

**CITY OF CORPUS CHRISTI
CONTRACT FOR PROFESSIONAL SERVICES**

The City of Corpus Christi, a Texas home rule municipal corporation, P.O. Box 9277, Corpus Christi, Nueces County, Texas 78469-9277 (City) acting through its duly authorized City Manager or Designee (Director of Engineering Services) and **Maverick Engineering, Inc.**, a Texas corporation, 400 Mann Street, Suite 200, Corpus Christi, Nueces County, Texas 78401, (**Architect/Engineer – A/E**), hereby agree as follows:

1. SCOPE OF PROJECT

Santa Fe from Elizabeth to Hancock (Project No. E13100) BOND ISSUE 2014 – This contract covers the preparation of an engineering letter report, construction plans and construction manual (front end contract documents and specifications) for Santa Fe Street from Hancock to Elizabeth. The project is approximately 2,000 linear feet of four-lane, asphalt, curb and gutter, roadway reconstruction project.

Other improvements include replacing existing water, wastewater and storm water lines; replacing storm water inlets and manholes due to system redesign; modifications of existing traffic signals to meet current MUTCD standards; evaluation of signal timing relative to signals at 3rd and Elizabeth; replacement of existing sidewalks and wheelchair ramps; replacement of existing driveways with concrete driveways; reconstruction of bus pads to meet RTA standards; replacement of existing bus stops (not including structures or benches) to meet RTA standards; replacement of existing signs, replacement of existing pavement markings; relocation of AEP power poles as necessary; relocation of private underground utilities as necessary; right-of-way acquisition as necessary.

Design services related to construction plan preparation include preparation of typical sections, various base map plan sheets; plan and profile sheets; storm sewer lateral details; roadway intersection details; traffic signal plans; demolition plan, driveway summary; survey control map, quantity estimate; construction phasing plan; traffic control plan; storm water pollution prevention plan; miscellaneous details and standards; proposed roadway cross sections.

2. SCOPE OF SERVICES

The A/E hereby agrees, at its own expense, to perform design services necessary to review and prepare plans, specifications, and bid and contract documents. In addition, A/E will provide monthly status updates (project progress or delays, gantt charts presented with monthly invoices) and provide contract administration services, as described in **Exhibit "A" and "A-1"**, to complete the Project. Work will not begin on Additional Services until requested by the A/E (provide breakdown of costs, schedules), **and** written authorization is provided by the Director of Engineering Services.

A/E services will be "Services for Construction Projects"- (Basic Services for Construction Projects)" which are shown and are in accordance with "Professional Engineering Services- A Guide to the Selection and Negotiation Process, 1993" a joint publication of the Consulting Engineer's Council of Texas and Texas Society of Professional Engineers. For purposes of this contract, certain services listed in this publication as Additional Services will be considered as Basic Services.

3. ORDER OF SERVICES

The A/E agrees to begin work on those authorized Basic Services for this contract upon receipt of the Notice to Proceed from the Director of Engineering Services. Work will not begin on any phase or any Additional Services until requested in writing by the A/E and written authorization is provided by the Director of Engineering Services. The anticipated schedule of the preliminary phase, design phase, bid phase, and construction phase is shown on **Exhibit "A"**. This schedule is not to be inclusive of all additional time that may be required for review by the City staff and may be amended by or with the concurrence of the Director of Engineering Services.

The Director of Engineering Services may direct the A/E to undertake additional services or tasks provided that no increase in fee is required. Services or tasks requiring an increase of fee will be mutually agreed and evidenced in writing as an amendment to this contract. A/E shall notify the City of Corpus Christi within three (3) days of notice if tasks requested requires an additional fee.

4. INDEMNITY AND INSURANCE

A/E agrees to the mandatory contract indemnification and insurance requirements as set forth in **Exhibit "B"**.

5. FEE

The City will pay the A/E a fee, as described in **Exhibit "A"**, for providing services authorized, a total fee not to exceed \$342,588.50, (Three Hundred Forty Two Thousand Five Hundred Eighty Eight Dollars and 50/100). Monthly invoices will be submitted in accordance with **Exhibit "C"**.

6. TERMINATION OF CONTRACT

The City may, at any time, with or without cause, terminate this contract upon seven days written notice to the A/E at the address of record. In this event, the A/E will be compensated for its services on all stages authorized based upon A/E and City's estimate of the proportion of the total services actually completed at the time of termination.

7. LOCAL PARTICIPATION

The City Council's stated policy is that City expenditures on contracts for professional services be of maximum benefit to the local economy. The A/E agrees that at least 75% of the work described herein will be performed by a labor force residing within the Corpus Christi Metropolitan Statistical Area (MSA). Additionally, no more than 25% of the work described herein will be performed by a labor force residing outside the Corpus Christi Metropolitan Statistical Area (MSA.)

8. ASSIGNABILITY

The A/E will not assign, transfer or delegate any of its obligations or duties in this contract to any other person without the prior written consent of the City, except for routine duties delegated to personnel of the A/E staff. If the A/E is a partnership, then in the event of the termination of the partnership, this contract will inure to the individual benefit of such partner or partners as the City may designate. No part of the A/E fee may be assigned in advance of receipt by the A/E without written consent of the City.

The City will not pay the fees of expert or technical assistance and consultants unless such employment, including the rate of compensation, has been approved in writing by the City.

9. OWNERSHIP OF DOCUMENTS

All documents including contract documents (plans and specifications), record drawings, contractor's field data, and submittal data will be the sole property of the City, may not be used again by the A/E without the express written consent of the Director of Engineering Services. However, the A/E may use standard details that are not specific to this project. The City agrees that any modification of the plans will be evidenced on the plans, and be signed and sealed by a professional engineer prior to re-use of modified plans.

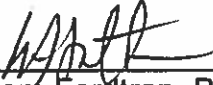
10. DISCLOSURE OF INTEREST

A/E further agrees, in compliance with City of Corpus Christi Ordinance No. 17112, to complete, as part of this contract, the *Disclosure of Interests* form.

CITY OF CORPUS CHRISTI

Mark Van Vleck, P. E., Date
Interim Assistant City Manager
for Public Works & Utilities

MAVERICK ENGINEERING, INC.



