

STATE OF TEXAS                   §  
   §  
COUNTY OF FORT BEND       §

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES**

THIS AGREEMENT is made and entered into by and between Fort Bend County, (hereinafter "County"), a body corporate and politic under the laws of the State of Texas, and HR Green, Inc., (hereinafter "Consultant"), a company authorized to conduct business in the State of Texas.

**WITNESSETH**

WHEREAS, County desires that Consultant provide professional engineering services for roadway improvements for select side streets in Magnolia Place along Evergreen Street, California Street, and Post Oak Street under Mobility Bond Project No. 20225x pursuant to SOQ 14-025, (hereinafter "Services"); and

WHEREAS, County has determined Consultant is the most highly qualified provider of the desired Services on the basis of demonstrated competence and qualifications, and County and Consultant 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, Consultant 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**

Consultant shall render the professional engineering services as described in Consultant's proposal dated September 23, 2022 and attached hereto as Exhibit A, and incorporated herein for all purposes.

**Section 2. Personnel**

2.1 Consultant 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 Consultant 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 Consultant shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of Consultant 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 Consultant's fees shall be calculated at the rates set forth in the attached Exhibit A. The Maximum Compensation for the performance of Services within the Scope of Services described in Exhibit A is one million two hundred forty-two thousand three hundred seventy-one dollars and 82/100 (\$1,242,371.82) 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 Consultant 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 Consultant based on the following procedures: Upon completion of the tasks identified in the Scope of Services, Consultant 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 Consultant clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, that County shall have available the total maximum sum of one million two hundred forty-two thousand three hundred seventy-one dollars and 82/100 (\$1,242,371.82) specifically allocated to fully discharge any and all liabilities County may incur.

4.2 Consultant does further understand and agree, said understanding and agreement also being of the absolute essence of this Agreement, that the total maximum compensation that Consultant may become entitled to and the total maximum sum that County may become liable to pay to Consultant shall not under any conditions, circumstances, or interpretations thereof exceed one million two hundred forty-two thousand three hundred seventy-one dollars and 82/100 (\$1,242,371.82).

### **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, 2026. Consultant 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 Consultant 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 Consultant 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 Consultant 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 Consultant 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. Consultant'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 Consultant.

## **Section 8. Ownership and Reuse of Documents**

All documents, data, reports, research, graphic presentation materials, etc., developed by Consultant 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. Consultant shall promptly furnish all such data and material to County on request.

## **Section 9. Inspection of Books and Records**

Consultant will permit County, or any duly authorized agent of County, to inspect and examine the books and records of Consultant 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, Consultant 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. Consultant shall provide certified copies of insurance endorsements and/or policies if requested by County. Consultant 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. Consultant 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 Consultant shall contain a waiver of subrogation in favor of County and members of Commissioners Court. For Commercial General Liability, the County shall be named as an Additional Insured on a Primary & Non-Contributory basis.

10.3 If required coverage is written on a claims-made basis, Consultant 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**

**CONSULTANT 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 CONSULTANT'S LIABILITY, ARISING FROM ACTIVITIES OF CONSULTANT, ITS AGENTS, SERVANTS OR EMPLOYEES, PERFORMED UNDER THIS AGREEMENT THAT RESULT FROM THE NEGLIGENT ACT, INTENTIONAL TORT, ERROR, OR OMISSION OF CONSULTANT OR ANY OF CONSULTANT'S AGENTS, SERVANTS OR EMPLOYEES.**

#### **Section 12. Confidential and Proprietary Information**

12.1 Consultant 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 Consultant 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 Consultant 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 Consultant) publicly known or is contained in a publicly available document; (b) is rightfully in Consultant'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 Consultant who can be shown to have had no access to the Confidential Information.

12.2 Consultant agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Consultant 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. Consultant 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, Consultant shall advise County immediately in the event Consultant 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 Consultant will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or Consultant against any such person. Consultant agrees that, except as directed by County, Consultant 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, Consultant will promptly turn over to County all documents, papers, and other matter in Consultant's possession which embody Confidential Information.

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

12.5 Consultant 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 Consultant**

13.1 In the performance of work or services hereunder, Consultant 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 Consultant 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, 1<sup>st</sup> Floor  
Richmond, Texas 77469

Consultant: HR Green, Inc.  
11011 Richmond Avenue, Suite 500  
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**

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

## **Section 16. Standard of Care**

Consultant 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, Consultant 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 Consultant 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 Consultant 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**

For purposes of sections 2252.152, 2271.002, and 2274.002, Texas Government Code, as amended, Consultant hereby verifies that Consultant and any parent company, wholly owned subsidiary, majority-owned subsidiary, and affiliate:

25.1 Unless affirmatively declared by the United States government to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization, is not identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 806.051, 807.051, or 2252.153 of the Texas Government Code.

25.2 If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Consultant does not boycott Israel and is authorized to agree in such contracts not to boycott Israel during the term of such contracts. "Boycott Israel" has the meaning provided in section 808.001 of the Texas Government Code.

25.3 If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Consultant does not boycott energy companies and is authorized to agree in such contracts not to boycott energy companies during the term of such contracts. "Boycott energy company" has the meaning provided in section 809.001 of the Texas Government Code.

25.4 If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Consultant does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and is authorized to agree in such contracts not to discriminate against a firearm entity or firearm trade association during the term of such contracts. "Discriminate against a firearm entity or firearm trade association" has the meaning provided in section 2274.001(3) of the Texas Government Code. "Firearm entity" and "firearm trade association" have the meanings provided in section 2274.001(6) and (7) of the Texas Government Code.

**Section 26. Human Trafficking**

BY ACCEPTANCE OF AGREEMENT, CONSULTANT ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

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

HR GREEN, INC

\_\_\_\_\_  
KP George, County Judge

\_\_\_\_\_  
Authorized Agent – Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Authorized Agent – Printed Name

ATTEST:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Laura Richard, County Clerk

\_\_\_\_\_  
Date

APPROVED:

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

**AUDITOR'S CERTIFICATE**

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

\_\_\_\_\_  
Robert Ed Sturdivant, County Auditor

# EXHIBIT A



▶ 11011 Richmond Avenue | Suite 200  
Houston, TX 77042  
**Main** 713.965.9996 + **Fax** 713.965.0044  
▶ [HRGREEN.COM](http://HRGREEN.COM)

Mr. Gabriel Odreman, PE  
1160 Dairy Ashford, Suite 500  
Houston, TX 77079

September 23, 2022

RE: Proposal for Roadway Improvements for select side streets in Magnolia Place along  
Evergreen Street, California Street, and Post Oak Street in Fort Bend County.

Dear Mr. Odreman:

HR Green is pleased to submit this proposal for performing engineering and construction phase services for the above referenced project. The proposal includes Preliminary Design Phase, Final Design Phase, Bid Phase, and Construction Phase Services based on our understanding of the project as discussed with you and your staff and from exhibits and information provided for the project. This proposal presents a general overview with preliminary construction cost estimate, scope of service, and proposed fee.

#### **GENERAL OVERVIEW**

The project limits are located within Magnolia Place Area in Unincorporated Fresno, Texas in Fort Bend County. There are three primary project areas that will be the focus of this project. The project areas includes 17 streets: Evergreen Area with nine streets, California Area with two streets, and Post Oak Area with six streets. The existing roadway(s) consists of 20 foot wide gravel roads, open ditch areas, and variable width ROW that needs to be properly delineated. The proposed improvement will be outcome of an evaluation by the engineer team seeking to propose the best road width that fits within the existing and/or acquired limited ROW. It will potentially be a 2-lane 20-foot wide concrete curb and gutter section. The improvements will also include curb drain inlets and storm sewer pipe. This initial concept will be analyzed in a case by case basis and will ultimately be approved by Fort Bend County at the PER Meeting and through the design submittal.

The project estimated construction cost is \$8,648,480.00 including \$6,969,144 for construction and \$1,679,336.00 for ROW acquisition. Other cost (e.g. utility relocations, water and sewer construction, public engagement, etc.) are not included in this estimated cost.

The ROW cost has not been confirmed or checked by HR Green at this time but will be part of our Preliminary Engineering efforts.

#### **PROPOSED FEE**

The proposed fee for Preliminary Design Phase, Final Design Phase and Bid/Construction Phase Services is \$1,242,372 (including sub-consultant fees). Design Phase Services are based on lump sum fees. Construction Phase Services are based on Time and Materials. Reimbursable expenses will be charged at direct cost and mileage will be charged at the prevailing federal rate.



