

**CONTRACT FOR ENGINEERING SERVICES**  
**Jones & Carter , INC.**  
**Old Hearne Road Phase I**  
**City Project Number 332-411-425-611-DE-1506**

This Contract, dated \_\_\_\_\_, 2015, is between the **City of Bryan**, a Texas home-rule municipal corporation, (the City) and Jones & Carter, a corporation (the Engineer), whereby the Engineer agrees to provide the City with certain professional services as described herein and the City agrees to pay the Engineer for those services.

**1. Scope of Services**

In consideration of the compensation stated in paragraph 2, the Engineer agrees to provide the City with the professional services as described in Attachment A, the Scope of Services, which is incorporated herein by reference for all purposes, and which services may be more generally described as follows:

Design services for infrastructure improvements to Old Hearne and Sims Road

**2. Payment**

In consideration of the Engineer's provision of the professional services in compliance with all terms and conditions of this Contract, the City shall pay the Engineer according to the terms set forth in Attachment B. Except in the event of a duly authorized change order, approved by the City in writing, the total cost of all professional services provided under this Contract may not exceed six hundred ninety two thousand and No/100 Dollars (\$692,000.00).

**3. Time of Performance**

A. All design work and other professional services provided under this Contract must be completed by the following date: May 1, 2018. The City Engineer may agree to an extension of the time for completion. Any extension of the time for completion approved by the City Engineer, however, shall only be effective upon the execution of an instrument in writing stating the terms of the extension and signed by both the City Engineer and the Engineer. The Schedule is more fully defined in Attachment C.

B. **Time is of the essence of this Contract.** The Engineer shall be prepared to provide the professional services in the most expedient and efficient manner possible in order to complete the work by the times specified.

**4. Warranty, Indemnification, & Release**

A. As an experienced and qualified design professional, the Engineer warrants that the information provided by the Engineer reflects high professional and industry standards, procedures, and performances. The Engineer warrants the design preparation of drawings, the designation or selection of materials and equipment, the selection and supervision of personnel, and the performance of other services under this Contract, is pursuant to a high standard of performance in the profession. The Engineer warrants that the Engineer will exercise diligence and due care and perform in a good and workmanlike manner all of the services pursuant to this Contract. Approval of the City shall not constitute, or be deemed, a release of the responsibility and liability of the Engineer, its employees, agents, or associates for the exercise of skill

and diligence to promote the accuracy and competency of their designs, information, plans, specifications or any other document, nor shall the City's approval be deemed to be the assumption of responsibility by the City for any defect or error in the aforesaid documents prepared by the Engineer, its employees, associates, agents, or subcontractors.

- B. The Engineer shall promptly correct any defective designs or specifications furnished by the Engineer at no cost to the City. The City's approval, acceptance, use of, or payment for, all or any part of the Engineer's services hereunder or of the Project itself shall in no way alter the Engineer's obligations or the City's rights hereunder.
  - C. In all activities or services performed hereunder, the Engineer is an independent contractor and not an agent or employee of the City. The Engineer and its employees are not the agents, servants, or employees of the City. As an independent contractor, the Engineer shall be responsible for the professional services and the final work product contemplated under this Contract. Except for materials furnished by the City, the Engineer shall supply all materials, equipment, and labor required for the professional services to be provided under this Contract. The Engineer shall have ultimate control over the execution of the professional services. The Engineer shall have the sole obligation to employ, direct, control, supervise, manage, discharge, and compensate all of its employees or subcontractors, and the City shall have no control of or supervision over the employees of the Engineer or any of the Engineer's subcontractors.
  - D. The Engineer must at all times exercise reasonable precautions on behalf of, and be solely responsible for, the safety of its officers, employees, agents, subcontractors, licensees, and other persons, as well as their personal property, while in the vicinity of the Project or any of the work being done on or for the Project. It is expressly understood and agreed that the City shall not be liable or responsible for the negligence of the Engineer, its officers, employees, agents, subcontractors, invitees, licensees, and other persons.
  - E. **Responsibility for damage claims (indemnification): Engineer shall defend, indemnify and save harmless the City and all its officers, agents, and employees from all suits, actions, or claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person or persons or property resulting from the Engineer's negligent performance of the work, or by or on account of any claims or amounts recovered under the Workmen's Compensation Law or any other law, ordinance, order or decree, and his sureties shall be held until such suit or suits, action or actions, claim or claims for injury or damages as aforesaid shall have been settled and satisfactory evidence to the effect furnished the City. Engineer shall defend, indemnify and save harmless the City, its officers, agents and employees in accordance with this indemnification clause only for that portion of the damage caused by Engineer's negligence.**
  - F. Release. The Engineer releases, relinquishes, and discharges the City, its officers, agents, and employees from all claims, demands, and causes of action of every kind and character, including the cost of defense thereof, for any injury to, sickness or death of the Engineer or its employees and any loss of or damage to any property of the Engineer or its employees that is caused by or alleged to be caused by, arises out of, or is in connection with the Engineer's negligent performance of the work. Both the City and the Engineer expressly intend that this release shall apply regardless of whether said claims, demands, and causes of action are covered, in whole or in part, by insurance.
5. **Engineer's Insurance**

