STATE OF TEXAS

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**COUNTY OF FORT BEND** 

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# 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 TEDSI Infrastructure Group, 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 construction of a new SH 99 southbound frontage road from north of Cinco Ranch Boulevard to Westheimer Parkway for the Grand Parkway (SH 99) Frontage Road — Segment 1 Project, Number 17303, 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 engineering, roadway schematic development, drainage studies, and final PS&E preparation for the project as described in Contractor's Proposal dated May 18, 2018 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 seven hundred ninety-eight thousand six hundred fifty-five dollars and 98/100 (\$798,655.98) 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 seven hundred ninety-eight thousand six hundred fifty-five dollars and 98/100 (\$798,655.98) 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 seven hundred ninety-eight thousand six hundred fifty-five dollars and 98/100 (\$798,655.98).

#### **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

- 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

Fort Bend County

Attn: County Judge

401 Jackson Street, 1<sup>st</sup> Floor Richmond, Texas 77469

Contractor:

TEDSI Infrastructure Group, Inc.

Attn: Jules M. Morris, Jr., Vice President

738 Highway 6 South, Suite 430

Houston, Texas 77079

- 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.

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

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

Grady Prestage, Commissioner, Precinct 2

TEDSI INFRASTRUCTURE GROUP, INC

June 12, 2018	NEIONEROW	6/04/18
Date	Λ	Date
ATTEST:		
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Jama Keckard		

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

APPROVED AS TO LEGAL FORM:

Marcus D. Spencer, First Assistant County Attorney

# **AUDITOR'S CERTIFICATE**

I hereby certify that funds are available in the amount of \$ 198 655, to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Ed Sturdivant, County Auditor

I:\Marcus\Grand Parkway (SH 99)\Segment 1 - 17303\Agreement - Pro Eng Svcs.GP Seg 1.TEDSI.docx.6/4/2018

# **EXHIBIT A**

Fax: (832) 619-1018

May 18, 2018

Mr. Richard W. Stolleis, P.E. Fort Bend County Engineer 301 Jackson Street, 4th Floor Richmond. Texas 77469

Re: Fort Bend County 2017 Mobility Bond Projects

SH 99 Grand Parkway Southbound Frontage Road Engineering Proposal

Cinco Ranch Blvd to Westheimer Parkway

Dear Mr. Stolleis:

TEDSI Infrastructure Group (TEDSI) appreciates the opportunity to submit for your approval this fee proposal, scope of services and schedule for the above referenced project.

TEDSI will serve as Design Lead for our team on this project. Our design effort will a team of professional sub-consultants that together will provide Field Surveys, Geotechnical Engineering, Right of Way Mapping, Roadway Schematic Development, Drainage Studies, and final PS&E preparation.

Attached please find our Fee Proposal (Attachment A), Scope of Services (Attachment B), and Schedule of Milestone Submittals (Attachment C) for this project.

In the event of questions or if you request additional information, please contact me at 832/619-1000. We are very pleased to be at your service.

Sincerely,

**TEDSI INFRASTRUCTURE GROUP** 

Jules M. (Jay) Morris, Jr., P.E.

Vice President

WORK ELEMENT	Engineering Fees 05/18/2018
Advanced Planning/Preliminary Engineering	
Schematic Design (TEDSI)	\$70,986.02
Traffic Studies (TEDSI)	\$9,032.14
Drainage Impact Report (Sirrus)	\$45,473.00
Management (TEDSI)	\$64,121.70
Management & Final PS&E Engineering	
Roadway Design (TEDSI)	\$97,319.98
Drainage Design (Sirrus)	\$68,215.50
SW3P (TEDSI)	\$31,712.33
Traffic - SIgnals (TEDSI)	\$34,057.22
Traffic - Signing and Pavement Markings (TEDSI)	\$30,653.99
Misc and TCP (TEDSI)	\$75,524.18
Management (TEDSI)	\$91,624.22
Extras	
Survey (Weisser)	\$64,570.00
ROW Parcel Mapping (Weisser)	\$15,000.00
Geotechnical (Geotech)	\$54,956.50
Utility Coordination (TEDSI)	\$0.00
Direct Expenses	\$5,777.50
Bid/Construction Phase Services	
Post Design Services (TEDSI)	\$39,631.70
Total Management & Engineering Fees	\$798,655.98

# **Notes**

1. ROW Mapping assumes parcel surveying of ten (10) parcels.

FEE SCHEDULE (TEDSI)
METHOD OF PAYMENT: LUMP SUM

PRIME PROVIDER NAME: TEDSI CONTRACT NUMBER: PROJECT NAME: SH99 SO PROJECT LIMITS: Cinco R SH99 Southbound Frontage Road Cinco Ranch Blvd. to Westheimer Parkway