**Phase 1: Preliminary Phase Services (Lump Sum Service)**

Preliminary Design by HR Green (Duration = 120 days from completion of approved topo survey)	\$278,655.00
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**Phase 2: Final Design Services (Lump Sum Service)**

Final Design by HR Green Duration = 210 days from Final Design NTP	\$372,827.50
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**Phase 3: Bid and Construction Phase Services (Time & Materials Services)**

Bid and CPS by HR Green	\$27,430.32
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<b>Total Services by HRG</b>	<b>\$678,912.82</b>
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**Additional Services**

Topographic Survey by Interland Surveying	\$251,083.00
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Topographic Survey by MBCO Surveying	\$237,765.00
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Geotechnical Investigation by All-Terra	\$39,736.00
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<b>Total Additional Services</b>	<b>\$528,584.00</b>
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**Optional Additional Services**

SUE A / Underground Locates by Interland Surveying	\$34,875.00
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<b>Total Engineering Cost</b>	<b>\$1,242,371.82</b>
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## SCOPE OF SERVICES

### I. Preliminary Design Phase

- Project coordination with Fort Bend County and RPS.
- Meet every two weeks with Program Manager (take and provide meeting minutes)
- Project Management and Coordination
- Establish existing and proposed typical sections
- Establish cross sections.
- Determine drainage area needs (drainage report and preliminary roadway drainage design).
- Determine ROW acquisition needs
- Determine potential conflicts with existing facilities and utilities
- Prepare a Utility Conflict table.
- Identify critical path items
- Identify problem areas and potential resolution
- Determine permit and regulatory requirements
- Prepare a construction cost estimate
- Identify impacts to pipelines by locating the drainage high point at pipeline intersections.
- Prepare 30% plan set, consisting of all existing features shown on the plan and profile, and proposed improvements in plan only with minor annotation.
- Obtain FEMA Flood Insurance Rate Maps (FIRM) ([msc.fema.gov](https://www.msc.fema.gov))
- Prepare a Power Point and present report at PER Meeting.
- Obtain Geotechnical Report/Investigation (All-Terra Engineering)
- Coordinate with Surveyors to obtain Topographic Survey and ROW mapping (Interland and MBCO)
- Include Environmental Report (provided by Fort Bend County)
- Prepare Drainage Study.
- Evaluate detention needs and provide location and capacity needs (exhibits)
- Coordination with stakeholders (FBC, FBC drainage district, utility companies, schools affected, HOAs affected, etc)
- Perform QA/QC for PER phase
- Prepare Preliminary Engineering Design Report (PER)

### II. Final Design Phase Services

#### 70% Submittal

- Project coordination, data collection, review and approvals
- Prepare digital PDF copy of construction plans, specifications, and estimate.
- Prepare Title Sheet with project limits and 70% interim seal
- Prepare Index of Sheets
- Prepare General Notes
- Prepare existing and proposed Typical Sections
- Prepare 70% cross sections (100 foot intervals and earthwork calculations)
- Prepare overall Project Layout sheet
- Prepare Survey Control Map sheets (by surveyor).

- Prepare Right-of-Way Map sheets (by surveyor)
- Prepare Horizontal Alignment Data Sheets
- Prepare Roadway Plan and Profile sheets. 18 sheets, 500' each, showing all roadway features, alignment, profile, PC's, PT's, driveways, inlets and pipe runs.
- Prepare Drainage Area Map with hydraulic calculations and storm sewer details.
- Prepare a Traffic Control Plan
- Prepare Signing and Striping Plan sheets.
- Prepare Storm Water Pollution Prevention Plan sheets (SW3P)
- Prepare Quantity take-off calculations
- Prepare Roadway cross sections and earthwork quantities.
- Provide plans to all known utility companies
- Prepare a Specification Table of Contents (Harris County Specifications)
- Prepare engineers opinion of probable construction cost
- Prepare Bid Form with estimated units and total cost (PDF and Excel Format)
- Prepare Bid Manual with documents and specifications
- Prepare KMZ file of 70% design with proposed ROW.
- Perform QA/QC for 70% plans
- Prepare 70% Review Checklist
- 95% Submittal**
- Prepare digital PDF copy of construction plans, specifications, and estimate for 95% plans.
- Verify earthwork quantities with cross sections at 100-foot intervals
- Develop Standard Construction Details.
- Prepare 95% construction cost estimate.
- Provide plans to all known utility companies
- Prepare 95% Project Manual (bid form, specification table of contents, special specifications or conditions, contract documents)
- Prepare KMZ file of 95% design with proposed ROW.
- Perform QA/QC for 70% plans
- Address and respond to 70% review comments
- Prepare 95% Review Checklist.
- 100% Submittal**
- Prepare digital PDF copy of construction plans, specifications, and estimate for 100% plans.
- Prepare 100% Project Manual (bid form, specification table of contents, special specifications or conditions, contract documents)
- Prepare 100% construction cost estimate.
- Provide plans to all known utility companies
- Prepare KMZ file of 100% design with proposed ROW.
- Perform QA/QC for 100% plans
- Address and respond to 95% review comments
- Develop Construction Timeline in calendar days for construction
- Prepare 100% Review Checklist.

**III. Bid Phase Services**

- Attend Pre-Bid meeting (take and provide meeting minutes)
- Prepare Project Manual in PDF format for bidding.
- Prepare Bid Form in Excel format to calculate totals from vendors with all cells locked except the unit pricing.
- Provide single project file in PDF format, the bid form in Excel format, and one drawing plan set to the Program Manager
- Provide information to and answer questions from bidders concerning construction documents.

**IV. Construction Phase Services**

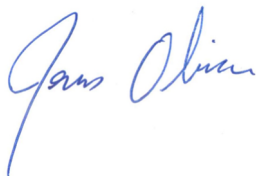
- Attend Pre-Construction meeting (take and provide meeting minutes)
- Prepare hard copies of plan sets and project manuals for pre-construction meeting.
- Review and respond accordingly to submittals and RFI's.
- Assist in preparing change orders necessitated by field conditions
- Assist the County in conducting final inspection walkthrough of the project. Coordinate with the County and the Contractor on the punch list items identified in the final inspections.
- Provide one (1) set of reproducible record drawings based on the red lined drawings provided to HR Green by the Contractor.
- Develop KMZ file showing the existing/proposed right-of-way and proposed improvements and upload to Masterworks.

**NOT INCLUDED IN SCOPE OF SERVICES/ASSUMPTIONS:**

- Environmental Evaluation/Analysis not included.
- For construction phase services, detailed measurements and investigations are not part of this task.
- Attendance at Public meetings.
- On-site representation and construction inspection services are not part of this task.
- HR Green is not responsible for the means, methods, techniques, sequence of procedures of construction selected by the Contractor(s) or the safety precautions and programs incident to the work of the Contractor(s). HR Green is not responsible for the failure of the Contractor to perform the work in accordance with the construction documents.
- Construction testing is not included in this proposal. It is our understanding that the County will contract directly with a testing firm to perform testing services.

HR Green appreciates the opportunity to submit this proposal and we look forward to working with you and your staff on this important project. Please call should you have any questions or comments.

Sincerely,



Jesus Olivas, P.E.  
Project Manager  
**HR GREEN, INC.**





**TOTAL LEVEL OF EFFORT (LOE) FEE ESTIMATE**  
**FRESNO EVERGREEN PROJECT**  
**FORT BEND COUNTY**

	Construction Cost
<b>LUMP SUM SERVICES</b>	
PHASE 1 PRELIMINARY PHASE BASIC SERVICES - HR GREEN	\$278,655.00 3.98%
PHASE 2 FINAL DESIGN BASIC SERVICES - HR GREEN	\$372,827.50 5.33%
<b>SUB TOTAL LUMP SUM SERVICES</b>	<b>\$651,482.50 9.31%</b>
<b>TIME AND MATERIALS SERVICES</b>	
PHASE 3 BID PHASE AND CONSTRUCTION SERVICES - HR GREEN	\$27,430.32
<b>SUB TOTAL FOR TIME AND MATERIAL SERVICES</b>	<b>\$27,430.32 0.39%</b>
<b>TOTAL - HR GREEN</b>	<b>\$678,912.82 9.70%</b>
<b>ADDITIONAL SERVICES</b>	
SURVEY - INTERLAND SURVEYING	\$251,083 3.59%
SURVEY - MBCO SURVEYING	\$237,765 3.40%
GEOTECH - ALL-TERRA	\$39,736 0.57%
<b>TOTAL ADDITIONAL SERVICES</b>	<b>\$528,584.00 7.55%</b>
<b>OPTIONAL ADDITIONAL SERVICES</b>	
SUE A / UTILITY LOCATES - INTERLAND SURVEYING	\$34,875 0.50%
<b>PROJECT TOTAL</b>	<b>\$1,242,371.82 17.75%</b>