The Engineer agrees to maintain, on a primary basis, for the duration of this contract the insurance coverages and limits as described below. See Attachment D for insurance example. The Engineer must

deliver to the City a certificate(s) of insurance evidencing that such policies are in full force and effect within 5 business days of notification of the City's intent to award a contract. Failure to meet the insurance requirements and provide the required certificate(s) and any necessary endorsements within five business days **may cause the contract to be rejected.** The City reserves the right to obtain complete, certified copies of all required insurance policies at any time.

The requirements as to types and limits, as well as the City's review or acceptance of insurance coverage to be maintained by Engineer, is not intended to nor shall in any manner limit or qualify the liabilities and obligations assumed by the Engineer under the Agreement.

- A. **Commercial General Liability Insurance** – Limit of liability not less than \$1,000,000 per occurrence Engineer agrees to maintain a standard ISO version Commercial General Liability occurrence form, or its equivalent providing coverage for, but not limited to, Bodily Injury and Property Damage, Premises/Operations, Products/Completed Operations, Independent Engineers.
- B. **Professional Liability Insurance** – Limit of liability not less than \$1,000,000 per occurrence Engineer agrees to maintain Professional (Errors & Omissions) Liability to pay on behalf of the insured all sums which the insured shall become legally obligated to pay as damages by reason of any act, malpractice, error or omission of the Engineer or any person employed or acting on the Engineer's behalf (including but not limited to sub-contractors). For policies written on a "claims-made" basis, Engineer agrees to maintain a retroactive date prior to or equal to the effective date of this contract and that continuous coverage will be maintained or a supplemental extended reporting period will be purchased with a minimum reporting period not less than two years after the completion of this contract. The Engineer is solely responsible for any additional premium for the supplemental extended reporting period.

No "claims made" policies are acceptable without prior approval by the City Attorney. If approved, coverage must be maintained for two years after the completion of this contract.

- C. **Business Automobile Liability Insurance** – Limit of liability not less than \$1,000,000 per occurrence Engineer agrees to maintain a standard ISO version Business Automobile Liability, or its equivalent, providing coverage for all owned, non-owned and hired automobiles. Should the Engineer not own any automobiles, the business auto liability requirement shall be amended to allow the Engineer to agree to maintain only Hired & Non-Owned Auto Liability. This amended coverage requirement may be satisfied by way of endorsement to the Commercial General Liability, or separate Business Auto policy.
- D. **Workers' Compensation Insurance & Employers' Liability Insurance** – Statutory & \$500,000/\$500,000/\$500,000. The Engineer agrees to maintain Worker's Compensation Insurance & Employers Liability. In the event any work is sublet, the Engineer shall require the subcontractor similarly to provide the same coverage and shall himself acquire evidence of such coverage on behalf of the subcontractor.
- E. **Additional Insured Endorsements** The Engineer agrees to endorse the City as an Additional Insured on each insurance policy required to be maintained, with the exception of the worker's compensation, employer's liability and professional liability policy.
- F. **Waiver Of Subrogation** Waiver of subrogation in favor of the City of Bryan for each required

policy. When required by the insurer or should a policy condition not permit Engineer to enter into a pre-loss agreement to waive subrogation without an endorsement, then Engineer agrees to notify the insurer and request the policy be endorsed with a Waiver of Transfer of rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition specifically prohibiting such an endorsement, or voids coverage should Engineer enter into such an agreement on a pre-loss basis.

