



PLUMMER

0537-057-01

November 14, 2023

Ms. Sandra Gomez, P.E.
Project Manager
Engineering Department
City of Corpus Christi, Texas
1201 Leopard Street
Corpus Christi TX 78401

Re: Project 23038 – Waldron Lift Station Force Main Replacement
Design, Bid and Construction Proposal

Dear Ms. Gomez:

This letter is a request for authorization to provide design, bidding, and construction phase services for the replacement of the Waldron Lift Station Force Main from the Waldron Lift Station to the Laguna Shores Force Main at Laguan Shores Road near the intersection of Graham Road. The scope of services is detailed in the attached document.

Fee

The fee request of \$428,585 is detailed in the attached Exhibit 1 spreadsheet. A summary of the fee per phase is shown in the table below.

Task	Fee
BASIC SERVICES – (Lump Sum)	
1 Preliminary Engineering Phase	\$133,250
2 Final Design 60%, 90% and 100%	\$176,880
5. Project Management	\$30,820
6. Quality Management and Quality Control Plans	\$24,460
TOTAL	\$ 365,410
CONSTRUCTION SERVICES – (Time and Material)	
3. Bid Service	\$3,795
4. Construction Services	\$51,420
TOTAL	\$55,215
SUPPLEMENTAL SERVICES	
Easement Modification	\$7,960
PROJECT TOTAL	\$ 428,585

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If you have any questions regarding this request, please let me know.

Sincerely,

PLUMMER ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read "William Causey". The signature is fluid and cursive, with the first name "William" and the last name "Causey" clearly distinguishable.

William Causey, P.E.
Project Manager

Cc: Mary Portillo

Enclosures



Exhibit A

Scope of Work

Plummer shall provide labor, material, and equipment necessary to provide project management, preliminary engineering, real estate services, final design, permitting services and coordination with stakeholders, bid, and construction phase services (collectively the “Services”) for the **City of Corpus Christi (Owner) Waldron Lift Station Force Main Replacement (“Project 23038”)**. The purpose of the Waldron Force Main is to replace a 14” ductile iron force main constructed around 1982. Approximate length is 3,000 LF. The force main has had multiple failures and the condition of the pipe is severely degraded.

The existing force main accepts flow from the Flour Bluff and Jamacia Lift Stations and terminates at a connection to the Laguna Shores Force Main at the intersection of Laguna Shores and Graham Road.

SERVICES

Plummer shall provide the Services in accordance with the tasks described herein.

Task 1. Preliminary Engineering Phase

1.1 ALIGNMENT EVALUATION TECHNICAL MEMORANDUM. Plummer shall provide a route alignment evaluation that shall examine up to three different alignments. **Alignment TM will be incorporated into the Engineering Letter Report.**

1.1.1 Project Kickoff meeting with Owner.

1.1.2 Plummer shall utilize a route selection matrix to identify the recommended alignment for the new interceptor. The route selection matrix shall examine two alternatives based on easement requirements, permits, pipe depth and length including trenchless options, environmental impacts, traffic impacts and construction access, tie-ins for maintenance and development, construction cost, constructability, stakeholder input/impacts, and impacts to existing facilities.

1.1.3 For each alignment, Plummer shall provide plan and profile exhibits based off the latest available Nueces Count Appraisal District property boundaries and

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Waldron Lift Station Force Main Replacement (Project No. 23038)



publicly available aerial photography and an AACE Level 5 Opinion of Probable Construction (OPCC). The plan and profiles presented will be in a 1" = 50' LF on 11"X17" sheets. They will be generated in CAD.

- 1.1.4 Up to two (2) site visits with the Owner.
- 1.1.5 Plummer shall provide a recommendation for preferred route.
- 1.1.6 Plummer shall conduct an alignment workshop for up to 2 hours.

Assumptions:

Design flows and capacity shall be provided by Owner.
Owner will select the final alignment for design.

Task 1.1 Deliverables:

Alignment Evaluation TM (Draft and Final)

Task 1.1 Meetings:

Project Kickoff
Site Visits - Up to one (1)

1.2 30% DESIGN. Plummer shall provide the following items as part of the 30% design.

