

STATE OF TEXAS §
 §
 COUNTY OF FORT BEND §

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES
 DESIGN OF TRAFFIC SIGNALS – CINCO RANCH BOULEVARD AT ENCHANTED MEADOW LANE**

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 Transcend Engineers & Planners, LLC, (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas.

WITNESSETH

WHEREAS, County desires that Contractor design the traffic signals for the intersection of Cinco Ranch Boulevard at Enchanted Meadow Lane in Fort Bend County, Texas, (hereinafter "Services"); 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 Services to County as described in Contractor's Proposal dated March 25, 2019 attached hereto as Exhibit "A" and included 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 billed at the applicable rates as described in Exhibit A is fifty-one thousand nine hundred sixty-five dollars and 40/100 (\$51,965.40). In no case shall the amount paid by County under this Agreement exceed the Maximum Compensation without an amendment 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 fifty-one thousand nine hundred sixty-five dollars and 40/100 (\$51,965.40), 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 fifty-one thousand nine hundred sixty-five dollars and 40/100 (\$51,965.40).

Section 5. Time of Performance

Time for performance of the Scope of Services under this Agreement shall begin on Contractor's receipt of a notice to proceed and end no later than December 31, 2021. 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.

10.1.2 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.

10.1.3 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.

10.1.4 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.

10.1.5 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, excluding Professional Liability, 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 ALL LOSSES, LIABILITIES, CLAIMS, CAUSES OF ACTION, INCLUDING THE REIMBURSEMENT OF COUNTY'S REASONABLE ATTORNEYS FEES IN PROPORTION TO CONTRACTOR'S LIABILITY, ARISING FROM ACTIVITIES OF CONTRACTOR, ITS AGENTS, SERVANTS OR EMPLOYEES, PERFORMED UNDER THIS AGREEMENT THAT RESULT FROM THE NEGLIGENT ACT, INTENTIONAL TORT, ERROR, OR OMISSION OF CONTRACTOR OR ANY OF CONTRACTOR'S AGENTS, SERVANTS OR EMPLOYEES.

Section 12. Confidential and Proprietary Information

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

12.2 Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to County hereunder, and to advise each of its employees and agents of their

obligations to keep Confidential Information confidential. Contractor shall use its best efforts to assist County in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limitation of the foregoing, Contractor shall advise County immediately in the event Contractor learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Agreement and Contractor will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or Contractor against any such person. Contractor agrees that, except as directed by County, Contractor will not at any time during or after the term of this Agreement disclose, directly or indirectly, any Confidential Information to any person, and that upon termination of this Agreement or at County's request, Contractor will promptly turn over to County all documents, papers, and other matter in Contractor's possession which embody Confidential Information.

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

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

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

Section 13. Independent Contractor

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

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

Section 14. Notices

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

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

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

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

Contractor: Transcend Engineers & Planners, LLC
Attn: Raj Basavaraju, P.E., PTOE
13518 Fawn Lily Drive
Cypress, Texas 77429

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 it 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 that if Contractor employs ten (10) or more full-time employees and this Agreement has a value of \$100,000 or more, 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.


BY ACCEPTANCE OF CONTRACT, CONTRACTOR ACKNOWLEDGES THAT FORT BEND COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

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

TRANSCEND ENGINEERS & PLANNERS, LLC






Grady Prestage, Commissioner, Precinct 2
Presiding Officer, Commissioners Court, November 26, 2019

11/7/19

Date

Date

ATTEST:

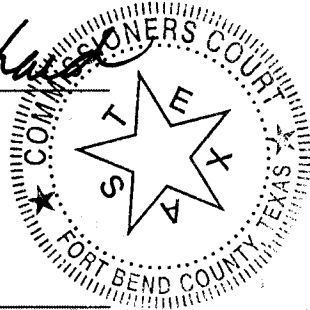


Laura Richard, County Clerk

APPROVED:



J. Stacy Slawinski, 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 \$51,965.40 to accomplish and pay the obligation of Fort Bend County under this contract.