William Fordtran, P. E., 1/26/14 Date
Chief Operating Officer
400 Mann Street, Suite 200
Corpus Christi, TX 78401
(361) 696-3500 Office
(361) 696-3599 Fax

RECOMMENDED

Daniel Biles, P. E., Date
Executive Director of Public Works

Operating Department Date

APPROVED

Office of Management Date
and Budget

ATTEST

City Secretary

Santa Fe from Elizabeth to Hancock (Project No. E13100) BOND ISSUE 2014

Department	Fund No.	Fund Name	Amount
Street	550950-3550-00000-E13100	Streets 2013TN (Bd 2014 Dsgn)	\$204,079.25
Wastewater	550950-4504-00000-E13100	Wastewater 2010B REV Txbl BAB	36,012.41
Storm Water	550950-3494-00000-E13100	Storm Water 2012A CIP Fd Rv Bd	69,254.63
Water	550950-4479-00000-E13100	Water 20101B REV Txbl BAB	33,242.22
Total			\$342,588.50

Encumbrance No. _____

JAN 14 2014 VP

EXHIBIT "A"
CITY OF CORPUS CHRISTI, TEXAS

SANTA FE STREET FROM HANCOCK TO ELIZABETH
PROJECT NO. E13100
BOND ISSUE 2014

I. SCOPE OF SERVICES

A. BASIC SERVICES

For the purpose of this contract, Preliminary Phase may include Schematic Design and Design Phase services may include Design Development as applicable to Architectural services.

1. **Preliminary Phase.** The Architect/Engineer-A/E (also referred to as Consultant) will:
 - a) Prepare PowerPoint presentation in City format for City Council Meeting.
 - b) Hold Project Kick-off Meeting. Prepare meeting agenda and distribute meeting meetings to attendees within five working days of the meeting.
 - c) Prepare geotechnical investigation findings (see additional services).
 - d) Request available reports, record drawings, utility maps and other information provided by the City pertaining to the project area.
 - e) Develop preliminary requirements for utility relocations replacements or upgrades. Coordinate with the City's Project Manager and identify operating departments potential project needs.
 - f) Develop preliminary street cross section recommendations. Prepare conceptual life-cycle cost estimate with recommended pavement sections using Federal Highway Administration (FHWA) Real Cost Program.
 - g) Identify right-of-way acquisition requirements and illustrate on a schematic strip map.
 - h) Prepare preliminary opinions of probable construction costs for the recommended improvements.
 - i) Develop drainage area boundary map for existing and proposed drainage areas served.
 - j) Conduct the hydraulic analysis to quantify the storm sewer design of existing and proposed systems. Include the analysis of inlet capacity.
 - k) Identify electric and communication utility companies and private pipeline companies that may have existing facilities and must relocated to accommodate the proposed improvements.
 - l) Coordinate with AEP and City Traffic Engineering to identify location of electrical power conduit for street lighting and traffic signalization.
 - m) Identify and analyze requirements of governmental authorities having jurisdiction to approve design of the Project including permitting, environmental, historical, construction, and geotechnical issues; upon request or concurrence of the Project Manager, meet and coordinate with agencies such as RTA, CDBG, USPS, affected school districts (CCISD, FBISD, etc.) community groups, TDLR, etc.
 - n) Identify and recommend public outreach and community stakeholder requirements.
 - o) Review City provided preliminary Traffic impact assessment and provide recommendation for integration and/or additional requirements as appropriate.

- p) Prepare an Engineering Letter Report (20 – 25 page main-body text document with supporting appendices) that documents the analyses, approach, opinions of probable construction costs, and document the work with text, tables, schematic-level exhibits and computer models or other applicable supporting documents required per City Plan Preparation Standards Contract Format (CPPSCF). Engineering Letter Report to include:
1. Provide a concise presentation of pertinent factors, sketches, designs, cross-sections, and parameters which will or may impact the design, including engineering design basis, preliminary layout sketches, construction sequencing, alignment, cross section, geotechnical testing report, right-of-way requirements, conformance to master plans, identification of needed additional services, identification of needed permits and environmental consideration, existing and proposed utilities, identification of quality and quantity of materials of construction, and other factors required for a professional design.
 2. Include summary output tables from Hydraulic and Hydrologic analyses.
 3. Include existing site photos.
 4. Provide opinion of probable construction costs.
 5. Identify and analyze requirements of governmental authorities having jurisdiction to approve design of the Project including permitting, environmental, historical, construction, and geotechnical issues; meet as City agent or with City participation and coordinate with agencies such as RTA, CDBG, USPS, CCISD, community groups, TDLR, etc.
 6. ~~Provide an analysis on project impacts towards “re-engineering” and effects on cost savings toward City operations, which this project will affect.~~
 7. Provide anticipated index of drawings and specifications.
 8. Provide a summary table & required ROW parcels
- q) Submit one (1) copy in an approved electronic format, and one (1) paper copy of the Draft Engineering Letter Report.
- r) Submit computer model file, results and calculations used to analyze drainage.
- s) Conduct Project review meeting with City staff to review and receive City comments on the Draft Engineering Letter Report as scheduled by City Project Manager.
- t) Assimilate all City review comments of the **Draft Engineering Letter Report** and provide one (1) set of the **Final Engineering Letter Report (ELR)** (electronic and hard copies using City Standards as applicable) suitable for reproduction.
- u) Assist City in presenting summary of ELR findings to the Bicycle and Pedestrian Subcommittee and the Transportation Advisory Committee (TAC). Prepare PowerPoint presentation, handouts and exhibits for meeting. Provide follow-up and response to comments.

City staff will provide one set only of the following information (as applicable):

- a) Electronic index and database of City's record drawing and record information.
- b) Requested record drawings, record information in electronic format as available from City Engineering files.
- b) The preliminary budget, specifying the funds available for construction.
- c) A copy of existing studies and plans. (as available from City Engineering files).
- d) Field location of existing city utilities. (A/E to coordinate with City Operating Department)

- e) Applicable Master Plans and GIS mapping are available on the City's website.
- f) City Control survey Bench marks and coordinates.
- g) Preliminary Traffic impact assessment.