	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS
										and the same	
ROUTE & DESIGN STUDIES (FC 110)	Contract Con	EMPRISON CO.			•	40	40	2	20	4	NIA
DATA COLLECTION	2		0		0	16	16	2	36	1	N/A
DEVELOP BASE MAPS	1		2		16	0	20	1	40		N/A
ANALYZE EXISTING CONDITIONS	1		4		8	0	12	2	27		N/A
DESIGN CONCEPT CONFERENCE (FORM & MTG)	2		0		4	4	0	2	12	12	N/A
GEOMETRIC DESIGN SCHEMATICS	8		0	32	64	0	0	2	106	2	N/A
TYPICAL SECTIONS	1		2		0	0	8	2	13	6/1	N/A
ENVIRONMENTAL CONSTRAINTS (DEC)	0		0		0	0	0	0	0	1	N/A
CONCEPTUAL DRAINAGE DESIGN (by SIRRUS)	0		0		0	0	0	0	0	1	N/A
ROW REQUIREMENTS	2	Charles This is	4		0	8	16	2	32	1	N/A
SIGNAL WARRANTS / TRAFFIC STUDIES (CINCO RANCH AND WESTHEIMER PKWY)	2		12		20	20	4	8	66	1	N/A
BICYCLE AND PEDESTRIAN ACCOMODATIONS	2		4	The state of the s	0	8	12	2	28	1	N/A
CROSS SECTIONS	2		4		12	20	0	2	40	1	N/A
PRELIMINARY CONSTRUCTION SEQUENCE	1		4	JULIUS PERSONAL PROPERTY	0	12	0	2	19	1	N/A
PRELIMINARY COST ESTIMATE	1	Control of the Control	2		0	8	4	1	16	1	N/A
ENGINEERING SUMMARY REPORT	1		12		0	6	4	1	24	1	N/A
DETERMINATION OF DESIGN EXCEPTIONS/WAIVERS	2		8		8	0	0	2	20	1	20
DETERMINATION OF DESIGN EXCEPTIONS/WAIVERS	-									-	
HOURS SUB-TOTALS	28	0	58	32	132	102	96	31	479		
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125,80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$7,045.08	\$0.00	\$10,664.46	\$4,954.88	\$17,458.32	\$12,831.60	\$9,909.12	\$2,900.05	\$65,763.51		
						1,000					
SUBTOTAL (FC 110)								-	\$65,763.51		
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TASK DESCRIPTION			ENGINEER	DESIGNER	ENGINEER		OPERATOR	OLLINIOAL	LABOR HRS.	DWGS	PER SHEE
	MANAGER	ENGINEER	ENGINEER	DESIGNER	TECH		OPERATOR	100	& COSTS	DVVGS	PER SHEE
					TECH				& CUS15	-	
ENVIRONMENTAL STUDIES & PUBLIC INVOLVEMENT (FC 120)											
PROVIDE EXHIBITS AND DATA FOR ENVIRONMENTAL STUDY	2	0	12	0	20	20	0	1	55	N/A	N/A
ROVIDE EXHIBITS AND DATA FOR ENVIRONMENTAL STOUT	2	0	12		20	20			- 00	107	10/4
HOURS SUB-TOTALS	2	0	12	0	20	20	0	1	55		
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$503.22	\$0.00	\$2,206,44	\$0.00	\$2,645.20	\$2,516.00	\$0.00	\$93.55	\$7,964.41		
				-	January - I						
SUBTOTAL (FC120)									\$7,964.41		
TASK DESCRIPTION	PROJECT	SENIOR	PROJECT	PROJECT	SENIOR	EIT	CADD	CLERICAL	TOTAL	NO OF	LABOR HE
TASK DESCRIPTION	MANAGER	ENGINEER	ENGINEER	DESIGNER	ENGINEER		OPERATOR	ozz.nonz	LABOR HRS.	DWGS	PER SHE
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				0		8	0	1	22	N/A	N/A
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ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS)	1	UNITED BOX		TA-ANS	8			1		N/A	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS	1	0	4	0	8	8	0	1	22	N/A	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR	1 \$251.61	0 \$225.80	4 \$183.87	0 \$154.84	8 \$132.26	8 \$125.80	0 \$103.22	\$93.55	22	N/A	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR	1	0	4	0	8	8	0			N/A	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS)  HOURS SUB-TOTALS  CONTRACT RATE PER HOUR  TOTAL LABOR COSTS	1 \$251.61	0 \$225.80	4 \$183.87	0 \$154.84	8 \$132.26	8 \$125.80	0 \$103.22	\$93.55	\$3,145.12	N/A	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR TOTAL LABOR COSTS	1 \$251.61	0 \$225.80	4 \$183.87	0 \$154.84	8 \$132.26	8 \$125.80	0 \$103.22	\$93.55	22	N/A	N/A
RIGHT OF WAY DATA (FC 130)  ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS)  HOURS SUB-TOTALS  CONTRACT RATE PER HOUR  TOTAL LABOR COSTS  SUBTOTAL (FC130)  TASK DESCRIPTION	1 \$251.61	0 \$225.80	4 \$183.87	0 \$154.84	8 \$132.26	8 \$125.80	0 \$103.22	\$93.55	\$3,145.12	N/A NO OF	N/A
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR TOTAL LABOR COSTS	1 \$251.61 \$251.61 PROJECT	0 \$225.80 \$0,00	4 \$183.87 \$735.48 PROJECT	0 \$154.84 \$0.00	8 \$132.26 \$1,058.08	\$ \$125.80 \$1,006.40	\$103.22 \$0,00	\$93.55 \$93.55	\$3,145.12 \$3,145.12		
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR FOTAL LABOR COSTS SUBTOTAL (FC130)	1 \$251.61 \$251.61	\$225.80 \$0,00	\$183.87 \$735.48	0 \$154.84 \$0.00	8 \$132.26 \$1,058.08 SENIOR	\$ \$125.80 \$1,006.40	0 \$103.22 \$0.00	\$93.55 \$93.55	\$3,145.12 \$3,145.12 TOTAL	NO OF	LABOR H
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS) HOURS SUB-TOTALS CONTRACT RATE PER HOUR TOTAL LABOR COSTS SUBTOTAL (FC130)	1 \$251.61 \$251.61 PROJECT	0 \$225.80 \$0,00	4 \$183.87 \$735.48 PROJECT	0 \$154.84 \$0.00	8 \$132.26 \$1,058.08 SENIOR ENGINEER	\$ \$125.80 \$1,006.40	0 \$103.22 \$0.00	\$93.55 \$93.55	\$3,145.12 \$3,145.12 TOTAL LABOR HRS.	NO OF	LABOR H
HOURS SUB-TOTALS CONTRACT RATE PER HOUR TOTAL LABOR COSTS SUB-TOTAL (FC130)  TASK DESCRIPTION  PROJECT MANAGEMENT (FC 145)	1 \$251.61 \$251.61 \$251.61 PROJECT MANAGER	0 \$225.80 \$0,00	4 \$183.87 \$735.48 PROJECT	0 \$154.84 \$0.00	8 \$132.26 \$1,058.08 SENIOR ENGINEER	\$ \$125.80 \$1,006.40	0 \$103.22 \$0.00	\$93.55 \$93.55 CLERICAL	22 \$3,145.12 \$3,145.12 TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HI PER SHEI
ROW DELINEATION (REVIEW SURVEY PROVIDED BY OTHERS)  HOURS SUB-TOTALS  CONTRACT RATE PER HOUR  TOTAL LABOR COSTS  SUBTOTAL (FC130)  TASK DESCRIPTION	1 \$251.61 \$251.61 PROJECT	0 \$225.80 \$0,00	4 \$183.87 \$735.48 PROJECT	0 \$154.84 \$0.00	8 \$132.26 \$1,058.08 SENIOR ENGINEER	\$ \$125.80 \$1,006.40	0 \$103.22 \$0.00	\$93.55 \$93.55	\$3,145.12 \$3,145.12 TOTAL LABOR HRS.	NO OF	LABOR H

SUB-CONSULTANT MANAGEMENT	96				DE COMPANY OF			12	108	N/A	N/A
IOLIDO GUD TOTALO	160	80	0	0	0	0	0	62	302		
HOURS SUB-TOTALS CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55	302		10.000
FOTAL LABOR COSTS	\$40,257,60	\$18,064.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,800.10	\$64,121.70		
SUBTOTAL (FC150)									\$64,121.70		
TASK DESCRIPTION	PROJECT	SENIOR	PROJECT	PROJECT	SENIOR	EIT	CADD	CLERICAL	TOTAL	NO OF	LABOR HE
TAGE DESCRIPTION	MANAGER	ENGINEER	ENGINEER	DESIGNER	ENGINEER TECH	2	OPERATOR	GEERIONE	LABOR HRS. & COSTS	DWGS	PER SHE
	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	THE RESERVE AND PARTY AND	-	THE R. P. LEWIS CO., LANSING, Married World Co., Low, Low, Low, Low, Low, Low, Low, Low		The second second		The second secon			-

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SURVEYING (FC 150)				100 Jan 100							
SURVEYING (REVIEW SURVEY PROVIDED BY OTHERS)	1	0	4	0	8	8	0	1	22	N/A	N/A
HOURS SUB-TOTALS	1	0	4	0	8	8	0	1	22		
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$251.61	\$0.00	\$735.48	\$0.00	\$1,058.08	\$1,006.40	\$0.00	\$93.55	\$3,145.12		
SUBTOTAL (FC150)		1 10 2							\$3,145.12		

						-	479	\$65,763,51	
		100.000			1000			\$7,964,41	
			12000000	7 18 16 16 1		100	22	\$3,145.12	
							302	\$64,121.70	
							22	\$3,145.12	
							Section 15 Section 15		
							Land Control of the		
						T	880	\$144,139.86	
QUANTITY	RATE	UNIT							
								\$545.00	
								\$60.00	
								\$25.00	
			-					\$125.00	
			-					\$700.00	
			-					\$0.00	
			-					\$0.00	
4	\$650.00	EACH	-	+	_			\$2,600.00	
								- 12 Total - 12	
			The state of the s					\$4,055.00	
	QUANTITY  1,000 2 250 500 200 0 4	1,000 \$0,545 2 \$30,00 250 \$0,10 500 \$0,25 200 \$3,50 0 \$4,00 0 \$5,00	1,000 \$0.545 MI 2 \$30.00 EACH 250 \$0.10 EACH 500 \$0.25 EACH 200 \$3.50 SF 0 \$4.00 SHEET 0 \$5.00 EACH	1,000 \$0.545 MI 2 \$30.00 EACH 250 \$0.10 EACH 500 \$0.25 EACH 200 \$3.50 SF 0 \$4.00 SHEET 0 \$5.00 EACH	1,000 \$0.545 MI 2 \$30.00 EACH 250 \$0.10 EACH 500 \$0.25 EACH 200 \$3.50 SF 0 \$4.00 SHEET 0 \$5.00 EACH	1,000 \$0.545 MI  2 \$30.00 EACH  250 \$0.10 EACH  500 \$0.25 EACH  200 \$3.50 SF  0 \$4.00 SHEET  0 \$5.00 EACH	1,000 \$0.545 MI  2 \$30.00 EACH  250 \$0.10 EACH  500 \$0.25 EACH  200 \$3.50 SF  0 \$4.00 SHEET  0 \$5.00 EACH	Section   Sect	