1.2.1 ENGINEERING LETTER REPORT (ELR) DRAFT. The ELR shall include the preliminary engineering for the following items and comply with the Texas Commission on Environmental Quality (TCEQ) chapter 217.10 (a):

- Owner will provide design flow confirmation from the Wastewater Masterplan and Plummer shall review the Masterplan for capital improvements projects related to the lift stations/force mains listed above and document recommendations in the ELR.
- Evaluation of system hydraulics for the existing manifold force mains connecting the Laguna Shores, Jamaica, Flour Bluff and Waldron lift station force mains and provide recommendations to improve or reconfigure the existing system for O&M and system performance.
- Pipe embedment and stiffness design based on selected material(s).
- Hydraulic checks including flushing velocities.
- Material recommendations. It is noted that the Owner preference is PVC, but other material options will be evaluated.
- Trenchless methods crossing Waldron Road, concrete driveways and other crossings.
- Air release valve odor control.
- Line maintenance access points.

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Waldron Lift Station Force Main Replacement (Project No. 23038)



- Ability to bypass the Waldron LS and force main at the Laguna Shores and Graham Road and Waldron and Graham Road intersections to facilitate isolation of parts of the system.
- Easement widths.
- Utility coordination.
- Stakeholder coordination.
- Stormwater Pollution Prevention Plan (SWPPP) recommendations for the Project to comply with Owner standards and the requirements of TCEQ's Texas Pollutant Discharge Elimination System general permit for storm water runoff from construction activity (permit number TXR150000).
- Plan view with profile to include existing surface, planimetric features, limited utilities, trees, floodplain limits.
- PLUMMER shall make provisions for reconnecting all identifiable wastewater force main or service lines which connect directly to the force main being replaced, including replacement of existing service lines within CITY right-of-way or utility easement. When the existing alignment of a sanitary sewer main or lateral is changed, provisions will be made in the final plans and/or specifications by PLUMMER to relocate all service lines which are connected to the existing main and connect said service lines to the relocated main.
- Plummer shall provide an AACE Class 4 OPCC.
- Up to one (1) site visit.
- Owner comments will be incorporated into the 60% set.
- Summary of technical memoranda recommendations.
- Owner to provide decisions on items in ELR.
- Plummer shall conduct a ELR workshop for up to 2 hours.
- Written response to Owner comments on Draft ELR.

1.2.1.1 ENVIRONMENTAL EVALUATION: Environmental Evaluation Report will be incorporated into the ELR. Collect data in support of evaluating two (2) alignment alternatives, and identify requisite permits anticipated to be needed prior to construction of Project 23038. The following will be reviewed for regulatory agency review or permits needed for the project:

- Clean Water Act Section 404 with opinion of type of permit - nationwide, regional general, or individual permit will be required for

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the 404-permit application (or pre-construction notification (PCN) for verification of authorization under nationwide permit);

- Clean Water Act Section 401;
- Rivers and Harbors Act Section 10;
- Rivers and Harbors Act Section 14 (also known as Section 408);
- National Environmental Policy Act;
- Endangered Species Act;
- Bald and Golden Eagle Protection Act;
- Migratory Bird Treaty Act;
- Section 106 of the National Historic Preservation Act;
- Texas Antiquities Code;
- Coastal Management Zone;
- Corridor Development Certificate (Associated with Trinity River);
- Fresh Water Mussel Survey;
- Tree Ordinance and Mitigation;
- Urban Forestry;
- Executive Orders; and
- Federal Emergency Management Agency Coordination – or Local Floodplain Administrator;

1.2.1.2 Plummer will perform an environmental evaluation for Project 23038 to include the following tasks:

- Obtain background data including, floodplain maps, national wetlands inventory maps, USGS topographic maps, current and historical aerial imagery, and historic soil surveys to identify potential resources including Waters of the US (WOTUS) subject to Section 404 Permitting.
- Conduct field visits for assessing the proposed alignments and alternatives; and
- Complete a Request for State Historic Preservation Officer (SHPO) Review Form and submit to the Texas Historical Commission (THC) to determine if additional cultural survey work is required for the project. Incorporate SHPO response in environmental evaluation; and
- Prepare environmental opportunities and constraints map for the proposed alignment and alternatives.

