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June 2, 2021

DRAFT

Mr. Jeff Edmonds, P.E.
Director of Engineering Services
City of Corpus Christi
P. O. Box 9277
Corpus Christi, TX 78469-9277

Re: Everhart Road from SPID to McArdle Rd. - Bond 2018, Proposition B, City Project No. 18015A
Amendment No. 1
Freese and Nichols Professional Design Services Proposal

Dear Mr. Edmonds,

Freese and Nichols, Inc. (FNI) is pleased to provide our Amendment #1 to the Engineering Services proposal for Everhart Road – SPID to McArdle Rd. Bond 2018, Proposition B (City Project No. 18015A). We understand the Everhart Road – SPID to McArdle Road project scope may include, but not be limited to the activities listed in the attached Exhibit A.

Project Assumptions:

1. The intersection of SPID and Everhart is located in TxDOT Right-of Way and will not be designed, modified, or included in the permanent improvements for this project. It is assumed that any future TxDOT construction or modifications of the SPID/Everhart intersection will not impact the project design and schedule.
2. Detailed stormwater modeling including hydrologic impact analysis is not included in the scope.
3. Detailed street lighting design including lighting distribution and photometric analysis is not included in this scope of work. FNI will assist the City in developing recommendations for the street lighting to be consistent with the future City Street Lighting Policy that has not yet been adopted.

Anticipated Drawing Register for the Everhart Road (SPID to McArdle Road) is as follows:

- Quantities Summary Sheet 01 – HMAC
- Quantities Summary Sheet 02 - Concrete
- Existing and Proposed Cross Sections Sta. 4+00
- Existing and Proposed Cross Sections Sta. 8+00
- Existing and Proposed Cross Sections Sta.12+00
- Project Location Map and Alignment Layout
- Existing Topo Plan Sta 0+00 to Sta 4+80
- Existing Topo Plan Sta 4+80 to Sta 9+60
- Existing Topo Plan Sta 9+60 to End
- Project Control Points 01
- Project Control Points 02
- Storm Water Drainage Areas
- Proposed Storm Water Analysis
- Demolition/Removal Summary
- Existing Waterline Base map

- Existing Wastewater Base map
- Existing Storm Water Base map
- Existing Gas line Base map
- Street and Storm Water P&P Sta 0+00 to Sta 4+80
- Street and Storm Water P&P Sta 4+80 to Sta 9+60
- Street and Storm Water P&P Sta 9+60 to End
- Storm Water Profiles 01
- Storm Water Profiles 02
- Storm Water Profiles 03
- Storm Water Profiles 04
- Curb Ramp Details 01
- Curb Ramp Details 02
- Bus Stop Shelter Pad Plans
- Bus Stop Shelter Pad Details
- HMAC Pavement Details
- Rigid Pavement Details
- Storm Water Misc. Details 01
- Storm Water Misc. Details 02
- Water P&P Sta 0+00 to Sta 4+80
- Water P&P Sta 4+80 to Sta 9+60
- Water P&P Sta 9+60 to End
- Waterline Laterals 01
- Waterline Laterals 02
- Water Details
- Conduit Layout Plan Sta 0+00 to End
- Striping Plan Sheet 1
- Striping Plan Sheet 2
- Signage Plan Sheet 1
- Signage Plan Sheet 2
- Typical Standard Pavement Markings Plan
- Position Guidance using Raised Markers Plan
- Pavement Markings for Two - Way Street Plan
- Standard Pavement Markings Arrows and Words
- Crosswalk Pavement Marking Details
- Sign Mounting Details Slipbase System
- End of Road Barricade, Traffic Sign Assembly
- Storm Water Pollution Prevention Plan Sheet 1
- Storm Water Pollution Prevention Plan Sheet 2
- SW3P Plan Notes
- SW3P Permit issues and Comments (EPIC)
- SW3P Details
- Curb, Gutter and Sidewalk Standard Details
- City of CC Pedestrian Curb Ramp Details #1-4
- City of CC Driveway Standard Details #1-3
- City of CC Storm Water Standard Details #1-3
- City of CC Water Standard Details #1-4

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We are pleased to offer these authorized services under these conditions and assumptions for $441,971.00. Additional services not authorized are yet to be determined in regard to scope and fee.