- G. **Deductibles, Coinsurance Penalties, & Self-Insured Retention** Engineer shall agree to be fully and solely responsible for any costs or expenses as a result of a coverage deductible, coinsurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, coinsurance penalty, or self-insured retention.
- H. **Subcontractor's Insurance** The Engineer shall agree to cause each subcontractor employed by Engineer to purchase and maintain insurance of the type specified, provided the Engineer's insurance does not afford coverage on behalf of the subcontractor.
- I. **Certificate Of Insurance** Engineer shall furnish the City with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements. The certificate must be from a company with an A.M. Best rating of "A-VI" or better and/or otherwise acceptable to the City. Certificates must be submitted using the ACORD form and all endorsements must be included with the submittal. Engineer has the affirmative obligation to advise City at the address listed below within 5 business days of the cancellation or substantial change of any required insurance policy, and failure to do so shall be construed as a breach of this contract.

Failure of the City to demand such certificate(s) or other evidence of full compliance with these insurance requirements or failure of the City to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

In the event the City is notified that a required insurance coverage will cancel or non-renew during the contract period, the Engineer shall agree to furnish prior to the expiration of such insurance, a new or revised certificate(s) as proof that equal and like coverage is in effect. The City reserves the right, but not the obligation, to withhold payment to Engineer until coverage is reinstated. If the Engineer fails to maintain the required insurance, the City shall have the right, but not the obligation, to purchase the required insurance at Engineer's expense.

Certificates and notices should be given to the City at the following address:

**City of Bryan**  
**Attn: Risk Management Department**  
**300 S. Texas Ave.**  
**Bryan, TX 77803**

**RIGHT TO REVIEW AND ADJUST** The City reserves the right to review these requirements and to modify insurance coverage and their limits when deemed necessary and prudent. Furthermore, the City reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition.

## 6. Termination

- A. The City may terminate this Contract at any time upon **thirty (30)** calendar days written notice. Upon the Engineer's receipt of such notice, the Engineer shall cease work immediately. The Engineer shall be compensated for the services satisfactorily performed prior to the termination date.
- B. If, through any cause, the Engineer fails to fulfill its obligations under this Contract, or if the Engineer violates any of the agreements of this Contract, the City has the right to terminate this Contract by giving the Engineer **five (5)** calendar days written notice to the Engineer. The Engineer will be compensated for the services satisfactorily performed before the termination date.
- C. No term or provision of this Contract shall be construed to relieve the Engineer of liability to the City for damages sustained by the City because of any breach of contract by the Engineer. The City may withhold payments to the Engineer for the purpose of setoff until the exact amount of damages due the City from the Engineer is determined and paid.

## 7. Miscellaneous Terms

- A. This Contract has been made under and shall be governed by the laws of the State of Texas. The parties agree that performance and all matters related thereto shall be in Brazos County, Texas.
- B. Notices shall be mailed to the addresses designated herein or as may be designated in writing by the parties from time to time and shall be deemed received when sent postage prepaid U.S. Mail to the following addresses:

The City of Bryan  
Attn: W. Paul Kaspar, P.E.  
P.O. Box 1000  
Bryan, Texas 77805

The Engineer:  
Attn: Steve E. Duncan, P.E.  
1716 Briarcrest Drive, Suite 160  
Bryan, Texas 77802

- C. No waiver by either party hereto of any term or condition of this Contract shall be deemed or construed to be a waiver of any other term or condition or subsequent waiver of the same term or condition.
- D. This Contract represents the entire and integrated agreement between the City and the Engineer and supersedes all prior negotiations, representations, or agreements, either written or oral. This Contract may only be amended by written instrument approved and executed by the parties.
- E. This Contract and all rights and obligations contained herein may not be assigned by the Engineer without the prior written approval of the City.
- F. The Engineer, its agents, employees, and subcontractors must comply with all applicable federal and state laws, the charter and ordinances of the City of Bryan, and with all applicable rules and regulations promulgated by local, state, and national boards, bureaus, and agencies. The Engineer must obtain all necessary permits and licenses required in completing the work and providing the services required by this Contract.
- G. The parties acknowledge that they have read, understood, and intend to be bound by the terms and

conditions of this Contract.