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1.2.1.3 Plummer will document the environmental evaluation in the Preliminary Engineering Report summarizing the findings along the proposed alignment from the data review and on-site investigation for inclusion in the draft report. The evaluation shall identify potential environmental constraints and include a map that identifies major constraints which should be considered and potentially avoided during the evaluation of alternatives. The Environmental Evaluation will also identify regulatory requirements or resources (if any) that may require additional study for local, state, or federal permitting. The evaluation will include a comparison of the alternatives regarding level of effort, schedule, estimated timelines to complete the environmental work, and permitting requirements. Plummer will advise the Owner of additional approvals and related studies needed. The environmental evaluation will summarize the findings from above in the ELR.

1.2.1.4 Attend up to one (1) remote meeting with the Owner to discuss the results of the investigation.

1.2.2 FINAL ENGINEERING LETTER REPORT. Plummer shall incorporate Owner comments and decisions then issue a final signed and sealed ELR.

Task 1.2 Deliverables:

Draft 30%

Engineering Letter Report Draft

OPCC

Environmental Opportunities and Constraints Map

Final 30%

ELR Signed and Sealed

OPCC

30% Comment Responses

Task 1.2 Meetings:

Site Visits - Up to two (3) (Design and Environmental)

ELR Workshop

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1.3 FIELD SERVICES.

1.3.1 GEOTECHNICAL ENGINEERING SERVICES.

- Plummer shall perform five (5) borings up to 35 feet deep.
- Plummer shall provide a Geotechnical Data Report (GDR) which includes.
 - Description of the field exploration program.
 - Description of the laboratory testing program.
 - Boring location plan that depicts borehole locations; Boring logs with soil classifications based on the Unified Soil Classification System (ASTM D2487) with a chart illustrating the soil classification criteria and the terminology and symbols used on the boring logs.
 - Description of site geology based on location of the site on the Geologic Atlas of Texas.
 - Depth and elevations where groundwater was encountered during drilling.
 - Groundwater readings obtained from the observation well.
 - Design recommendations for special trench repair and pavement design recommendations.

1.3.2 TOPOGRAPHY SERVICES.

- Plummer shall provide establishment of a ground control point monumentation network.
- Plummer shall prepare a topographic survey within the survey limits. Survey limits will be 50 feet either side of the alignment or up to the extents of public right-of-way. The survey will consist of the following:
 - All visible utilities, buildings, berms, equipment, structures, fences, drainage structures with flowlines, and improvements within the survey limits.
 - Cross-sections at 50-foot intervals plus changes in direction sufficient to prepare a Digital Terrain Model (DTM) with 1- foot contour lines.
- Underground utilities will be depicted according to maps provided by Owner and utility locates as marked by others. A utility locate request will be made to Texas811 prior to survey.

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- This survey is to be conducted in the Texas State Plane Coordinate System NAD 83, Texas South Zone. The vertical datum will be NAVD88 (Geoid 18).
- Deliverables shall be provided in GIS and CAD format.

Task 1.3 Deliverables:

GDR (Draft and Final)

Survey (included in P&P sheets)

CAD and GIS per Owner specifications

Task 2. Final Design

2.1 60% DESIGN.

2.1.1 PLANS, SPECIFICATIONS AND OPCC.

- Plan and profiles include depth of cover, slopes of pipe, size and materials identified, air release valves, and connections to Waldron Lift Station, Flour Bluff Force Main and Laguna Shores Force Main.
- Connection details shall include connections to Waldron Lift Station, Flour Bluff and Jamica Force Mains and termination at Laguna Shores Force Main.
- Plan details to include standard City of Corpus Christi details and Plummer details.
- SWPPP for the Project shall incorporate Owner standards and comply with the requirements of TCEQ's Texas Pollutant Discharge Elimination System general permit for storm water runoff from construction activity (permit number TXR150000).
- Traffic Control Plan for Waldron and/or Graham Road.
- Temporary wastewater flow control/ bypass pumping plan.
- Specifications Draft using Plummer specifications, with the exception Division 0 which shall be provided by Owner.
- Plummer shall provide an AACE Class 3 OPCC.
- Constructability Review.
- Up to one (1) site visit.
- Owner comments shall be incorporated into the 90% set.
- Plummer shall conduct a 60% submittal review workshop for up to 2 hours.