We look forward to working with your team on this project. Please feel free to contact me at 361.561.6510 if you have any questions.

Respectfully,

Freese and Nichols, Inc.

Ron Guzman, P.E.
Vice President/Principal

Attachments

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EXHIBIT "A"
CITY OF CORPUS CHRISTI, TEXAS

EVERHART ROAD – S.P.I.D. TO MCARDLE RD.
PROJECT NO. 18015A
BOND ISSUE 2018

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/Engineering services.

1. **Preliminary Phase**.

The Architect/Engineer (A/E), also referred to as Consultant, will:

~~a) Attend Project Kick-off Meeting and distribute meeting minutes to attendees within five working days of the meeting.~~

~~b) Provide recommended geotechnical investigations scope and coordinate testing with City's geotechnical Consultant. Proposed sites shall be approved by the City Project Manager prior to performing geotechnical investigation.~~

~~c) Request and review available reports, record drawings, utility maps and other information provided by the City pertaining to the project area.~~

~~d) Develop preliminary requirements for utility relocations, replacements or upgrades. Coordinate with the City's Project Manager and identify Operating Departments potential Project needs.~~

~~e) Develop preliminary typical street sections and pavement sections, incorporating the City's Geotechnical Consultant's recommendations. All streets shall be designed with flexible and rigid pavements.~~

~~f) Identify preliminary right-of-way acquisition requirements and illustrate on a schematic strip map.~~

~~g) Prepare preliminary opinions of probable construction costs for the recommended improvements.~~

~~h) Develop a Drainage Area Map showing the existing and proposed drainage basins served by the Project storm system.~~

~~i) Conduct preliminary hydraulic analysis to quantify the storm water design of existing and proposed systems.~~

~~j) Identify electric and communication utility companies and private pipeline companies that may have existing facilities and must be relocated to accommodate the proposed improvements. Submit a list of identified companies to the City.~~

~~k) Conduct preliminary analysis of lighting and traffic signalization, including existing equipment, above/below ground electrical service, lane designations, etc. Coordinate signal requirements with City Street Department. Provide recommendations for improvements/upgrades.~~

~~l) The AE will participate in discussions with the Operating Department; Development Services and other agencies (such as the Texas Department of Transportation (TXDOT) and Texas Commission of Environmental Quality (TCEQ) as required to satisfactorily complete the Project. Any directions or changes to scope provided by the Operating Department or other agencies shall be reviewed~~

with the City Engineering Department PM prior to including/excluding from the scope of work.

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, coordinate with agencies such as RTA, USPS, affected school districts (CCISD, FBISD, etc.), community groups, etc.

n) Identify and recommend public outreach and community stakeholder requirements.

o) Request and review traffic counts from the City PM.

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 (CPPS). The 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, sealed survey including topographic, right-of-way and utilities location information (per scope in Topographic and Right-of-Way (ROW) Survey services), right-of-way requirements, conformance to master plans, identification of needed additional services, identification of needed permits and environmental consideration, existing and proposed utilities, existing electric and communication utility companies and private pipeline companies, identification of quality and quantity of materials of construction, and other factors required for a professional design.
2. Include existing site photos with location key map.
3. Provide opinion of probable construction costs.
4. 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 TCEQ, RTA, CDBG, USPS, CCISD, community groups, TDLR, etc.
5. Summary of Geotechnical Report findings and criteria for pavement design, including the projected growth rate, 30-year ESAL estimate and SN value, 30-year pavement recommendation, etc.
    a. Analyze proposed pavement options and provide recommendation for most cost-effective pavement section that accommodates traffic requirements, budget constraints, utility needs, etc.
6. Provide preliminary index of anticipated drawings and specifications.
7. Provide a preliminary summary table of anticipated required ROW parcels

q) Submit one (1) copy in an approved electronic format, and three (3) hard copies of the Draft Engineering Letter Report.

r) **Initiate** ELR submittal discussion with City PM to brief PM on any concerns or issues prior to distribution of ELR submittal.

s) Participate in Project review meeting with City staff and others on the Draft Engineering Letter Report as scheduled by City Project Manager.

t) Address review comments and questions and provide written responses to the City PM.

u) Assimilate all City review comments into the **Final Engineering Letter Report** (ELR). Provide one (1) electronic and one (1) hard copy using City Standards as applicable and suitable for reproduction.

