

City of Lewisville

Raw Water Pipeline Relocation

Amendment #3: Bid Phase Services (Task 10) and Construction Administration Services (Task 11)

BACKGROUND:

The United States Army Corps of Engineers (USACE) will complete rehabilitation improvements at the Lewisville Lake dam. In planning for these improvements, the USACE requested that the City of Lewisville (CITY) relocate a portion of its two raw water pipelines. Thus, the CITY initiated preliminary engineering efforts with HDR Engineering, Inc. (CONSULTANT) to identify and evaluate alignment alternatives for the relocated pipeline segments while developing a conceptual level design that accounts for future capacity needs and incorporates features into the pipeline design to provide access for maintenance and periodic cleaning as part of its zebra mussel mitigation strategy.

The original Professional Services Agreement (PSA) between the CITY and CONSULTANT was executed on November 7, 2016 and focused on preliminary engineering to select the recommended alignment for relocating portions of the raw water pipelines. The primary deliverable from the original PSA is a Preliminary Design Report (PDR) documenting the alternatives evaluation, recommended improvements with conceptual level design, and next steps for coordination with the USACE for permitting and implementation.

Amendment #1 was executed between the CITY and CONSULTANT on May 15, 2017 to amend the original PSA with Detailed Design (Task 9) services.

Amendment #2 was executed between the CITY and CONSULTANT on March 15, 2018 to re-appropriate funds between existing project tasks with no net change in the total contract amount.

The project design will be complete in July 2018 and prepared for advertisement for bids. This Amendment #3 between the CITY and CONSULTANT addresses CONSULTANT's bid phase services and engineering during construction (construction administration) services.

SCOPE OBJECTIVE:

This amendment details the CONSULTANT's Bid Phase Services (Task 10) and Construction Administration Services (Task 11) for the City of Lewisville Raw Water Pipeline Relocation (PROJECT).

ASSUMPTIONS:

In developing this scope of work and the associated level of effort for each task, CONSULTANT has made the assumptions outlined below:

General

- CONSULTANT will develop a Submittal Register prior to PROJECT advertisement that identifies Contractor submittals required for the PROJECT as requested by the USACE
- CONSULTANT will develop an Engineering Considerations Document prior to advertisement to identify key features of the PROJECT that require inspection during construction as requested by the USACE
- CONSULTANT will note critical items that require input from the CITY and / or CONSULTANT to coordinate with USACE inspection efforts

- CONSULTANT will provide engineering during construction (construction administration) services as noted in the detailed Scope of Work; the scope of work does not include resident project engineering or inspection services
- CONSULTANT will not develop a construction schedule or perform scheduling services and review during construction
- CONSULTANT will not interface directly with the Contractor or its subcontractors regarding requests for information (RFIs), clarification, or submittal review during construction (communications will be through the USACE)
- CONSULTANT will review pre-construction items (bidder inquiries, etc.) posted to Dr. Checks/Proj.net and construction items (submittals, shop drawings, requests for information, field order requests, etc.) posted via Resident Management System (RMS) as forwarded by the USACE. CONSULTANT will send responses directly to the USACE to post to the appropriate web-based program upon incorporating CITY comments. It is assumed CONSULTANT will participate in a brief training session with the USACE and CITY to understand system requirements and functionality.
- USACE will conduct initial review of Contractor pay requests and send to the CITY and CONSULTANT for final review.
- Record drawings will be provided in hard copy, .pdf, and AutoCAD 2016 format to the CITY. It is assumed .pdf format only will be provided to USACE.

USACE

- USACE will reproduce and distribute copies of bid ready documents and addenda to plan holders while maintaining a plan holder's list
- USACE will use the Dr. Checks/Proj.net and RMS file sharing system to manage document submittal and control during construction; USACE will forward items (submittals, requests for information, field order requests, etc.) to CITY and CONSULTANT for review and response
- USACE will provide inspection services during construction
- USACE will manage document control throughout the execution of the PROJECT
- USACE will interface with the Contractor and its subcontractors during construction and CONSULTANT's communications with the Contractor and its subcontractors will be through the CITY and USACE

Refer to the additional assumptions as delineated by task in the detailed scope herein.

DETAILED SCOPE:

The Scope of Work that follows details the individual tasks and deliverables for the PROJECT and makes the following amendments to the PSA:

TASK 10 - BID PHASE SERVICES

CONSULTANT will perform the following services prior to and/or during the bidding phase of the PROJECT.

Task 10.1 – Project Administration and Coordination with USACE

Throughout project execution, CONSULTANT will conduct monitoring and control activities to track project progress and develop monthly invoices with project activity reports for submittal to CITY.

Activity reports will document activities completed during the previous period, planned activities for the following month, key decisions made, needed decisions, and decision-related / critical path action items.