**LUMP SUM SERVICE**

DURATION FOR PRELIMINARY DESIGN PHASE BASIC SERVICES = 90 DAYS

	Principal / Managing Director	Senior Project Manager	Senior Engineer	Project Engineer	Staff Engineer	Senior CAD Technician	CAD Technician	Admin / Clerical	Total Hours	Total Cost	#of sheets	Total Hrs/Sht
<b>1. Project Coordination</b>												
1.1 Coordinate with Fort Bend County and GEC (invoicing and project coordination etc)	2	12						24	38	\$ 6,000		
1.2 Coordinate with Regulatory Agencies	1	1	8	1	1				12	\$ 2,085		
1.3 Meet every two weeks with Program Manager (minutes)/2 mng X 12 months = 24 meetings)		24	0					8	32	\$ 6,720		
1.4 Determine permit and regulatory requirements		2	8						10	\$ 1,810		
1.5 Coordinate with Geotech to obtain Geotechnical Report		2	4						6	\$ 1,150		
1.6 Coordinate with Private Utilities		1	8	1	1				11	\$ 1,815		
<b>Subtotal Hours</b>	3	42	28	2	2	0	0	32	109	\$ 19,580		
<b>Subtotal Fee</b>	\$ 810	\$ 10,290	\$ 4,620	\$ 260	\$ 240	\$ -	\$ -	\$ 3,360		<b>\$ 19,580</b>		
<b>2. Determine Right of Way Acquisition Needs</b>												
2.1 Coordinate with Sureport to establish road Right of Way (18 streets)	2	8	16	24						\$ 8,260	#of sheets	Total Hrs/Sht
2.2 Evaluate Proposed Cross Section and Proposed ROW needs (18 streets)		2	8	16	16					\$ 5,810		
2.3 Develop preliminary ROW Exhibit (18 streets)		4	8		16		24			\$ 7,100		
<b>Subtotal Hours</b>	2	14	32	40	32	0	24	0	144	\$ 21,170		
<b>Subtotal Fee</b>	\$ 540	\$ 3,430	\$ 5,280	\$ 5,200	\$ 3,840	\$ -	\$ 2,880	\$ -		<b>\$ 21,170</b>		
<b>3. Identify Existing Utilities and Potential Utility Conflicts</b>												
3.1 Determine Potential Conflicts with existing facilities and utilities		4	16	24					44	\$ 6,740	#of sheets	Total Hrs/Sht
3.2 Prepare a Utility Conflict Table		4			8				12	\$ 1,940		
<b>Subtotal Hours</b>	0	8	16	24	8	0	0	0	56	\$ 8,680		
<b>Subtotal Fee</b>	\$ -	\$ 1,960	\$ 2,640	\$ 3,120	\$ 960	\$ -	\$ -	\$ -		<b>\$ 8,680</b>		
<b>4. Identify Critical Path Items</b>												
4.1 Prepare a project schedule and identify Critical Path Design Elements	1	4	16						21	\$ 3,890	#of sheets	Total Hrs/Sht
<b>Subtotal Hours</b>	1	4	16			0	0	0	21	\$ 3,890		
<b>Subtotal Fee</b>	\$ 270	\$ 980	\$ 2,640	\$ -	\$ -	\$ -	\$ -	\$ -		<b>\$ 3,890</b>		
<b>5. Prepare Construction Cost Estimate</b>												
5.1 Prepare Construction Cost Estimate	1	2	4	6	16			4	33	\$ 4,540	#of sheets	Total Hrs/Sht
<b>Subtotal Hours</b>	1	2	4	6	16	0	0	4	33	\$ 4,540		
<b>Subtotal Fee</b>	\$ 270	\$ 490	\$ 660	\$ 780	\$ 1,920	\$ -	\$ -	\$ 420		<b>\$ 4,540</b>		
<b>6. Prepare 30% Complete Plans</b>												
6.1 Develop Plan and Profile Sheets (Plan & Profile) (37 sheets)(with proposed stm swr, inlets and utilities)	5	32	80	90	90	140	180		617	\$ 88,190	36	17.1
6.2 Develop Existing Typical Section (1 sheet)		1	1	1	1	4	12		20	\$ 2,720	1	20.0
6.3 Develop Proposed Typical Section (1 sheet)		1	1	1	1	4	12		20	\$ 2,720	1	20.0
6.4 Establish Preliminary Cross Sections (36 sheets)(every 100')		3	24	24	32				83	\$ 11,655	36	2.3
6.5 Field Visits/Data Collection for Base Map Preparation (check/verify topo survey, check driveways, etc.)		2	2	2	2				8	\$ 1,320		
6.6 Develop Project Alignment for each street (18 streets)		1	8	16	4				29	\$ 4,125		
6.7 Develop Proposed Profile Grade Line for each street (18 streets)		1	8	16	4				29	\$ 4,125		
6.8 Develop Proposed Plan Layout for each street (driveways, edge of pavement and tie-ins)		2	4	8	8		8		30	\$ 4,110		
6.9 Obtain FEMA Flood Insurance Maps (FIRM)		1	2						3	\$ 575		
6.10 Perform QA/QC for PER phase	1	4							5	\$ 1,250		

**DURATION FOR PRELIMINARY DESIGN PHASE BASIC SERVICES = 90 DAYS**

Phase I PRELIM PHASE BASIC SERV  
J:\2021\211644\Admin\Proposa\  
Evergreen Level of Effort 9-23-2022 rev4.xlsx



PHASE II: FINAL DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

DURATION SCHEDULE FOR BASIC SERVICES = 180 DAYS

LUMP SUM  
SERVICE

HOURLY RATE INCLUDING MULTIPLIER (3.00 )	Principal /										Total Hours	Total Cost
	Managing Director	Senior Project Manager	Senior Engineer	Project Engineer	Staff Engineer	Senior CADD Technician	CADD Technician	Admin / Clerical				
<b>1. COORDINATION, DATA COLLECTION, REVIEW AND APPROVAL</b>												
1.1 Project Meetings (Kick-Off + 3 Meetings @ 1 Hr Ea. + Meeting Minutes)	\$270.00 \$300.00	\$200.00	\$150.00 \$175.00	\$125.00 \$140.00		\$155.00	\$120.00 \$135.00	\$95.00 \$108.00	105 hrs	17	\$	2,910
1.2 Internal QA/QC ( 70%, 95%, 100% Reviews)		24	2	2						24	\$	5,880
1.3 Site Meeting with GEC (one)		2	2							6	\$	1,080
1.4 Coordinate, Review and Approvals With GEC (Invoicing, emails, etc)		12	0	0				40		52	\$	7,140
1.5 Coordinate, Review and Approvals with FBC Drainage District		4	2	4						10	\$	1,830
1.6 Coordinate, Review and Approvals with Fire Department		4	2	4						10	\$	1,830
1.7 Coordinate, Review and Approvals with Property Owners/Developers		4	2	4						10	\$	1,830
1.8 Coordinate, Review and Approvals with City of Arcola		4	2	4						10	\$	1,830
1.9 Provide plans to all known utility companies at 70%, 95%, and 100%		3	6	16			8			33	\$	4,765
1.10 Coordinate/Approval with Private Utilities		2	2	8						12	\$	1,860
Subtotal Hours	0	64	23	47	0	0	8	42		184	\$	30,955
Subtotal Fee	-	\$ 15,680	\$ 3,795	\$ 6,110	\$ -	\$ -	\$ 960	\$ 4,410			\$	30,955
<b>2. PLAN SET DEVELOPMENT - GENERAL FRONT END DRAWINGS</b>												
2.1 Title Sheet (Project Title, Location & Vicinity Map) (1 sheet)		1	2	2	2		12			19	\$	2,515
2.2 Index Of Drawings (2 sheets)		1	4	4	8		12			29	\$	3,825
2.3 General Construction Notes, Private Utility Notes (2 sheets)		1	2	2	4		8			17	\$	2,275
2.4 Legends (Const. & Topo), Abbreviations & Plan & Profile Key Notes (1 sheet)		1	2	4			0			7	\$	1,095
2.5 Project Sign for Fort Bend County (1 sheet)		0.5	1.5	2			0			4	\$	630
2.6 Prepare Specification Table of Contents (Harris County Specs)		1	2	2						5	\$	835
2.7 Prepare engineers opinion of probable construction cost 70%, 95%, and 100%		3	6	16	16					41	\$	5,725
2.8 Prepare Bid Manual with documents and specifications at 70%, 95%, and 100% submittals		3	24	6						33	\$	5,475
2.9 Prepare KMZ file to 70%, 95%, and 100% design with proposed ROW		1	4	6						11	\$	1,685
2.10 Prepare 70%, 95%, and 100% Review Checklist		4	6							10	\$	1,970
2.11 Develop Construction Timeline in calendar days for construction		8	0	0	0					8	\$	1,980
Subtotal Hours	0	24.5	63.5	44	30	0	32	0		184	\$	27,990
Subtotal Fee	-	\$ 6,003	\$ 8,828	\$ 5,720	\$ 3,600	\$ -	\$ 3,840	\$ -			\$	27,990



