format. Land acquisition services are not included.

SCHEDULE

The Preliminary Design Report will be submitted for review within 120 days from NTP. Phase II final design will take 150 days not including County review time.

FEE BREAKDOWN

The fees for Phase I and Phase II will be paid on a lump sum basis. The following table gives a breakdown of the total fee by phase:

Phase	Fee
Phase I	\$411,801
Phase II	\$573,969
Surveying	\$84,410
Geotechnical	\$19,868
Signal	\$16,235
Total	\$1,106,283

Fulshear-Gaston Road from FM 723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM A (SUB CONSULTANT SERVICES)										
PROPOSED RIGHT-OF-WAY SURVEY										
ROW SURVEY										\$ -
(COST PLUS 10 PERCENT)										\$ -
TOTAL ITEM A										\$ -
ITEM B (SUB CONSULTANT SERVICES)										
TOPOGRAPHIC SURVEYING										
TOPOGRAPHIC SURVEY										\$ 84,410.00
with Coordination										\$ -
TOTAL ITEM B										\$ 84,410.00
ITEM C (SUB CONSULTANT SERVICES)										
GEOTECHNICAL EXPLORATION										
GEOTECHNICAL EXPLORATION										\$ 19,868.00
with Coordination										\$ -
TOTAL ITEM C										\$ 19,868.00
ITEM D (BASIC SERVICES PHASE I)										
FIELD VISIT / COORDINATION / MEETINGS										
SUBCONSULTANT COORDINATION	6	12	24		12		12		8	74
COLLECT AND REVIEW EXISTING DATA	1	6	16		16				8	47
CONDUCT FIELD RECONNAISSANCE		8	16	0	12	12	0			48
Preliminary ROW Investigation		8	8		8	12	4	8		48
Utility Coordination (map request only)		8	16		0	0	0		0	24
Pipeline Coordination(Map request only)		8	16		0	0	0		0	24
Progress Meetings-subs-client		45	40		16				16	117
HOURS SUB-TOTALS	7	95	136	0	64	24	16	8	32	382
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$735.00	\$8,075.00	\$8,840.00	\$0.00	\$3,200.00	\$1,200.00	\$560.00	\$680.00	\$800.00	\$ 24,090.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$2,205.00	\$24,225.00	\$26,520.00	\$0.00	\$9,600.00	\$3,600.00	\$1,680.00	\$2,040.00	\$2,400.00	\$ 72,270.00
TOTAL ITEM D										\$ 72,270.00

Fulshear-Gaston Road from FM 723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM E (BASIC SERVICES PHASE I)										
SITE TRIANGLES, FINALIZE ALIGNMENT & TYPICAL SECTION										
SITE TRIANGLES		8	44		44	48	72	2		
Adjust Preliminary Alignment		0	0		0	0	0	0		
Typical Section		12	24		24	24	45	2		
HOURS SUB-TOTALS	0	20	68	0	32	72	117	4	0	313
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$0.00	\$1,700.00	\$4,420.00	\$0.00	\$1,600.00	\$3,600.00	\$4,095.00	\$340.00	\$0.00	\$ 15,755.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$0.00	\$5,100.00	\$13,260.00	\$0.00	\$4,800.00	\$10,800.00	\$12,285.00	\$1,020.00	\$0.00	\$ 47,265.00
TOTAL ITEM E										\$ 47,265.00
ITEM F (BASIC SERVICES PHASE I)										
DRAINAGE STUDY AND NO IMPACT ANALYSES										
Drainage Criteria and models		16		32	16		8			
Size outfall Culvert		8		24	24		8	0		
HEC- model		8		24	40		8	2		
hydraulic analysis		4		8	24		2	0		
Drainage Study Drawings		4		12	16		4	2		
Prepare Drainage Study		16		80	48		32	4	48	
HOURS SUB-TOTALS	0	56	0	180	168	0	62	8	48	522
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$0.00	\$4,760.00	\$0.00	\$11,700.00	\$8,400.00	\$0.00	\$2,170.00	\$680.00	\$1,200.00	\$ 28,910.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$0.00	\$14,280.00	\$0.00	\$35,100.00	\$25,200.00	\$0.00	\$6,510.00	\$2,040.00	\$3,600.00	\$ 86,730.00
TOTAL ITEM F										\$ 86,730.00
ITEM G (BASIC SERVICES PHASE I)										
PRELIMINARY OPINION OF PROBABLE COST										
HOURS SUB-TOTALS	1	4	16	0	48		0	2		71
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$105.00	\$340.00	\$1,040.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$170.00	\$0.00	\$ 4,055.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$315.00	\$1,020.00	\$3,120.00	\$0.00	\$7,200.00	\$0.00	\$0.00	\$510.00	\$0.00	\$ 12,165.00
TOTAL ITEM G										\$ 12,165.00