For this task, up to six (6) months are assumed for project administration and coordination based on the USACE schedule for the advertisement and bidding period. Up to eight (8), 1-hour coordination calls are assumed with the CITY and USACE during this period. CONSULTANT will draft and distribute a summary for each call. Two (2) CONSULTANT attendees are assumed.

Deliverables:

- Monthly Invoices with Activity Report
- Meeting summaries for coordination calls (.pdf format)

Task 10.2 – Preparation for Project Advertisement

One (1) coordination meeting is assumed to define roles and responsibilities of the CONSULTANT, CITY, and the USACE during construction. It is assumed the USACE will lead the discussion and provide a meeting summary. CONSULTANT will develop a Submittal Register prior to advertisement that identifies Contractor submittals required for the PROJECT. CONSULTANT will also develop an Engineering Considerations Document prior to advertisement to identify key features of the PROJECT to assist the USACE with performing inspections. Critical items that require input from CITY and / or CONSULTANT will be noted so that the USACE can coordinate inspection efforts. CONSULTANT will coordinate with existing utility companies on proposed easement crossings resulting from the new permanent water pipeline easement. It is assumed the USACE will prepare required information and any summaries required for PROJECT advertisement with review by the CITY and CONSULTANT.

This task also includes any final adjustments to the plans and specifications to coordinate with the USACE drawings and specifications through the preparation period and initial qualifications and short-listing process for potential bidders. Up to two (2) additional half-day (4-hour) meetings are assumed with the USACE and the CITY.

Deliverables:

- Coordination meeting and summary
- Project Submittal Register
- Engineering Considerations Document
- Easement coordination
- Drawing and specification changes
- Coordination meetings

Task 10.3 – Industry Day and Pre-Bid Conference

CONSULTANT will attend and observe during Industry Day and the Pre-Bid Conference. It is assumed the USACE will prepare the agenda, lead discussions, and provide summaries for both meetings.

Deliverables:

- Industry Day and Pre-bid conference attendance

Task 10.4 – Respond to Bidder Inquiries

CONSULTANT will review bidder inquiries posted to Dr. Checks/Proj.net as forwarded by the USACE. It is assumed the USACE will manage distribution of the inquiries and responses through Dr. Checks/Proj.net

and that the CONSULTANT will discuss with the CITY and provide responses to USACE as appropriate. Thus, there will be no direct communication between CONSULTANT and the Contractor or its Subcontractors.

Deliverables:

- Response to bidder inquiries as requested by the USACE

Task 10.5 – Develop Addenda

CONSULTANT will develop formal addenda (using the USACE-provided format) as required by the USACE to address bidder inquiries and design drawing and specification clarifications. It is assumed CONSULTANT will develop up to three (3) addenda and send to the USACE for posting on Dr. Checks/Proj.net.

Deliverables:

- Addenda

Task 10.6 – Material and Equipment Review

CONSULTANT will review and determine the acceptability of materials and equipment submitted by the apparent successful bidder where review is required by the bidding documents or requested by the USACE subsequent to bid opening and prior to award of contract. CONSULTANT will provide a brief written summary of its materials and equipment review.

Deliverables:

- Material and equipment review summary

Task 10.7 – Bidder Qualifications Review

As requested by the USACE, CONSULTANT will review the qualifications of the apparent successful bidder for the PROJECT. The review will include such factors as previously constructed work, technical experience, and responses from references. It is assumed the USACE will develop bid tabs, review submitted contractor qualifications, bid values, overall compliance with requirements, and generate a summary for review as well as the recommendation for award. CONSULTANT will provide general input for its bidder qualifications review and recommendation for award for the PROJECT if requested by the USACE.

Deliverables:

- Bidder qualifications review and input

TASK 11 - CONSTRUCTION ADMINISTRATION SERVICES

CONSULTANT will perform the following engineering services during construction of the PROJECT.

Task 11.1 - Project Administration

Throughout project execution, CONSULTANT will conduct monitoring and control activities to track project progress and develop monthly invoices with project activity reports for submittal to the CITY. Activity reports will document activities completed during the previous period, planned activities for the following month, key decisions made, needed decisions, and decision-related / critical path action items.

For this task, up to twelve (12) months are assumed for project administration and coordination. Per USACE, CONSULTANT will not attend weekly Project Delivery Team (PDT) meetings during the construction phase. The USACE will send weekly PDT meeting minutes to the CITY and CONSULTANT for review and comment.

Deliverables:

- Monthly Invoices with Activity Report
- Review of weekly PDT meeting summaries

Task 11.2 – Conformed Documents

CONSULTANT will update the drawings and specifications to incorporate addenda items and provide conformed sets to the CITY and USACE. It is assumed the USACE will coordinate with the Contractor to provide the executed documents and produce sets of the Contract Documents for their use and the Contractor's use. It is assumed any additional sets of documents will be printed by the requesting party using the .pdf files.

