

STATE OF TEXAS §
 §
 COUNTY OF FORT BEND §

**SECOND AMENDMENT TO AGREEMENT FOR
 PROFESSIONAL ENGINEERING SERVICES**

THIS SECOND AMENDMENT, is made and entered into by and between Fort Bend County (hereinafter "County"), a body corporate and politic under the laws of the State of Texas, and Amani Engineering, Inc., (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on October 6, 2015, (hereinafter "Agreement") pursuant to SOQ 14-025, as amended on April 26, 2016 (by document hereinafter referred to as "Amendment"); and

WHEREAS, the parties desire to further amend the Agreement for additional services to be provided and increase the total Maximum Compensation for the completion of such additional services.

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

1. County shall pay Contractor an additional seventy-five thousand two hundred forty dollars and no/100 (\$75,240.00) to perform the Hydraulic Impact Study as described in the Fee Proposal dated July 27, 2016 attached hereto as Attachment "A" and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for Services rendered is hereby increased to an amount not to exceed five hundred thirty-seven thousand eighty-one dollars and no/100 (\$537,081.00), authorized as follows:
 - \$425,286.00 under the Agreement;
 - \$36,555.00 under the Amendment; and
 - \$75,240.00 under this Second Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement, the Amendment and this Second Amendment exceed the Maximum Compensation without an agreement executed by the parties.

Except as provided herein, all terms and conditions of the Agreement and the Amendment shall remain unchanged.

FORT BEND COUNTY

Robert E. Hebert
Robert E. Hebert, County Judge

AMANI ENGINEERING, INC.

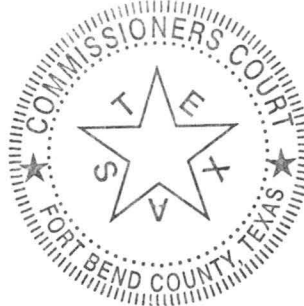
H. Prasad Kolluru
H. Prasad Kolluru, P.E., President

9-6-2016
Date

8/17/2016
Date

ATTEST:

Laura Richard
Laura Richard, County Clerk



APPROVED:

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

APPROVED AS TO LEGAL FORM:

Marcus D. Spencer
Marcus D. Spencer, First Assistant County Attorney

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$537,081.⁰⁰ to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Ed Sturdivant
Robert Ed Sturdivant, County Auditor

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ATTACHMENT A



Amani Engineering, Inc.

• Engineers • Surveyors • Construction Managers

July 27, 2016

VIA EMAIL: rbarnett@ljaengineering.com

Mr. Robert W. Barnett, P.E.
Senior Project Manager
LJA Engineering, Inc.
2929 Briarpark Drive, Suite 600
Houston, TX 77042

Re: Fee Proposal for Hydraulic Impact Study for the Fort Bend County 2013 Mobility Bond Program, South Post Oak Boulevard from Hunter Green Lane to Trammel Fresno Road, FBC Project No. 13112 (Rev. 2)

Dear Mr. Barnett,

Amani Engineering, Inc. is pleased to provide this revised fee proposal to perform Hydraulic Impact Study for the referenced project. Based on our understanding from the meeting held on 3/23/2016, your e-mail dated 4/5/2016, and our follow up meeting on 5/12/16, we propose the following scope of work, assumptions, exceptions, deliverables, schedule and fee.

I. SCOPE OF WORK:

The scope of services include hydrologic and hydraulic analysis, drainage study for South Post Oak Boulevard from just north of Hunter Green Lane to Trammel Fresno Road, as well as investigate the mitigation requirement for possible future suburban density development of the area east of South Post Oak Boulevard, south of Jasmine Street, west of Kansas Street, and north of Sycamore Road of approximately 150 acres. Refer enclosed Exhibit-A. Amani Engineering will follow City of Houston Infrastructure design manual Chapter 9- Storm water Design Requirements and TP-100 (Design for Storm Sewer General Guidelines) to perform hydraulic impact study.

