



May 3, 2023

Adelaido Uribe
Executive Administrator
Webb County
1000 Houston St., 3rd Floor
Laredo, Texas 78040

Re: Webb County – ARPA Waterline Projects – Proposal

Dear Mr. Uribe,

As Webb County continues its growth and proactive development and management of its infrastructure, Ardurra is pleased to submit this proposal to provide Planning, Engineering, Surveying, Construction Procurement Assistance, and Construction Administration Services for the Webb County ARPA Waterlines Project.

We understand the importance and significance of this project for the County. The ARPA Waterlines will not only be a catalyst for growth but will also improve the quality of life for the residents of La Presa Community and Webb County as a whole. Ardurra is both excited and humbled to have this opportunity to deliver a successful project to support the County's vision and goals.

We look forward to the next steps in supporting this critical project. If you have any questions, please contact me at (956) 462-5511 or by e-mail at ihinojosa@ardurra.com.

Sincerely,
Ardurra Group, Inc.

A handwritten signature in blue ink, appearing to read "Ignacio Hinojosa".

Ignacio Hinojosa, PE
Client Services Manager

Enclosure: Proposal and Scope of Work



Proposal and Scope of Work Webb County ARPA Waterline Projects

GOALS/OBJECTIVES:

- Provide Webb County with Planning, Engineering, Surveying, Construction Contract Procurement Assistance and Construction Administration Services to successfully complete ARPA Projects 4, 5, 6, 10, 13, and 14 related to waterline extensions to the community of La Presa, La Presa Community Center, La Presa Water Dispenser and the proposed Fire Station.
- Recommendations for the waterline extension will take into consideration current demand, future demands, water quality implications, future and on-going projects.
- Ensure American Rescue Plan Act (ARPA) funding compliance by utilizing in house resources and working with the County's Program Manager throughout the various phases of this project: Preliminary Engineering, Design Phase, Bidding Phase and Construction Phase Services.
- Complete the project per ARPA requirements and guidelines.

BACKGROUND:

Webb County's ARPA Waterline projects consist of providing a new water supply pipeline from the Rio Bravo Water Treatment Plant (RBWTP) located on 512 Martha St. to the Colonia La Presa located approximately 5 miles from the RBWTP. The transmission will provide water to the residents of La Presa, the La Presa Community Center, La Presa Water Dispenser, and the proposed Fire Station. In addition, the ARPA Water line projects will provide a distribution system for the La Presa Community with approximately 2.26 miles in length. The distribution network will extend through RM 6073A, Karina Rd, and Sciaraffa Pkwy.

This scope of work is to complete planning, environmental investigations, geotechnical investigations, design, permitting, obtain right-of-way, seek construction bids, award the construction contract, oversee construction of the new waterline and provide project close-out services including as-built plans.

BASIC SERVICES

TASK 1: PROJECT MANAGEMENT

The Consultant will manage and monitor the scope of work, project directory, communication protocols, schedule, budget, calendar, standards, and Quality Assurance/Quality Control procedures for the project. The Consultant will also coordinate and manage sub-consultants (if any), prepare and submit invoices, coordinate with the Owner's Project Manager and will prepare and distribute monthly progress reports. The Consultant will meet monthly with the Owner's Project Manager to discuss the status and progress of the project.



1.1. Kick-Off Meeting:

- Upon authorization to proceed, the Ardurra team will conduct a project kickoff meeting with Webb County to review the scope of work, review responsibilities, reaffirm goals, discuss expectations of County staff, clarify questions and obtain background data and define project limits.
- Consultant will, following the meeting, prepare meeting minutes documenting discussions and decisions.
- The Engineer will conduct a project kickoff meeting with representatives of County and Project Team. The purpose of this meeting will be to initiate the project and develop a working understanding of the following:
 - Introduce Project Team
 - Review project scope and objectives
 - Review project schedule and milestones
 - Identify information needed from the County
 - Identify County contacts
 - Establish communication protocol and project procedures
 - Develop a project meeting schedule

1.2. Monthly Client Updates

- Consultant will conduct regular monthly meetings with the County and Project Team members, as appropriate, to address technical and administrative issues related to the project.
- Consultant will, following the meetings, prepare meeting minutes documenting discussions and decisions.