PHASE II: FINAL DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

DURATION SCHEDULE FOR BASIC SERVICES = 180 DAYS

LUMP SUM  
SERVICE

											Principal / Managing Director	Senior Project Manager	Senior Engineer	Project Engineer	Staff Engineer	Senior CADD Technician	CADD Technician	Admin / Clerical	Total Hours	Total Cost	#of sheets	Total Hrs/Sht	
HOURLY RATE INCLUDING MULTIPLIER (3.00 )											\$ 270	\$ 245	\$ 165	\$ 130	\$ 120	\$ 155	\$ 120		\$ 105				
3. DRAINAGE SHEETS																							
3.1 Overall Project Drainage Area Map (1 sheet)												1	2	4	8		15			30	\$ 3,855	1	30
3.2 Drainage System Map (9 sheets)												4	24	32	24		70			154	\$ 20,380	9	17,111.1
3.3 Hydraulic Calculations for Storm Sewer (3 sheets)												1	16	20	24		10			71	\$ 9,565	3	23,666.7
3.4 Inlet Details (4 sheets)												1	2	12		10			25	\$ 3,335	4	6.25	
3.5 Manhole and Junction Box Details (4 sheets)												1	2	8	56	8			19	\$ 2,575	4	4.75	
Subtotal Hours											0	8	46	76		0	113	0	299	\$ 39,710			
Subtotal Fee											\$ -	\$ 1,960	\$ 7,590	\$ 9,880	\$ 6,720	\$ -	\$ 13,560	\$ -		\$ 39,710			
4. TYPICAL SECTION SHEETS																							
4.1 Existing Roadway Typical Sections (1 sheet)												4								4	\$ 980	1	4
4.2 Proposed Typical Sections (1 sheet, Ultimate Section)												4								4	\$ 980	1	4
Subtotal Hours											0	8	0	0		0	0	0	8	\$ 1,960			
Subtotal Fee											\$ -	\$ 1,960	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ 1,960			
5. ROADWAY AND DRAINAGE PLAN & PROFILES																							
5.1 Project Layout with Pavement Limits & Boring Location Plan (2 sheets) (1"=250')												1	4	8			26			39	\$ 5,065	2	19.5
5.2 Roadway Plan and Profile Sheets (37 sheets) (500' each sheet) (including all roadway features, alignment, profile, PCs, PTs, driveways, storm sewer, inlets, pipes, manholes, etc.)											2	30	80	80	120	30	160			502	\$ 69,740	37	13,567.6
5.3 Prepare Horizontal Alignment Data sheets (2 sheet)												1	4	8			8			21	\$ 2,905	2	10.5
5.4 Design Storm Sewer System for each street (inlet locations, pipe sizes, HousStorm runs, Hydraulic Computations)												8	60	80			160			308	\$ 41,460	na	
5.5 Roadway and DrainageStandard Drawings (5 sheets)												1	2	8			24			35	\$ 4,495	5	7
5.6 Prepare Quantity take-off Calculations												1	2	20						23	\$ 3,175	na	
Subtotal Hours											2	42	152	204	120	30	378	0	928	\$ 126,840			
Subtotal Fee											\$ 540	\$ 10,290	\$ 25,080	\$ 26,520	\$ 14,400	\$ 4,650	\$ 45,360	\$ -		\$ 126,840			
6. SIGNING AND PAVEMENT MARKING PLANS																							
6.1 Signing and Pavement Marking Plans (16 sheets, double banked)												8	16	24	20	20	30			118	\$ 16,820	16	7.375
6.2 ADA Ramp Standard sheet (1 sheet)												0.5	1				8			9.5	\$ 1,248	1	9.5
6.3 Pavement Marking Details (2 sheets)												1	2	2			8			13	\$ 1,795	2	6.5
Subtotal Hours											0	9.5	19	26	20	20	46	0	140.5	\$ 19,863			
Subtotal Fee											\$ -	\$ 2,328	\$ 3,135	\$ 3,380	\$ 2,400	\$ 3,100	\$ 5,520	\$ -		\$ 19,863			



PHASE II: FINAL DESIGN PHASE LEVEL OF EFFORT (LOE) FEE ESTIMATE  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY

DURATION SCHEDULE FOR BASIC SERVICES = 180 DAYS

LUMP SUM  
SERVICE

HOURLY RATE INCLUDING MULTIPLIER (3.00 )											Principal / Managing Director	Senior Project Manager	Senior Engineer	Project Engineer	Staff Engineer	Senior CADD Technician	CADD Technician	Admin / Clerical	Total Hours	Total Cost	#of sheets	Total Hrs/Sht	
											270	245	165	130	120	155	120	105					
7. TRAFFIC CONTROL PLAN																							
7.1 Sequence of Construction Sheet (1 sheet)												1	1	4			4			10	\$ 1,410	1	10
7.2 Advance Warning Sign Layout (1 sheet)												1	2	6			8			17	\$ 2,315	1	17
7.3 TCP Overall Phasing Layout and narrative (1 sheet)												1	1	4			4			10	\$ 1,410	1	10
7.4 TCP Phasing Typical Sections(1 sheets)												1	2	6			8			17	\$ 2,315	1	17
7.5 Phase 1 Sheets (15 sheets) (double banked)												8	16	30			90			184	\$ 24,100	15	12,267
7.6 Phase 2 Sheets (15 sheets) (double banked)												8	16	30			90			184	\$ 24,100	15	12,267
7.7 Detour Plan Sheet (1 sheet)												1	2	4			8			15	\$ 2,055	1	15
7.8 TCP Standard Details (10 sheets)												1	4	4			12			21	\$ 2,865	10	2.1
Subtotal Hours											0	22	44	88	80	0	224	0		458	\$ 60,570		
Subtotal Fee											-	\$ 5,390	\$ 7,280	\$ 11,440	\$ 9,600	\$ -	\$ 26,880	\$ -			\$ 60,570		
8. STORM WATER POLLUTION PREVENTION PLAN (SW3P)																							
8.1 Develop Plan Sheets Double Banked (15 Sheets 1000' each)												4	16	24	40		60			144	\$ 18,740	15	9.6
8.2 SW3P Standard Details (5 sheets)														1			5			6	\$ 790	5	1.2
Subtotal Hours											0	4	16	25	40	0	65	0		150	\$ 19,470		
Subtotal Fee											-	\$ 980	\$ 2,640	\$ 3,250	\$ 4,800	\$ -	\$ 7,800	\$ -			\$ 19,470		
9. ROADWAY CROSS SECTIONS																							
9.1 Roadway Cross Sections (every 100')(36 sheets)												16	40	60			80			196	\$ 27,920	36	5.44444
9.2 Earthwork quantities(cut and fill)												2	24	30			60			116	\$ 15,560		
Subtotal Hours											0	18	64	90	0	0	140	0		312	\$ 43,470		
Subtotal Fee											-	\$ 4,410	\$ 10,560	\$ 11,700	\$ -	\$ -	\$ 16,800	\$ -			\$ 43,470		
10. Reproduction Services and other reimbursable expenses (Direct Cost)																							
Site visits, plans reproduction, Mileage																							
TOTAL BASIC SERVICES HOURS											2	200	417.5	600	346	50	1006	42	2663.5				
TOTAL BASIC SERVICES FEE											\$540.00	\$49,000.00	\$68,887.50	\$78,000.00	\$41,520.00	\$7,750.00	\$120,720.00	\$4,410.00	\$0.00	\$372,827.50			



PHASE III: BID AND CONSTRUCTION PHASE LEVEL OF EFFORT (LOE)  
FRESNO EVERGREEN PROJECT  
FORT BEND COUNTY  
(TIME AND MATERIAL SERVICES)

TASK No.	TASK DESCRIPTION	BASIS OF MANHOURL ESTIMATE		TOTAL MANHOURS PER WORK TASK BY STAFF CLASSIFICATION					TOTAL MHS PER WORK	TOTAL COSTS WITH 3.0 MULT. PER WORK TASK
		QNTY	UNIT	Principal	Senior Project Manager	Senior Engineer	CADD Technician	ADMIN		
1	PRE-BID PHASE									
	1.1 ATTEND PRE-BID MEETING	1	MH						8.00	\$ 1,640.04
	1.2 MAKE PROJECT MANUAL IN PDF FORMAT FOR BIDDING	1	MH		4.00	4.00			4.00	\$ 660.00
	1.3 PREPARE BID FORM IN EXCELL FORMAT WITH LOCKED CELLS EXCEPT UNIT PRICING	1	MH			8.00			8.00	\$ 1,320.00
	1.3 MAKE ENTIRE DRAWINGS SET IN A SINGLE PDF FILE FORMAT	1	MH			6.00	6.00		12.00	\$ 1,710.00
	1.5 ANSWER BIDDER QUESTIONS	1	MH			8.00			8.00	\$ 1,320.00
	1.6 PREPARE CHANGE ORDERS/ADDENDUMS AS NEEDED BY FIELD CONISITIONS	1	MH			8.00	8.00		16.00	\$ 2,280.00

February 23, 2022

HR Green  
11011 Richmond Avenue, Suite 200  
Houston, Texas 77042

Attn: Mr. Jesus M. Olivas, P.E.  
Project Manager

Re: Proposal  
Geotechnical Investigation  
Proposed Evergreen Side Streets  
Magnolia Place Mobility Bond Program  
Fort Bend County, Texas

All-Terra Proposal No.: APE22-888

Dear Mr. Olivas:

**All-Terra Engineering, Inc. (All-Terra)** appreciates the opportunity to provide this proposal to perform a geotechnical investigation for the above referenced project. This proposal outlines our understanding of the scope of services to be performed by All-Terra for this project and provides an estimated fee for our services.