SUBCONTRACTS:	CHARLES HOLD THE PARTY OF				Market State of the State of th
Sirrus Engineering (Hydrology/Hydraulics/Storm)					\$45,473.00
Weisser Engineering (Surveying)			2.4	THE RESERVE OF THE PARTY AND ADDRESS OF THE PA	\$79,570.00
Geotech Engineering and Testing (Geotech)					\$21,982.60
	Contraction of the contract	THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR		HOUSE STREET,	A STATE OF THE STA
SUBCONTRACT SUB-TOTAL	manufacture There is				\$147,025.60

2

SUMMARY	
TOTAL COSTS FOR PRIME ONLY(includes multiplier)	\$144,139.86
NON-SALARY (OTHER DIRECT EXPENSES)	\$4,055.00
SUBCONTRACTS (includes labor costs and direct expenses)	\$147,025.60
GRAND TOTAL	\$295,220.46

#### ATTACHMENT A FEE SCHEDULE (TEDSI) METHOD OF PAYMENT: LUMP SUM

PRIME PROVIDER NAME: TEDSI CONTRACT NUMBER: PROJECT NAME: SH99 So

SH99 Southbound Frontage Road Cinco Ranch Blvd. to Westheimer Parkway PROJECT LIMITS:

TASK DESCRIPTION	PROJECT	SENIOR	PROJECT	PROJECT	SENIOR	EIT	CADD	CLERICAL	TOTAL	NO OF	LABOR HRS
I ASK DESCRIPTION	MANAGER	ENGINEER	ENGINEER	DESIGNER	ENGINEER	CI.	OPERATOR	OLENIOAL	LABOR HRS.	DWGS	PER SHEET
	MANAGER	ENGINEER	ENGINEER	DESIGNER	TECH		OPERATOR		& COSTS	DWGG	PERSILEI
PROJECT MANAGEMENT (FC 145)											
PROGRESS REPORTS AND INVOICES	12		0			0		12	24	N/A	N/A
COORDINATION/ADMINISTRATION	40		0		talk and the sales are	0	2 P. J. St. W. L.	24	64	N/A	N/A
TXDOT DISTRICT DESIGN REVIEW (30%/60%/90%/95%)	8	10 Miles 10 Miles	0	100000000000000000000000000000000000000		8		0	16	N/A	N/A
DESIGN CONCEPT CONFERENCE (1 meeting)	4		4			4		0	12	N/A	N/A
DESIGN REVIEW MEETINGS (4 meetings with FBC/GEC)	8		0			8	0.00	0	16	N/A	N/A
DSRT (2 meetings)	4		8			8		0	20	N/A	N/A
PAVEMENT DESIGN CONFERENCE (1 meeting)	2		4			4		0	10	N/A	N/A
QUALITY CONTROL/ASSURANCE	0	120	0			0		0	120	N/A	N/A
SUB-CONSULTANT MANAGEMENT	100	120	0			0		24	124	N/A	N/A
MONTHLY PROGRESS MEETINGS (6 meetings)	12					24		12	48	N/A	N/A
MONTHLY PROGRESS MEETINGS (6 Ineetings)	12					2-7		12	40	1070	1475
HOURS SUB-TOTALS	190	120	16	0	0	56	0	72	454		1
CONTRACT RATE PER HOUR	\$251.61	\$225,80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93,55			
TOTAL LABOR COSTS	\$47,805.90	\$27,096.00	\$2,941.92	\$0.00	\$0.00	\$7,044.80	\$0.00	\$6,735.60	\$91,624.22		
TOTAL DABOR COSTS	447,000,00	\$21,000.00	V2,041.02	40.00	40.00	47,071.00	40.00	40,100,00	401,021,02		
SUBTOTAL (FC150)					EL TENTON		1 1 2 2 3 1 1		\$91,624.22		
SSET OTTAL (FOTO)					THE R. P. LEWIS CO., LANSING, MICH.	THE RESERVE THE PERSON NAMED IN	The state of the s				Control of
TASK DESCRIPTION	PROJECT	SENIOR	PROJECT	PROJECT	SENIOR	EIT	CADD	CLERICAL	TOTAL	NO OF	LABOR HRS
TACK BESCHIFTION	MANAGER	ENGINEER	ENGINEER	DESIGNER	ENGINEER		OPERATOR		LABOR HRS.	DWGS	PER SHEET
얼마 그 하다가 하는 그 그는 아이를 내려왔습니다.	WIAWAGER	LITORITEER	LINOINELIN	BEGIGIAER	TECH		or Erotroit		& COSTS	555	, Entonie
					TEOT				4 00010		
ROADWAY DESIGN CONTROLS (FC160)										-	
ROADWAY DESIGN	8		20		20	20	40	1	109	0	BESTERON BESTERON
	5		32		0	20	30	0	87	4	22
TYPICAL SECTIONS (5 EXIST/5 PROPOSED)	4		8		8	12	18	0	50	2	25
CROSS STREETS	1		0		10	0	0	0	11	0	23
CUT AND FILL QUANTITIES			10		20	40	40	1	121	5	24
ROADWAY PLAN AND PROFILE (SCALE: H 1"=100' V 1"=10')	10		4		10	16	16	0	48	2	24
CROSS STREET ROADWAY PLAN	2							1		2	
INTERSECTION LAYOUTS & GRADING	2		4		10	16	16		49		25
DRIVEWAY DETAIL AND SUMMARY	1		4		4	4	8	1	22	1	22
MISCELLANEOUS ROADWAY DETAILS	2		8		10	10	12	1	43	2	22
REMOVAL PLANS	1		4	The state of the s	0	24	40	0	69	5	14
EARTHWORK CROSS SECTIONS	2		6	Section 1997	40	0	40	1	89	5	18
ROADWAY STANDARDS	0		1		0	0	4	1	6	25	0
ROADWAY QUANTITY SHEETS	0		1		4	4	4	1	14	1	14
REMOVAL QUANTITY SHEETS	0		1		4	4	4	1	14	1	14
HOURS SUB-TOTALS	38	0	103	0	140	170	272	9	732	55	
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55	407.010.00		
TOTAL LABOR COSTS	\$9,561.18	\$0.00	\$18,938.61	\$0.00	\$18,516.40	\$21,386.00	\$28,075.84	\$841.95	\$97,319.98		
CURTOTAL (SO 100)						1			\$97,319.98		-
SUBTOTAL (FC 160)									\$97,319.90		
	DDO IFOT	CENTOD	PROJECT	PROJECT	SENIOR	EIT	CADD	CLERICAL	TOTAL	NO OF	LABOR HRS
	PROJECT	SENIOR ENGINEER	ENGINEER	DESIGNER	ENGINEER	CII	OPERATOR	CLERICAL	LABOR HRS.	DWGS	PER SHEET
TASK DESCRIPTION			ENGINEER	DESIGNER			OPERATOR			DWGS	PER SHEET
TASK DESCRIPTION	MANAGER	ENGINEER			TECH			Action to the second	& COSTS	The second second	
TASK DESCRIPTION	MANAGER	ENGINEER			TECH	-0-10-10-10-1			& COSTS	1	-
	MANAGER	ENGINEER			TECH				& COSTS		
DRAINAGE (FC161)		ENGINEER				0	0	0		0	
DRAINAGE (FC161) REVIEW DRAINAGE IMPACT ANALYSIS	8	ENGINEER	20		0	0	0	0	28	0	17
DRAINAGE (FC161)		ENGINEER				0 40 0	0 40 2	0 0		0 10 1	17 3