~~City staff will provide electronic copies of the following information (as applicable and requested through the City PM):~~

~~a) Electronic index and database of City's Record Drawing and record information.~~
~~b) Record Drawings and record information as available from City Engineering files.~~
~~c) The preliminary budget, specifying the funds available for construction.~~
~~d) A copy of existing studies and plans (as available from City Engineering files).~~
~~e) Copy of Geotechnical Investigation Report.~~
~~f) Traffic counts.~~
~~g) Benchmarks and coordinates~~

~~City staff will provide the following services:~~
~~a) Field location of existing utilities~~
~~a. Through 811~~
~~b. Through A/E coordination with City Operating Departments~~
~~c. Through MH location and opening~~
~~d. Through sharing of pipe video or service records as requested~~

Note: Applicable Master Plans and GIS mapping are available on the City's website. **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 from the City Project Manager, 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. Inform private utility and pipeline owners whose facilities fall within the project limits of the proposed improvements. Identify areas of potential conflicts. Coordinate with private utility and pipeline owners to obtain needed locations of their respective utility/pipeline, including Level A SUE by private utility/pipeline owner as necessary. Coordinate necessary adjustments and provide a project schedule to utility/pipeline owner. Provide utility/pipeline relocation schedule to the City and update monthly.

b) Coordinate with AEP and City Traffic Engineering to identify location of electrical power conduit for street lighting and traffic signalization.

c) Identify the approximate locations and areas of existing utilities and pipelines that may have a significant potential impact on the proposed features or utilities and for which the existing location(s) cannot be adequately determined by the SUE investigation up to and including Level B, and which require a Level A exploratory

excavation during the design phase. These critical locations and their basis of potential impact are to be clearly provided on a layout for the City PM.

d) Provide assistance to identify potential needs for testing, handling and disposal of any hazardous materials and/or contaminated soils that may be discovered during construction (to be included under additional services).

e) Prepare Construction Documents in City standard format for the work identified in the approved ELR. Construction plans to include improvements or modifications to the street, storm water, water, wastewater, gas, IT, signal, and lighting systems within the Project limits, per the Project scope. Include standard City of Corpus Christi detail sheets and specifications as applicable to the Project.

1. Prepare construction plans in compliance with CPPS using English units on full-size (22" x 34").
2. 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.
3. Provide pollution control measures and BMP layout for the Contractor's Storm Water Pollution Prevention Plan, using the City Standard Notes and BMP Detail Sheets as applicable.
4. Include computer model results and calculations used to analyze drainage.

f) Submit three (3) sets of the **interim plans** (60% submittal) in electronic and half-size (11" x 17") hard copies using City Standards as applicable to City staff for review and approval purposes with 60% estimates of probable construction costs. Identify distribution list for plans and bid documents to all affected franchise utilities and stakeholders.

1. **Required** with the interim plans is:
   a. Design Submittal Packet Checklist
   b. Executive Summary of the 60% submittal," which will identify and briefly summarize the Project by distinguishing key elements of the Project, decisions made, outstanding issues, items TBD, Opinion of Probable Construction Costs (OPCC) compared to construction budget and the schedule with changes identified.
   c. Project Submittal Checklist
   d. Drawing Review Checklist
   e. OPCC
   f. Drawings
   g. Draft Table of Contents with specification list
2. **Initiate** 60% submittal discussion with City PM to brief PM on any concerns or issues prior to distribution of 60% submittal.

g) Participate in Project 60% review meeting. Prepare and distribute meeting meetings to attendees within five working days of the meeting. Assimilate all review comments, as appropriate, and upon confirmation from the City PM proceed to the 90% design.