Party of the First Part  
**CITY OF BRYAN, TEXAS**

**Approved as to Form:**

\_\_\_\_\_  
Janis Hampton, City Attorney

Prepared and Recommended:

\_\_\_\_\_  
W. Paul Kaspar, P.E., City Engineer

**Approved for Processing:**

\_\_\_\_\_  
Jayson Barfknecht, P.E., Ph.D  
Director of Public Works

\_\_\_\_\_  
Kean Register, City Manager

**Approved:**

By: \_\_\_\_\_  
Jason P. Bienski, Mayor

Attest:

By: \_\_\_\_\_  
Mary Lynne Stratta, City Secretary

**Date:** \_\_\_\_\_

Party of the Second Part  
**Jones & Carter, INC.:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Firm's License No. \_\_\_\_\_

\_\_\_\_\_  
Witness

SCOPE OF SERVICES  
OLD HEARNE ROAD RECONSTRUCTION PHASE 1

General

This project includes the surveying and engineering design for the widening and reconstruction of approximately 4,750 LF of Old Hearne Road from Willhelm Drive to Texas Avenue and approximately 400 LF of North Sims Avenue from Texas Avenue to the curb and gutter section near the Railroad. The Old Hearne Road portion of the design includes underground storm drainage infrastructure to convert the existing open ditch roadway section to a 38' wide 3-lane concrete curb and gutter roadway section, with sidewalks adjacent to the back of curb on both sides of the road. Gravity sanitary sewer improvements are expected to include replacement of approximately 4,300 LF of 6"/8" sanitary sewer with 12" PVC sanitary sewer, pre-cast manholes, and services. Jones and Carter (JC) will prepare a Sanitary Sewer Study to verify the optimum collection line size required for ultimate development along Old Hearne Road. Waterline improvements are expected to consist of replacing approximately 5,500 LF of 6" waterline with 12" PVC waterline along the entire project length. This includes looping into the existing 6" waterline on Milberger Street, trenchless construction under the intersection of Texas Avenue and Old Hearne Road, and continuing along North Sims, and crossing Union Pacific railroad to tie into the existing 18" waterline. Improvements along North Sims Avenue include replacement of the existing 2-lane HMAC open ditch section to 27' wide 2-lane concrete curb and gutter pavement transitioning to a 3-lane section at the intersection, with underground storm sewer infrastructure and sidewalks. No sanitary sewer improvements are expected for this portion of the project. JC will also perform Traffic Signal Design for the replacement of signal poles and mast arms. Striping of cross-walks, stop bars, and pedestrian ramps are included, however, JC is not including any pavement improvements within the intersection of Old Hearne/Sims and Texas Avenue.

Scope of Services

1. PUBLIC MEETINGS
  - a. Prepare exhibits and attend up to two (2) public meetings. All coordination, correspondence, and advertising for these meetings will be provided by the City.
2. NOTICE OF ENTRY
  - a. Provide initial Notice of Entry to all property owners along the route by issuing a letter to the owner based on Brazos Central Appraisal District data. Any entry issues of additional correspondence shall be the responsibility of the City.
3. SURVEY CONTROL
  - a. Establish horizontal and vertical survey control points referencing the City of Bryan monument system (NAD 83 and NAVD 88) and make them available to the contractor for use during construction.
4. TOPOGRAPHIC MAPPING
  - a. Obtain field data in and around the project area which includes:
    - i. Cross-sections of each right-of-way on a 100-foot interval, obtaining additional detail at intersections including 300' along Texas Avenue.
    - ii. Existing drainage system details of roadside ditches, culverts, storm sewers, outfall flow lines, and downstream and upstream cross sections of the Still Creek tributary.
    - iii. Visible improvements such as fences, driveways, landscape areas, etc.

## ATTACHMENT "A"

Page 2 of 4

- iv. Visible utilities including manholes (with invert information), water valves, water meters, fire hydrants, telephone pedestals, power poles, down conduits, gas line markers, etc.
- v. Underground utilities which are marked in the field by utility locators.
- b. Provide a topographic map of the project area suitable for design which includes
  - i. The field data.
  - ii. Scaling the flood plain from the current FEMA Map.
  - iii. Calculating 1-foot contour lines and creating a Triangulated Irregular Network file (TIN file).