SW3P STANDARDS	0		1	Marine Marine	0	0	4	0	5	10	1
					Harris Street						1 5165
HOURS SUB-TOTALS	16	0	63	0	44	44	46	0	213	22	
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			Tariff The Control
TOTAL LABOR COSTS	\$4,025.76	\$0.00	\$11,583.81	\$0.00	\$5,819.44	\$5,535.20	\$4,748.12	\$0.00	\$31,712.33		TALL TO SERVICE
			Seat Subject								
SUBTOTAL (FC 161)					<b>计算机 1</b> 20			-11	\$31,712.33		No. of the New

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SIGNING, PVMT. MARKING, & SIGNAL (FC162)											
SIGNING AND PAVEMENT MARKING LAYOUTS (SCALE 1"=100')	10		20		40	40	60	2	172	7	25
SIGNING AND PAVEMENT MARKING DETAILS	1	THE STATE OF THE S	8		16	16	16	1	58	2	29
SIGNING AND PAVEMENT MARKING SUMMARY	0		2		6	4	2	1	15	1	15
SIGNING AND PAVEMENT MARKING STANDARDS	0	A CHARLES	0		1	6	6	1	14	12	1
TRAFFIC SIGNAL MODIFICATIONS	4		24		24	40	44	2	138	4	35
TRAFFIC SIGNAL DETAILS	2		12		12	24	24	1	75	2	38
TRAFFIC SIGNAL SUMMARIES	0	The state of the s	1		4	4	4	1	14	1	14
TRAFFIC SIGNAL STANDARDS	0		1		0	0	4	1	6	12	1
HOURS SUB-TOTALS	17	0	68	0	103	134	160	10	492	41	
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$4,277.37	\$0.00	\$12,503.16	\$0.00	\$13,622.78	\$16,857.20	\$16,515.20	\$935.50	\$64,711.21		
SUBTOTAL (FC 162)			30 130 130						\$64,711.21		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MISCELLANEOUS (ROADWAY) (FC 163)											
TITLE SHEET	0		1		4	4	0	0	9	1	9
INDEX SHEET	0		1		4	4	0	0	9	1	9
SOIL BORING LOGS (STORM SEWER AREA)	0		1		0	0	3	0	4	5	1
TRAFFIC CONTROL PLAN:											
TCP. DETOURS AND SEQUENCE OF CONSTRUCTION	1		4		4	4	8	4	25	1	25
OVERALL PHASING LAYOUT	1		4		4	4	8	2	23	1	23
ADVANCE SIGNING LAYOUTS	2		8		8	8	16	1	43	2	22
TCP PHASE 1	5		24		24	24	40	2	119	5	24
TCP PHASE 2	5		24		24	24	40	2	119	5	24
TCP DETAILS	2		8		8	8	16	1	43	2	22
TCP STANDARDS	0		1		0	0	6	1	8	20	0
SUMMARY SHEETS FOR TCP QUANTITIES	1		4		4	4	8	1	22	1	22
PRELIM TRAFFIC CONTROL WORKSHOP	4		0		8	8	0	1	21	0	N/A
COMPUTE & TABULATE QUANTITIES	0		1		4	4	0	1	10	0	N/A
CONSTRUCTION COST ESTIMATE (30%, 60%, 90%, 95% & FINAL)	0		4		16	16	0	4	40	0	N/A
GENERAL NOTES, SPECIFICATIONS AND PROVISIONS	0		1		4	4	0	1	10	0	N/A
CONSTRUCTION TIME DETERMINATION (SURETRAK)	0		8		8	8	0	1	25	0	N/A
PS&E PLAN SET SUBMITTAL (30%/60%/90%/95%/FINAL)	5		5			5	10	1	26		
HOURS SUB-TOTALS	26	0	99	0	124	129	155	23	556	44	
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$6,541.86	\$0.00	\$18,203.13	\$0.00	\$16,400.24	\$16,228.20	\$15,999.10	\$2,151.65	\$75,524.18		A CONTRACTOR
SUBTOTAL (FC 163)									\$75,524.18		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	PROJECT DESIGNER	SENIOR ENGINEER TECH	EIT	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET

CONSTRUCTION PHASE SERVICES (FC 309) - T&M											
ASSISTANCE AND SUPPORT DURING BIDDING	2	6	10						18		
PRECONSTRUCTION MEETINGS	2	4					THE PERSON NAMED IN		6		
FIELD MEETINGS		12	24						36		
WEEKLY PROGRESS MEETINGS	24		24						48		
SHOP DRAWING REVIEW		12	12						24		
RESPOND TO RFIs		12	12						24	War Stranger	
RESPOND TO GENERAL QUESTIONS		6	12		La contract deputies				18		
PROVIDE CLARIFICATIONS		6	12						18		
HOURS SUB-TOTALS	28	58	106	0	0	0	0	0	192	0	
CONTRACT RATE PER HOUR	\$251.61	\$225.80	\$183.87	\$154.84	\$132.26	\$125.80	\$103.22	\$93.55			
TOTAL LABOR COSTS	\$7,045.08	\$13,096.40	\$19,490.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,631.70		
SUBTOTAL (FC 163)									\$39,631.70		

DESCRIPTION							FC FC	BY FC
PROJECT MANAGEMENT (FC 145)		70.00		-		To Sales Co.	454	\$91,624.22
ROADWAY DESIGN CONTROLS (FC160)			Ann mile				732	\$97,319.98
DRAINAGE (FC161)							213	\$31,712.33
SIGNING, PVMT. MARKING, & SIGNAL (FC162)		The Marie State of the State of	THE REAL PROPERTY.				492	\$64,711.2
MISCELLANEOUS (ROADWAY) (FC 163)			1000				556	\$75,524.18
CONSTRUCTION PHASE SERVICES (FC 309) - T&M				122 750			192	\$39,631.70
SUBTOTAL LABOR EXPENSES							2639	\$400,523.62
								7
OTHER DIRECT EXPENSES	QUANTITY	RATE	UNIT		 	-		-
Mileage (# of miles) (0.550)	1,500	\$0.545	МІ					\$817.5
Courier Services	6	\$30.00	EACH					\$180.0
Photocopies 8.5x11	500	\$0.10	EACH					\$50.00
Photocopies 11x17	2,500	\$0.25	EACH					\$625.00
Plot (Color on Bond)	0	\$3.50	SF					\$0.00
Mylars 11x17	0	\$4.00	SHEET	120 18	THE REAL PROPERTY.			\$0.0
CD Archive	10	\$5.00	EACH					\$50.0
SUBTOTAL DIRECT EXPENSES				1				\$1,722.50

SUBCONTRACTS:							
Sirrus Engineering (Hydrology/Hydraulics/Storm)				1 27 12 19			\$68,215.50
Weisser Engineering (Surveying)			3 50		SA DE T		\$0.00
Geotech Engineering and Testing (Geotech)	attended to the						\$32,973.90
SUBCONTRACT SUB-TOTAL				TO THE			\$101,189.40

	SUMMARY
\$400.523.6	TOTAL COSTS FOR PRIME ONLY(includes multiplier)
\$1,722.5	NON-SALARY (OTHER DIRECT EXPENSES)
\$101,189.4	SUBCONTRACTS (includes labor costs and direct expenses)
\$503,435.5	GRAND TOTAL

#### **GENERAL DESCRIPTION OF PROJECT**

Fort Bend County proposes to design a new southbound frontage road and analyze intersection improvements along the west side of SH 99/Grand Parkway from Cinco Ranch Boulevard to Westheimer Parkway. The proposed project is approximately 0.7-miles in length. Efforts will be taken to develop design solutions within the existing right-of-way (ROW); however, additional ROW is anticipated.