The records provided for A/E's use under this contract are proprietary, copyrighted, and authorized for use only by A/E, and only for the intended purpose of this project. Any unauthorized use or distribution of the records provided under this contract is strictly prohibited.

2. Design Phase. Upon approval of the preliminary phase, designated by receiving authorization to proceed, the A/E will:

- a) Provide coordination with electric and communication utility companies and private pipeline companies that may have existing facilities and must be relocated to accommodate the proposed improvements.
- b) Provide assistance to identify testing, handling and disposal of any hazardous materials and/or contaminated soils that may be discovered during construction (to be included under additional services).
- c) Prepare construction documents in City standard format for the work identified in the approved ELR. Construction plans to include improvements or modifications to the storm water, water and wastewater systems within the project limits. Include standard City of Corpus Christi detail sheets as appropriate.
- d) Prepare construction plans in compliance with CPPSCF using English units on 11"x 17".
 - 1. Prepare Traffic Control and Construction Sequencing Plans. The TCP will include construction sequencing, typical cross section and construction phasing plan sheets, warning and barricades, as well as standards sheets for barricades, traffic control plan, work zone pavement markings and signage.
 - 2. Provide Storm Water Pollution Prevention Plan, including construction drawings.
- e) Furnish one (1) set of the interim plans (60% submittal - electronic and hard copies using City Standards as applicable) to the City staff for review and approval purposes with estimates of probable construction costs. Identify distribution list for plans and bid documents to all affected franchise utilities.
 - 1. Required with the interim plans is a "Plan Executive Summary, project checklist & drawing checklist" which will identify and summarize the project by distinguishing key elements and opinion of probable project costs.
 - 2. **Attend 60% submittal meeting with City Staff to assist staff in review of 60% submittal.**
- f) Hold Project 60% review meeting. Prepare meeting agenda and distribute meeting agenda to attendees within five working days of the meeting. Assimilate all review comments, as appropriate and, upon Notice to Proceed.
- ~~g) Provide one (1) set of the pre-final plans and bid documents (90% submittal - electronic and hard copy using City Standards as applicable) to the City staff for review and approval purposes with revised estimates of probable costs. Plan execution summary, project checklist and plan checklist.~~
- ~~h) Hold Project 90% review meeting. Prepare meeting agenda and distribute meeting agenda to attendees within five working days of the meeting. Assimilate all review comments, and incorporate any requirements into the plans and specifications, and advise City of responding and non-responding~~

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- ~~participants as appropriate and, upon Notice to Proceed.~~
- i) Provide one (1) set of the final (100%) plans (unsealed and unstamped - electronic and full-size hard copy using City Standards as applicable) for City's final review.
 - j) Assimilate all final review comments Upon approval by the Director of Engineering Services, provide one (1) set of the **final plans and contract documents** (electronic and full-size hard copy using City Standards as applicable) suitable for reproduction. Said bid documents henceforth become the shared intellectual property of the City of Corpus Christi and the Consultant. The City agrees that any modifications of the submitted final plans (for other uses by the City) will be evidenced on the plans and be signed and sealed by a professional engineer prior to re-use of modified plans.
 - k) Provide Quality Assurance/Quality Control (QA/QC) measures to ensure that all submittals of the interim, pre-final (if required), and final complete plans and complete bid documents with specifications accurately reflect the percent completion designated and do not necessitate an excessive amount of revision and correction by City. Additional revisions or design submittals are required (and within the scope of Consultant's duties under this contract) if, in the opinion of the City Engineer or designee, Consultant has not adequately addressed City-provided review comments or provided submittals in accordance with City standards..
 - l) Prepare and submit Monthly Status Reports to the Project Manager no later than the last Wednesday of each month with action items developed from monthly progress and review meetings. See Exhibit "A-2" for required form.
 - m) Provide copy of contract documents along with appropriate fee to Texas Department of Licensing and Regulation (TDLR) for review and approval of accessibility requirements for pedestrian improvements (as authorized by Additional Services).

The City staff will:

- a) Designate an individual to have responsibility, authority, and control for coordinating activities for the construction contract awarded.
- b) Provide the budget for the Project specifying the funds available for the construction contract.
- c) Provide electronic copy the City's standard specifications, standard detail sheets, standard and special provisions, and forms for required bid documents.

3. Bid Phase. The A/E will:

- a) Prepare draft Authorization to Advertise (ATA).
- b) Participate in the pre-bid conference and provide a meeting agenda for critical construction activities and elements impacted the project.
- c) Assist the City in solicitation of bids by identification of prospective bidders, and review of bids by solicited interests.
- d) Review all pre-bid questions and submissions concerning the bid documents and prepare, in the City's format, for the Engineering Services' approval, any addenda or other revisions necessary to inform contractors of approved changes prior to bidding.
- e) Attend bid opening, analyze bids, evaluate, prepare bid tabulation, and make recommendation concerning award of the contract.

- f) In the event the lowest responsible bidder's bid exceeds the project budget as revised by the Engineering Services in accordance with the A/E's design phase estimate required above, the Engineer will, at its expense, confer with City staff and make such revisions to the bid documents as the City staff deems necessary to re-advertise that particular portion of the Project for bids.
- g) Prepare Agenda Memoranda and PowerPoint presentation in City format for City Council Meeting.

The City staff will:

- a) Arrange and pay for printing of all documents and addenda to be distributed to prospective bidders.
- b) Advertise the Project for bidding, maintain the list of prospective bidders, receive and process deposits for all bid documents, issue (with the assistance of the A/E) any addenda, prepare and supply bid tabulation forms, and conduct bid opening.
- c) Receive the Engineer's recommendation concerning bid evaluation and recommendation and prepare agenda materials for the City Council concerning bid awards.
- d) Prepare, review and provide copies of the contract for execution between the City and the contractor.