## A. PROJECT INFORMATION

It is our understanding that a total of 18 roadways were identified to be needing improvement by Fort Bend County. The total length of the roadways that will be improved is about 18,000+ feet, almost all needing full depth reconstruction. As preliminary planned, the proposed project was divided into three (3) different areas, Evergreen Area, California Area, and Post Oak Area. The various streets that are included within the 3 areas are as follows:

AREA	STREET NAME	EXISTING ROAD TYPE	LENGTH (FT)	PROPOSED WORK TYPE
Evergreen	Street 1	Gravel	1,283.0	Full Depth Reconstruction



AREA	STREET NAME	EXISTING ROAD TYPE	LENGTH (FT)	PROPOSED WORK TYPE
Evergreen	Street 2	Gravel	648.0	Full Depth Reconstruction
Evergreen	Street 3	Gravel	1,169.0	Full Depth Reconstruction
Evergreen	Illinois	Gravel	1,294.0	Full Depth Reconstruction
Evergreen	Street 4	Gravel	806.0	Full Depth Reconstruction
Evergreen	Front	Gravel	734.0	Full Depth Reconstruction
Evergreen	Street 5	Gravel	2,546.0	Full Depth Reconstruction
Evergreen	Street 6	Gravel	1,221.0	Full Depth Reconstruction
Evergreen	Street 7	Asphalt	1,016.0	Asphalt Overlay
California	California	Gravel	1,964.0	Full Depth Reconstruction
California	Street 8	Gravel	775.0	Full Depth Reconstruction
California	Street 9	Gravel	845.0	Full Depth Reconstruction
Post Oak	Linden	Gravel	1021.0	Full Depth Reconstruction
Post Oak	Street 10	Gravel	505.0	Full Depth Reconstruction
Post Oak	Street 11	Gravel	580.0	Full Depth Reconstruction
Post Oak	Dallas	Gravel	765.0	Full Depth Reconstruction
Post Oak	Street 12	Gravel	665.0	Full Depth Reconstruction
Post Oak	Street 13	Gravel	510.0	Full Depth Reconstruction

The purpose of the geotechnical investigation will be to determine the subsoil and groundwater conditions within the project areas and provide data/parameters/recommendations that can be used for the construction and design of the proposed roadway improvements and the associated underground utilities, as applicable.

## B. SCOPE OF SERVICES

Based upon our understanding of the project requirements, it is proposed that the scope of work for the geotechnical investigation consists of the following tasks:

- Drill/sample a total of thirty seven (37) geotechnical borings to a depth of 15 feet beneath the surface within the locations of the 18 roadways as follows:

### **Evergreen Area**

- Street 1 ..... 3 borings
- Street 2 ..... 1 boring
- Street 3 ..... 3 borings
- Illinois Street..... 3 borings
- Street 4 ..... 2 borings
- Front Street ..... 1 boring
- Street 5 ..... 5 borings
- Street 6 ..... 3 borings
- Street 7 ..... 2 borings
- Subtotal: 23 borings

### **California Area**

- California Street.... 4 borings
- Street 8 ..... 1 boring
- Street 9 ..... 2 borings
- Subtotal: 7 borings

### **Post Oak Area**

- Linden Street ..... 2 borings
- Street 10 ..... 1 boring
- Street 11 ..... 1 boring
- Dallas Street..... 1 boring
- Street 12 ..... 1 boring
- Street 13 ..... 1 boring
- Subtotal: 7 borings

In asphalt roadway, coring of the existing pavement will be performed prior to soil drilling and sampling. Thicknesses of the existing asphalt and base layers will be measured. GPS coordinates of the actual boring locations during drilling will be obtained for documentation and inclusion on the boring logs of the report.

- Continuously sample each boring continuously to a depth of 12 feet and intermittently thereafter, with both disturbed (cohesionless soils) and relatively undisturbed (cohesive soils) samples being obtained, as applicable.
- Measure the depth to groundwater during drilling, approximately 10 minutes after the water is initially encountered, as applicable, and immediately after the completion of drilling.
- Backfill the boreholes with cement grout after the completion of the drilling activities.

- Clearly mark each boring location and provide the client a layout and GPS coordinates of the borings for the surveyor's use in obtaining boring location survey elevations, stationing, and offset distances, as applicable.
- Perform laboratory testing on soil samples obtained such as moisture content tests, unit weight determinations, Atterberg limits tests, tests to determine the percent soil particles passing a No. 200 sieve, dry density tests, unconfined compression tests, moisture-density relationship test of soils (Standard Proctor), and California Bearing Ratio (CBR) of soils in order to define soil classifications and physical soil properties of the site soils.
- Analyze the laboratory test data to define the engineering characteristics of each soil type.
- Prepare boring logs based upon the results of laboratory tests and visual soil classifications.
- Perform engineering analyses as necessary to develop recommendations pertaining to potential uplift of underground structures due to upward acting hydrostatic pressures caused by groundwater conditions, lateral earth pressures on underground structures, dewatering requirements for excavations, utility trench shoring and bracing requirements, and OSHA soil type classifications pertinent to trench shoring and bracing design as applicable to areas with underground utilities.
- Perform pavement design analyses (rigid and flexible pavements) for the proposed roadway improvement project using the requirements and guidelines of the American Association of State Highway and Transportation Officials (AASHTO) "AASHTO Guide for Design of Pavements" as well as the requirements and guidelines of Fort Bend County and provide the recommended rigid and flexible pavement sections as well as temporary asphalt for pavement transitions.
- Provide recommendations for subgrade preparation and stabilization (depending on the soil type encountered) for the proposed roadway improvements.
- Submit 1 copy and a pdf file of a full geotechnical engineering report that presents the results of the geotechnical engineering study. The report will be prepared and sealed by a Licensed Professional Engineer trained and experienced in the practice of geotechnical engineering.

### **C. CONDITIONS**

If there are any other restrictions, unusual circumstances, or special requirements regarding the site or this proposed geotechnical study, the Client shall communicate these to All-Terra prior to our commencing our field activities.

## D. SCHEDULE

Our field investigation assumes that we will have the right-of-entry to the project area and that the boring locations will be readily accessible and be drilled utilizing a truck mounted drilling rig. We can initiate our field operations within several working days following authorization to proceed, weather permitting. We anticipate completion of our services and submittal of our report within 3 to 4 weeks after the completion of drilling.

## E. ESTIMATED COST

For the scope of services outlined within this proposal, we estimate a total cost of about **\$39,736.00**. The breakdown of the estimated cost is as follows:

Item	Estimated Quantity	Unit	Unit Price	Estimated Cost
<b>Field Activities:</b>				
Initial site visit by Senior engineer, P.E.	4	hours	\$ 150.00	\$ 600.00
Mobe/demobe of drill rig	1	Lump Sum		\$ 300.00
Coring of existing pavement at 2 locations	2	each	\$ 80.00	\$ 160.00
Drilling/sampling of 37 borings to 15 feet	555	feet	\$ 18.00	\$ 9,990.00
Locate/identify/mark borings by graduate engineer	6	hours	\$ 85.00	\$ 510.00
Field logging of soil samples by qualified technician	48	hours	\$ 65.00	\$ 3,120.00
Limited traffic control (cones, signs, technician as flagman during drilling along Dallas Street and California Street)	1	Lump Sum		\$ 600.00
Grouting of 2 boreholes	30	feet	\$ 9.00	\$ 270.00
Vehicle Charge	60	hours	\$ 7.50	\$ 450.00
Sub-Total				<b>\$ 16,000.00</b>
<b>Laboratory Testing:</b>				
Atterberg Limits (ASTM D4318)	80	each	\$ 60.00	\$ 4,800.00
% Pass No. 200 Sieve (ASTM D1140)	48	each	\$ 46.00	\$ 2,208.00
Moisture Content (ASTM D2216)	260	each	\$ 9.00	\$ 2,340.00
Unconfined Compression (ASTM D2166)	32	each	\$ 44.00	\$ 1,408.00
Standard Proctor Test (ASTM D698)	2	each	\$ 175.00	\$ 350.00
California Bearing Ratio, 3-Points per set (ASTM D1883)	6	each	\$ 185.00	\$ 1,110.00
Sub-Total				<b>\$ 12,216.00</b>

Item	Estimated Quantity	Unit	Unit Price	Estimated Cost
<b>Engineering, coordination, supervision, analysis, and report preparation*:</b>				
Senior engineer, P.E.	28	hours	\$ 150.00	\$ 4,200.00
Graduate engineer	72	hours	\$ 85.00	\$ 6,120.00
Engineering Assistant	20	hours	\$ 60.00	\$ 1,200.00
Sub-Total				<b>\$ 11,520.00</b>
TOTAL FOR THE GEOTECHNICAL INVESTIGATION				<b>\$ 39,736.00</b>

## F. CLOSURE

We appreciate the opportunity to offer our services on your project. We look forward to serving you, and welcome any questions or comments you may have concerning this proposal or our services.