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Task 2.1 Deliverables:

60% OPCC

Executive Summary

Drawing Review Checklist and Project Submittal Checklists

60% Plans

Draft Technical Specifications Table of Contents

Task 2.1 Meetings:

Site Visits - Up to one (1)

60% Submittal Review Meeting

2.2 90% DESIGN

2.2.1 PLANS, SPECIFICATIONS AND OPCC. Plummer shall provide the following items as part of the 100% design.

- Plan and profiles to include depth of cover, slopes of pipe, size and materials identified.
- SWPPP for the Project to comply with the requirements of TCEQ's Texas Pollutant Discharge Elimination System general permit for storm water runoff from construction activity (permit number TXR150000).
- Traffic Control Plan for Waldron and/or Graham Road.
- Plan details to include Owner standard details and Plummer details.
- Specifications using Owner standard specifications and Plummer specifications. Division 0 shall be provided by the Owner.
- Plummer shall provide an AACE Class 2 OPCC
- Constructability review.
- Plummer shall provide an Issued for Permitting Sealed Plans and Specifications.
- TCEQ Chapter 217 Transmittal Letter and coordination if plans are called in for review.
- Up to one (1) site visit.
- Owner comments shall be incorporated into the 90% set.
- Plummer shall conduct a 90% workshop for up to 2 hours.

Task 2.2 Deliverables:

90% OPCC

Executive Summary

Drawing Review and Project Submittal Checklists

Comment Responses to 60% Review

90% Plans

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90% Technical Specifications\Front End Documents

Bid Form

Issued for Permitting Plans and Technical Specifications Set

Task 2.2 Meetings:

Site Visits – up to one (1)

90% Workshop

2.3 100% PLANS AND CONSTRUCTION DOCUMENTS.

2.3.1 Plummer shall provide a 100% set for Owner final review.

2.3.2 Owner comments shall be incorporated into the Issued for Bid set.

Task 2.3 Deliverables (100% (Pre-NOA):

100% OPCC

Executive Summary

Drawing Review and Project Submittal Checklists

Response to 90% Review

Draft 100% Plans, Specifications, and Front End Documents

Bid Form

Task 2.3 Meetings: N/A

100% Submittal Review Meeting

2.4 FINAL BID SET.

2.4.1 Plummer shall provide a final sealed AACE Class 2 OPCC.

2.4.2 Plummer shall provide a final seal Engineering Report in compliance with TCEQ Chapter 217.

2.4.3 Plummer shall provide a final sealed Issued for Bid set to the owner of the plans, specifications.

Task 2.4 Deliverables:

Final Sealed OPCC

Executive Summary

Comment Response to Draft 100% Submittal

Sealed Drawings and Specifications/Front End Documents

Agreement

Bid Form

CIVCAST Bid Form

CAD Files and GIS data

Task 2.4 Meetings: N/A

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Task 3. Bid Services

3.1 PREBID CONFERENCE.

3.1.1 Plummer shall attend and assist one (1) pre-bid conference to be administered by Owner.

3.1.2 Plummer shall coordinate conference responses with Owner. Written responses to issues identified at the pre-bid conference shall be in the form of addenda issued after the conference.

Task 3.1 Deliverables: N/A

Task 3.1 Meetings:

Pre-bid Conference

3.2 INTERPRET BID DOCUMENTS.

3.2.1 Plummer shall assist Owner with responding to questions, interpreting bid documents.

3.2.2 Plummer shall prepare up to two (2) addenda to the bid documents if necessary.

Task 3.2 Deliverables:

Addenda – up to two (2)

Task 3.2 Meetings: N/A

3.3 BID EVALUATION.

3.3.1 Plummer shall assist Owner in analyzing the bids received for the Project. This includes researching contractor qualifications and references.