h) Submit three (3) sets of the **pre-final plans and bid documents** (90% submittal) in electronic and half-size hard copies using City Standards as applicable to City staff for review and approval purposes. Include the 90% estimate of probable construction costs, 90% submittal Executive Summary, Submittal Packet, Project,

and Drawing Checklists, responses to previous review comments and the Contract Document Book with in-line Track Changes in red to identify all proposed edits to the City Construction Contracts.

i) Participate in Project 90% review meeting. Prepare and distribute meeting meetings to attendees within five working days of the meeting. Assimilate all review comments, as appropriate, and proceed to the pre-ATA submittal.

j) Provide one (1) set of the **pre-ATA** plans (100% unsealed and unstamped) in electronic and half-size hard copy using City Standards as applicable for City's Pre-ATA review. Include the pre-ATA OPCC and written responses to previous review comments. The pre-ATA (100%) submittal will not include a full distribution and review unless in the opinion of the City Project Manager the questions from the previous review have not been adequately addressed or resolved in the pre-ATA submittal. If this occurs, the PM may request additional distribution, meeting, review and related revisions at no additional cost to the City. See item (l) below.

k) Assimilate all pre-ATA comments, as appropriate, and provide one (1) set of the **final plans and contract documents** (signed and sealed, electronic and half-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.

l) Provide Quality Assurance/Quality Control (QA/QC) measures to ensure that all submittals 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.

m) 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.

The City staff will:

a) Designate an individual to have responsibility, authority, and control for coordinating activities for the Project.

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, Front End Contract Documents, and forms for required bid documents.

3. **Bid Phase**.

The A/E will perform bid phase activities on a time and materials basis in accordance with Attachment CO to include the following:

a) Participate in the pre-bid conference to discuss scope of work and to answer scope questions.

b) Review all questions concerning the bid documents and prepare any revisions to the plans, specifications and bid forms that may be necessary.

c) Attend bid opening and assist with the evaluation of bids.

d) Assist with the review of the Contractor's Statement of Experience and confirm it meets Contract requirements.

e) For bids over budget, the A/E will confer with City staff and provide and, if necessary, make such revisions to the bid documents as the City staff deems necessary to re-advertise the Project for bids.

f) Provide two (2) hard copy sets and one (1) electronic set of conformed drawings and conformed Contract Documents (PDF and original format {CAD/word/etc.}) to the City.

The City staff will:

a) Advertise the Project for bidding, maintain the list of prospective bidders, issue any addenda, prepare bid tabulation and conduct the bid opening.

b) Coordinate the review of the bids with the A/E.

c) 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 construction administration activities on a time and materials basis in accordance with Attachment CO to include the following:

a) Participate in pre-construction meeting conference and provide a recommended agenda for critical construction activities and elements impacting the project.

b) Review Contractor submittals and operating and maintenance manuals for conformance to Contract Documents.

c) If requested by the City, 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 as requested by the Owner's Authorized Representative (OAR).

e) Make periodic 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) Provide interpretations and clarifications of the plans and specifications for the Contractor and recommendations to the City for minor changes which do not affect the Contractor's price and are not contrary to the general interest of the City under the Contract as requested by the OAR

g) 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.

h) Review Contractor-provided construction "red-line" drawings. Prepare Project Record Drawings and provide a reproducible set and electronic file (both PDF and AutoCAD r.14 or later) within one (1) month of receiving the Contractor's red-line drawings. 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 Record Drawings should incorporate the Contractor's red-lines and identify all changes made during

construction. The Drawing Cover and each sheet should be clearly identified as the Record Drawing and should indicate the basis and date.

i) When requested by the OAR, assist in addressing Request for Information (RFI) submitted by the Contractor.