4. **Construction Administration Phase.** The A/E will perform contract administration to include the following:

- a) Participate in pre-construction meeting conference and provide a recommended agenda for critical construction activities and elements impacted the project.
- b) Review, Contractor submittals and operating and maintenance manuals for conformance to contract documents.
- c) Review and interpret field and laboratory tests.
- d) Provide interpretations and clarifications of the contract documents for the contractor and authorize required changes, which do not affect the contractor's price and are not contrary to the general interest of the City under the contract.
- e) Make regular visits to the site of the Project to confer with the City project inspector and contractor to observe the general progress and quality of work, and to determine, in general, if the work is being done in accordance with the contract documents. This will not be confused with the project representative observation or continuous monitoring of the progress of construction.
- f) Prepare change orders as authorized by the City; provide interpretations and clarifications of the plans and specifications for the contractor and authorize minor changes which do not affect the contractor's price and are not contrary to the general interest of the City under the contract.
- g) Review, evaluate and recommend for City consideration Contractor Value Engineering proposal.
- h) Attend final inspection with City staff, provide punch list items to the City's Construction Engineers for contractor completion, and provide the City with a Certificate of Completion for the project upon successful completion of the project.
- i) Review Contractor-provided construction "red-line" drawings. Prepare Project record drawings and provide a reproducible set and electronic file (AutoCAD r.14 or later) within two (2) months of final acceptance of the project. All drawings shall be CADD drawn using dwg format in AutoCAD, and graphics data will be in dxf format with each layer being provided in a separate file. Attribute data will be

provided in ASCII format in tabular form. All electronic data will be compatible with the City GIS system.

The City staff will:

- a) Prepare applications/estimates for payments to contractor.
- b) Conduct the final acceptance inspection with the Engineer.

B. ADDITIONAL SERVICES

This section defines the scope of additional services that may only be included as part of this contract if authorized by the Director of Engineering Services. A/E may not begin work on any services under this section without specific written authorization by the Director of Engineering Services. Fees for Additional Services are an allowance for potential services to be provided and will be **negotiated** by the Director of Engineering Services as required. The A/E shall, with written authorization by the Director of Engineering Services, perform the following::

1. **Permit Preparation.** Furnish the City all engineering data and documentation necessary for all required permits. The A/E will prepare this documentation for all required signatures. The A/E will prepare and submit identified permits as **applicable** to the appropriate local, state, and federal authorities, including:
 - a. ~~Union Pacific Railroad, Missouri Pacific Railroad, or any other railroad operating in the area~~
 - b. ~~TxDOT utility and environmental permits, multiple-use agreements~~
 - c. ~~Wetlands Delineation and Permit~~
 - d. ~~Temporary Discharge Permit~~
 - e. ~~NPDES Permit/Amendments (including SSC, NOI NOT)~~
 - f. ~~Texas Commission of Environmental Quality (TCEQ) Permits/Amendments~~
 - g. ~~Nueces County~~
 - h. ~~Texas Historical Commission (THC)~~
 - i. ~~U.S. Fish and Wildlife Service (USFWS)~~
 - j. ~~U.S. Army Corps of Engineers (USACE)~~
 - k. ~~United States Environmental Protection Agency (USEPA)~~
 - l. Texas Department of Licensing and Regulation (TDLR)
 - m. ~~Texas General Land Office (TGLO)~~
 - n. ~~Other agency project specific permits~~
2. **Right-of-Way (ROW) Acquisition Survey.** All work must comply with Category 1-A, Condition I specifications of the Texas Society of Professional Surveyors' Manual of Practice for Land Surveying in the State of Texas, Ninth Edition. All work must be tied to and in conformance with the City's Global Positioning System (GPS) control network. All work must comply with all TxDOT requirements as applicable.
 - a) Perform surveys to determine apparent right-of-way widths.
 - b) Research plats, ROW maps, deed, easements, and survey for fence corners, monuments, and iron pins within the existing ROW and analyze to establish existing apparent ROW. A/E must obtain Preliminary Title Reports from a local title company and provide copies of the title reports to the City. Preliminary Title Report shall identify title ownership and any title encumbrances to all right-of-way to be acquired.
 - c) Provide a preliminary base map containing apparent ROW, which will be used by the A/E to develop the proposed alignment and its position relative to the existing

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and proposed ROW. This preliminary base map must show lot or property lines, land ownership and addresses as per appraisal district records.

- d) Prepare Metes and Bound Instrument with supporting exhibits as required and agreed upon, subsequent to ELR acceptance for ROW parcels, utility easements and temporary construction easements.

3. **Topographic Survey and Parcel Descriptions** All work must be tied to and conform with the City's Global Positioning System (GPS) control network and comply with Category 6, Condition I specifications of the Texas Society of Professional Surveyors' Manual of Practice for Land Surveying in the State of Texas, Ninth Edition. Include reference to a minimum of two (2) found boundary monuments from the project area.

- a) Establish Horizontal and Vertical Control.
b) Establish both primary and secondary horizontal/vertical control.
c) Set project control points for Horizontal and Vertical Control outside the limits of project construction disturbance.
d) Horizontal control will be based on NAD 83 State plane coordinates (South Zone), and the data will have no adjustment factor applied – i.e. – the coordinate data will remain in grid.
e) Vertical control will be based on NAVD 88.
f) All control work will be established using conventional (non-GPS) methods. Perform topographic surveys to gather existing condition information.
g) Locate proposed soil/pavement core holes as drilled by the City's Geotechnical Engineering Consultant.
h) Obtain x, y, and z coordinates of all accessible existing sanitary sewer, storm sewer, water and gas lines as well as any other lines owned by third-parties and locate all visible utilities, wells and signs within the apparent ROW width along project limits. No utility connections will be shown. Surveying services, related to subsurface engineering (SUE) shall be provided as part of the scope of work for SUE.
i) Locate improvements within the apparent ROW.
j) Locate and identify trees, at least five inches in diameter within the apparent ROW.
k) Generate electronic planimetric base map for use in project design.
l) Set property corners and prepare right of way strip parcel map depicting all parcels proposed for acquisition. Metes and bounds descriptions must indicate parent tract areas based on the most accurate information available. Strip map will show entire parent tracts at "not to scale" and for information only. All existing easements within the parcels to be acquired and those within adjacent parcels must be shown.
m) Prepare individual signed and sealed parcel maps and legal descriptions for the required right of way acquisition for parcels and easements. A strip map showing all parcels required will be submitted along with parcel descriptions. Additional fees may be required in resolving boundary conflicts between Owners. A/E shall submit parcel maps and legal descriptions prior to the 60% submittal.