The "Engineer" shall perform the work in accordance with current and applicable Fort Bend County and TxDOT regulations, policies, standards and guidelines. This proposal describes sources of data needed from other federal, state, and local governmental and quasi-governmental agencies and field investigations in order for the Engineer to complete their work.

Geotechnical and Drainage consultant to the Engineer on the Project is hereinafter referred to as the "Consultant".

# **PART 1 - PRELIMINARY ENGINEERING SERVICES**

# Function Code 110: Schematic Design and Development

## 1. Data Collection and Corridor Assessment

#### 1.1. Data Collection

The Engineer shall conduct field reconnaissance and collect data as necessary to complete the schematic design. Data shall include the following information.

- Design data from record drawings of existing and proposed facilities
- Existing and future design year traffic data. Design year traffic data to be provided by others.
- Applicable roadway inventory information, including the number of lanes, speed limits, pavement widths and rating, bridge widths and ratings, and ROW widths
- Aerial photos, planimetric mapping, and DTM (provided by others)
- Environmental Data
- Record plans as available
- Federal Emergency Management Agency (FEMA) Flood Boundary Maps
- Public and private utility information record maps only, no SUE this phase.

#### 1.2. Develop Base Maps

The base maps to be used for analysis and proposed schematic layout shall be developed by the Engineer from existing construction and right of way (ROW)

plans, as available. The Engineer shall identify existing ROW, property owners and the approximate location of major utilities in the preparation of base maps.

# 1.3. Analyze Existing Conditions

Using collected data and base maps, the Engineer shall develop an overall analysis of the existing conditions in order to develop the schematic design. The analysis shall include, but not be limited to the following:

- ROW determination
- Horizontal alignment
- Profile grades
- Pavement cross slopes and pavement type
- Intersection design and analysis
- Sight distance
- Roadside signing
- Level-of-service
- · Locations of critical constraints
- Drainage
- Traffic control and construction phasing sequence

# 1.4 Geotechnical Borings and Investigations (by Geotech Engineering & Testing)

The Consultant shall determine the location of proposed soil borings for potential sound walls, ditch slope stability, and along storm drain alignment in accordance with the latest edition of the TxDOT's Geotechnical Manual.

The Consultant shall perform all geotechnical work in accordance with the latest version of TxDOT's Geotechnical Manual. All testing shall be performed in accordance with the latest version of the State's Manual of Test Procedures. American Society for Testing Materials (ASTM) test procedures can be used only in the absence of the State's procedures. All soil classification shall be done in accordance with the Unified Soil Classification System.

The Consultant shall provide a signed, sealed and dated geotechnical report which contains, but is not limited to, soil boring locations, boring logs, laboratory test results, generalized subsurface conditions, ground water conditions, piezometer data, analyses and recommendations for settlement and slope stability of the earthen embankments, skin friction tables and design capacity curves including skin friction and point bearing. The skin friction tables and design capacity curves must be present for piling and drilled shaft foundation.

The Consultant Conshall incorporate soil boring data sheets prepared, signed, sealed, and dated by the Geotechnical Engineer. The soil boring sheets shall be

in accordance with the State's WINCORE software as can be found on the TxDOT website.

# 2. Design Concept Conference

In accordance with the State's Project Development Process Manual, the Engineer, in cooperation with the State, shall plan, attend and document a Design Concept Conference (DCC). In preparation for the DCC, the Engineer shall complete a State's Design Summary Report to serve as a checklist for the minimum required design considerations. The conference will provide for a brainstorming session in which decision makers, stakeholders and technical personnel may discuss and agree on:

- Roadway and drainage design parameters
- Engineering and environmental constraints
- Project development schedule
- Other issues as identified by the State
- Identify any Design Exceptions and waivers
- Preliminary Construction Cost Estimate

# 3. Conceptual Design Schematics

The Engineer shall develop conceptual design schematics in MicroStation format to evaluate various alignments. Profile work will be done only to the extent necessary to lay out the proper horizontal geometry. The conceptual schematic layouts shall contain the following design elements:

- Roadway alignment
- · Pavement edges, face of curbs and shoulder lines
- · Typical sections of existing and proposed roadways
- Proposed structure locations
- Preliminary ROW requirements and control-of-access locations
- Direction of traffic flow and the number of lanes
- Existing and projected traffic volumes

# 4. Geometric Design Schematics

The Engineer shall furnish Microsoft Office and MicroStation V8 or V8i-Geopak compatible computer generated media containing the roadway schematic layout. All supporting attachments and exhibits shall accompany the schematic layout.

Design shall be prepared in accordance with the latest version of TxDOT Advance Project Development Design Schematic Checklist, TxDOT Roadway Design Manual, TxDOT Project Development Process Manual, American Association of State Highway and Transportation Officials (AASHTO), including:

- Roadway alignments for ramps, frontage roads and cross streets
- Pavement edges, curb lines, sidewalks
- Typical sections of existing and proposed roadways
- Structure locations
- Existing and proposed major utilities
- Existing property lines and respective property ownership information
- ROW requirements adequate for preparation of ROW ramps
- Control-of-access limits
- Existing and projected traffic volumes
- Location and text of the proposed guide signs
- · Lane lines, shoulder lines, and direction of traffic flow arrows
- Calculated profile grade and vertical curve data including "K" values
- Potential noise barrier locations

# 4.1. Typical Sections

The Engineer shall develop both existing and proposed typical sections that depict the number and type of lanes, shoulders, median width, curb offsets, cross slope, border width, clear zone widths, bicycle and pedestrian facilities, and ROW limits.

#### 4.2. Environmental Constraints

The Engineer shall consider impacts to environmentally sensitive sites based on approved environmental document prepared by others.

# 4.3. Drainage Study (by Sirrus Engineers, Inc.)

The Consultant will prepare, submit, and obtain approval of a Drainage Impact Analysis. This analysis will identify the changes in peak flows due to the proposed roadway improvements and recommend drainage measures to mitigate the impacts associated with the proposed improvements. This study will include the evaluation of the existing storm sewer systems and recommend preliminary size detention basin or an enlarged storm sewer system so as not to impact the receiving streams or the abutting property.

The purpose of this task is to prepare a Drainage Mitigation Impact Analysis Study to determine the 100-year storm impacts resulting from construction of the project and to develop and analyze alternatives to mitigate these impacts. The following tasks describe the work to be performed:

 Prepare 100-year storm drainage area maps for existing and proposed conditions, which includes the southbound lanes, within the project right of way (ROW) and any off-site areas draining into the ROW.

- Compute existing and proposed peak flows with standard TxDOT
  methodology within the ROW. The Rational Method will be used to compute
  these flows for drainage areas less than 200 acres and the Small Watershed
  Method will be used to evaluate the impacts of the ultimate conditions. HECHMS modeling will be used for drainage areas equal to or greater than 200
  acres.
- Compute required 100-year storage volumes within the ROW using the average end area method to determine mitigation requirements for the proposed condition versus existing conditions.
- Prepare existing and proposed hydrographs at each outfall location to develop mitigation alternatives to implement the required 100-year mitigation. Alternatives may include increasing storm sewer sizes beyond what is required for the design 10-year storm or improving existing roadside ditches/ or providing a detention site required within the vicinity. The location of the detention site may vary and further analysis depending on the location will be needed.
- Prepare construction cost estimates for mitigation alternatives developed in the previous task to assist in selecting the most cost effective mitigation methods.
- Prepare a Drainage Mitigation Study report to summarize and document the findings of this study. The report will include the following items at a minimum:
  - o Conceptual and generic discussions of mitigation alternatives considered
  - Comparative costs associated with each alternative
  - Recommended mitigation solutions
  - Required mitigation volumes of ultimate versus existing conditions
  - Plan sheets showing the proposed mitigation plan with outfall and flowline elevations
  - Hydrologic and hydraulic computer models such as HEC-HMS, HEC-RAS, or XP-SWMM with drainage area maps
  - o Drainage outfall descriptions
  - The report will be signed and sealed by a professional engineer.