1.3. Coordination with ARPA Project Manager

- Coordinate with ARPA PM to determine funding requirements, timelines and suitability for any recommended projects.

1.4. Milestone Review Meetings/Workshops

- Coordinate and conduct milestone review meetings for 30%/60%/100% Design with County and the County's ARPA Manager.
- Consultant will, following the meetings, prepare meeting minutes documenting discussions and decisions.



1.5. Invoicing and Project Status Reports

- Monthly invoices will be submitted in accordance with standard Owner guidelines. Monthly Project Status Reports will be emailed to Owner with each invoice.

Deliverables for Task 1

- Kick-Off Meeting and Meeting Minutes
- 10 Monthly Design Progress Update Meetings and Meeting Minutes
- Coordination with ARPA Manager
- Milestone Workshop Review Meetings (30%, 60%, 100%) and Meeting Minutes

TASK 2: PRELIMINARY ENGINEERING (30%)

2.1. Site Visit:

- Consultant will perform a site visit of the proposed pipeline alignment.
- Consultant will identify suspected environmentally sensitive areas, drainage features and other significant conflicts within the project limits and provide written notification to Webb County.
- Potential utility conflicts that are visual will be identified and presented to the County.

2.2. Incorporate Preliminary Environmental Site Assessment (ESA) (Task 8) to PER.

2.3. Preliminary Hydraulic Analysis

- Consultant will run scenarios using the hydraulic model created for the Water & Wastewater Master Plan (the topography to be used for the model will be USGS 7.5-minute topography maps or approved equal).
- Proposed discharge point of piping network will be at the proposed site for the new Webb County Fire Station
- Nominal pipe sizes and friction values will be utilized in the model.
- Consultant will evaluate pipeline routing, both horizontal and vertical, valves, fitting and pipe diameters. The hydraulic grade line for the proposed pipeline will be examined.
- Transient wave (surge) analysis will not be performed at this stage in the design.
- The results of this analysis will be incorporated into the Preliminary Design Report.

2.4. Land Rights Initial Assessment

- Based on the alternate pipeline routes, potential tracts impacted by the proposed waterline will be identified.
- A “Lands Rights Acquisition Table” will be prepared listing the impacted tracts and an initial assessment of land acquisition cost.



2.5. Preliminary Engineering Report

- Consultant will develop a Preliminary Engineering Report (PER) for the following project elements:
 - The proposed pipeline alignment from the Rio Bravo Water Treatment plant to the proposed Fire Station at Colonia La Presa.
 - The proposed connection point at Rio Bravo Water Treatment Plant or existing waterline.
 - Proposed boring under roadways or other features.
 - The proposed distribution system at Colonia La Presa
 - Hydraulic Evaluation utilizing the County's Water Model to determine waterline sizing and related system improvements
 - Necessary improvements to support waterline extension (e.g. additional storage capacity, High Service Pump Station Improvements, etc.)
 - Recommendations to ensure Water Quality is not impacted by waterline extension.
 - Alignment analysis to include up to 3 alternative routes for the waterline.
 - Coordination with Floodplain Administrator for sections of line withing the flood plain, if necessary.)
 - ARPA funding schedule and guideline compliance.
- The PER will serve as documentation of ARDURRA's Preliminary Design effort and provide recommendations for advancement of the design of the project.
- A list of third-party approvals and permits that may be required to implement the project.
- A list of right-of-way acquisitions and preliminary opinions of probable cost to acquire the rights-of-way.
- An opinion of probable construction cost and estimate of construction contract performance time.

2.6. Preliminary Design Report Review Workshop

- Consultant will conduct a workshop with COUNTY to review the PER.
- Consultant will develop meeting minutes documenting the decisions made during this meeting.