4. **Environmental Issues.** Identify and develop a scope of work for any testing, handling and disposal of hazardous materials and/or contaminated soils that may be discovered during construction.

5. **Public Involvement.** Participate in two public meetings. One public meeting shall be held after submittal of the Final Engineering Letter Report and one public meeting shall be held prior to start of project construction. Prepare notices, PowerPoint presentations, handouts and exhibits for meetings. Provide follow-up and response to citizen comments. Revise contract drawings to address citizen comments, as directed by the City. Prepare notices, handouts and exhibits for public information meetings.

6. **Subsurface Utility Investigation**
 - a) Provide subsurface utility engineering in accordance with ASCE Standard "ASCE C-1, 38-02, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data" including, but not limited to, hydro-excavation. The proposed subsurface utility investigation will be as follows:
 - i) Excavation – The survey scope includes working with a subsurface utility excavator to perform Quality Level A investigation of underground utilities in specified areas through the project limit. (Quality Level A involves the use of nondestructive digging equipment at critical points to determine the horizontal and vertical position of underground utilities, as well as the type, size, condition, material, and other characteristics.) Utilities located at this quality level will be physically located and tied to the topographic survey control. The utility will be identified and an elevation will be obtained to the top of the utility.
 - ii) Utility Location – The survey scope includes locating certain utilities to Quality Level B (Quality Level B involves surveying visible above ground utility facilities, such as manholes, valve boxes, posts, etc., and correlating this information with existing utility records.) These utilities will be located by obtaining a One-Call Notice and measuring the marked locations.
 - iii) Storm Water – Storm water facilities within the project limits will be located to Quality Level C. Locations will be based on the surveyed locations of accessible storm water manholes and drainage inlets.
 - iv) Wastewater – Wastewater facilities within the project limits will be located to Quality Level C. Locations will be based on the surveyed locations of accessible wastewater manholes. Wastewater lines that are not to be replaced as part of this project and that fall within the footprint of construction-related excavation shall be located at Quality Level A.
 - v) Water – Water facilities within the project limits will be located to Quality Level C.
 - vi) Gas – Gas facilities within the project limits will be located to Quality Level C by the A/E. The City of Corpus Christi Gas Department will provide Quality Level A. The A/E will coordinate this activity.
 - b) Inform local franchises whose utilities fall within the footprint of construction-related excavation of the potential for encountering their utility lines during construction.

7. **Construction Observation Services.** To Be Determined.

8. **Warranty Phase.** Provide a maintenance guaranty inspection toward the end of the one-year period after acceptance of the Project. Note defects requiring contractor action to maintain, repair, fix, restore, patch, or replace improvement under the maintenance guaranty terms of the contract. Document the condition and prepare a report for the City staff of the locations and conditions requiring action, with its recommendation for the method or action to best correct defective conditions and submit to City Staff. Complete the inspection and prepare the report no later than sixty (60) days prior to the end of the maintenance guaranty period.

Provide the services above authorized in addition to those items shown on Exhibit "A-1" Task List, which provides supplemental description to Exhibit "A". Note: The Exhibit "A-1" Task List does not supersede Exhibit "A".

II. **SCHEDULE**

Date	Activity
January 9, 2014	NTP
January 27, 2014	City provided Traffic assessment
March 28, 2014	Draft ELR submittal
April 11, 2014	City Review
May 2, 2014	Final ELR submittal
August 1, 2014	60% Design Submittal
August 22, 2014	City Review
	90% Design Submittal
	City Review
October 3, 2014	100% Final Submittal
October 15, 2014	Advertise for Bids
November 4, 2014	Pre-Bid Conference
November 11, 2014	Receive Bids
December 1, 2014	Contract Award
December 8, 2014	Begin Construction
June 8, 2015	Complete Construction

III. **FEES**

A. **Fee for Basic Services.** The City will pay the A/E a fixed fee for providing for all "Basic Services" authorized as per the table below. The fees for Basic Services will not exceed those identified and will be full and total compensation for all services outlined in Section I.A.1-4 above, and for all expenses incurred in performing these services. **The fee for this project is subject to the availability of funds. The Engineer may be directed to suspend work pending receipt and appropriation of funds.** For services provided, A/E will submit monthly statements for services rendered. The statement will be based upon A/E's estimate (and with City's concurrence) of the proportion of the total services actually completed at the time of billing. City will make prompt monthly payments in response to A/E's monthly statements.

- B. Fee for Additional Services.** For services authorized by the Director of Engineering Services under Section I.B. "Additional Services," the City will pay the A/E a not-to-exceed fee as per the table below:

Summary of Fees

Basic Services Fees	
1. Preliminary Phase	61,088.00
2. Design Phase	99,554.00
3. Bid Phase	5,050.00
4. Construction Administration Phase	21,496.00
Subtotal Basic Services Fees	187,188.00
Additional Services Fees (Allowance)	
1. Permit Preparation	5,000.00
2. ROW Acquisition Survey	5,000.00
3. Topographic Survey and Parcel Descriptions	13,000.00
4. Environmental Issues	1,000.00
5. Public Involvement	10,000.00
6. Subsurface Utility Investigation	53,630.50
7. Construction Observation Services	To Be Determined
8. Start Up Services	Not Needed
9. Warranty Phase	5,000.00
10. Traffic Analysis	42,420.00
11. Pavement Lifecycle Cost Analysis	3,850.00
12. Geotechnical Engineering Report	14,300.00
13. Environmental Assessment, Phase 1	2,200.00
Sub-Total Additional Services Fees Authorized	155,400.50
Total Authorized Fee	342,588.50

*Additional Services which are requested to be authorized in coordination with the notice to proceed for Basic Services.