Robert Ed Sturdivant, County Auditor

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EXHIBIT A

March 25, 2019

Mr. Rick Staigle, P.E., PTOE
First Assistant County Engineer
Fort Bend County Engineering
301 Jackson Street
Richmond, TX 77469

Attention: Chris Debaillon, P.E., PTOE
Assistant County Engineer - Traffic

Subject: **Signalization at Cinco Ranch Boulevard and Enchanted Meadow Lane**

Dear Rick,

Transcend Engineers & Planners, LLC (Transcend) is pleased to submit this proposal to provide engineering services for Signal Design at the intersection of Cinco Ranch Boulevard and Enchanted Meadow Lane in Katy, TX.

Assumptions

- Fort Bend County has performed operational analysis of the subject intersection and has established required Level of Service (LOS) in the design year.
- Fort Bend County has performed signal warrant study for the subject intersection.
- Signal Timing and Crosswalk Locations have been identified by Fort Bend County based on previously performed engineering studies.
- The engineering design shall be performed in accordance with Fort Bend County and TxDOT design guidelines, standards and specifications and generally accepted procedures, including approved variances.
- The intersection is unsignalized at this time and shall receive a new conventional signal system controlled by Econolite Cobalt controller or similar in a ground-mounted cabinet.
- Interim reviews shall be at the 70% and 95% submittals.

Scope of Work

Survey Coordination

Transcend shall work with MBCO engineering & Surveying to ensure the surveyor will provide the required topography, Survey Control and Existing ROW. Transcend will ensure MBCO provides topo cut sheets including alignment information. Under the County's guidance, Transcend shall also coordinate with the Surveyor for Proposed ROW as optional additional.

PER Support Services

Transcend shall support the Preliminary Engineering Report (PER) preparation to include the following:

- Present an analysis of the intersection traffic operation and LOS for the AM and PM peak hours for existing traffic/geometric conditions and proposed traffic/geometric conditions
- Perform left turn phasing analysis along Enchanted Meadow Lane to analyze split phasing versus possible lane assignment changes.
- Prepare turning template diagram to check whether left turns along Enchanted Meadow Lane can be operated concurrently.

- Prepare Flashing Yellow Arrow exhibit for left turns along Cinco Ranch Boulevard
- Develop schematic of the proposed signal layout
- Develop Construction Cost estimate for the approved signal layout

Design Services

Transcend shall design the SIGNAL to include the following:

- Mast arm configuration and horizontal LED vehicle signal heads
- Two pole-mounted LED luminaires, in northwest and southeast corners, for safety lighting.
- Fully actuated with Radar detection (using Vantage Radius by Iteris) for vehicles and push buttons for pedestrians
- Protected/permissive phasing with flashing yellow indications for left turns along Cinco Ranch Boulevard. Left turn phasing along Enchanted Meadow Lane is TBD.
- Pedestrian related LED countdown signals, push buttons, signing and crosswalks
- New wheelchair ramps (Type 7 with sidewalk setback from curb) in compliance with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) as adopted by Fort Bend County/TxDOT
- New pavement markings up to 200 feet on each leg of the intersection

Transcend shall develop Plan layouts to include the following sheets:

- Title Sheet & Index of sheets
- General Notes
- Basis of Estimate
- Existing Conditions Layout
- Proposed Traffic Signal Layout
- Signal Standards and Details
- Signing and Pavement Markings Layout

Transcend shall prepare Plan Layouts per Fort Bend County and TxDOT signal design guidelines as one bid-ready package as follows:

- Prepare all design drawings using MicroStation consistent with the level structure required by Fort Bend County
- Prepare at 1"=40' scale in English Units as 11" x 17" layouts
- Submit one PDF copy at each interim review
- Provide basis of estimate in Fort Bend County format
- Sign and Seal bond set of plans for final submittal
- Provide computer files containing all required design drawings

Exclusions

The following are NOT included in Transcend's scope of work:

| | |
|---|--|
| Left Turn Lane modifications/extensions | Drainage Design |
| Interconnect Layout | Storm Water Pollution Prevention Plans (SW3P) |
| Site-specific traffic control plans | Expert Testimony |
| Traffic signal timing adjustment | Record drawings |
| Topographic Survey | Design changes outside scope of services |
| Construction Staking | Coordination on Easements and Mast Arm Style |
| ROW Abstracting | Coordination with power company, electric company, HOA and Utilities |

| | |
|---------------------------|--|
| Geotechnical Engineering | Review shop drawings or perform final inspection |
| Contract Support Services | Construction Support Services |