II. ASSUMPTIONS:

- The project will consist of the construction of a four-lane concrete urban boulevard section from the existing South Post Oak Boulevard; just north of Hunter Green Ln. to the intersection with W. Sycamore Road.
- The concrete boulevard section of South Post Oak Boulevard; will tie into the existing W. Sycamore Road as indicated in the enclosed Exhibit B – Sample of South Post Oak Boulevard – W. Sycamore Road Pavement Tie-in.
- There is no anticipated pavement widening to W. Sycamore Road at this time. Continuing north a two-lane asphalt road with roadside ditches will be constructed from W. Sycamore Road to Trammel Fresno Road. The two-lane asphalt road will be terminated at the south side of the existing Trammel Fresno Road pavement.
- Right-of-way will be acquired to obtain a 100-foot width where ever it is deficient. Anticipated right-of-way is illustrated in the enclosed Exhibit C – Anticipated ROW Acquisition Parcels.
- Fort Bend County to purchase additional property at northeast corner of Sycamore / S Post Oak Boulevard or at southeast corner of Sycamore / S Post Oak Boulevard to provide for the additional detention.
- Master Drainage Plan shall be provided by Fort Bend County for the project area.

Mr. Robert W. Barnett, P.E.
LJA Engineering, Inc.
Engineering Services for FBC 2013 Mobility Bond Program
South Post Oak Blvd. from Hunter Green Ln. to Trammel Fresno Rd., FBC Project No. 13112
July 27, 2016
Page 2 of 3

SCENARIO FOR DETENTION:

Based on the above assumptions the following design scenario shall be considered.

Additional improvements on the side street ditches and provide detention along southeast corner of W. Sycamore and S. Post Oak Blvd. Refer Exhibit D

III. EXCEPTIONS:

- Wetlands Investigations
- Notification to the Texas Historical Commission
- Environmental Site Assessments
- Easement/Off-site Surveys
- SUE Locating Services
- Construction Field Visits and Progress Meetings
- Post Construction Storm Water Management Plan

IV. DELIVERABLES:

Hydraulic Impact Study Report which includes the following items:

1. Project Drainage area map, existing drainage infrastructure and outfall information.
2. Analyze existing system (road side ditches) for a 2 year and 100 year event using HouStorm.
3. Overland flow paths using readily available data such as LiDAR for more accurate determination of ponded areas and flow directions.
4. 2 year storm sewer proposed design with new &/or improved storm sewers and/or inlets.
5. Determine if regional detention or local real-estate is available for mitigation.
6. 100-year impact analysis.
7. Identify mitigation measures and overland flow improvements.
8. Produce Hydraulic data sheets, drainage area maps, and all applicable storm sewer preliminary design documents.

V. SCHEDULE:

8 weeks from Notice to Proceed to Submit Hydraulic Impact Study report.

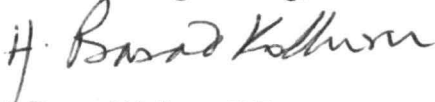
VI. FEE:

As detailed in enclosed Level of Effort Estimate, we propose a lump sum fee of **\$ 75,240.00**

We appreciate the opportunity to propose on this project. Please call Mr. Satya Yalamanchili, P.E., at 713-270-5700 x 107 or me at 713-270-5700 x 101 if you have questions or need additional information concerning this proposal.

Mr. Robert W. Barnett, P.E.
LJA Engineering, Inc.
Engineering Services for FBC 2013 Mobility Bond Program
South Post Oak Blvd. from Hunter Green Ln. to Trammel Fresno Rd., FBC Project No. 13112
July 27, 2016
Page 3 of 3

Yours Sincerely,
For Amani Engineering, Inc.