Fulshear-Gaston Road from FM 723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM H (BASIC SERVICES PHASE I)										
PRELIMINARY DESIGN REPORT										
(30% DRAWINGS NOT INCLUDED HERE)										
HOURS SUB-TOTALS	1	8	40	8	16	2	24	2	16	117
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$105.00	\$680.00	\$2,600.00	\$520.00	\$800.00	\$100.00	\$840.00	\$170.00	\$400.00	\$ 6,215.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$315.00	\$2,040.00	\$7,800.00	\$1,560.00	\$2,400.00	\$300.00	\$2,520.00	\$510.00	\$1,200.00	\$ 18,645.00
TOTAL ITEM H										\$ 18,645.00
ITEM I (BASIC SERVICES PHASE II)										
DESIGN DRAWINGS (30% TO PHASE I)										
(30% TO BE INCLUDED WITH PRELIMINARY DESIGN REPORT)										
COVER, GENERAL NOTES, INDEX	0	8	16	24	24	48	96	2		
TYPICAL SECTIONS		8	16	24	24	48	96	2		
OVERALL LAYOUT		12	24	24	24	48	80	2		
QUANTITIES		0	0	0	0	0	0	0		
SURVEY CONTROL MAPS		4	8		8	8	20	2		
DRAINAGE AREA MAPS & RUNOFF CALCULATIONS		8	24	96	36	36	96	2		
MITIGATION DESIGN		8	24	96	96	96	96	2		
INLINE DETENTION IMPROVEMENTS		8	24	96	96	96	96	2		
SUPER ELEVATION DESIGN		0	0		0	0	0	0		
PLAN AND PROFILES		40	112	36	160	48	324	6		
COORDINATION WITH PIPELINE COMPANIES, UTILITIES		0	0	0	0	0	0	0		
SITE TRIANGLES		0	0		0	0	0	0		
CROSS CULVERT OUTFALL DESIGN		8	24	48	96	96	96	2		
STRIPPING AND SIGNAGE		8	24		24	48	96	2		
SWPPP		8	24	48	48	48	96	2		
STANDARD DETAILS		8	24	24	24	48	72	2		
GEO PAC CROSS SECTIONS		24	36		64	64	160	4		
HOURS SUB-TOTALS	0	152	380	516	724	732	1424	4	0	3,932
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$0.00	\$12,920.00	\$24,700.00	\$33,540.00	\$36,200.00	\$36,600.00	\$49,840.00	\$340.00	\$0.00	\$ 194,140.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	\$ 27.00
TOTAL LABOR COSTS	\$0.00	\$38,760.00	\$74,100.00	\$100,620.00	\$108,600.00	\$109,800.00	\$149,520.00	\$1,020.00	\$0.00	\$ 582,420.00
TOTAL ITEM I										\$ 582,420.00