Compensation

Transcend's and MBCO's estimated fixed fee is as follows which includes labor and non-labor reimbursable expenses. The hours estimate and cost breakdown for Transcend are shown in Attachment A while MBCO's survey proposal is shown in Attachment B.

| Task | Fee |
|---|--------------------|
| TRANSCEND | |
| PER Support Services | \$6,180.00 |
| Design Services | \$25,260.00 |
| Basic Survey Coordination Fee | \$1,296.50 |
| Optional Additional Survey Coordination Fee | \$544.90 |
| TOTAL | \$33,281.40 |
| MBCO | |
| Basic Survey Fee | \$12,965.00 |
| Optional Additional Survey Coordination Fee | \$5,449.00 |
| TOTAL | \$18,414.00 |
| GRAND TOTAL | \$51,965.40 |

Transcend shall submit monthly Invoices as lumpsum showing percent work complete. Transcend will consider work not specifically stated above as additional with a right to negotiate.

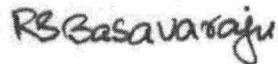
Schedule

Transcend estimates that the Design Services for the subject signal can be completed within 120 calendar days from Notice to Proceed (NTP). This schedule includes a reasonable time required for topographic survey (30 days), utility coordination and agency review. If the schedule needs to be revised, Transcend will defer to Fort Bend County. Note that Transcend shall not proceed with any work or additional services without written NTP from Fort Bend County.

Please contact me at 832.492.4499 or at raj@transcendengineers.com with any questions. We appreciate the opportunity to serve Fort Bend County and look forward to NTP.

Regards,

Transcend Engineers & Planners, LLC.



Raj Basavaraju, P.E., PTOE
Principal

Attachments:

- A. Transcend Hours Estimate & Cost Breakdown
- B. MBCO Survey Proposal

**ATTACHMENT A
HOURS ESTIMATE & COST BREAKDOWN
SIGNALIZATION AT CINCO RANCH BOULEVARD AND ENCHANTED MEADOW LANE**

| Task Description | No. of Sheets | Project Manager | Project Engineer | Traffic Engineer | CADD Technician | Project Admin. | Total Hours | Cost |
|--|------------------|--------------------|---------------------|---------------------|--------------------|-------------------|----------------|--------------------|
| Labor Rate | | \$210.00 | \$165.00 | \$135.00 | \$105.00 | \$90.00 | | |
| PER SUPPORT SERVICES | | | | | | | | |
| Project Management (incl. QA/QC) | n/a | 1 | | | | 1 | 2 | \$300.00 |
| Operational Analysis Summary | n/a | | 2 | 4 | | | 6 | \$870.00 |
| Left Turn Phasing Analysis | | | 2 | 6 | | | 8 | \$1,140.00 |
| Turning Template Diagram | | | 1 | 1 | 2 | | 4 | \$510.00 |
| Flashing Yellow Arrow Exhibit | | | 1 | 3 | | | 4 | \$570.00 |
| Signal Schematic (1 Proposed Layout) | 1 | 1 | 2 | 4 | 8 | | 15 | \$1,920.00 |
| Construction Cost Estimate (1 Approved Layout) | n/a | | 2 | 4 | | | 6 | \$870.00 |
| PER SUPPORT SERVICES HOURS/COST | 1 | 2 | 10 | 22 | 10 | 1 | 45 | \$6,180.00 |
| DESIGN SERVICES | | | | | | | | |
| Project Management (incl. QA/QC) | n/a | 4 | | | | 2 | 6 | \$1,020.00 |
| Site Inventory | n/a | | 4 | 4 | | | 8 | \$1,200.00 |
| Meetings (Kick-off, Coordination) | n/a | 2 | 2 | | | | 4 | \$750.00 |
| Title Sheet & Index of sheets | 1 | | | 1 | 4 | | 5 | \$555.00 |
| General Notes | 1 | 1 | 1 | 2 | 4 | | 8 | \$1,065.00 |
| Basis of Estimate | 1 | 1 | 6 | 6 | 4 | | 17 | \$2,430.00 |
| Existing Conditions Layout | 1 | 1 | 3 | 4 | 8 | | 16 | \$2,085.00 |
| Proposed Traffic Signal Layout | 3 | 4 | 8 | 12 | 60 | | 84 | \$10,080.00 |
| Signal Standards and Details | 10 | | 2 | 2 | 6 | | 10 | \$1,230.00 |
| Signing and Pavement Markings Layout | 1 | 1 | 3 | 8 | 16 | | 28 | \$3,465.00 |
| Submittals (70%, 95%, 100%) | n/a | | 1 | 3 | 6 | 2 | 12 | \$1,380.00 |
| DESIGN SERVICES HOURS/COST | 18 | 14 | 30 | 42 | 108 | 4 | 198 | \$25,260.00 |
| GRAND TOTAL | | | | | | | | \$31,440.00 |