EXHIBIT "A1"
CITY OF CORPUS CHRISTI, TEXAS

SANTA FE STREET FROM HANCOCK TO ELIZABETH
PROJECT NO. E13100
BOND ISSUE 2014

This contract covers the preparation an engineering letter report, construction plans and construction manual (front end contract documents and specifications) for Santa Fe Street from Hancock to Elizabeth. The project is an approximately 2,000 feet of four-lane, asphalt, curb and gutter, roadway reconstruction project.

Other improvements include replacing existing water, wastewater and storm water lines; replacing storm water inlets and manholes due to system redesign; modifications of existing traffic signals to meet current MUTCD standards; evaluation of signal timing relative to signals at 3rd and Elizabeth; replacement of existing sidewalks and wheelchair ramps; replacement of existing driveways with concrete driveways; reconstruction of bus pads to meet RTA standards; replacement of existing bus stops (not including structures or benches) to meet RTA standards; replacement of existing signs, replacement of existing pavement markings; relocation of AEP power poles as necessary; relocation of private underground utilities as necessary; right-of-way acquisition as necessary.

Design services related to construction plan preparation include preparation of typical sections, various base map plan sheets; plan and profile sheets; storm sewer lateral details; roadway intersection details; traffic signal plans; demolition plan, driveway summary; survey control map, quantity estimate; construction phasing plan; traffic control plan; storm water pollution prevention plan; miscellaneous details and standards; proposed roadway cross sections.

I. AMENDED SCOPE OF SERVICES

A. BASIC SERVICES

2. Design Phase.

- a. The City project manager will provide written approval of the Final Engineering Letter Report to the A/E prior to the A/E beginning the Design Phase. Written approval may be either a letter or email. The City will allow the A/E an opportunity to submit a revised schedule and fee estimate if any substantial changes to the scope of work are made during approval of the Final Engineering Letter Report. No work on the Design Phase will begin until the revised schedule and fee estimate are addressed and approved.

B. ADDITIONAL SERVICES

1. Traffic Analysis.

- a. Perform an analysis of current traffic conditions and traffic systems as needed based on existing traffic data collected by the City.
- b. Prepare signal warrant analysis of all intersections as needed based on existing studies prepared by the City.
- c. Services also include the redesign of existing signals to meet current MUTCD standards. Provide proposed changes to the current system as needed based on projected traffic patterns.
- d. Analysis to include following services: traffic counts at major intersections, traffic signal warrant, future traffic growth projections, and recommendations of traffic system improvements. Traffic counts will be performed using either 13 hour TMC or 24 hour ATR as determined by the City.

- e. The City will provide any existing traffic count data available for the project area to the consultant prior to beginning the analysis. Consultant will advise City if study is needed based on existing data. Allowance is based on the 13 hour TMC method of performing traffic counts.
2. **Pavement Lifecycle Cost Analysis.** Perform lifecycle cost analysis of pavement options recommended in geotechnical study. Analysis shall provide the estimated service life, construction cost, and maintenance/rehabilitation cost of the pavement. The data shall present a timeline of when expenditures are spent as well as the remaining service life of the pavement at the end of the 30 year analysis period. Analysis shall provide a ranking of options with respect to the construction cost, maintenance cost and the remaining service life. The City and the engineer will select an option based on the results of the analysis.
 3. **Geotechnical Engineering Report.** Provide recommendations for selection of proposed roadway cross section. Tasks include investigation of subsurface soil conditions through collecting soil bore samples and laboratory testing of the samples and preparation of a report summarizing results of testing and provide flexible and rigid pavement options for roadway.
 - a. Laboratory testing may include moisture content, Atterberg limits, percent passing No. 200 sieve, dry density, moisture content, unconfined compressive strength, particle size gradation, pH, soil box resistivity, soluble sulfate concentration and chloride concentration
 - b. Geotechnical Engineering report will provide:
 - i. Description of field exploration and laboratory testing
 - ii. Summary of laboratory test results
 - a. Discussion of subsurface soil and groundwater conditions
 - b. General discussion of site geology
 - c. General discussion of excavations for deeper utility lines
 - d. Discussion of potential soil movements, including calculated potential vertical rise
 - e. Recommendation for reconstructed pavement section thickness including flexible pavement and rigid pavement for a 30 year design life
 - f. Recommendation for preparation of the pavement subgrade including alternatives for stabilization of subgrades
 - g. Earthwork recommendations including backfill requirements
 - h. Plan of borings to scale showing the locations
 - i. Bore log indicating the bore number, depth of each stratum, soil classification, soil description and groundwater information
 4. **Environmental Assessment, Phase 1.** Perform investigation of proposed project site including surrounding areas to identify critical environmental, archaeological, historical concerns. Assessment will include a review of regulatory data bases only and does not include field work, testing or coordination with regulatory agencies.
 5. **Right-of-Way Acquisition Survey.** Services for the right-of-way acquisition survey do not include the preparation of parcel maps for the acquisition of additional right of way. A separate fee estimate will be prepared for the work needed to prepare parcel maps once the right-of-way acquisition scope is determined at the approval of the Final Engineering Letter Report. Includes preparation of parcel maps for acquisition of corner clips. Does not include preparation of parcel maps to acquire right of way along roadway corridor.

6. **Construction Administration.** Construction administration services include services described previously in Exhibit A, provided that such services are not the result of field changes due to site conditions that the engineer was not aware of through reasonable means of discovery. Reasonable means of discovery include drawings and studies provided by the City, GIS data provided by the City, topographic survey data, data provided by private utility companies and a site visit. The engineer will attempt to collect the required data prior to the beginning of the final design phase. Requested data received from either the City or private utility companies after beginning the final design phase will be considered a field change and subject to a request for contract amendment.
7. **Subsurface Utility Investigation.**
- b. Disposal of waste shall be at J.C. Elliot Transfer Station
 - c. Investigation includes hydro excavation at the following six (6) locations:
 1. Santa Fe @ Hancock (2-12" diameter x 10' deep holes)
 2. Santa Fe @ Morgan (2-12" diameter x 10' deep holes)
 3. Santa Fe @ Elizabeth (2-12" diameter x 10' deep holes)