3.3.2 Plummer shall provide written recommendation of lowest responsive bidder.

Task 3.3 Deliverables:

Recommendation of the lowest responsive bidder

Two (2) hard copies of sealed plans and specifications

Task 3.3 Meetings:

Bid Opening

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Task 4. Construction Phase Services

Upon completion of the bid phase services, Plummer shall perform construction phase engineering services.

4.1 CONSTRUCTION ADMINISTRATION SERVICES.

- 4.1.1 Conduct one construction document control workshop for the contractor and coordinate conference responses with Owner.
- 4.1.2 Attend up to 10 monthly construction progress meetings. The owner shall prepare an agenda, record and distribute meeting minutes to Plummer and contractor.
- 4.1.3 Conduct with Owner's representatives one substantial completion inspection and punch list review of the Project for conformance with the design concept of the Project and compliance with the construction contract documents and prepare a list of deficiencies to be corrected by the contractors before recommendation of final payment.
- 4.1.4 Conduct a final completion inspection of the Project, with Owner representatives, for conformance with the design concept of the Project and compliance with the construction contract documents, prepare final completion reports, and make recommendation of contractor's final payment.

Task 4.1 Deliverables:

- Conformed Plans and Specifications
- Substantial Completion Punch List – one (1)
- Final Completion Reports
- Contractor's Final Payment Recommendation

Task 4.1 Meetings:

- Substantial Completion Inspection – one (1)
- Final Completion Inspection – one (1)

4.2 SUBMITTAL MANAGEMENT AND REVIEW.

- 4.2.1 Plummer shall establish and maintain a document management system consistent with the requirements of the construction contract documents. Plummer shall monitor the processing of contractor's submittals (shop drawings, requests for information, schedules, certified test reports, etc.), provide for filing and retrieval of Project documentation, and verify that the contractor is sending and processing submittals in accordance with the

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schedules. Plummer shall produce and submit to Owner monthly reports indicating the status of all submittals in the review process.

- 4.2.2 Plummer shall review all contractor submittals for compliance with the design concepts to include the shop drawings; record data; requests for information; schedules; certified test reports; operation and maintenance manuals; and miscellaneous submittals.

Task 4.2 Deliverables:

- Contractor Submittal approvals
- Shop drawing approvals
- RFI responses

Task 4.2 Meetings: N/A

4.3 CHANGE/FIELD ORDERS. Plummer shall manage the change and field order documents, requests for proposals, and contractor claim process for the Project as described herein.

- 4.3.1 Plummer shall establish procedures and document construction changes required to implement modifications to the Project.
- 4.3.2 Plummer shall process contract modifications and negotiate with the contractor at Owner's direction to determine the cost and time impacts of these changes.
- 4.3.3 Plummer shall prepare field and change order documentation for up to two (2) field orders for minor alterations and up to two (2) change orders.
- 4.3.4 Plummer shall evaluate notices of contractor claims and make initial recommendations to Owner on the merit and value of the claim based on information submitted by the contractor or available Project documentation. Plummer shall negotiate a settlement value with the contractor at Owner's direction.

Task 4.3 Deliverables:

- Field order documentation – up to two (2)
- Change Order documentation – up to two (2)

Task 4.3 Meetings: N/A

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4.4 INTERPRET DRAWINGS AND SPECIFICATIONS.

4.4.1 Plummer shall interpret the drawings and specifications for Owner and the contractor during the course of construction. Up to two hours (2) will be spent per request for up to five (5) instances.

Task 4.4 Deliverables:

Interpretations in the form of RFIs or other requests – up to five (5) instances.

Task 4.4 Meetings: N/A

4.5 RECORD DRAWINGS.

4.5.1 Plummer shall prepare the record drawings based on the revised redline construction drawings and information furnished by the construction contractor reflecting changes in the Project made during construction. Plummer shall prepare one (1) set of PDF record drawings and the CAD support files at the completion of the Project and submit to Owner via email.