WBE | DBE
SBE | HUB
CERTIFIED

PROPOSAL FOR LAND SURVEYING SERVICES

March 25, 2019

Raj Basavaraju, P.E., PTOE
Principal
Transcend
13518 Fawn Lily Dr.
Cypress, TX 77429

Ref: Cinco Ranch Boulevard and Enchanted Meadow Lane Intersection topographic survey

Dear Mr. Basavaraju:

MBCO Engineering, LLC. (MBCO) is pleased to submit this proposal for professional surveying services to Transcend for professional surveying services for the topography of the intersection of Cinco Ranch Boulevard and Enchanted Meadow Lane.

Topographic Survey

MBCO will perform a topographic survey that meets The Manual of Practice for Land Surveying in the State of Texas for a Category 6, Condition 2 topographic survey. The horizontal datum will be based on the Texas State Plane Coordinate System, Zone 4204, South Central Zone with a vertical datum based on GPS static sessions utilizing NAVD 88, Geoid 12B. The extents of the topographic survey will be from Right of Way to Right of Way for 500 feet in each of the three directions of roadway from the intersection of Cinco Ranch Boulevard and Enchanted Meadow Lane. Existing Right of Way will be located and shown meeting Category 1a, Condition 2 standards of the Manual of Practice for Land Surveying in the State of Texas. Natural and structural features that will be gathered in the field are as follows:

- Back of Curb and Gutter located at each expansion joint of the concrete roadway
- Centerline of roadway
- Natural ground within the median and within the Right of Way of the roadways
- Lane Lines and Pedestrian Crossings
- All above ground features within the Right of Way (fire hydrants, power and traffic poles, signal boxes, man holes, water valves, etc.)
- Traffic Signal Sensors within the roadway
- Sanitary and Storm Systems within the project corridor and one junction (i.e. man hole or inlet) outside of project corridor
- All trees within the Right of Way within the project corridor
- MBCO will perform a Level B SUE concerning all underground utilities in the project corridor.



WBE | DBE
SBE | HUB
CERTIFIED

Easement and Metes and Bounds Description

MBCO will provide four legal Metes and Bounds Descriptions with Exhibits. MBCO will stake monumentation of the newly acquired Right-of-Way in the field. MBCO will provide Title Certificates for the 4 properties from which the takings will come.

Deliverables

MBCO will deliver a CAD file in 2016 .dwg format containing a DTM surface model along with a CSV fill of all points. MBCO will also produce signed and sealed topographic sheets showing the topographic survey, roadway Right of Way, and adjoining land owners on 22x34 paper size. MBCO will provide control sheets for the project. MBCO will deliver four legal Metes and Bounds Descriptions with Exhibits.

Topographic Survey.....\$12,965.00

Easement and Metes and Bounds Description.....\$5,449.00

TOTAL.....\$18,414.00

SCHEDULE:

MBCO is requesting 30 calendar days to complete the above said work once the Notice to Proceed has been given.

We appreciate the opportunity to submit this proposal and look forward to working with you.



WBE | DBE
SBE | HUB
CERTIFIED

COMPENSATION:

The estimated cost of the above described services is \$18,414.00 and will be billed at the end of each month on a percent complete basis for each task listed in the attached Level of Effort Spreadsheet.

This cost proposal is valid for 30 days, and may be re-evaluated after such time to account for any changes with the project scope, environmental factors and/or the general rate schedule.

Thank you for the opportunity and we appreciate doing business with you.

Sincerely,

David P. Brister
Survey Department Manager
(W) 281-760-1656
(C) 713-203-9417



WBE | DBE
SBE | HUB
CERTIFIED

If this proposal is acceptable, please sign and return a copy.