II. PRELIMINARY SCHEDULE

Date	Activity
January 9, 2014	NTP
January 27, 2014	City provided Traffic assessment
March 28, 2014	Draft ELR submittal
April 11, 2014	City Review
May 2, 2014	Final ELR submittal
August 1, 2014	60% Design Submittal
August 22, 2014	City Review
	90% Design Submittal
	City Review
October 3, 2014	100% Final Submittal
October 15, 2014	Advertise for Bids
November 4, 2014	Pre-Bid Conference
November 11, 2014	Receive Bids
December 1, 2014	Contract Award
December 8, 2014	Begin Construction
June 8, 2015	Complete Construction

Summary of Fees

Basic Services Fees	
1. Preliminary Phase	61,088.00
2. Design Phase	99,554.00
3. Bid Phase	5,050.00
4. Construction Administration Phase	21,496.00
Subtotal Basic Services Fees	187,188.00
Additional Services Fees (Allowance)	
1. Permit Preparation	5,000.00
2. ROW Acquisition Survey	5,000.00
3. Topographic Survey and Parcel Descriptions	13,000.00
4. Environmental Issues	1,000.00
5. Public Involvement	10,000.00
6. Subsurface Utility Investigation	53,630.50
7. Construction Observation Services	To Be Determined
8. Start Up Services	Not Needed
9. Warranty Phase	5,000.00
10. Traffic Analysis	42,420.00
11. Pavement Lifecycle Cost Analysis	3,850.00
12. Geotechnical Engineering Report	14,300.00
13. Environmental Assessment, Phase 1	2,200.00
Sub-Total Additional Services Fees Authorized	155,400.50
Total Authorized Fee	342,588.50

EXHIBIT "A1"
Page 4 of 4

EXHIBIT "B"
MANDATORY INSURANCE REQUIREMENTS & INDEMNIFICATION
FOR A/E PROFESSIONAL SERVICES/CONSULTANT SERVICES
(Revised October 2010)

- A. Consultant must not commence work under this agreement until all insurance required herein has been obtained and such insurance has been approved by the City. The Consultant must not allow any subcontractor to commence work until all similar insurance required of the subcontractor has been obtained.
- B. Consultant must furnish to the City's Risk Manager, two (2) copies of Certificates of Insurance, showing the following minimum coverages by insurance company(s) acceptable to the City's Risk Manager. The City must be named as an additional insured for all liability policies, and a blanket waiver of subrogation is required on all applicable policies.

TYPE OF INSURANCE	MINIMUM INSURANCE COVERAGE
30-Day Written Notice of Cancellation, non-renewal or material change required on all certificates	Bodily Injury & Property Damage Per occurrence - aggregate
COMMERCIAL GENERAL LIABILITY including: 1. Broad Form 2. Premises - Operations 3. Products/ Completed Operations 4. Contractual Liability 5. Independent Contractors	\$1,000,000 COMBINED SINGLE LIMIT
AUTOMOBILE LIABILITY to included 1. Owned vehicles 2.. Hired – Non-owned vehicles	\$1,000,000 COMBINED SINGLE LIMIT
PROFESSIONAL LIABILITY including: Coverage provided shall cover all employees, officers, directors and agents 1. Errors and Omissions	\$1,000,000 per claim / \$2,000,000 aggregate (Defense costs not included in face value of the policy) If claims made policy, retro date must be prior to inception of agreement; have extended reporting period provisions and identify any limitations regarding who is an Insured
WORKERS' COMPENSATION	Which Complies with the Texas Workers Compensation Act
EMPLOYERS' LIABILITY	500,000/500,000/500,000

- C. In the event of accidents of any kind, Consultant must furnish the Risk Manager with copies of all reports within (10) ten days of accident.
- D. Consultant must obtain workers' compensation coverage through a licensed insurance company in accordance with Texas law. The contract for coverage must be written on a policy and endorsements approved by the Texas Department of Insurance. The coverage provided must be in amounts sufficient to assure that all workers' compensation obligations incurred will be promptly met.
- E. Consultant's financial integrity is of interest to the City; therefore, subject to Successful Consultant's right to maintain reasonable deductibles in such amounts as are approved by the City, Consultant shall obtain and maintain in full force and effect for the duration of this Contract, and any extension hereof, at Consultant's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A-VII.
- F. The City shall be entitled, upon request and without expense, to receive copies of the policies, declarations page and all endorsements thereto as they apply to the limits required by the City, and may require the deletion, revision, or modification of particular policy terms, conditions, limitations or exclusions (except where policy provisions are established by law or regulation binding upon either of the parties hereto or the underwriter of any such policies). Consultant shall be required to comply with any such requests and shall submit a copy of the replacement certificate of insurance to City at the address provided below within 10 days of the requested change. Consultant shall pay any costs incurred resulting from said changes. All notices under this Article shall be given to City at the following address:

City of Corpus Christi
Attn: Risk Management
P.O. Box 9277
Corpus Christi, TX 78469-9277
Fax: (361) 826-4555

- G. Consultant agrees that with respect to the above required insurance, all insurance policies are to contain or be endorsed to contain the following required provisions:
- i. Name the City and its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement, as respects operations and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation and professional liability policies;
 - ii. Provide for an endorsement that the "other insurance" clause shall not apply to the City of Corpus Christi where the City is an additional insured shown on the policy;
 - iii. Workers' compensation and employers' liability policies will provide a waiver of subrogation in favor of the City; and
 - iv. Provide thirty (30) calendar days advance written notice directly to City of any suspension, cancellation, non-renewal or material change in coverage, and not less than ten (10) calendar days advance written notice for nonpayment of premium.

- H. Within five (5) calendar days of a suspension, cancellation, or non-renewal of coverage, Successful Consultant shall provide a replacement Certificate of Insurance and applicable endorsements to City. City shall have the option to suspend Consultant's performance should there be a lapse in coverage at any time during this contract. Failure to provide and to maintain the required insurance shall constitute a material breach of this contract.
- I. In addition to any other remedies the City may have upon Consultant's failure to provide and maintain any insurance or policy endorsements to the extent and within the time herein required, the City shall have the right to order Consultant to stop work hereunder, and/or withhold any payment(s) which become due to Consultant hereunder until Consultant demonstrates compliance with the requirements hereof.
- J. Nothing herein contained shall be construed as limiting in any way the extent to which Successful Consultant may be held responsible for payments of damages to persons or property resulting from Consultant's or its subcontractors' performance of the work covered under this agreement.
- K. It is agreed that Consultant's insurance shall be deemed primary and non-contributory with respect to any insurance or self insurance carried by the City of Corpus Christi for liability arising out of operations under this contract.
- L. It is understood and agreed that the insurance required is in addition to and separate from any other obligation contained in this contract.