### 5. ROW/EASEMENT DETERMINATION & ACQUISITION

- a. Obtain title reports for all tracts along Old Hearne Road from Brazos County Abstract Company.
- b. Obtain and plot the most recent recorded plats and deeds of tracts and easements along the project route and adjacent areas.
- c. Locate property corners and fences found in the field.
- d. Calculate and show the right-of-ways and easements on the topographic map for engineering design considerations.
- e. Existing easement legal interpretation to be provided by the City.
- f. Prepare surveys for right-of-way acquisition including up to 7 properties, estimated at \$2700 each.

### 6. SUBSURFACE UTILITY ENGINEERING (SUE)

- a. All Subsurface Utility Engineering (SUE) work shall be in accordance with the quality level definitions found in the ASCE Standard ASCE 38-02.
- b. Locate known underground utility lines utilizing available as-built drawings in the office, and surface geophysical equipment in the field for the entire project area.
- c. Canvas the project area with subsurface utility locating equipment for any unknown underground utilities, after which subsurface utility information is shown on the topographic map stating utility type and quality level with the goal of showing subsurface utilities to a Quality Level B.
- d. During the final design phase, uncover critical utility crossings in the field and document detailed subsurface utility information sufficient to satisfy Quality Level A and add that information to the topographic map. Expected areas include an Energy Transfer and Bryan Woodbine Gathering pipelines along Old Hearne Road obtaining a minimum of Four (4) bore hole locations.

### 7. ROADWAY & DRAINAGE DESIGN

- a. Provide 30% Conceptual Design review submittal for the purpose of determining Right-of-Way acquisition needs including drawings and estimate of probable cost. 3 hard copies (24x36) and 1 digital pdf to be provided.
- b. Provide 60% Preliminary Design review submittal including drawings, estimate of probable cost, and index of civil technical specifications. 3 hard copies (24x36) and 1 digital pdf to be provided.
- c. Provide 90% Final Design review submittal including drawings, estimate of probable cost, contract documents and technical specifications. 3 hard copies (24x36) and 1 digital pdf to be provided.
- d. Provide Final sealed design submittal including 3 sealed (24x36) original plan sets, 3 sealed copies of the contract book (using the City of Bryan standard template), and 3 copies of estimate of probable cost, and 1 digital pdf of each.
- e. Drawings expected to be provided include: cover, sheet index, notes, topographic & existing utility mapping, erosion control plan, project specific traffic control plan (signed & sealed for construction), roadway & drainage plan & profile drawings, intersection & driveway tie-in

## ATTACHMENT "A"

Page 3 of 4

details, signal design, striping & signage plan, project specific details, and standard details. JC will also provide a per plan page quantity take-off sheet.

- f. It is understood that Freese & Nichols will perform all storm sewer modeling including sizing and spacing of the curb inlets for all proposed roadway and drainage improvements. Freese & Nichols will then provide JC with the proposed storm sewer conduit and curb inlet sizes for vertical and horizontal design in JC's construction documents. Freese & Nichols will prepare and submit the Final Drainage Report that documents the sizing and performance of the proposed curb inlets, and the underground storm sewer conduits in accordance with the latest edition of the BCS Unified Stormwater Design Guidelines.

### 8. SANITARY SEWER STUDY

- a. Perform a line size study including sewer shed delineation and evaluation of development potential with City input
- b. Provide a letter report with the findings

### 9. SANITARY SEWER DESIGN

- a. Provide 30%, 60%, 90%, and Final Design submittals as with the Roadway & Drainage Design for replacement of all existing sanitary sewer along Old Hearne Road.
- b. Drawings expected to be provided include: sanitary sewer plan & profile drawings, project specific details, and standard details.

### 10. WATERLINE DESIGN

- a. Provide 30%, 60%, 90%, and Final Design submittals as with the Roadway & Drainage Design for upgrading replacement of all water lines along the project limits.
- b. Drawings expected to be provided include: waterline plan & profile drawings, project specific details, and standard details.
- c. Utility flow analysis and sizing is not included in this project scope.