The City staff will:

a) Prepare applications/estimates for payments to Contractor.
b) Conduct the final 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)
    1. Register the project with the Texas Department of Licensing and Regulation (TDLR) and pay associated fee.
    2. Provide copy of Contract Documents along with appropriate fee to TDLR for review and approval of accessibility requirements for pedestrian improvements by a Registered Accessibility Specialist (RAS).
    3. Coordinate RAS inspection services at the end of construction and pay associated fee.
m) Texas General Land Office (TGLO)
n) Other agency project-specific permits

2. **Topographic and Right-of-Way (ROW) 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*,

latest 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. Include references tying Control Points to a minimum of two (2) registered NGS Benchmark Monuments in the vicinity of the Project that will not be disturbed by construction. Survey sheets shall be sealed, provided to the City and included in the bid document plan set.

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 area that will be disturbed by construction.
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 wastewater, storm water, water, IT 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. Survey shall include utility marking from the Texas 811 request.
i) Open accessible manholes and inlets to obtain information on structure invert, type, and size; and all related pipe size, type, invert, orientation, and flow direction.
j) Everything up to and including Level B subsurface engineering (SUE) is to be included in Topographic Survey. Surveying services related to Level A SUE are not included in Topographic and ROW Survey services but shall be provided as part of the scope of work for SUE below, if needed.
k) Locate existing features within the apparent ROW.
l) Locate and identify trees, at least five inches in diameter, and areas of significant landscape or shrubs within the apparent ROW.
m) Generate electronic planimetric base map for use in project design.
n) Obtain finished floor elevations of critical and habitable structures along the roadway corridor as needed to certify drainage design criteria are met.
o) The survey should not stop at the property line, but should extend beyond the property line as needed to pick up features and surface flow patterns in the vicinity of the Project that could potentially impact the design or be impacted by the construction. This includes features such as existing swales or ditches, foundations, loading docks/overhead doors, driveways, parking lots, etc.
p) 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.
q) 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 and proposed ROW. This preliminary base map must show lot or property lines, addresses, and significant business/facility names.

3. **ROW/Easement Acquisition 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*, latest edition.

a) 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 a representative scale and for information only. All existing easements within the parcels to be acquired and those within adjacent parcels must be shown.

b) 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.

c) 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. If boundary conflicts between Owners are identified, additional fees may be authorized if needed. A/E shall submit parcel maps and legal descriptions prior to the 60% submittal.

d) 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.

4. **Environmental Issues.** To Be Determined

As part of the Design Phase, A/E will provide a map depicting the locations of existing Petroleum Storage Tanks (PSTs) adjacent to Everhart Road. A/E will provide instructions for the contractor to follow when encountering potentially contaminated soils and/or groundwater. These instructions will be developed in compliance with applicable EPA, TCEQ, and City environmental regulations. A construction allowance will be provided for the handling and/or disposal of contaminated soil or groundwater due to unanticipated work or unforeseen conditions and/or conflicts related to the work.

5. **Public Involvement.** To Be Determined

6. **Subsurface Utility Investigation (Level A).**

SUE investigation for all utilities (City and third party) shall be on a time and materials basis in accordance with Attachment CO and shall be conducted to Level B as part of Topographic Survey referenced above and in accordance with ASCE Standard "ASCE C-I, 38-02, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data". A sealed Level A SUE report shall be provided to the City and included in the bid documents as an appendix.

a) Provide subsurface utility engineering in accordance with ASCE Standard "ASCE C-I, 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 SUE 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 includes the

use of minimally intrusive excavation 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.

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

8. **Traffic Control.**
Provide traffic control design to allow for construction of all proposed improvements. Consultant shall provide for the design of advanced warning signage, traffic control phases and associated details for the implementation of all planned traffic control measures. The Traffic Control Plan will include construction sequencing, typical cross section, construction phasing sheets, warning and barricades, as well as standard sheets for barricades, traffic control plan, work zone pavement markings and signage.