INDEMNIFICATION AND HOLD HARMLESS

Consultant shall indemnify, save harmless and defend the City of Corpus Christi, and its agents, servants, and employees, and each of them against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses and expenses, including court costs and attorneys' fees, for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to any property, which may arise or which may be alleged to have arisen out of or in connection with the negligent performance of Consultant's services covered by this contract. The foregoing indemnity shall apply except if such injury, death or damage is caused by the sole or concurrent negligence of the City of Corpus Christi, its agents, servants, or employees or any other person indemnified hereunder.

COMPLETE PROJECT NAME

Project No. XXXX

Invoice No. 12345

Invoice Date:

	Contract	Amd No. 1	Amd No. 2	Contract	Amount Invoiced	Previous Invoice	Total Invoice	Percent Complete
Basic Services:								
Preliminary Phase	\$1,000	\$0	\$0	\$1,000	\$0	\$1,000	\$1,000	100%
Design Phase	2,000	1,000	0	3,000	1,000	500	1,500	50%
Bid Phase	500	0	250	750	0	0	0	0%
Construction Phase	2,500	0	1,000	3,500	0	0	0	0%
Subtotal Basic Services	\$6,000	\$1,000	\$1,250	\$8,250	\$750	\$1,500	\$2,500	30%
Additional Services:								
Permitting	\$2,000	\$0	\$0	\$2,000	\$500	\$0	\$500	25%
Warranty Phase	0	1,120	0	1,120	0	0	0	0%
Inspection	0	0	1,627	1,627	0	0	0	0%
Platting Survey	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0%
O & M Manuals	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0%
SCADA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0%
Subtotal Additional Services	\$2,000	\$1,120	\$1,627	\$4,747	\$500	\$0	\$500	11%
Summary of Fees								
Basic Services Fees	\$6,000	\$1,000	\$1,250	\$8,250	\$750	\$1,500	\$2,500	30%
Additional Services Fees	2,000	1,120	1,627	4,747	500	0	500	11%
Total of Fees	\$8,000	\$2,120	\$2,877	\$12,997	\$1,250	\$1,500	\$3,000	23%



City of
Corpus
Christi

SUPPLIER NUMBER
TO BE ASSIGNED BY CITY
PURCHASING DIVISION

CITY OF CORPUS CHRISTI DISCLOSURE OF INTEREST

City of Corpus Christi Ordinance 17112, as amended, requires all persons or firms seeking to do business with the City to provide the following information. **Every question must be answered. If the question is not applicable, answer with "NA".** See reverse side for Filing Requirements, Certifications and definitions.

COMPANY NAME: Maverick Engineering, Inc.

P. O. BOX: _____

STREET ADDRESS: 400 Mann Street, Suite 200 CITY: Corpus Christi ZIP: 78401

FIRM IS: 1. Corporation 2. Partnership 3. Sole Owner
4. Association 5. Other

DISCLOSURE QUESTIONS

If additional space is necessary, please use the reverse side of this page or attach separate sheet.

1. State the names of each "employee" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Job Title and City Department (if known)
<u>NA</u>	_____
_____	_____
_____	_____

2. State the names of each "official" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Title
<u>NA</u>	_____
_____	_____
_____	_____

3. State the names of each "board member" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Board, Commission or Committee
<u>NA</u>	_____
_____	_____
_____	_____

4. State the names of each employee or officer of a "consultant" for the City of Corpus Christi who worked on any matter related to the subject of this contract and has an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Consultant
<u>NA</u>	_____
_____	_____
_____	_____

FILING REQUIREMENTS

If a person who requests official action on a matter knows that the requested action will confer an economic benefit on any City official or employee that is distinguishable from the effect that the action will have on members of the public in general or a substantial segment thereof, you shall disclose that fact in a signed writing to the City official, employee or body that has been requested to act in the matter, unless the interest of the City official or employee in the matter is apparent. The disclosure shall also be made in a signed writing filed with the City Secretary. [Ethics Ordinance Section 2-349 (d)]

CERTIFICATION

I certify that all information provided is true and correct as of the date of this statement, that I have not knowingly withheld disclosure of any information requested; and that supplemental statements will be promptly submitted to the City of Corpus Christi, Texas as changes occur.

Certifying Person: William Fordtran, P. E. Title: Chief Operating Officer
(Type or Print)

Signature of Certifying Person:



Date:

1/16/14

DEFINITIONS

- a. "Board member." A member of any board, commission, or committee appointed by the City Council of the City of Corpus Christi, Texas.
- b. "Economic benefit". An action that is likely to affect an economic interest if it is likely to have an effect on that interest that is distinguishable from its effect on members of the public in general or a substantial segment thereof.
- c. "Employee." Any person employed by the City of Corpus Christi, Texas either on a full or part-time basis, but not as an independent contractor.
- d. "Firm." Any entity operated for economic gain, whether professional, industrial or commercial, and whether established to produce or deal with a product or service, including but not limited to, entities operated in the form of sole proprietorship, as self-employed person, partnership, corporation, joint stock company, joint venture, receivership or trust, and entities which for purposes of taxation are treated as non-profit organizations.
- e. "Official." The Mayor, members of the City Council, City Manager, Deputy City Manager, Assistant City Managers, Department and Division Heads, and Municipal Court Judges of the City of Corpus Christi, Texas.
- f. "Ownership Interest." Legal or equitable interest, whether actually or constructively held, in a firm, including when such interest is held through an agent, trust, estate, or holding entity. "Constructively held" refers to holdings or control established through voting trusts, proxies, or special terms of venture or partnership agreements."
- g. "Consultant." Any person or firm, such as engineers and architects, hired by the City of Corpus Christi for the purpose of professional consultation and recommendation.