Respectfully submitted,

**ALL-TERRA ENGINEERING, INC.**  
(TBPE F-9770)

Bonni F. Musngi, Jr., P. E.  
Senior Geotechnical Engineer

**ACCEPTANCE AND AUTHORIZATION** Upon acceptance, this proposal constitutes the agreement between All-Terra and you, the Client. You have the option to accept or reject this agreement, or to propose modification to any element of the agreement.

Agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 2022

By: \_\_\_\_\_  
(Signature) (Printed Name)

\_\_\_\_\_  
(Firm Name) (Title or Position)

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## PROPOSAL FOR LAND SURVEYING SERVICES

August 9, 2022

Jesus Olivas, P.E.  
HR Green  
11011 Richmond, Suite 200  
Houston, TX 77042

Ref: Request for a topographic survey of 8 streets and a boundary survey for 78 individual takings in Fort Bend County, Texas.

Dear Mr. Olivas:

MBCO is pleased to submit this proposal for professional surveying services for the scope provided by HR Green and RPS, which will consist of up to 78 Category 1A, Condition III Boundary Surveys for acquisition as well as 7 metes & bounds descriptions and surveys of the final rights-of-way after takings, and Category 6, Condition II topographic surveys of 8 individual streets as shown on Exhibit "A" below.

### **CONTROL**

- MBCO will establish six (6) primary GPS horizontal control based on the Texas Coordinate System of 1983, Central Zone No. 4203, utilizing the vertical datum NAVD88 (2001 Adjustment) and Geoid18.
- Vertical control will be tied to the nearest Fort Bend County (FBC) benchmark.
- Re-establish control at time of construction.
- Update control maps with new control or updates in distance ties at the time of construction

### **CATEGORY 1A, CONDITION III LAND TITLE SURVEY**

- MBCO will perform up to 78 individual Category 1A, Condition III Land Title Surveys for right-of-way for acquisition, including 3 streets (parcels) owned by one individual and 75 surveys of the parcel takings, accompanied by a metes & bounds description and survey of the 7 final street rights-of-way.
- MBCO will research and recover sufficient boundary/right-of-way information necessary to establish the existing boundary/right-of-way within the project area and create metes and bounds description for the areas to be acquired.
- The acquisition areas will be monumented at all new or missing right-of-way/parcels corners.



- MBCO will use a sub-contractor to supply an abstractors certificate for the parcels being surveyed.

#### **CATEGORY 6, CONDITION II TOPOGRAPHIC & UTILITY SURVEY**

MBCO will perform a topographic survey of approximately 5,667.0 linear feet of roadway that meets the standards contained in the Manual of Practice for Land Surveying in the State of Texas for a Category 6, Condition II Topographic and Utility Survey as shown on Exhibit "A" including, but not limited to the following:

- Project limits for each of the 8 streets are from centerline of existing roadway outward to proposed ROW widths, as shown on Exhibit "B"
- Dallas Street topographic survey will be within the apparent ROW as no new ROW will be acquired.
- Locate all visible above-ground improvements within the project area, including but not limited to natural ground elevations, roadside ditches, all structures, edge of paving and gravel, manholes, inlets, fences, gates, culverts, curb and gutter, driveways, above ground utilities etc.
- Provide inverts on all accessible storm and sanitary sewer manholes, and inlet structures within the project limits.
- Utilize the Texas 811 system and locate any underground utility paint markings or flags provided by others (MBCO cannot be held liable for the completeness or accuracy of marks provided by others).
- Request and include data from AT&T and CenterPoint record drawings provided and information collected from 811 markings.
- MBCO will create, mail, and track right-of-entry letters for streets within our scope.

#### **MBCO ASSUMPTIONS:**

- This proposal is based solely and exclusively on the best interpretation of the scope as provided by RPS and HR Green and as shown on Exhibits "A". Any changes to the project location, area, or scope will significantly impact costs and fees and will require a new cost proposal.
- Without being provided project control MBCO will set control based on the closest recoverable FBC benchmark. This control and subsequent topographic survey may not conform to other project control datums and coordinates values.
- Dallas Street boundary will be shown as apparent right-of-way and include ownership information downloaded from the FBC Appraisal District GIS database.



- MBCO will not enter yards/properties over or through locked gates or fences.
- MBCO will not survey yards/properties with animals that are not restrained.
- MBCO cannot control the weather and cannot be held responsible for delays in schedule due to inclement weather.
- MBCO survey field crews must be given access to properties on a timely basis. This proposal makes no allowance for return trips because of access issues. MBCO will need access to parcels on the day of survey. Return trips will incur additional charges.
- The prices in this proposal are lump sum prices for the scope provided. If the amount of parcels or linear feet changes, MBCO reserves the right to adjust fees accordingly.
- MBCO will work tasks in the most efficient manner possible, requests to do tasks out of order may lengthen the schedule timeline and add additional cost.
- MBCO will either create the project alignment or be provide the alignment to complete all tasks before the scheduled survey delivery date. Once set, changes to the alignment will incur additional fees.
- To complete the project by the proposed scheduled delivery date, MBCO must be provided with all necessary borders and files in a timely fashion.
- MBCO anticipates working and completing all proposed basic services tasks during the proposed schedule.
- Failure to be provided necessary files may cause delays in the schedule and incur additional fees.

#### **DELIVERABLES:**

- Signed and sealed topographic and boundary surveys in .pdf format.
- Signed and sealed control maps of six (6) primary control points.
- Signed and sealed metes and bounds description of acquisition parcel in .pdf format
- Metes and bounds description in .doc format for title purposes.
- Microstation .dgn file of the topographic survey.
- Point File in the standard ASCII (P,N,E,Z,D) format.
- .tin surface file.

#### **SCHEDULE:**

MBCO will complete the above-described scope of services within eighty-five (85) business days from receiving the signed Notice to Proceed.





WBE | DBE  
SBE | HUB  
CERTIFIED

**LUMP SUM COMPENSATION:**

**Total Survey fee \$ 237,765.00**

- **Control \$13,580.00**
- **Topographic Survey \$51,510.00**
- **Project Management \$5,345.00**
- **Right of Entry Notification \$6,455.00**
- **Boundary \$160,875.00**
  - **Per acquisition tract for 3 single street parcels \$3,000.0 (per parcel including abstractors certificate)**
  - **Per acquisition tract for 75 parcels \$1,825.0 (per parcel including abstractors certificate. Survey \$1,450.0+\$375 abstracting fees \$136,800.0)**
  - **7 final ROW maps \$3,000.0 per street (\$21,000.0)**

The above-mentioned Surveying Services is a Lump Sum Fee, which will be billed at project completion or percent completion at the end of every month for the duration of the project, to be paid in full within 30 days of invoice date.

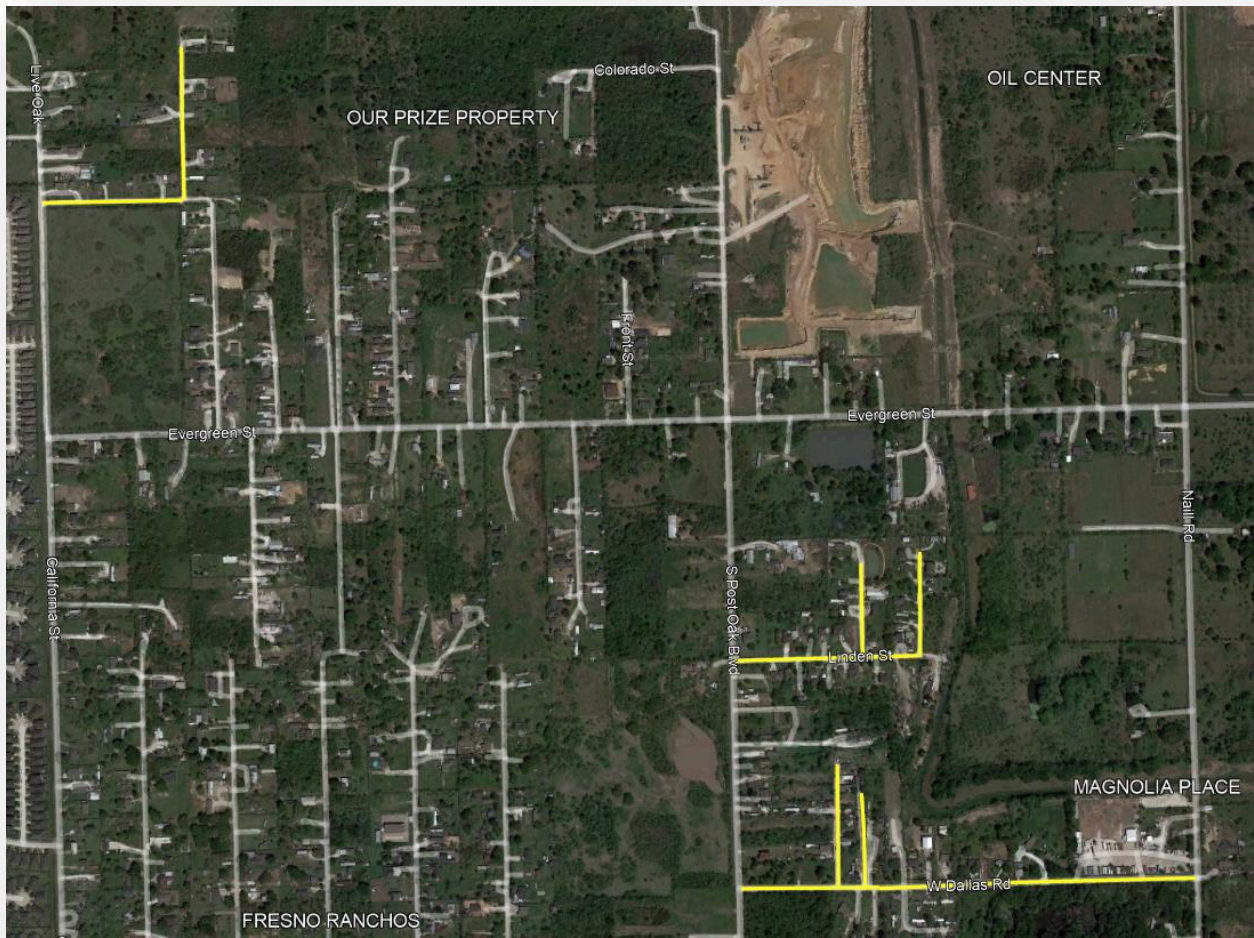
This cost proposal is valid for 30 days from the date of the proposal and may be re-evaluated after such time to account for any changes with the project scope, environmental factors and/or the general rate schedule. If this proposal is acceptable, please sign and return a copy. If you have any questions, you may reach me at [Marion.Clark@mbcoengineering.com](mailto:Marion.Clark@mbcoengineering.com).