2.7. Preliminary Design (30%)

- Upon completion and acceptance of the PER, Consultant will prepare 30% construction plans, 30% Governing List of Specifications and 30% OPCC. The 30% construction plan set will include the following:
 - Cover Sheet
 - General Notes
 - Quantity Summary
 - Overall Project Layout (2 Sheets)
 - Project Control Layout (2 Sheets)
 - Plan and Profile Sheets (60 Sheets) (1 to 50 Horizontal Scale) (Transmission Main)
 - Plan and Plan Sheets (16 Sheets)
 - Miscellaneous Details (2 Sheets)



2.8. Field Investigations

- Incorporate Land Surveying data collected in Task 9.

2.9. Geotechnical Investigations

- Include Geotechnical Recommendations provided in the report produced by Task 10.
- Rights-of entry for geotechnical investigations will be obtained with survey rights-of-entry.

Deliverables for Task 2

- DRAFT Preliminary Engineering Report (PER)
- DRAFT PER Submittal Workshop and Meeting Minutes
- FINAL PER Submittal
- 30% Construction Plans and Governing List of Specifications
- 30% OPCC

TASK 3: DESIGN PHASE (60%)

After approval of the 30% Design by COUNTY, Consultant will proceed into the Design Phase.

3.1. Constructability Review

- Consultant will review the 60% design drawings, specifications, and proposed bidding sequence to identify potential conflicts and suggest alternative designs to reduce cost and/or schedule impacts. Review comments will be documented and provided to COUNTY Project Manager.

3.2. Preliminary Design Phase (60%) Advancement and Drawing Preparation

- Consultant will continue and advance the design development from the Preliminary Engineering Phase to the Design Phase (60%).
- Consultant will prepare the 60% design drawings depicting the facilities proposed based on comments received from review of 30% Design.
- Consultant will prepare the 60% technical specifications. COUNTY Standard Specifications will be utilized to the extent possible with Consultant's Specifications augmenting as necessary.
- Consultant will update the OPCC based on the design quantities developed during this Phase. OPCC for this Task will include a +15% contingency.
- Consultant will provide update to COUNTY regarding necessary and expected permits.
- Consultant will submit draft 60% drawings, technical specifications, OPCC, and list of permits to COUNTY for review and comment.
- The 60% construction plan set will include the following:
 - Cover Sheet
 - General Notes
 - Quantity Summary
 - Overall Project Layout (2 Sheets)



- Project Control Layout (2 Sheets)
- Waterline Plan and Profile Sheets (60 Sheets) (1" to 50' Horizontal Scale) (Transmission Main)
- Waterline Plan and Plan Sheets (16 Sheets)
- Miscellaneous Details (4 Sheets)
- Traffic Control Plan and Plan Sheets and Detail Sheets (15 Sheets)
- SW3P Narrative, Details, EPIC and Tree Protections Sheets (4 Sheets)

3.3. Design Review (60%) Meeting

- Consultant will meet with COUNTY Project Manager to review and discuss COUNTY review comments.
- Consultant will document the results of the workshop in meeting minutes after the meeting.

Deliverables for Task 3

- 30% Review Comment Responses
- 60% Construction Plans and Technical Specifications
- 60% OPCC

TASK 4: FINAL DESIGN PHASE (100%)

After approval of the 60% Design by COUNTY, we will proceed into the Design Phase.

4.1. Permits

- Consultant will prepare and file permits for crossing of state-controlled highways and County controlled roadways. COUNTY will pay application fees and subsequent permit fees.

4.2. Surveying

- Consultant will prepare metes and bounds and survey plats to be used for right-of-way acquisition, if approved and necessary. Incorporate Land Surveying data collected in Task 9.

4.3. Utility Conflict Resolution and Designs for Relocation or Replacement

- Consultant will identify know public utilities in conflict with the proposed pipeline project and coordinate with the utility provider to identify methods to resolve the conflicts.
- If requested, Consultant will provide as an additional service, designs for relocation or replacement of the utility in conflict.