Task 4.5 Deliverables:

Record Drawings

Task 4.5 Meetings: N/A

Task 5. Project Management

5.1 PROJECT MANAGEMENT PLAN

5.1.1 Plummer shall develop a Project Management Plan (PMP) for the Project that describes how major aspects of the project will be managed. It further refines and advances the approaches that are defined in the project scope.

5.1.2 The PMP is a living document and shall be updated at intervals throughout the project.

5.1.3 The PMP and shall be distributed to all employees assigned to the project at the start of the project.

Task 5.1 Deliverables:

Project Management Plan

Task 5.1 Meetings: N/A

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5.2 SCHEDULE.

- 5.2.1 Plummer shall develop a baseline design schedule for the Project and prepare updated design schedules for the Project on a monthly basis for the previous month's effort for the Owner to monitor progress and identify design submittal dates.
- 5.2.2 Schedules shall be provided to the Owner Project Manager electronically.
- 5.2.3 Plummer shall employ Microsoft Project or a similar program to manage the schedule.

Task 5.2 Deliverables:

Schedule

Task 5.2 Meetings: N/A

5.3 PROGRESS REPORTS.

- 5.3.1 Plummer shall provide the Owner with a monthly project progress report with the monthly invoices for each month for the previous month's effort.

Task 5.3 Deliverables:

Monthly Progress Reports

Task 5.3 Meetings: N/A

5.4 MEETING AGENDA/NOTES.

- 5.4.1 Plummer shall provide a meeting agenda one (1) day prior to each meeting and provide a copy of the meeting notes, action item log and decision log to the Owner's Project Manager within one (1) week after each meeting.
- 5.4.2 Plummer shall hold weekly internal design meetings.

Task 5.4 Deliverables:

Meeting Agendas Provided to City

Meeting Notes Provided to City

Task 5.4 Meetings:

Weekly Internal Coordination Meetings

5.5 DECISION LOG

- 5.5.1 Develop and maintain a Decision Log to track important decision options, discussions, meetings, and rationale for project decisions.

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Task 5.5 Deliverables:

Updates to Decision Log Provided to City

Task 5.5 Meetings: N/A

Task 6. Quality Control QUALITY CONTROL (QC) AND PROJECT QUALITY PLAN.

6.1 QUALITY CONTROL AND PROJECT QUALITY PLAN

- 6.1.1 Plummer shall employ the Plummer Quality Management Plan, latest version. Plummer shall provide services and deliverables that meet the company's requirements.
- 6.1.2 The Plummer project manager (PM) has the primary responsibility of developing and following the Project Quality Plan (PQP). The PQP should be documented as part of the PMP and shall be distributed to all employees assigned to the project at the start of the project. The PM shall hold each individual working on a project accountable for maintaining the overall quality desired in our services. The PQP will designate a Project Quality Officer (PQO) who shall be responsible for assigning the project quality team to the project.
- 6.1.3 The Plummer PM is responsible for planning QC into the project schedule, including creating sub-tasks for internal review by PQRs, and incorporating PQR comments into the deliverables.

Task 6.1 Deliverables:

Project Quality Plan Provided to City

Task 6.1 Meetings: N/A

6.2 QUALITY CONTROL REVIEWS.

- 6.2.1 Plummer engages the Quality Control Team at the beginning of the project with a 0% QC meeting. The purpose of this meeting is to review QC assignments, review the QMP, and discuss how the project shall incorporate quality checks and back checks of QC comments.
- 6.2.2 Plummer shall perform QC checks on reports and technical memoranda, as well as the Alignment Evaluation, Preliminary Engineering Report, 30% Design, 60% Design, 90% Design including all OPCCs.

Task 6.2 Deliverables:

QC Reviews and Comments

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Task 6.2 Meetings:

QC Meetings at 0%, 30%, 60%, 90%

Task 7. Supplemental Services FIELD SERVICES.