#### 4.4. ROW Requirements

The Engineer shall provide early identification of the ROW and drainage easement requirements and temporary construction easements, based on the proposed alignment, typical sections, access control, terrain, construction requirements, drainage, clear zone, maintenance, and any environmental mitigation requirements.

#### 4.5. Traffic Data Collection

The Engineer shall collect or identify required traffic data to supplement the data provided by TxDOT, including:

- a) Classification Turning Movement Counts collected from previous studies.
- b) Origin Destination Data collected from previous studies.
- c) Historical Crash Data: Historical crash data

# 4.6. Traffic Studies / Signal Warrants

The Engineer shall compute current Level of Service based upon existing traffic counts collected at signalized intersections within the Project. Engineer shall then evaluate future traffic operations with proposed SB 99 Frontage Road added to the roadway network, determine future Level of Service, and make recommendations to address deficiencies as appropriate.

The Engineer shall prepare a traffic signal warrants to support their recommendation for the continuous activation of an existing traffic signal based on existing and projected volumes.

The Engineer shall implement each proposed traffic signal improvement within existing State right-of- way unless otherwise approved by the State. The Engineer shall refer to the TMUTCD (Oct 2014), Traffic Signal Manual, and The State's roadway (ramp) and traffic standards for work performed for either temporary or permanent traffic signals.

#### 5. Cross Sections

The Engineer shall use Geopak to generate preliminary cross-sections every 100 feet in conjunction with the Geometric Schematic. The Engineer shall determine earthwork volumes for use in the cost estimate, and shall prepare roll plots or 11X17 sheets of the cross-sections as required.

#### 6. Preliminary Construction Sequence

The Engineer shall prepare a Preliminary Construction Sequence Layout in conjunction with the Geometric Schematic.

#### 7. Preliminary Cost Estimate

The Engineer shall prepare a preliminary cost estimate for the project, including the costs of construction and eligible utility adjustments. Current State unit bid prices will be used in preparation of the estimate.

# 8. Engineering Summary Report

The Engineer shall prepare a report to summarize the design criteria, traffic analysis, preliminary cost estimate and basis of estimate, construction sequence description, and utility conflict issues.

#### 9. Deliverables

In conjunction with the performance of the foregoing services, the Engineer shall provide the following draft and final documents and associated electronic files:

- Design Summary Report and Geometric Criteria Table (2 hard copies & PDF)
- Conceptual Design Alternative roll plots and matrix (2 hard copies & PDF)
- Preliminary Construction Sequence (2 hard copies & PDF)
- Preliminary opinion of probable costs for each Conceptual Alternative (PDF)
- Preliminary Drainage Study (2 hard copies & PDF)
- Final Drainage Study (2 hard copies & PDF)
- Geometric Design & Signing Schematic roll plots (2 hard copies & PDF)

# Function Code 120: Environmental Documentation – <u>TO BE PERFORMED BY OTHERS.</u>

# Function Code 130: Right-Of-Way Data (by Weisser Engineering and Surveying)

All surveys shall meet the standards set in the Professional Land Surveying Practices Act, the General Rules of Procedures and Practices promulgated by the Texas Board of Professional Land Surveying (TBPLS), and the Texas Department of Transportation (TxDOT) TxDOT Survey Manual, latest edition, and shall be accomplished in an organized and professional manner, subject to the approval of the State.

The Surveyor shall evaluate the existing ROW envelope and make recommendations for the acquisition of ROW necessary for the Project including but not limited to roadway, corner cuts, sight distance triangles, detention, and outfalls, if necessary.

The Surveyor shall establish a project baseline based on the centerline of the right-of-way.

The Surveyor shall create an available existing utility list (Excel Format) including the type, owner, location, and contact information for available existing utilities within the project limits to be supplied to the Engineering Consultant to complete the identification of potential utility conflicts.

The Surveyor shall sign and seal all survey documents.

Specific work scope includes:

Existing Right of Way Mapping will include:

- Perform abstract survey; obtain deeds of records, and plats for Grand Parkway (SH 99) Southbound Frontage Road (Project) right-of-way, streets intersecting Project and tracts of land adjoining Project.
- Establish the existing right-of-way of Project.
- Prepare existing Right-of-Way Map of the Project certifying to a Cat. 1B, Cond. II Right-of-Way Survey to be delivered in PDF format.
- Prepare Survey Control Sheet(s) for the project to be delivered in PDF format.
- Parcel Surveys (Cat. 1A; Cond. II) Prepare metes and bounds descriptions in accordance with Fort Bend County guidelines for property acquisition and add parcels to the existing ROW maps.

# **Function Code 145: Project Management**

# 1. Progress Reports and Invoices

The Engineer shall conduct monthly project reviews, prepare monthly Progress Reports and Invoices for review and approval. Progress Reports shall include a brief discussion of the activities conducted during the reporting period and activities planned for the upcoming month, and describe any problems/delays encountered and remedial actions needed and/or exercised to alleviate the same.

#### 2. Coordination/Administration

The Engineer shall manage all project activities (including scheduled/unscheduled meetings), maintain the project files, direct Engineer's team/staff.

#### 3. Quality Control/Assurance

The Engineer shall also establish a project specific Quality Management Plan to provide Quality Control and Quality Assurance processes for each deliverable submitted.

#### 4. Sub-consultant Management

The Engineer shall prepare subcontracts/supplemental agreements for sub-consultant(s), monitor sub-consultant activities (staff and schedule), and review and recommend approval of sub-consultant invoices.

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# Function Code 150: Surveys (by Weisser Engineering and Surveying)

# 1. Topographic Surveying

The Surveyor will provide the following within the surveying limits:

- Utilize horizontal and vertical project control established and provided by TxDOT.
- For the roadway and ditches, obtain cross-sections at 100-foot intervals with grade breaks. Cross-sections shall extend 20 feet beyond the proposed right-of-way lines where accessible. Identify locations and elevations of physical features to include buildings, fences, walls, trees, sidewalks, driveways and driveway curbs, power poles, light poles, water meters, water wells, ponds, sprinklers, off-site drain pipe, etc. Horizontally and vertically locate available existing utilities within, crossing, and adjoining project limits. Utilities will be located and tied based on visual evidence and utilities based on maps, plans, and marked by "One Call" within the project limits, flow line elevations, sizes, material types and directions of pipes will be obtained on storm sewer lines, sanitary sewer lines and culverts. The rim (top) and flow line elevations will be obtained on inlets, manholes, and drainage structures.
- The Surveyor will coordinate with pipeline companies, municipal utility districts (MUDs), homeowner's associations (HOA's), Fort Bend County, and private utility agencies to obtain locations of available existing utilities and depths of existing pipelines and provide Level B Subsurface Utility Surveying.
- Survey geotechnical bore hole locations as indicated by Client and provide information to Client in an approved digital format.
- Prepare existing Topographic Survey Map of the Project certifying to a Cat. 6,
   Cond. II Topographic Survey to be delivered in PDF format.
- Topographic survey will supplement TxDOT's aerial flight data.
- The 3D topographical survey base map and digital terrain model (DTM), surface triangular irregular network (TIN) will be created and delivered for the existing roadway using Geopak and Microstation.