4.4. Final (100%) Design Advancement and Drawing Preparation

- Consultant will continue and advance the design development from the Design Phase (60%) to Final Design Phase (100%). Consultant will prepare the 100% design drawings depicting the facilities proposed based on comments received from review of Design Phase (60%).
- Consultant will prepare the 100% technical specifications for the project elements. COUNTY Standard Specifications will be utilized to the extent possible with Consultant's Specifications augmenting as necessary.
- Consultant will update the OPCC for the design elements, based on final quantities developed during this Phase. OPCC will include a 10% contingency.
- Consultant will provide suggested revisions to COUNTY's Standard "Front End" Specifications. COUNTY will update, prepare, and coordinate "Front End" specifications.
- Consultant will submit final 100% drawings, technical specifications, OPCC, permit requirements, and incorporate COUNTY edits to COUNTY Front End specifications to COUNTY for review and comment.
- The 100% construction plan set will include the following:
 - Cover Sheet
 - General Notes
 - Quantity Summary
 - Overall Project Layout (2 Sheets)
 - Project Control Layout (2 Sheets)
 - Waterline Plan and Profile Sheets (60 Sheets) (1 to 50 Horizontal Scale) (Transmission Main)
 - Waterline Plan and Plan Sheets (16 Sheets) (1 to 100 Horizontal Scale)
 - Miscellaneous Details (4 Sheets)
 - Traffic Control Plan and Plan Sheets and details (15 Sheets)
 - SW3P Narrative, Details, EPIC and Tree Protections Sheets (4 Sheets)

4.5. Final (100%) Design Review Workshop

- Consultant will conduct a workshop to review the Final (100%) Design with COUNTY.
- Documentation of meetings with COUNTY and summary decision log made during the meetings will be provided to COUNTY.
- Consultant will document the results of the workshop in meeting minutes after the meeting.

Deliverables for Task 4

- 60% Review Comment Responses
- 100% Construction Plans and Technical Specifications
- 100% OPCC



TASK 5: BIDDING PHASE SERVICES

1. Consultant will participate in the pre-bid conference and provide a recommended agenda for critical construction activities and elements impacting the project.
2. Consultant will assist the County and its Program Manager in solicitation of bids by identification of prospective bidders, and review of bids by solicited interests.
3. Consultant will review all pre-bid questions and submissions concerning the bid documents and prepare, in the County's format, for approval, any addenda or other revisions necessary to inform contractors of approved changes prior to bidding.
4. Consultant will attend bid opening, analyze bids, evaluate, prepare bid tabulation, and make recommendation concerning award of the contract.

Deliverables for Task 5

- Pre-Bid Meeting Attendance and Coordination
- Response to pre-bid questions
- Addenda, as required
- Attendance of Bid Opening
- Review and analysis of bids
- Engineer's Recommendation of Award Letter

TASK 6: CONSTRUCTION PHASE SERVICES

6.1. Pre-Construction Meeting

- Consultant will attend and conduct Pre-construction Conference with representatives of the Contractor(s) and Webb County.

6.2. Review submittals, shop drawings, testing results, Requests for Information (RFI's), and Change Orders

- Consultant will review up to 50 shop drawings and submittals, as listed in the Contract Documents.
- Consultant will provide technical input to County and the County's Program Manager for up to 25 RFIs from the contractor.
- Consultant will evaluate up to four potential changes.

6.3. Waterline Construction Observation

- Consultant's representative will make a site visit twice a month during construction of the project to observe if the work is being done in general with the intent of the plans and specifications. The representative will prepare a field report for each visit.
- Consultant's representative will attend monthly construction progress meetings and prepare a meeting report for each meeting. Consultant will prepare the meeting agenda, conduct the meeting and distribute meeting minutes.