### 11. TRANSPORTATION ENGINEERING

- a. Texas Avenue Intersection Operational Analysis Report. Collect peak hour turning movement count and perform capacity analysis at the intersection. Various improvement options will be evaluated and a report will be prepared to document any recommended improvements.
- b. Traffic Signal Design. Prepare traffic signal design plans at the intersection to remove the existing signal and install a new mast arm type signal in accordance with City of Bryan and TxDOT standards and specifications. The design plans will include existing conditions diagram, sidewalk and wheelchair ramp layout, signing and pavement markings, traffic signal design layout, summary of traffic signal quantities, standard details, specifications and notes.
- c. No Railroad pre-emption is included.

### 12. TXDOT PERMITTING COORDINATION

- a. Coordinate and provide documents to the City of Bryan to obtain the TxDOT driveway permit for work within the Texas Avenue ROW.
- b. All permit submissions to TxDOT shall be made by the City of Bryan.
- c. A donation agreement, environmental study, and stormwater detention are not expected to be required by TxDOT and are therefore not included in the project scope.

### 13. GEOTECHNICAL INVESTIGATION

- a. Perform geotechnical investigation for the project including 10-10' deep borings throughout the project area.

## ATTACHMENT "A"

Page 4 of 4

- b. Provide a Geotechnical Report summarizing the test results of the soil borings, report any ground water findings, and provide project specific recommendations for the roadway stabilization, pavement section, and utility trench excavations.

### 14. ENVIRONMENTAL CONSTRAINTS

- a. Evaluate the presence of Waters of the United States (WOUS), including wetlands.
- b. Quantify the approximate size without specific delineation of the WOUS, including wetlands.
- c. Estimate the approximate impact of the planned construction on the identified WOUS and wetlands.
- d. Perform a general evaluation of the presence of endangered species or critical habitats from short-term limited visual observations
- e. Perform general evaluation of the potential presence of historically significant properties based on a general review of the existing database of such properties from the Texas Historical Commission. Field work, exploratory excavation pits, etc. are outside this project scope.
- f. Evaluate the estimated impacts and determine if the proposed project can be accomplished under a Nationwide Permit (NWP).
- g. No additional TxDOT environmental requirements have been included in this scope.

### 15. STREETLIGHT COORDINATION w/BTU

- a. Coordinate with BTU and implement their streetlight design and any conduit crossings into the overall construction documents for this project.
- b. Electrical or franchise utility design is not included in this scope.

### 16. UNION PACIFIC RAILROAD COORDINATION AND PERMITTING

- a. Coordinate with Union Pacific railroad to meet all crossing requirements and permit approval to install the railroad waterline crossing.

### 17. BID/CONSTRUCTION PHASE

- a. Assist the City in obtaining bids for the construction of the project including attendance at the pre-bid conference. The City will coordinate the bidding process, issue contract documents to bidders, etc.
- b. Assist the City during construction including attendance at the pre-construction conference, consulting and advising the City as required during the construction phase, reviewing contractor's submittals, and attending monthly construction progress meetings and the final inspection.
- c. No construction material testing is included in this scope.
- d. Prepare record drawings based on the contractor's redlines. 1 digital copy in TIFF format and 1 digital copy in AutoCAD format to be provided.

## OLD HEARNE ROAD RECONSTRUCTION PHASE 1

Payment to the ENGINEER will be made as follows:

A. Invoice and Time of Payment

Monthly invoices will be issued by the ENGINEER for all work performed under this Agreement. Invoices are due and payable on receipt. Invoices will be prepared in a format approved by the CITY prior to submission of the first monthly invoice. Monthly payment of the fee will be in proportion to percent completion of the total work for each fee item outlined below.

B. Upon completion of services enumerated in Attachment A, Scope of Services, the final payment of any balance will be due upon receipt of the final invoice.