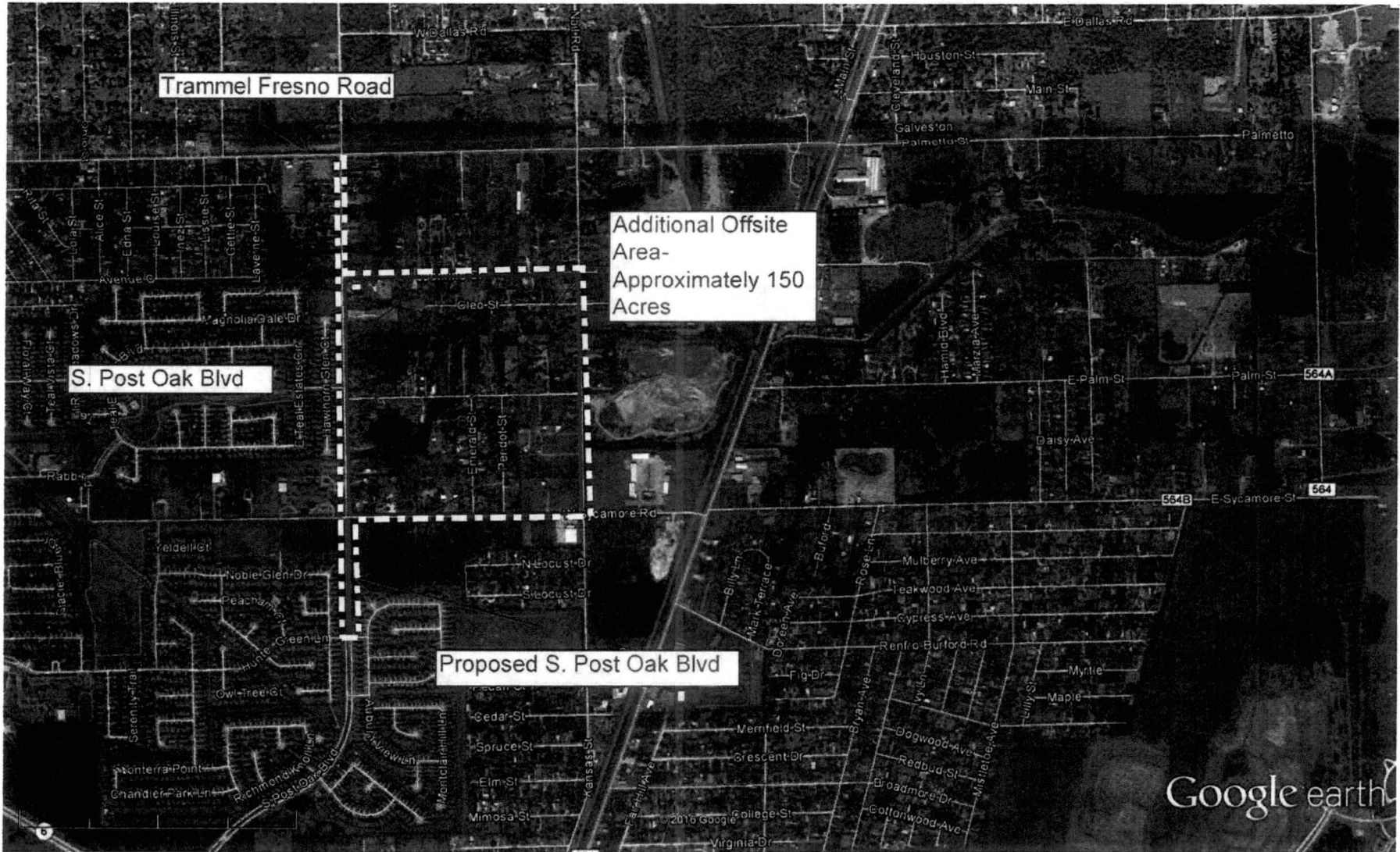
H. Prasad Kolluru, P.E.
President

TBPE Firm Reg. No. F-4528
TBPLS Firm Reg. No. 100282-00

HPK: md: sy

- Enclosures:
- 1) Exhibit A – Drainage Area Boundary
 - 2) Exhibit B – Sample of South Post Oak – W. Sycamore Road Pavement Tie-in
 - 3) Exhibit C - Anticipated ROW Acquisition Parcels
 - 4) Exhibit D – Design Scenario
 - 5) Level of Effort Estimate- (Itemized Effort for Design Scenario)