7.1 EASEMENT MODIFICATION

7.1.1 EASEMENT DOCUMENTS

- EASEMENT SURVEY AND LEGAL DESCRIPTION. Plummer shall provide boundary survey and legal descriptions for up to one (1) easement.
- EASEMENT ACQUISITION STAKING. Plummer shall provide staking of easements during negotiations as requested by property owners. Staking will provide stakes at 100-foot intervals on both sides and the corners.
- Plummer shall locate additional Geotech borings from task 1.3.1.

Task 7.1 Deliverables:

Easement Legal Description

Easement staking

Task 7.1 Meetings: N/A

ASSUMPTIONS

- Deliverables shall be electronic deliverables in PDF, unless noted.
- Plan scale shall be horizontal 1" = 50' and vertical 1" = 10'
- Owner shall provide comments to deliverables in accordance with the accepted project schedule.
- Condemnation will be provided by Owner.
- Fees associated with the title commitments, title reports and title insurance are not included in the scope or fee.
- Owner shall provide the Nueces County and City of Corpus Christi Floodplain Development permitting comments to Plummer prior to final signing and seal of bid documents.
- For easement acquisition, any fees associated with the title commitments, title reports and title insurance will be paid by the Owner.
- For easement acquisition, recording fees or fees charged by financial institutions to process subordinations or lien releases will be paid by the Owner.
- Plummer will not be responsible for schedule delays related to Easement

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Acquisition scope performed by Owner, such as, but not limited to, the Owner performing tasks defined in 8.1, document review, routing delays, and fees or payment processing.

- Owner will be responsible for the coordination with the Texas Historical Commission, and United States Army Corps of Engineers for their review under the Unified Development Code, Antiquities Code of Texas, and National Historic Preservation Act of 1966 Section 106 (respectively).
- Owner will review technical memorandums and evaluations in 15 business days.
- Owner will review ELR and plans in 15 business days.

ADDITIONAL SERVICES

- Providing/conducting local or global stability analyses for retaining walls, shoring systems, or slopes.
- Additional geotechnical borings.
- Additional easement parcel and legal descriptions.
- Changes or modifications to the approved right of entry or easement documents (I.E., alignment changes after approval).
- Real Estate Acquisition Services to include appraisals, title commitments and negotiation services.
- Floodplain permitting and mitigation.
- Shafts for trenchless design.
- Design of selected odor control.
- Retaining wall design.
- Trench Safety Plan.
- Condition Assessment.
- By-Pass Pumping Plans.
- If impacts to WOTUS are equal to or greater than 0.1-acre, preparation of a Section 404 permit application (e.g., PCN) will be required.
- A WOTUS site investigation including Wetland Delineation and the production of an Aquatic Resources Delineation Report (required to be submitted with PCN).
- Threatened and Endangered (T/E) Species Report documenting the impacts of the project to state and federally listed T/E species (required to be submitted with PCN).
- Cultural resource permitting or field.
- Construction meeting agenda preparation, recordation, and distribution of meeting minutes to Owner and the contractor.

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TIME OF COMPLETION

Plummer is authorized to commence work on the Services upon execution of this Agreement and agrees to complete these Services in accordance with the schedule below. If the execution of this Agreement is beyond the start date of the schedule below, the schedule will be adjusted.

Submittal	Delivery Schedule / Duration
Kickoff Meeting	Within 2 weeks of Notice to Proceed
Alignment Evaluation TM	Within 6 weeks of Kickoff Meeting
Draft 30%	Within 12 weeks of Receipt of CITY's Alignment Eval TM Comments
Final 30%	Within 3 weeks of Receipt of CITY's Draft 30% Comments
60% Design Phase Submittal	Within 12 weeks of Receipt of CITY's 30% Comments
90% Design Phase Submittal	Within 8 weeks of Receipt of CITY's 60% Comments
100% Design Phase Submittal	Within 3 weeks of Receipt of CITY's 90% Comments
Final Bid Set for Advertisement	Within 2 weeks of Receipt of CITY's 100% Comments
Construction Duration	10 months (estimated)

COMPENSATION

Basic Services Tasks 3 and 4 shall be provided as time and materials. Other tasks shall be lump sum. Supplemental Services shall be provided as a lump sum. Fee for services is outlined in Exhibit 1 – Fee Schedule.