FEE STRUCTURE:

TOTALS:

Public Meetings

Public Meetings	\$ 5,000	\$ 5,000
-----------------	----------	----------

Surveying

Notice of Entry	\$ 2,000	
Survey Control	\$ 5,000	
Topographic Mapping	\$ 32,500	
Title Reports	\$ 12,000	
ROW/Easement Determination	\$ 14,000	
ROW Acquisition Surveys	\$ 19,000	
Railroad Surveying	\$ 12,000	\$ 96,500

Subsurface Utility Engineering (SUE)

Subsurface Utility Engineering "B"	\$ 21,000	
Subsurface Utility Engineering "A"	\$ 9,500	
Railroad SUE "B"	\$ 4,000	\$ 34,500

Engineering Design

*Roadway & Drainage Design*

Conceptual Design	\$ 90,000	
Preliminary Design	\$ 90,000	
Final Design	\$ 100,000	\$ 280,000

*Sanitary Sewer Study*

Sanitary Sewer Study	\$ 15,000	\$ 15,000
----------------------	-----------	-----------

*Sanitary Sewer Design*

Conceptual Design	\$ 20,000	
Preliminary Design	\$ 20,000	
Final Design	\$ 25,000	\$ 65,000

*Waterline Design*

Conceptual Design	\$ 15,000	
Preliminary Design	\$ 15,000	
Final Design	\$ 20,000	
Railroad Crossing Design	\$ 12,000	\$ 62,000

Special Services

Transportation Engineering	\$ 48,000	
TxDOT Permitting/Coordination	\$ 10,000	
Geotechnical Investigation	\$ 14,000	

Environmental Constraints	\$	6,000	
BTU Streetlight/Conduit Coordination	\$	10,000	
Railroad Permitting/Coordination	\$	<u>10,000</u>	\$ 98,000
<i><u>Construction Support</u></i>			
Bid/Construction Phase	\$	30,000	
Record Drawings	\$	<u>6,000</u>	\$ 36,000
<b><u>TOTAL</u></b>			<b>\$ 692,000</b>

**ESTIMATED MONTHLY BREAKDOWN**

Jun-15	Survey, SUE	\$	41,000
Jul-15	Survey, SUE	\$	45,000
Aug-15	Survey, SUE	\$	45,000
Sep-15	Prelim Design, Special Engr	\$	40,000
Oct-15	Prelim Design, Special Engr	\$	40,000
Nov-15	Prelim Design, Special Engr	\$	50,000
Dec-15	Prelim Design, Special Engr	\$	50,000
Jan-16	Easement Acquisition Phase		
Jan-17	Final Design, Special Engr	\$	40,000
Feb-17	Final Design, Special Engr	\$	40,000
Mar-17	Final Design, Special Engr	\$	40,000
Apr-17	Final Design, Special Engr	\$	40,000
May-17	Final Design, Special Engr	\$	30,000
Jun-17	Final Design, Special Engr	\$	40,000
Jul-17	Final Design, Special Engr	\$	40,000
Aug-17	Final Design, Special Engr	\$	40,000
Sep-17	Final Design, Special Engr	\$	35,000
Oct-17	Construction Assistance	\$	4,000
Nov-17	Construction Assistance	\$	4,000
Dec-17	Construction Assistance	\$	4,000
Jan-18	Construction Assistance	\$	2,000
Feb-18	Construction Assistance	\$	1,000
Mar-18	Construction Assistance	\$	1,000
Apr-18	Construction Assistance	\$	1,000
May-18	Construction Assistance	\$	1,000
Jun-18	Construction Assistance	\$	1,000
Jul-18	Construction Assistance	\$	1,000
Aug-18	Construction Assistance	\$	2,000
Sep-18	Construction Assistance	\$	2,000
Oct-18	Construction Assistance	\$	2,000
Nov-18	Construction Assistance	\$	2,000
Dec-18	Construction Assistance	\$	2,000
Apr-18	Record Drawings	\$	<u>6,000</u>
		\$	692,000

ATTACHMENT "C"

Page 1 of 1

PROJECT SCHEDULE  
OLD HEARNE ROAD RECONSTRUCTION PHASE 1

SCHEDULE:

We understand that this project is a high priority and we are prepared to commence work immediately. The following is the anticipated schedule:

Council Award:	June 2015
Submit 30% Plans/Acquisition Needs:	December 2015
Easement Acquisition Phase by Others:	January 2016 – December 2016 (Estimated)
Submit 60% Plans for Review:	April 2017
Submit 90% Plans for Review:	August 2017
Submit Final Plans & Specs:	September 2017