6.4. Project Closeout

The following activities will be completed unless otherwise noted below:

- Consultant will attend and conduct final inspection along with the County and the County's Program Manager to determine if project has been completed to the standard required by the contract documents and the contractor has fulfilled his obligations as required.
- Consultant will develop a punch list of defective materials, installation and/or finishes and provide to the County and the County's Program Manager.
- Consultant will incorporate "Record Drawing" information received from the Contractors into the set of drawings and submit to County and the County's Program Manager after the construction contract.
- Record drawings, will be prepared, in part, based on information compiled and furnished by others, specifically the Contractor and County inspectors, and will represent based on the information provided, the location, types of components and configuration of the completed construction.
- Consultant is not responsible for any errors or omissions in the information from others that is incorporated into the record drawings.
- Consultant will provide one .pdf and CAD versions of drawings to the County.

6.5. Substitutions

- Consultant will evaluate and determine acceptability of substitute materials and equipment proposed by contractors and provide technical input to COUNTY's Construction Manager, up to a limit of six proposed substitutions.

Deliverables for Task 6

- Submittal Reviews
- Site Inspection Reports
- Response to RFIs and Change Orders
- Construction Progress Meetings and Meeting Minutes
- Project Closeout Documentation Response to RFIs and Change Orders
- Record Drawings

ADDITIONAL SERVICES

TASK 7: PERMITTING

7.1. State Highway, Webb County and City of Laredo Permits

- Consultant will prepare and submit permit applications for crossing TxDOT highway rights-of-way, City of Laredo and permits from Webb County (if required).



7.2. Texas Commission on Environmental Quality (TCEQ) Permitting

- Consultant will acquire approval from TCEQ prior to proceeding with construction of the Waterline Extension.

Deliverables for Task 7

- TxDOT Utility Permit
- City of Laredo C3 Letter and One Stop Shop Approval, if on COL ROW.
- TCEQ Approval Letter for Construction

TASK 8: ENVIRONMENTAL SERVICES

8.1 Phase I Environmental Site Assessment (ESA)

- Phase I Environmental Site Assessment (ESA) pursuant to standards outlined in the American Society for Testing and Materials (ASTM) Method E 1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The subject property for the Phase I ESA will be defined as the waterline alignment. The Phase I ESA will be limited to the objectives set forth in the standard. Site reconnaissance will be limited to areas visible from public streets and properties for which authorization to access has been granted.
- Webb County is defined by ASTM E 1527 as the User. User responsibilities include reviewing title and judicial records for environmental liens and activity use limitations (AUL). User should engage a title company, real estate attorney, or title professional to undertake a review of reasonably ascertainable recorded land title records and lien records for environmental liens and AULs recorded against or relating to the subject property. Findings shall be provided to Ardurra.
- Results of the Phase I ESA will be analyzed in a written report and recommendations for potential further action, if any, will be presented.

8.2 THC Cultural Resources Joint Coordination and Archaeology Field Survey

- Archeology resources desktop review and background research for previously recorded cultural resources sites, landmarks and surveys and historic resources desktop review and background research for previously recorded historic resources sites, National Register of Historic Places resources, and State Antiquities Landmarks will be performed. A letter report that assesses potential impacts to known resources within the APE and the potential for undocumented cultural resources and/or historic-age resources to be present with the project's APE. Draft report will be provided to the County for review and comment. After receiving authorization from the County, the report will be submitted to THC for Section 106 review and concurrence with the findings.
- Based on preliminary review the following is anticipated: 1) a pedestrian archeological survey will be required to assess project-related effects to archeological cultural resources and 2) a standing historic resources survey is not necessary. Such recommendations, however, will ultimately be the THC's and/or USACE's responsibility.