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

Sincerely,

Marion Clark, RPLS  
Vice President, Survey

### Exhibit "A"



### Exhibit "B"

EVERGREEN AREA MAGNOLIA PLACE - STREET RECONSTRUCTION FORT BEND COUNTY					
	Street Name	Exist Road Type	Length (FT)	Proposed ROW (FT)	# Of Parcel Takings
CALIFORNIA AREA	Street 8	Gravel	775.0	60.0	6
	Street 9	Gravel	845.0	40.0	14(includes Street Parcel)
	Sub Total Length		1,620.0	Sub Total Parcels	20
POST OAK AREA	Linden St.	Gravel	1,022.0	55.0	18
	Street 10	Gravel	505.0	40.0	9(includes Street Parcel)
	Street 11	Gravel	580.0	40.0	9(includes Street Parcel)
	Dallas St.	Gravel	765.0	40.0	0
	Street 12	Gravel	665.0	40.0	17
	Street 13	Gravel	510.0	40.0	5
	Sub Total Length		4,047.0	Sub Total Parcels	58
	Grand Total		5,667.0	Grand Total	78.0

CONTRACT RATE PER HOUR	Office					Field			Sub	TOTAL HRS.	TOTAL LABOR HRS. & COSTS
	SURVEY PROJECT MANAGER	RPLS	SURVEY TECHNICIAN	SR SURVEY TECHNICIAN	ADMIN/ CLERICAL	1-MAN SURVEY CREW	2-MAN SURVEY CREW	3-Man SURVEY CREW	ABTRACTOR SET FEE		
TASK DESCRIPTION											
CONTROL											
FIELD											
Static Sessions										0	\$ -
Checking Benchmarks							2			2	\$ 350.00
Sitting Control										0	\$ -
GPS Primary Control (5)							8			8	\$ 1,400.00
Primary Traverse										0	\$ -
Update Control at time of Construction							20			20	\$ 3,500.00
GPS Secondary Control							4			4	\$ 700.00
Secondary Control Traverse							8			8	\$ 1,400.00
FIELD CONTROL SUBTOTAL						0	50	0		50	\$ 8,750.00
FIELD SUBTOTAL	0	0	0	0	0	0	50	0		50	\$ 8,750.00
OFFICE											
CONTROL DATA PROCESSING											
Field Package Meeting and Line Out				4						4	\$ 520.00
Control Data Processing				9						9	\$ 1,170.00
DATA PROCESSING SUBTOTAL			0	13						13	\$ 1,690.00
CONTROL MAPS											
Control Maps / Update Control Maps at time of construction			8	8						16	\$ 2,000.00
Redlines			3	3						6	\$ 750.00
CONTROL MAPS SUBTOTAL			11	11						22	\$ 2,750.00
QA/QC											
CAD Support				1						1	\$ 130.00
QA/QC				2						2	\$ 250.00
QA/QC SUBTOTAL			0	3						3	\$ 390.00
OFFICE SUBTOTAL			11	27						38	\$ 4,830.00
CONTROL TOTAL			11	27						88	\$ 13,580.00
Boundary											
FIELD											
Boundary Search							60			60	\$ 10,500.00
Setting Boundary							50			50	\$ 8,750.00
FIELD SUBTOTAL						0	110	0		110	\$ 19,250.00
OFFICE											
BOUNDARY DATA PROCESSING											
Field Package				8						8	\$ 1,040.00
Meeting and Line Out				4						4	\$ 520.00
Data Processing				10						10	\$ 1,300.00
DATA PROCESSING SUBTOTAL			0	22						22	\$ 2,860.00
BOUNDARY RESEARCH AND ANALYSIS											
Boundary Research				18					3	21	\$ 3,465.00
Boundary Analysis				15						15	\$ 1,850.00
Notes (Table A )				7						7	\$ 910.00
Title Reports									80	80	\$ 30,000.00
Title Review (Schedule B)				15						15	\$ 1,950.00
RESEARCH AND ANALYSIS SUBTOTAL			0	55					83	138	\$ 38,275.00
BOUNDARY DRAWING											
Boundary Drawing (Deeds, Subdivision, GIS)				65						65	\$ 8,450.00
ROW Map for each street after taking 7 x \$3000										0	\$ 21,000.00
Exhibit				200						200	\$ 26,000.00
Metes & Bounds				160						160	\$ 20,800.00
Redlines				40						40	\$ 4,800.00
Client Revisions				60						60	\$ 7,200.00
DRAWING SUBTOTAL				100	425					525	\$ 88,250.00
BOUNDARY QA/QC											
QA/QC		31.8889		30						61.8889	\$ 9,640.00
CAD Support				15						15	\$ 1,950.00
Packaging and Delivery to Client				5						5	\$ 650.00
QA/QC SUBTOTAL			0	50						81.8889	\$ 12,240.00
OFFICE SUBTOTAL				100	552				83	766.8889	\$ 141,625.00
BOUNDARY TOTAL				100	552				83	876.8889	\$ 160,875.00
TOPO											
FIELD											
Roadway							100			100	\$ 17,500.00
FIELD TOPO SUBTOTAL						0	100	0	0	100	\$ 17,500.00
FIELD SUBTOTAL						0	100	0	0	100	\$ 17,500.00
OFFICE											
TOPO DATA PROCESSING											
Field Package				4						4	\$ 520.00
Meeting and Line Out				4						4	\$ 520.00
Survey Data Processing				10						10	\$ 1,300.00
DATA PROCESSING SUBTOTAL			0	18						18	\$ 2,340.00
TOPO UTILITY REQUEST AND RESEARCH											
Utility Research \$11 CNE, AT&T				8						8	\$ 960.00
Utility Record Drawing Requests (MUD'S, City, County )				5						5	\$ 600.00
Utility Coordination				2						2	\$ 250.00
UTILITY SUBTOTAL			13	2						15	\$ 1,820.00
TOPO SURVEY DRAWING											
Topo Survey Drawing/UtilityDrawing				60						60	\$ 7,200.00
Elevation Clean Up				8						8	\$ 960.00
UDP				5						5	\$ 600.00
30 Labels				30						30	\$ 3,600.00
ROE GIS Import										0	\$ -
Surface Drawing				30						30	\$ 3,900.00
Sheet Setup				25						25	\$ 3,000.00
Redlines				8						8	\$ 960.00
Client Revision				10						10	\$ 1,200.00
DRAWING SUBTOTAL				141	30					171	\$ 20,820.00
TOPO QA/QC											
Cad Support				5						5	\$ 650.00
QA/QC Review		20		5						25	\$ 4,250.00
Packaging and Delivery to Client				1						1	\$ 130.00
QA/QC Walkthrough	20			10						30	\$ 4,000.00
QA/QC SUBTOTAL			0	21						61	\$ 9,030.00
OFFICE SUBTOTAL				154	71					265	\$ 34,010.00
TOPOGRAPHIC SURVEY TOTAL				154	71					365	\$ 51,510.00
PROJECT MANAGEMENT											
Project Setup		1			1					2	\$ 215.00
Project Controls		4			4					8	\$ 860.00
Client Coordination		7								7	\$ 945.00
Utility Coordination		4								4	\$ 540.00
Field Coordination		4								4	\$ 540.00
Project Meetings		3								3	\$ 405.00
QA/QC Walkthrough				10						10	\$ 1,300.00
RPLS Review										3	\$ 540.00
PROJECT MANAGEMENT'S TOTAL	23	3	0	10	5					41	\$ 5,345.00
Reimbursables and Additional Expenses Subtotal											\$ -
HOURS SUB-TOTALS	43	54.8889	265	660	5	0	260	0	83	1370.8889	\$ 231,310.00
CONTRACT RATE PER HOUR	\$ 135.00	\$ 180.00	\$ 120.00	\$ 130.00	\$ 80.00	\$ 165.00	\$ 175.00	\$ 195.00	\$ 500.00	\$ 375	
TOTAL LABOR COSTS	\$5,805.00	\$9,880.00	\$31,800.00	\$85,800.00	\$400.00	\$0.00	\$45,500.00	\$0.00	\$31,125.00		
% DISTRIBUTION OF STAFF HOURS	0.0%	0.0%	0.1%	0.3%	0.0%	0.0%	0.1%	0.0%	0.000358826		
SUBTOTAL Task	\$5,805.00	\$9,880.00	\$31,800.00	\$85,800.00	\$400.00	\$0.00	\$45,500.00	\$0.00	\$31,125.00	\$0.00	\$ 231,310.00
Basic Services Total											\$ 231,310.00
Right Of Entry Services											
CONTRACT RATE PER HOUR	\$ 135.00	\$ 180.00	\$ 120.00	\$ 130.00	\$ 80.00	\$ 165.00	\$ 175.00	\$ 195.00	\$ 500.00		
TASK DESCRIPTION	SURVEY PROJECT MANAGER	RPLS	SURVEY TECHNICIAN	SR SURVEY TECHNICIAN	ADMIN/ CLERICAL	1-MAN SURVEY CREW	2-MAN SURVEY CREW	3-Man SURVEY CREW	ABSTRACTOR SET FEE	TOTAL HRS.	TOTAL LABOR HRS. & COSTS
ROE Services											
OFFICE											
ROE PROCESSING											
Download Data, Create Spreadsheet	1			4	3					8	\$ 895.00
Mail merge, Compose, Print, Stuff, Mail, Manage	1	1	4	2	20					28	\$ 2,655.00
DATA PROCESSING SUBTOTAL			4	6						36	\$ 3,550.00
QA/QC											
CAD Support				1						1	\$ 130.00
QA/QC		1		1						2	\$ 310.00
QA/QC SUBTOTAL			0	2						3	\$ 440.00
OFFICE SUBTOTAL				8						39	\$ 3,990.00
ROE TOTAL			4	8						39	\$ 3,990.00
Additional Services PROJECT MANAGEMENT											
Project Setup										0	\$ -
Project Controls										0	\$ -
Client Coordination	5									5	\$ 675.00
Homeowner Coordination	5									5	\$ 675.00
SUB Coordination										0	\$ -
Project Meetings	1									1	\$ 135.00
QA/QC Walkthrough										0	\$ -
RPLS Review		1								1	\$ 180.00
PROJECT MANAGEMENT'S TOTAL	11	1	0	0	0					12	\$ 1,665.00
Reimbursables and Additional Expenses											
Stamps and Envelopes											\$ 160.00
Certified Mail For 80 Parcels											\$ 640.00
											\$ -
Reimbursables and Additional Expenses Subtotal											\$ 800.00
HOURS SUB-TOTALS	13	3	4	8	23	0	0	0	0	51	\$ 6,455.00
CONTRACT RATE PER HOUR	\$ 135.00	\$ 540.00	\$ 120.00	\$ 130.00	\$ 80.00	\$ 165.00	\$ 175.00	\$ 195.00	\$ 500.00		
TOTAL LABOR COSTS	\$1,755.00	\$540.00	\$480.00	\$1,040.00	\$1,840.00	\$0.00	\$0.00	\$0.00	\$0.00		
% DISTRIBUTION OF STAFF HOURS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0		
SUBTOTAL Task	\$1,755.00	\$540.00	\$480.00	\$1,040.00	\$1,840.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 6,455.00
Additional Services Total											\$ 6,455.00