Anticipated Drawing Register for the Traffic Control design is as follows:

- Traffic Control Advanced Warning Signage 01
- Traffic Control Advanced Warning Signage 02
- Construction Sequencing Layout
- Sequence of Construction and General Notes
- Traffic Control Sections 01
- Traffic Control Sections 02
- Traffic Control Phase 1 Sheet 01
- Traffic Control Phase 1 Sheet 02
- Traffic Control Phase 2 Sheet 01
- Traffic Control Phase 2 Sheet 02
- Traffic Control Phase 3 Sheet 01
- Traffic Control Phase 3 Sheet 02
- Traffic Control Phase 4 Sheet 01
- Traffic Control Phase 4 Sheet 02
- Traffic Control Phase 5 Sheet 01
- Traffic Control Phase 5 Sheet 02
- Traffic Control Phase 6 Sheet 01
- Traffic Control Phase 6 Sheet 02
- Barricade and Construction Sheets #1-19

9. **Signalization Improvements.**
Prepare signalization plans, specifications and estimate for the traffic signal and pedestrian signal improvements at the intersection of Everhart Road and McArdle Road. Develop design elements using City of Corpus Christi design criteria in TxDOT format and standards.

10. **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.

II. SCHEDULE

Date	Activity
June 22, 2021	NTP – Amendment #1
4 weeks from receipt of Amd. #1 – Large A/E)	Final ELR submittal
20 weeks	60% Design Submittal
3 weeks	City Review
12 weeks	90% Design Submittal
3 weeks	City Review
8 weeks	100% Pre-ATA Submittal
2 weeks	City Review
2 weeks	Final Sealed Bid Package
10 days	Advertise for Bids
15 days	Pre-Bid Conference
15 days	Receive Bids
2 months	Contract Award
5 weeks	Begin Construction
24 months	Complete Construction

III. FEES

A. Fee for Basic Services.

The City will pay the A/E a fixed fee for providing 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.

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Summary of Fees

Basic Services:	Contract	Amd No. 1 Streets	Amd No. 1 Storm	Amd No. 1 Water	Amd No. 1 Wastewater	Amd No. 1 Gas	Amd No. 1 Total	Total Contract
1. Preliminary Phase	$33,800	$20,737	$6,912	$7,640	$0	$1,091	$36,381	**$70,181**
2. Design Phase	$0	$121,496	$40,499	$44,762	$0	$6,395	$213,151	**$213,151**
3. Bid Phase (Time & Materials)	$0	$5,865	$1,955	$2,161	$0	$309	$10,289	**$10,289**
4. Construction Administration Phase (Time & Materials)	$0	$31,249	$10,416	$11,513	$0	$1,645	$54,823	**$54,823**
Subtotal Basic Services Fees	$33,800	$179,347	$59,782	$66,075	$0	$9,439	$314,644	**$348,444**
Additional Services Fees (Allowance):								
1. Permit Preparation*	$0	$4,455	$1,485	$1,641	$0	$234	$7,815	**$7,815**
2. Topographic and ROW Survey*	$16,192	$4,793	$1,598	$1,766	$0	$252	$8,409	**$24,601**
3. ROW/Easement Acquisition Survey and Parcel Descriptions*	$0	$3,411	$1,137	$1,257	$0	$180	$5,985	**$5,985**
4. Environmental Issues	TBD	TBD	TBD	TBD	TBD	TBD	TBD	**TBD**
5. Public Involvement	TBD	TBD	TBD	TBD	TBD	TBD	TBD	**TBD**
6. Subsurface Utility Investigation* (Level A)(Time & Materials)	$0	$14,250	$4,750	$5,250	$0	$750	$25,000	**$25,000**
7. Construction Observation Services	TBD	TBD	TBD	TBD	TBD	TBD	TBD	**TBD**
8. Traffic Control*	$0	$29,892	$9,964	$11,013	$0	$1,573	$52,442	**$52,442**
9. Signalization Improvements*	$0	$13,500	$4,500	$4,974	$0	$711	$23,684	**$23,684**
10. Warranty Phase*	$0	$2,275	$758	$838	$0	$120	$3,992	**$3,992**
Subtotal Additional Services Fees	$16,192	$72,576	$24,192	$26,739	$0	$3,820	$127,327	**$143,519**
Total Fee	$49,992	$251,923	$83,974	$92,814	$0	$13,259	$441,971	**$491,963**

*Additional Services authorized in coordination with the notice to proceed for Basic Services.