- The fee for this task is based on these assumptions. If agencies require a field survey for standing historical resources survey, a scope and fee can be provided for that service.
- An Antiquities Permit application per the requirements of the ACT will be prepared. This permit application package will include a summary of the known resources in the vicinity, the proposed field methods, and an application form. This application package will be submitted to the County for review, approval and signature, then submitted to the THC for their review and eventual permit issuance.
- Once a permit has been issued and schedule allows, archeologists will travel to the survey area to conduct an archeological survey in accordance with the Council of Texas Archeologist's (CTA) minimum standards and guidelines for "100% intensive linear surveys." Scope and fee is based on an estimate that approximately 128 shovel tests could be required to evaluate the entire project area. Based upon the proposed impacts within the landform's prevailing soils and geology, backhoe trenching may be necessary to evaluate potential deeply buried deposits in portions of the project area. Observations will be recorded through notes, photographs, field forms, and with hand-held GPS. Any archeological sites observed within the survey area will be documented in accordance with THC standards.
- After field investigations, TexSite form(s) will be prepared for any archeological site(s) recorded. A comprehensive report that details project components, field methods and observations, recorded sites (if any), and regulatory recommendations for the proposed project will be prepared. A draft will be electronically submitted to the County for review and comment, then (upon revision/approval) submitted to the THC and USACE (if required) for their review under the ACT and Section 106 (respectively).
- Upon THC approval (typically 30 days after receipt), final reports will be prepared in accordance with the Antiquities Permit requirements and the scope provided and submit all photographs, notes, and forms to a state approved curation facility for permanent curation.

8.3 Threatened and Endangered Species Habitat Assessment

- Review and background research for potential resources and habitat in the project area. A site visit will be conducted to view the habitat conditions of the project area. The likely presence or absence of Threatened and Endangered (T&E) Species or other species of concern will be assessed by comparison of site characteristics to habitats for such species described on Texas Parks and Wildlife Department's (TPWD) Rare, Threatened, and Endangered Species of Texas List (RTEST) for Webb County. Habitat descriptions for Federally-listed T&E species will be obtained from the United States Fish and Wildlife Service (USFWS). Known occurrences of T&E species will be obtained through the TPWD's Natural Diversity Database. Any area in which activities may impact potential habitat for any such species will be identified. A Threatened and Endangered Species Habitat Assessment Report identifying Threatened and Endangered Species listed by TPWD and USFWS for Webb County and describing their habitats will be produced. Any area in which activities may impact potential habitat for any such species will be identified. The report will include maps and photographs of any habitats identified.



8.4 Waters of the U.S./Wetland Assessment

- Waters of the U.S. (WOTUS) including wetlands in the project area will be evaluated and delineated by a qualified wetlands specialist in accordance with the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual and the Great Plains Regional Supplement to the manual. An Approved Jurisdictional Determination (AJD) Form based on the results of the wetland and WOTUS delineation will be prepared for submittal to the USACE. If required by the USACE during the JD process and delineation review, one field verification visit with the USACE personnel to visit the site and verify results of delineation is included.

8.5 Nationwide Permit Pre-Construction Notification

- Impacts to WOUS/wetlands will require authorization from the USACE. The proposed project will meet the conditions of Nationwide Permit 58 (Utility Line Activities for Water and Other Substances). Submission of Pre-Construction Notification (PCN) to the USACE is required for discharges that will result in the loss of greater than 1/10th acre of WOUS. If determined to be necessary, a PCN will be prepared and submitted to the USACE.

Deliverables for Task 8

- Phase I Environmental Assessment Report
- THC Cultural Resources Joint Coordination and Archaeology Field Survey
- Threatened and Endangered Species Habitat Assessment and Report
- Waters of the U.S./Wetland Assessment
- Nationwide Permit Pre-Construction Notification

TASK 9: TOPOGRAPHIC SURVEY

1. Obtain right-of-entry for surveys and geotechnical Investigations. If Consultant is unable to obtain the rights-of-entry, Webb County will be requested to assist in obtaining the rights-of-entry.
2. Perform on-ground survey to locate geotechnical bore locations.
3. Perform on-ground topographic survey 60- feet in width along the proposed route.
4. Prepare base map showing alignment, control points, geotechnical bore locations, and utility crossings.
5. Locate any visible improvements and utilities within the limits of the project.
6. Locate known buried utilities and above ground evidence of utilities, including overhead lines, private roadways, fences, structures, grade breaks (high- and low-points) and other existing facilities. For location of buried utilities, Webb County must authorize the supplemental SUE task to obtain this data.
7. Perform topographic survey and planimetric survey of existing roads at the approximate locations where proposed access roadways tie to existing roads.