EXHIBIT- A



Google earth



Drainage Area Boundary

EXHIBIT B

SAMPLE OF S. POST OAK BLVD. - W. SYCAMORE ROAD PAVEMENT TIE-IN



EXHIBIT C

ANTICIPATED ROW ACQUISITION PARCELS

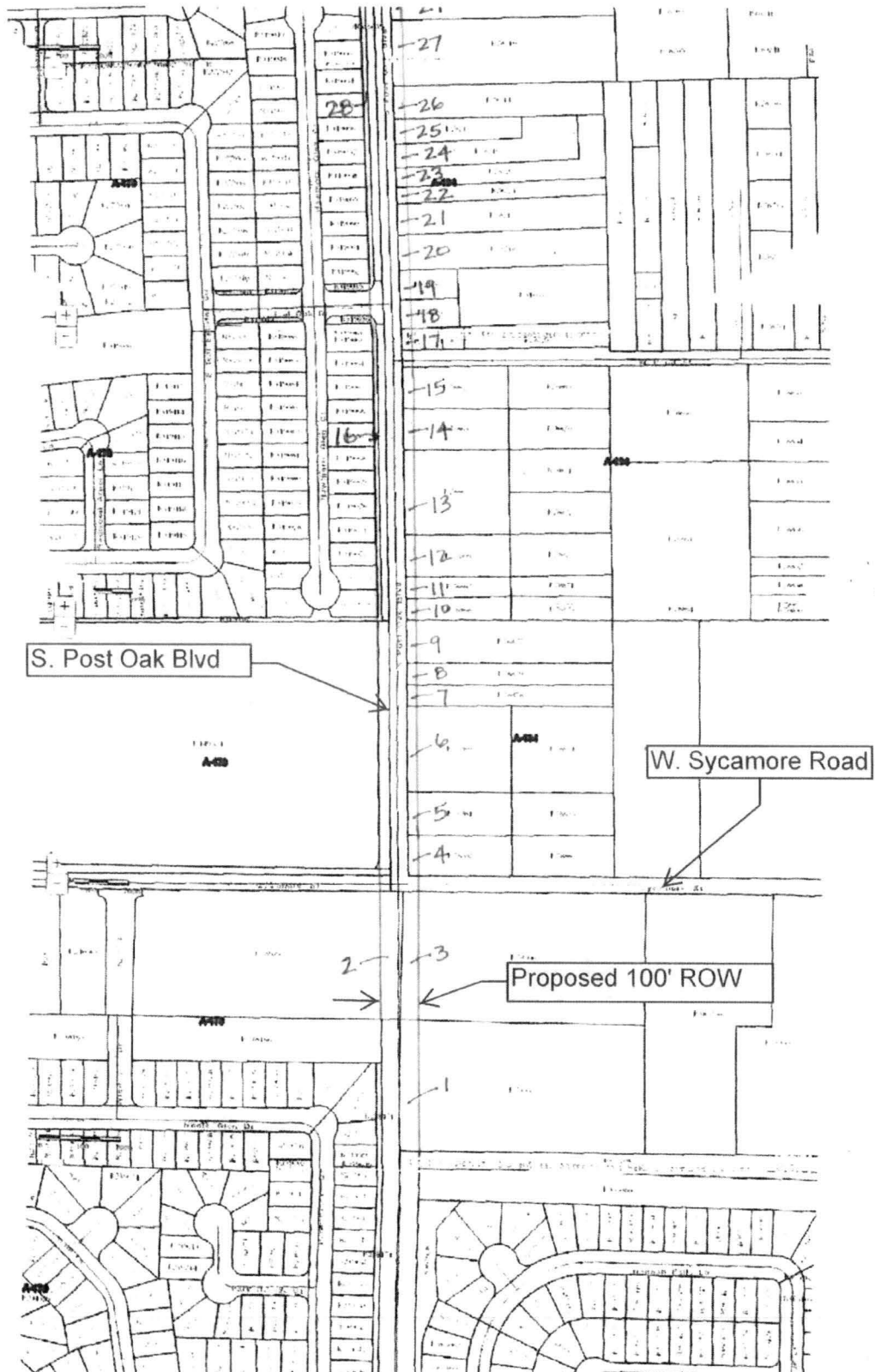
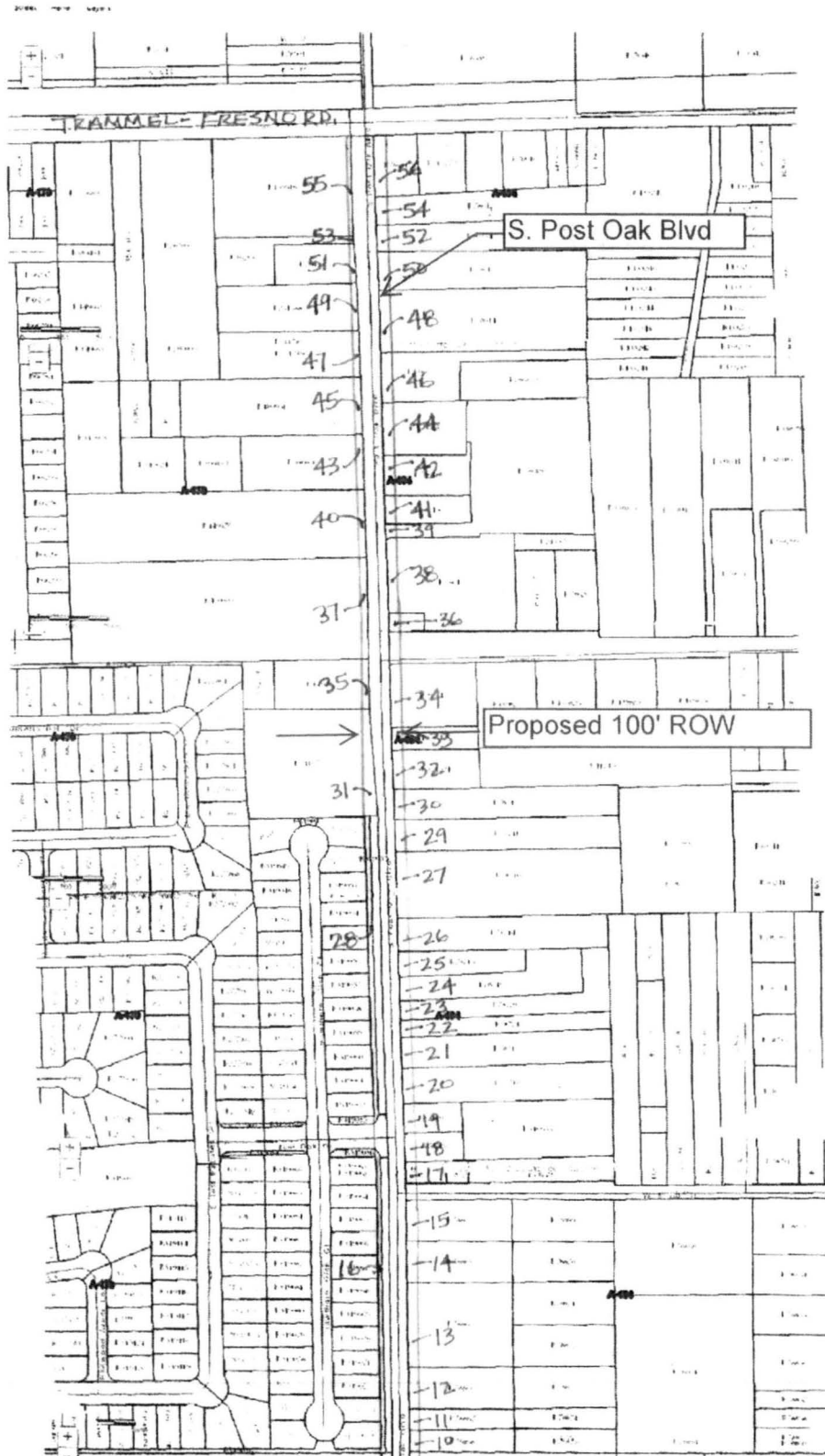