# 2. Subsurface Utility Engineering (Level B) Utility/Pipeline Investigations

The Survey shall perform such investigations, research, and other activities necessary to identify any potential utility/pipeline conflicts with the Project, including but not limited to:

- Locating and identifying available existing utilities/pipelines including casings and vent pipes within the existing and proposed rights-of-way, including obtaining information from utility owners record drawings and site reconnaissance, as well as shooting elevations marked or uncovered by others, and providing Subsurface Utility Engineering Level B effort to locate all available subsurface utilities within the existing and proposed ROW.
- Level B Two dimensional (x,y) information obtained through the application and interpretation of no-destructive surface geophysical methods. Also known as

"designating", this quality level provides the horizontal position of subsurface utilities within approximately one foot.

#### **PART 2 - PS&E SERVICES**

#### SERVICES TO BE PROVIDED BY THE ENGINEER

The work to be performed by the Engineer shall consist of providing engineering services required for the schematic refinement and environmental re-evaluation of the existing schematic and the preparation of plans, specifications and estimates (PS&E) and related documents.

#### **GENERAL REQUIREMENTS**

# 1. Design Criteria

The Engineer shall prepare all work in accordance with the latest version the PS&E Preparation Manual, Roadway Design Manual, Hydraulic Design Manual, the Texas Manual on Uniform Traffic Control Devices (TMUTCD), Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges.

The Engineer shall supplement criteria established as part of Schematic Design Phase. The Engineer shall update the Design Summary Report (DSR). The Engineer shall obtain written concurrence from the State prior to proceeding with a design if any questions arise during the design process regarding the applicability of State's design criteria.

The Engineer shall prepare design waiver or exception questionnaires as warranted per State guidance. The Engineer shall supply the required justification, facts, and summaries to support the proposed Design Waivers or Exceptions. The Engineer shall make up to two submittals and corresponding revisions of the design exception report.

# 2. Quality Assurance and Quality Control (QA/AC)

The Engineer shall maintain records of their internal review, as confirmation that the designs are being prepared in accordance with the adopted Quality Plan.

# **Function Code 145: Project Management**

The Engineer, in association with the Project Manager shall be responsible for directing and coordinating all activities associated with the project to comply with policies and procedures, and to deliver that work on time.

# 1. Progress Reports and Invoices

The Engineer shall conduct monthly project reviews, prepare monthly Progress Reports and Invoices for review and approval. Progress Reports shall include a brief discussion of the activities conducted during the reporting period and activities planned for the upcoming month, and describe any problems/delays encountered and remedial actions needed and/or exercised to alleviate the same.

# 2. Coordination/Administration

The Engineer shall manage project activities (including scheduled/ unscheduled meetings), maintain the project files, and direct Project Teams and staff.

# 3. Quality Plan

The Engineer shall establish a project specific Quality Management Plan to provide Quality Control and Quality Assurance processes for Team members.

# 4. Sub-consultant Management

The Engineer shall manage subcontracts/supplemental agreements for sub-consultant(s), monitor sub-consultant activities (staff and schedule), and review and recommend approval of sub-consultant invoices and progress reports.

# **Function Code 160: Roadway Design Controls**

# 1. Roadway Design

The Engineer shall provide roadway plan and profile drawings using Computer-Aided Design and Drafting (CADD) standards as required by the State. The plan view shall contain the following design elements:

- Calculated roadway centerlines for mainlanes, ramps, cross streets and frontage roads, as applicable. Horizontal control points shall be shown. The alignments shall be calculated using GEOPAK.
- Pavement edges for all improvements (mainlanes, ramps, cross streets, driveways and frontage roads, if applicable).
- Lane and pavement width dimensions.
- The geometrics of ramps, auxiliary lanes.
- Proposed structure locations, lengths and widths.
- Direction of traffic flow on all roadways.
- Control of access line, & ROW lines and easements.
- Begin/end super elevation transitions and cross slope changes.
- Limits of rip rap, block sod, and seeding.

- · Existing utilities and structures.
- Benchmark information.
- Radial call outs, curb location, Concrete Traffic Barrier (CTB), guard fence, crash safety items and American with Disabilities Act Accessibility Guidelines (ADAAG) compliance items.
- Removal items.

The profile view shall contain the following design elements:

- Calculated profile grade for proposed mainlanes, ramps, cross streets and frontage roads, if applicable. Vertical curve data, including "K" values shall be shown.
- Existing and proposed profiles along the proposed centerline of the mainlanes, the outside shoulder line of ramps, and the outside gutter line of the designated frontage roads.
- Water surface elevations at major stream crossing for 2, 5, 10, 25, 50, and 100-year storms.
- Calculated clearances, taking into account the appropriate super elevation rate.
- The location of interchanges, mainlanes, grade separations and ramps (shall include cross sections of any proposed or existing roadway, structure, or utility crossing).

# 2. Typical Sections

Typical sections shall be required for all proposed and existing roadways and structures.

The Engineer shall provide the design of mainlanes with full shoulders, frontage roads, entrance and exit ramps, managed lanes and auxiliary lanes. The design shall be consistent with the approved refined schematic and the current Roadway Design Manual.

#### 3. Cross Streets

The Engineer shall provide an intersection layout detailing the pavement design and drainage design at the intersection of each cross street. The layout shall include the curb returns, geometrics, transition length, stationing, and pavement and drainage details. The Engineer shall design for full pavement width to the ROW and provide a transition to the existing roadway.

#### 4. Cut and Fill Quantities

The Engineer shall develop an earthwork analysis to determine cut and fill quantities and provide final design cross sections at 100 feet intervals. Cross

sections shall be delivered in standard GEOPAK format on 11"x17" sheets or roll plots and electronic files. The Engineer shall provide all criteria and input files used to generate the design cross sections.

# 5. Plan Preparation

The Engineer shall prepare roadway plans, profiles and typical sections for the proposed improvements.

# Function Code 161: Drainage (by Sirrus Engineers, Inc.)

# 1. Drainage Design

The Consultant shall provide drainage layouts, drainage area maps, calculations, and design of all drainage components. The Consultant shall design all detention/retention ponds, conventional storm drainage and cross drainage in conformance with the State Hydraulic Design Manual (May 2014), Districts' criteria.

The drainage design will be prepared to provide for the two-lane frontage section. At a minimum the drainage items to be provided shall include the detailed drainage area maps showing the final drainage areas and inlet and storm sewer calculations for revised storm sewer flow elements. All drainage designs shall be prepared in accordance with the findings presented in the Drainage Study. The proposed tasks are listed below:

- Conduct field trips to the Project site to investigate and confirm data and assumptions and assess general drainage conditions as needed;
- Review previous plans and drainage reports prepared by others which relate to drainage in the Project area (to be provided by the PMC);
- Prepare proposed drainage area maps for proposed improvements within the portion of the Project limits stated above;
- Design drainage structures located within the Project ROW, including open ditch drainage, storm sewer, inlets, manholes, subsurface drainage at retaining walls, and inlets/internal drainage piping where required on structures:
- Design and analyze the storm sewer system utilizing the WINSTORM Program and incorporate output to plan set;
- Design and analyze the roadside ditches for the proposed drainage criteria and incorporate results into the plans set on the roadway plan and profile sheets;
- Prepare storm sewer plan/profile drawings and special plan details, where required, for storm sewer system, laterals, junction boxes, etc. Identify potential utility conflicts during project design. Drawings will be prepared on 11" X 17" sheet at horizontal scale of 1"=100' and vertical scale of 1"=10'; and

Design cross-culvert extensions, if required, within the Project limits. This
task is the extent to which designs and calculations regarding cross-culverts
is required. Required drainage work outside the ROW will be performed by
others.

# Function Code 162: Signing, Pavement Markings and Signalization (Permanent)

# 1. Signing

The Engineer shall prepare drawings, specifications and details for all project-related signs. The Engineer shall coordinate with the State (and other Engineers as required) for overall temporary, interim and final signing strategies and placement of signs within contract limits.