8. Locate, measure the diameter, and identify the species for 12” and larger trees within the 60-foot corridor.

Deliverables for Task 9

- Survey results in digital format (NAD83 coordinates)

TASK 10: GEOTECHNICAL INVESTIGATION

1. Consultant will perform the following geotechnical task:
2. Obtain up to 8, 20-foot deep and up to 8, 15-foot geotechnical bores and prepare a geotechnical report with recommendations.
3. Conduct up to 2 resistivity tests to assess corrosive potential to metal fittings.
4. Perform associated laboratory analyses in support of site structural, pipeline, and roadway reconstruction design.

Deliverables for Task 10

- Geotechnical *Investigations Report based on testing performed by third party.*

TASK 11: SUBSURFACE UTILITY EXCAVATION

1. Allowance for Subsurface Utility Excavation (SUE) investigation as needed. Scope to include location of Subsurface Utility Excavation. Fee will not exceed the amount included in this proposal unless otherwise authorized.

Deliverables for Task 11

- TBD

TASK 12: RIGHT OF WAY ACQUISITION

1. Scope of Right-of-Way Acquisition services will be developed upon completion of Task 2: Preliminary Engineering. A proposal will be submitted by Ardurra for the County’s consideration after the completion of Task 2, only if necessary.

Deliverables for Task 13

- TBD



TASK 13: STAKEHOLDER ENGAGEMENT

1. Scope of Stakeholder Engagement services will be developed upon completion of Task 2: Preliminary Engineering. A proposal will be submitted by Ardurra for the County's consideration after the completion of Task 2, only if necessary.

Deliverables for Task 13

- TBD

TASK 14: ADDITIONAL WATER SYSTEM IMPROVEMENTS

1. Ardurra will evaluate the need of additional infrastructure necessary to support the waterline extension in Task 2: Preliminary Engineering. Any additional improvements, if any, will identified in Task 2 have not been included as part of this proposal. A proposal will be submitted by Ardurra for the County's consideration after the completion of Task 2, only if necessary.

Deliverables for Task 14

- TBD

TASK 15: BOUNDARY SURVEY & EASEMENT RECORDING

1. Scope of Boundary & Easement Recording services will be developed upon completion of Task 2: Preliminary Engineering. A proposal will be submitted by Ardurra for the County's consideration after the completion of Task 2, only if necessary.

Deliverables for Task 15

- TBD



Project Timeline:

Task	Duration (months)	Start Month	End Month
Basic Services			
1. PROJECT MANAGEMENT	12	0	12
2. PRELIMINARY ENGINEERING (30 %)	4	0	4
3. DESIGN PHASE (60%)	5	4	9
4. FINAL DESIGN PHASE (100%)	3	9	12
5. BIDDING PHASE	3	12	15
6. CONSTRUCTION PHASE	18	15	33
Additional Services			
7. PERMITTING	12	0	12
8. ENVIRONMENTAL SERVICES	12	0	12
9. TOPOGRAPHIC AND BOUNDARY SURVEY	3	3	6
10. GEOTECHNICAL INVESTIGATION	3	3	6
11. SUBSURFACE UTILITY EXCAVATION (Allowance) (Not Authorized)	TBD	-	-
12. RIGHT OF WAY ACQUISITION (Not Authorized)	TBD	-	-
13. STAKEHOLDER ENGAGEMENT (Not Authorized)	TBD	-	-
14. ADDITIONAL WATER SYSTEM IMPROVEMENTS (Not Authorized)	TBD	-	-
15. BOUNDARY SURVEYS & EASEMENT RECORDING (Not Authorized)	TBD		
TOTAL	33	0	33

Items not included in this proposal:

- Engineering for electrical and SCADA services related to the project
- Permitting with local, state and federal agencies in addition to that included as a basic service.
- Materials testing during construction.
- On-site construction observation services not included as part of the basic services.
- Perform hydrologic and hydraulic analysis to determine the 100-year floodplains.
- Services related to disputes over pre-qualification, bid protests, bid rejection and re-bidding of the Contract for Construction not as a result of Consultant’s work.
- Services necessary due to the default of the Contractor.