Acceptance: If this proposal meets with your approval, please so indicate your acceptance by executing it in the space provided below and return two originals. Your written acceptance of this proposal will consummate the Agreement which can be terminated by either party upon receipt of written notice. Upon termination, all fees currently earned under the terms of this Agreement will be due and promptly paid.

Transcend _____

BY: _____

DATE: _____

NAME: _____

TITLE: _____

ADDRESS: 13518 Fawn Lily Dr.
Cypress, TX 77429

MBCO ENGINEERING, LLC.
"ENGINEER"

BY: _____

DATE: _____

NAME: Bonnie Moss

TITLE: President

ADDRESS: 1505 Highway 6 South, Suite 180
Houston, TX 77077

Exhibit A

Scope of Services to be provided in the highlighted area below:

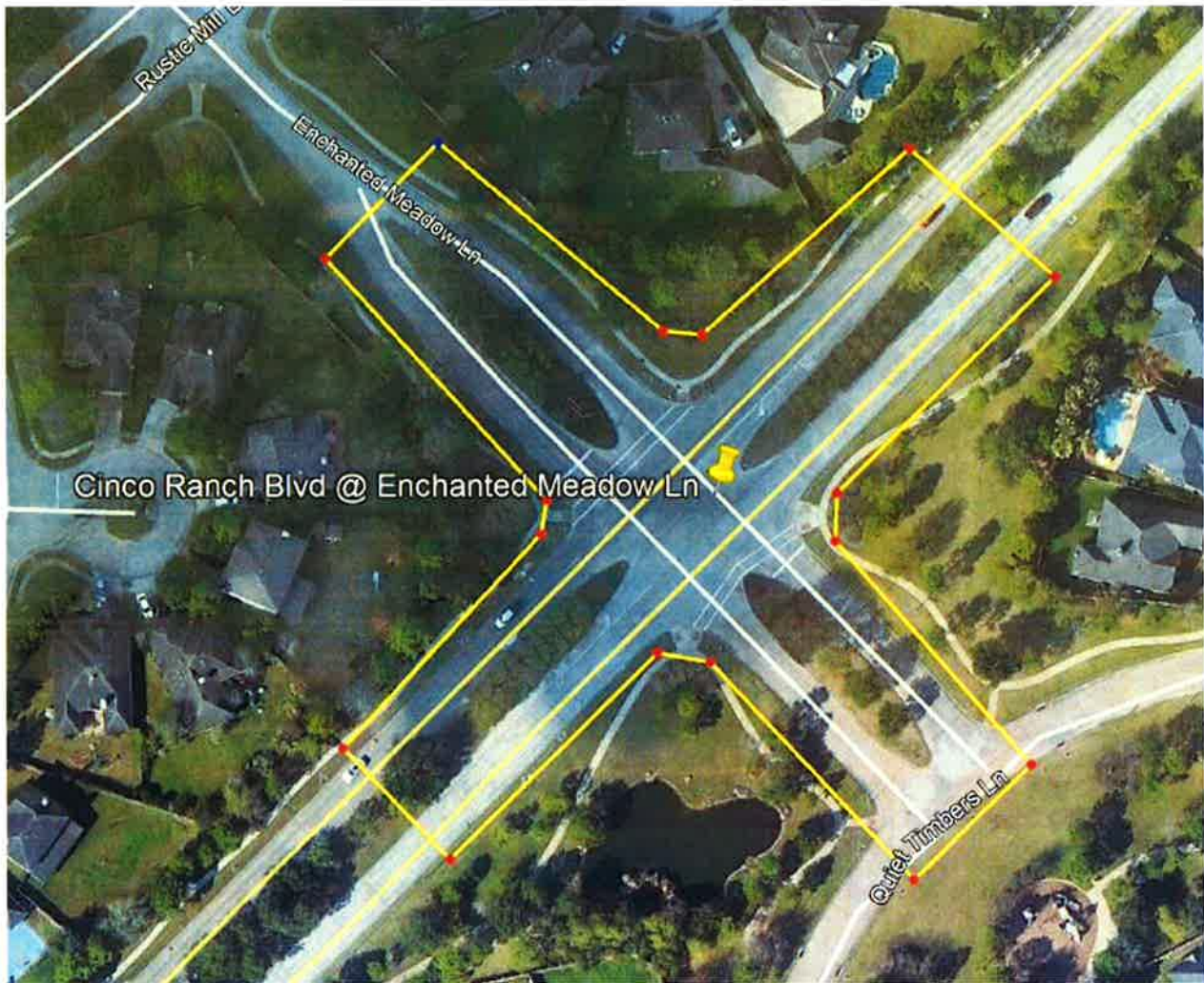


EXHIBIT D-FEE SCHEDULE (MBCO, INC.)
METHOD OF PAYMENT: LUMP SUM

Contract Number 14-848P5007

PRIME PROVIDER NAME: MBCO
CONTRACT NUMBER:
PROJECT NAME/CSJ: Cinco Ranch and Enchanted Meadow

| TASK DESCRIPTION | PRINCIPAL | SENIOR PROJECT MANAGER | PROJECT MANAGER | RPLS | PROJECT ENGINEER | SURVEY CREW | SIT | DESIGNER | EIT | CADD OPERATOR | ADMIN/ CLERICAL | TOTAL LABOR HRS & COSTS | NO OF DWGS | LABOR HRS PER SHEET |
|--|-----------|------------------------|-----------------|----------|------------------|-------------|----------|----------|--------|---------------|-----------------|-------------------------|------------|---------------------|
| Topographic Survey | | | | | | | | | | | | | | |
| Control | | | | 1 | | 5 | 1 | | | | | \$ 1,115.00 | | |
| General Topo Survey & utilities | | | | 1 | | 30 | 1 | | | 3 | | \$ 5,695.00 | | |
| Boundary Survey & Drawing Boundary/PREP/Research | | | | 1 | | 5 | 1 | | | 8 | | \$ 1,995.00 | | |
| CAD Drawing | | | | 1 | | | | | | 30 | | \$ 3,455.00 | | |
| Survey Control Sheets | | | | 1 | | | | | | 5 | | \$ 705.00 | | |
| SUBTOTAL | | | | | | | | | | | | \$ 12,965.00 | | |
| Easement / Takings | | | | | | | | | | | | \$ - | | |