# 2. Pavement Marking

The Engineer shall detail both permanent and temporary pavement markings and channelization devices on plan sheets. The Engineer shall coordinate with the State (and other Engineers as required) for overall temporary, interim, and final pavement marking strategies. The Engineer shall select Pavement markings from the latest State standards.

# 3. Traffic Signals

Based upon the results of the Traffic Warrant Studies and paving improvements associated with the SB Frontage Road implementation, the Engineer shall identify necessary signal modifications. Traffic all Signal Plans for warranted traffic signals. Based upon current conditions and the Project concept, this design is not intended to provide for full, brand new traffic signal installations. Rather, it should be limited to items such as re-cabling the west halves of both signalized intersections due to potential relocation of signal poles and pedestrian poles, ADA upgrades, etc. Traffic Signal Plans shall be signed, sealed, and dated by a Professional Engineer licensed in Texas. The Engineer shall develop all quantities, general notes, specifications and incorporate the appropriate agency standards required to complete construction.

# Function Code 163: Miscellaneous (Roadway)

# 1. Traffic Control Plan, Detours, Sequence of Construction

The Engineer shall prepare Traffic Control Plans (TCP) for the project. A detailed TCP shall be developed in accordance with the TMUTCD (Oct 2014).

# 2. Storm Water Pollution Prevention Plans (SW3P)

The Engineer shall develop SW3P, on separate sheets from (but in conformance with) the TCP, to minimize potential impact to receiving waterways. The SW3P shall include text describing the plan, quantities, type, phase and locations of erosion control devices and any required permanent erosion control.

# 3. Compute and Tabulate Quantities

The Engineer shall provide the summaries and quantities with formal submittals.

#### 4. Estimate

The Engineer shall independently develop and report quantities necessary to construct contract in standard State bid format at the specified milestones and Final PS&E submittals. The Engineer shall prepare construction estimates using Microsoft Excel or in a format directed by the State.

# 5. Specifications and General Notes

The Engineer shall identify necessary standard specifications, special specifications, special provisions and the appropriate reference items. The Engineer shall prepare general notes, special specifications and special provisions for inclusion in the plans and bidding documents.

#### **Function Code 309: Post Design Services**

The Engineer shall provide routine post design services, as directed/requested by Fort Bend County. Such services shall include Bidding Support, Preconstruction, Field and Progress Meetings, Shop Drawing Review, RFIs, and General Questions/Clarifications. All Post Design Services shall be performed on a Time and Materials basis.

# **Deliverables - Plans**

The Engineer shall provide the following information at each submittal:

- 1. 30% Plans Submittal
  - 1.1. 8 sets of 11" x 17" plan sheets for Review.
  - 1.2. Estimate of construction cost.
  - 1.3. Engineer's internal QA and QC markup set.
  - 1.4. Form 1002 and Design Exceptions with existing and proposed typical sections, location map and design exception exhibits.

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#### 2. 60% Plans Submittal:

- 2.1. 8 sets of 11" x 17" plan sets for Review.
- 2.2. Estimate of construction cost.
- 2.3. Engineer's internal QA and QC marked up set.
- 2.4. One set of a roll format TCP phasing layouts, one .pdf of plan sheets for TCP concept, and significant project procedures form (State Form 2229) to present at the TCAT for TxDOT review.

#### 3. 90% Plans Submittal

- 3.1. 8 sets of 11" x 17" plan sheets for the Review.
- 3.2. Estimate of construction cost.
- 3.3. Marked up general notes
- 3.4. Construction schedule.
- 3.5. New Special Specifications and Special Provisions with Form 1814, if applicable.
- 3.6. Engineer's internal QA and QC marked up set.
- 3.7. Other supporting documents.

# 4. District Review Submittal (95%):

- 4.1. 8 sets of 11" x 17" plan sheets for the State district review
- 4.2. List of governing Specifications and Special Provisions in addition to those required.
- 4.3. Marked up general notes.
- 4.4. Plans estimate.
- 4.5. New Special Specifications and Special Provisions with Form 1814, if applicable.
- 4.6. Triple Zero Special Provisions.
- 4.7. Engineer sign, seal and date supplemental sheets (8 ½" x 11").
- 4.8. Contract time determination summary.
- 4.9. Significant project procedures form.
- 4.10. Right-of-Way and utilities certification.
- 4.11. Temporary road closure letters.
- 4.12. Construction speed zone request.
- 4.13. Engineer's internal QA and QC marked-up set.
- 4.14. Other supporting documents.

### 5. Final submittal (100%).

- 5.1. 8 paper sets of 11" x 17"
- 5.2. Revised supporting documents from 95% review comments.

# **Electronic Copies**

The Engineer shall furnish a DVD of the final plans in the format of current CADD system used by TxDOT, and in .pdf format.

# SERVICES NOT INCLUDED IN SCOPE OR FEE PROPOSAL

- CLOMR & LOMR preparation and coordination;
- 2. Public Hearing;
- 3. Design of any utilities within project limits;
- 4. Negotiations with adjacent property owners;
- 5. Improvement Survey once project is complete;
- 6. Filing and permit fees;
- 7. Value engineering studies;
- 8. Illumination Plans;
- 9. Large Signing or new/special sign design;
- 10. VISSIM Modeling;
- 11. Design of ramp reversals;
- 12. Design of pump stations that may be required for detention;
- 13. Nationwide and Individual 404 Permits;
- 14. Landscaping, irrigation or hardscape design;
- 15. Utility Adjustment Coordination.

SH 99 SBFR Attachment C

# SCHEDULE OF MILESTONE SUBMITTALS

# NTP: 06/05/18 Commissioner's Court Date

Complete Surveying and Geotechnical:	08/01/18
Schematic Submittal:	09/01/18
Drainage Study Submittal:	09/01/18
ROW Mapping Submittal:	11/01/18
Environmental Document Submittal:	11/01/18
30% design Submittal:	11/15/18
60% design Submittal:	02/01/19
90% design Submittal:	04/01/19
95% design Submittal:	06/01/19
100% Final Submittal:	09/01/19

<sup>\*</sup>Note that all submittals are to TxDOT

1 05/18/2018

# **CERTIFICATE OF INTERESTED PARTIES**

FORM **1295** 

of 1

	Complete Nos. 1 - 4 and 6 if there are interested parties. Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.		OFFICE USE ONLY CERTIFICATION OF FILING					
1	Name of business entity filing form, and the city, state and count of business.	ry of the business entity's place	Certificate Number: 2018-363436					
	TEDSI Infrastructure Group, Inc.	up, Inc.						
	Houston, TX United States		Date Filed:					
2		al entity or state agency that is a party to the contract for which the form is						
	being filed.							
	Fort Bend County		Date Acknowledged: 06/12/2018					
					-1-1-			
3	Provide the identification number used by the governmental entidescription of the services, goods, or other property to be provided to the control of the services.	ty or state agency to track or identified under the contract.	y tne c	contract, and prov	vide a			
	Agrmnt for Prof Egrg - SH 99  New SB Frontage Road from Cinco Ranch to Westheimer Pa	rkway						
4				Nature of	finterest			
•	Name of Interested Party	City, State, Country (place of busin	ness)	(check ap				
				Controlling	Intermediary			
Sa	linas, Jesus	Mission, TX United States		Х				
Lu	pher, Mark	Houston, TX United States		Х				
М	orris, Jr., Jules M.	Houston, TX United States		х				
Ste	ong, Craig	Mission, TX United States		х				
5	Check only if there is NO Interested Party.							
6	UNSWORN DECLARATION		•					
	My name is	f birth is						
	My address is(street)		tate)	(zip code)	(country)			
	, ,		•,	, ,,				
	I declare under penalty of perjury that the foregoing is true and correct			day of	20			
	Executed inCount	, state of, on the		_day of (month)	, 20 (year)			
				(monut)	(year)			
		ntractin	ng business entity	_				