EXHIBIT C

ANTICIPATED ROW ACQUISITION PARCELS





Google earth



← Flow Direction

**South Post Oak Road from Hunter Green to Trammel Fresno
Fort Bend County Project No. 13112
LEVEL OF EFFORT ESTIMATE FOR HYDRAULIC IMPACT STUDY- DESIGN SCENARIO**

Client: Fort Bend County Drainage District

07/27/16

Sr. No.	Task Description	Principal Engineer \$195.00/Hr	Project Manager \$165.00/Hr	Senior Civil Engineer \$150.00/Hr	RPLS Surveyor \$150/hr	Project Engineer \$140.00/Hr	Graduate Engineer. \$105.00/Hr	CADD Operator/Survey Tech \$90.00/Hr.	Clerical Staff \$50/Hr	Survey Crew \$155.00/hr	Subtotal Hours	Subtotal Cost
Drainage Study Report												
1	Research and collect previous study reports, hydraulic models and record drawings.		10	20			50				80	\$9,900.00
2	Limited Spot elevation/ Cross-section Survey and drawing preparation				2			8		16		\$3,500.00
3	Drainage Area Maps		4	10		20	65	40			139	\$15,385.00
4	Compute Hydrology and Hydrographs		4	6		20	90	17			137	\$15,340.00
5	Houstorm Modelling for Existing and Proposed Conditions		4	6		20	44				74	\$8,980.00
6	Preparation of Report		6	10		25	55		25		121	\$13,015.00
7	Drainage Coordiantion with MUD 23, Fort Bend County and LJA			1		6	16				23	\$2,670.00
8	Project Management and Q.A./ Q.C.	5	15	20							40	\$6,450.00
Total Hours											614	
TOTAL COST:												\$75,240.00

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 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**

Certificate Number:
 2016-100753

Date Filed:
 08/17/2016

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Amani Engineering, Inc.
 Houston, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Fort Bend County

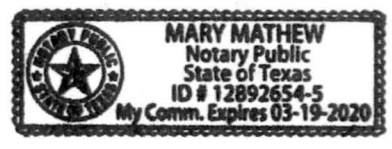
3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

131480
 Professional Engineering and Surveying Services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

5 Check only if there is NO Interested Party.

6 AFFIDAVIT I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.



H. Prasad Kolluru
 Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said H. PRASAD KOLLURU, PE, this the 17th day of AUGUST, 2016, to certify which, witness my hand and seal of office.

Dinan Signature of officer administering oath
 MARY MATHEW Printed name of officer administering oath
 NOTARY PUBLIC Title of officer administering oath

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

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Amani Engineering, Inc.
Houston, TX United States

Certificate Number:
2016-100753

Date Filed:
08/17/2016

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Fort Bend County

Date Acknowledged:
09/06/2016

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
131480
Professional Engineering and Surveying Services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

5 Check only if there is NO Interested Party.

6 AFFIDAVIT I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

Signature of officer administering oath Printed name of officer administering oath Title of officer administering oath