SUMMARY OF SURVEY TOTALS	
Total Basic Services	\$ 231,310.00
Total Right of Entry Services	\$ 6,455.00
Total Platting Services	\$ -
Total Survey Fee	\$ 237,765.00





Firm Registration No.: 10194129

*20203 – Evergreen, California, Post Oak  
Fort Bend County, TX*

## SCOPE OF SERVICES

### I. Topographic survey

Approximately 10,717 linear feet (LF)) along areas described as ‘Evergreen’ (see attached “EVERGREEN AREA – EXHIBIT A”)

- a.) Category 6, Condition II Urban Survey Topographic survey of approximately 10,717 linear feet (LF). The project area is marked on client-supplied exhibit and will be defined as; (project limits from paving centerline). Deliverables will be Microstation-compatible and include Topographic Survey/Right-of-Way maps, CAD files, ASCII point file and TIN files (XML format) and scaled appropriately for design purposes and will include the following.
- Tie visible improvements from Right-of-way to Right-of-way plus 20 feet on either side within the project area. Right-of-entry to be secured by the client within private property. Topography will only extend to the physical occupation of the existing right-of-way and does not include, for example, collecting elevations over fences.
  - 50-100-foot cross-sections within existing ROW
  - Show contours at 1-foot intervals
  - Utility flowlines will be tied where physically accessible
  - INTERLAND will coordinate with private utility locate resources to determine the existence and location of existing subsurface utilities within the apparent right-of-way of subject rights-of-way.
  - Overhead Sag elevation for crossing overhead electrical utilities
  - Locate trees over 6” and the perimeter of existing heavily brushed areas or landscaped limits
  - Tie environmental and geotechnical marks/locations one time only. Location exhibit to be provided by client. Assumes this will be completed during the field data collection phase.
  - Due to the density of single-family and multi-family dwellings adjacent to the project this proposal does not include tying the location of structures within 100 feet of existing ROW
  - Interland anticipates completion within approximately sixty (60) days of project commencement.

*Projected fees: \$102,883.20*



Firm Registration No.: 10194129

## **II. Survey Control Maps**

- a.) Horizontal control points and vertical benchmarks by others will be recovered and/or will be established at an approximate 1,000 foot interval from beginning to end of the project for construction purposes. Every attempt will be made to select locations that will not be lost during construction.
- b.) All bearings and coordinates will be based on the Texas Coordinate System of 1983 (NAD83), South Central Zone 4204. Benchmark elevations will be referenced to the same datum as the effective Fort Bend County Flood Insurance Rate Map by observations on a minimum of three existing Reference Monuments.
- c.) INTERLAND will prepare a sealed Survey Control Map Sheet and a Control Detail Sheet for the project which includes the existing right-of-way line, the survey control baseline, Temporary Benchmarks and the project baseline. Client to provide a digital copy of the project baseline and sheet file border and format for use by INTERLAND. The survey control deliverables will be provided at a suitable scale for use in 11" x 17" and 24" x 36" formats.

*Cost included in Topographic survey fees*

## **III. ROW Map / Abstracting**

- a. INTERLAND will perform utility record research as needed to successfully complete the project. INTERLAND will survey the utility markings and depict these findings in the Topographic Survey.

*Projected fees: \$ 49,000.00*

## **IV. Legal Descriptions & Exhibits**

- a. Right-of-Way Parcels of estimated 98 acquisition parcels have been anticipated. Interland will complete the parcel maps and legal descriptions sixty-five (65) days after identification of parcels and approval of proposed right-of-way. Parcel acquisitions with parcel map and legal description will be provided at a per unit rate. See attached "Exhibit A" and Spreadsheet for outline of parcel detail.

*Projected fees: \$1,000.00 per each deliverable per parcel = \$98,000.00*



Firm Registration No.: 10194129

**V. Rights-of-Entry**

- a. Interland will conduct the following scope to notify residents within subject area of rights-of-entry requirements for survey:
  - i. List of all affected residents in Excel format to CLIENT
  - ii. Letter to be mailed by certified USPS based on template provided by CLIENT, which will include contact information and deadlines per CLIENT and other agencies.
  - iii. See attached spreadsheet for rights-of-entry mailer cost breakdown

*Projected fees: \$1,200.00*

*Other fees and totals as outlined in attached Exhibit A & Table A*



ADMIN/PM/MISC	\$17,147.20
TOPOGRAPHY	\$102,883.20

TOTALS	
PRIMARY / ANCILLARY	
Topography & Control - Establis / Re-establish	\$102,883.20
ROW Mapping & Abstracting	\$49,000.00
Legal Descriptions & Exhibits	\$98,000.00
SUE A / Underground Locate	\$34,875.00
Rights-of-Entry	\$1,200.00
	\$285,958.20



**INTERLAND SURVEYING & MAPPING, LLC**

**Summer M Qaddumi, President/Owner**



INTERLAND  
SURVEYING | MAPPING

Firm Registration No.: 10194129

## EVERGREEN AREA – EXHIBIT A

### Evergreen Area Streets