Fees:

A. Fee for Basic Services

The County will pay the Engineer 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 above, and for all expenses incurred in performing these services. For services provided, Engineer will submit monthly statements for basic services rendered. The monthly statements will be based upon Engineer’s estimate (and County Concurrence) of the proportion of the total services actually completed at the time of billing. For Construction Phase services, the statement will be based upon the percent of completion of the construction contract. County will make prompt monthly payments in response to Engineer’s monthly statements.

B. Fee for Additional Services

For services authorized by the County under the “Additional Services” section, the County will pay the Engineer a not-to-exceed fee as per the table below or as negotiated and approved at a later date.

C. Summary of Fees

BASIC SERVICES		
TASK 1	PROJECT MANAGEMENT	\$ 89,222.00
TASK 2	PRELIMINARY ENGINEERING (30 %)	\$ 336,881.00
TASK 3	DESIGN PHASE (60%)	\$ 420,281.00
TASK 4	FINAL DESIGN PHASE (100%)	\$ 242,305.00
TASK 5	BIDDING PHASE	\$ 37,202.00
TASK 6	CONSTRUCTION PHASE	\$ 306,662.00
SUBTOTAL BASIC SERVICES		\$ 1,432,553.00
ADDITIONAL SERVICES		
TASK 7	PERMITTING (AUTHORIZED)	\$ 61,580.00
TASK 8	ENVIRONMENTAL SERVICES (AUTHORIZED)	\$ 98,871.00
TASK 9	TOPOGRAPHIC SURVEY (AUTHORIZED)	\$ 303,690.00
TASK 10	GEOTECHNICAL INVESTIGATION (AUTHORIZED)	\$ 88,350.00
TASK 11	SUBSURFACE UTILITY EXCAVATION (ALLOWANCE) (NOT AUTHORIZED)	\$ 44,000.00
TASK 12	RIGHT OF WAY ACQUISITION (NOT AUTHORIZED)	TBD
TASK 13	STAKEHOLDER ENGAGEMENT (NOT AUTHORIZED)	TBD
TASK 14	ADDITIONAL WATER SYSTEM IMPROVEMENTS (NOT AUTHORIZED)	TBD
TASK 15	BOUNDARY SURVEYS & EASEMENT RECORDING (NOT AUTHORIZED)	TBD
SUBTOTAL ADDITIONAL SERVICES		\$ 596,491.00
TOTAL		\$2,029,044.00



Method of Payment:

Payment shall be made to the Consultant based upon the several phases as described heretofore and in accordance with the following:

D. Fee and Scope Assumptions:

Fee and scope assumptions is based on the following assumptions and exclusions:

- Engineering fees included in this proposal only apply to items specifically listed in this proposal.
- Agency review fees, impact fees, permitting fees and platting fees are not included herein.
- This proposal does not include a fee to prepare easements for drainage, construction, water, sewer, electrical, or gas services.
- Any additional services required by the County which may arise and are not outlined above shall be compensated for on an hourly basis or negotiated to a lump sum fee.

Any additional work not listed in the above Scope of Work will be performed on a time and material basis. Invoicing will be submitted monthly based on percent of completion. Payments not received within thirty (30) days of the date of invoice will cause interest at the rate of 1.5% per month to accrue on any outstanding balance.

Provider shall provide at his sole expense any and all equipment, tools and any other thing, including employees, subcontractors, or other such assistance, necessary to the performance by him of the above-described service.

This budget figure will not be exceeded without writing modification of this Agreement. The additional services must be authorized in writing by the Client.