Fulshear-Gaston Road from FM 723 to FM 359

Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM K (SUB CONSULTANT SERVICES)										
TRAFFIC CONTROL, ADV WARNING										
HOURS SUB-TOTALS	0	8	60		96	96	160	4		424
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$0.00	\$680.00	\$3,900.00	\$0.00	\$4,800.00	\$4,800.00	\$5,600.00	\$340.00	\$0.00	\$ 20,120.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$0.00	\$2,040.00	\$11,700.00	\$0.00	\$14,400.00	\$14,400.00	\$16,800.00	\$1,020.00	\$0.00	\$ 60,360.00
TOTAL ITEM K										\$ 60,360.00
ITEM L (SUB CONSULTANT SERVICES)										
TRAFFIC SIGNAL MODIFICATION										
TRAFFIC SIGNAL Design modification										\$ 16,235.00
with Coordination										\$ -
TOTAL ITEM L										\$ 16,235.00

Fulshear-Gaston Road from FM 723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
ITEM N (BASIC SERVICES PHASE II)										
OPINION OF PROBABLE CONSTRUCTION COST										
HOURS SUB-TOTALS	1	8	24		48	2	16	2		101
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$105.00	\$680.00	\$1,560.00	\$0.00	\$2,400.00	\$100.00	\$560.00	\$170.00	\$0.00	\$ 5,575.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$315.00	\$2,040.00	\$4,680.00	\$0.00	\$7,200.00	\$300.00	\$1,680.00	\$510.00	\$0.00	\$ 16,725.00
TOTAL ITEM N										\$ 16,725.00
ITEM O (BASIC SERVICES PHASE II)										
PROJECT MANUAL, SPECIFICATION OUTLINE & Unit PRICE FORM										
HOURS SUB-TOTALS	1	24	96	0	96	0	0	2	8	227
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$105.00	\$2,040.00	\$6,240.00	\$0.00	\$4,800.00	\$0.00	\$0.00	\$170.00	\$200.00	\$ 13,555.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$315.00	\$6,120.00	\$18,720.00	\$0.00	\$14,400.00	\$0.00	\$0.00	\$510.00	\$600.00	\$ 40,665.00
TOTAL ITEM O										\$ 40,665.00
ITEM P (BASIC SERVICES PHASE II)										
SUBMITTALS AT 70, AND 95% AND FINAL										
HOURS SUB-TOTALS	1	24	48		80	60	80	6	24	323
LABOR RATE PER HOUR	\$105.00	\$85.00	\$65.00	\$65.00	\$50.00	\$50.00	\$35.00	\$85.00	\$25.00	
DIRECT LABOR COSTS	\$105.00	\$2,040.00	\$3,120.00	\$0.00	\$4,000.00	\$3,000.00	\$2,800.00	\$510.00	\$600.00	\$ 16,175.00
JOB MULTIPLIER	3	3	3	3	3	3	3	3	3	
TOTAL LABOR COSTS	\$315.00	\$6,120.00	\$9,360.00	\$0.00	\$12,000.00	\$9,000.00	\$8,400.00	\$1,530.00	\$1,800.00	\$ 48,525.00
										\$ 48,525.00
TOTAL ITEM P										\$ 48,525.00

Fulshear-Gaston Road from FM 723 to FM 359

Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
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Fulshear-Gaston Road from FM 723 to FM 359
Fort Bend Mobility Bond 2017; Project Number 3-12

TASK DESCRIPTION	Principal	Project Manager	Senior Engineer	Sen. Hyd. Engineer or Structural Engineer	Design Engineer	Senior Designer/	CADD Operator Technician	QA/QC Review	Clerical	Total Labor Hours & Costs
SUB CONSULTANTS										\$ 120,513.00
PRELIMINARY ENGINEERING (+ 30% DESIGN PLANS)										\$ 411,801.00
FINAL DESIGN (- 30% DESIGN PLANS)										\$ 573,969.00
ENGINEERING SERVICES IN CONSTRUCTION										\$ -
TOTAL ALL SERVICES										\$ 1,106,283.00