| M&B with Exhibits (Quantity of 4) | | | | 1 | | | 2 | | | 10 | | \$ 1,475.00 | | |
| Easement Stakeout | | | | | | 10 | 1 | | | | | \$ 1,810.00 | | |
| Title Certificate for Property (4@ \$541) | | | | | | | | | | | | \$ 2,164.00 | | |
| | | | | | | | | | | | | \$ - | | |
| | | | | | | | | | | | | \$ - | | |
| SUBTOTAL | | | | | | | | | | | | \$ 5,449.00 | | |
| HOURS SUB-TOTALS | 0 | 0 | 0 | 6 | 0 | 50 | 6 | 0 | 0 | 56 | 0 | 116 | | |
| CONTRACT RATE PER HOUR | 215 | 175 | 150 | 155 | 125 | 170 | 110 | 130 | 90 | 110 | 50 | | | |
| TOTAL LABOR COSTS | \$0.00 | \$0.00 | \$0.00 | \$930.00 | \$0.00 | \$8,500.00 | \$660.00 | \$0.00 | \$0.00 | \$6,160.00 | \$0.00 | \$18,414.00 | | |
| % DISTRIBUTION OF STAFFING | 0.0% | 0.0% | 0.0% | 5.1% | 0.0% | 42.4% | 5.1% | 0.0% | 0.0% | 47.5% | 0.0% | | | |
| TOTAL | | | | | | | | | | | | \$18,414.00 | | |

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

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
Transcend Engineers & Planners, LLC
Cypress, TX United States

Certificate Number:
2019-558602

Date Filed:
11/05/2019

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:
11/26/2019

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.
Transcend Engineering
Traffic Signal Design for Cinco Ranch Boulevard and Enchanted Meadow Lane

| 4 | Name of Interested Party | City, State, Country (place of business) | Nature of interest (check applicable) | |
|---|--------------------------|--|---------------------------------------|--------------|
| | | | Controlling | Intermediary |
| | | | | |
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5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is _____, and my date of birth is _____.

My address is _____, _____, _____, _____, _____.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in _____ County, State of _____, on the _____ day of _____, 20____.
(month) (year)

Signature of authorized agent of contracting business entity
(Declarant)