Deliverables:

- Hard copy (.pdf) format and Microstation files for the drawings and specifications provided to USACE
- Two (2) full-size (22"x34") sets and three (3) half-size (11"x17") sets of hard copy drawings with five (5) sets of specifications and .pdf format provided to the CITY

Task 11.3 – Initial Kickoff Meeting and Pre-Construction Conference

CONSULTANT will attend an initial kickoff meeting and the subsequent pre-construction conference. It is assumed that the USACE will facilitate the meetings, develop the agendas, lead the meetings with the Contractor, and draft the meeting minutes. CONSULTANT will provide review and input for the agenda and minutes.

Additional Assumptions:

- Two (2) meetings with up to two (2) CONSULTANT attendees
- Up to four (4) hours assumed for each meeting

Deliverables:

- None (other than meeting attendance and participation)

Task 11.4 – Submittal / Shop Drawing Review

It is assumed the Contractor will submit required submittals, shop drawings, test reports, and material samples to the USACE. The USACE will reference the Project Submittal Register and subsequently transmit appropriate items to the CITY and CONSULTANT for review and response. CONSULTANT will provide review of contractor submittals and shop drawings as forwarded by the USACE. CONSULTANT will provide submittal / shop drawing review letters via RMS in electronic format with submittal / shop drawing markups attached upon consulting with the CITY to incorporate CITY review comments. The USACE will forward the Contractor's proposed construction schedule and sequencing for the pipelines to the CITY and CONSULTANT for review and comment. CONSULTANT will not provide reviews related to the overall project schedule. Up to thirty-five (35) submittal / shop drawing reviews are assumed at an average of six (6) hours of review time per submittal. Up to fifteen (15) test report / material sample reviews are assumed at an average of one (1) hour of review time per submittal. An additional twelve (12) hours is assumed for review input regarding Contractor schedule and sequencing.

Deliverables:

- Submittal / shop drawing review letters

Task 11.5 – Warranty and Guarantee Review

Receive and review guarantees, bonds, and certificates of inspection, and tests and approvals that are to be assembled by the Contractor or the CITY in accordance with the construction contract documents and transmit them to the CITY.

Deliverables:

- Review letters with attached documents (.pdf format)

Task 11.6 – Respond to Requests for Information (RFIs) and Clarifications

CONSULTANT will provide response to requests for information (RFIs) and clarifications regarding design intent or interpretation of the drawings and specifications as forwarded by the USACE. Responses will be submitted in electronic format with applicable sketches or markups attached. Up to twenty-five (25) RFIs or clarifications are assumed at an average of four (4) hours of review time per RFI / clarification.

Deliverables:

- RFI / clarification responses

Task 11.7 – Contract Modification / Change Order Review

CONSULTANT will assist in the review and preparation of contract modifications and change orders. Up to ten (10) contract modifications, field orders, and change orders are assumed with an associated average level of effort of four (4) hours per item. It is assumed the USACE and CITY will lead change order negotiations and execution with the Contractor and CONSULTANT will provide review and comment (as requested by the USACE and CITY) as well as supporting documentation for specification and/or drawing changes that form the basis for the change.

Deliverables:

- Change order review and comment (as requested) with supporting specification and drawing changes where required

Task 11.8 – Construction Progress Meeting Attendance

CONSULTANT will attend and participate in construction progress meetings with the USACE, CITY, and Contractor. A nine (9) month construction schedule with one (1) meeting per week for forty (40) weeks is assumed for the purposes of defining the level of effort for this task.

The level of effort for this task assumes CONSULTANT will provide review and comment for meeting minutes and that the USACE will be responsible for developing meeting agendas, tracking attendance, updating submittal, RFI, and change order tracking logs, and drafting the meeting minutes with action items.

Additional Assumptions:

- One (1) CONSULTANT representative will attend up to forty (40) meetings
- A second CONSULTANT representative will attend up to ten (10) meetings
- Up to two (2) hours is assumed per person, per meeting

Deliverables:

- Meeting attendance and review of minutes, tracking logs, and action items

Task 11.9 – Site Visits and Observation Reports

CONSULTANT will conduct a site visit on the same day of each construction progress meeting as defined in Task 11.8. Therefore, the site visit level of effort is based on up to forty (40) site visits. CONSULTANT will walk the site for each visit and note observations. CONSULTANT will prepare an observation report and submit to the CITY and the USACE noting general observations regarding the work and progress.

Additional Assumptions:

- One (1) CONSULTANT representative will conduct each site visit
- A second CONSULTANT representative will attend up to ten (10) site visits
- An additional two (2) hours of effort is assumed per person, per visit to conduct the walkthroughs and draft and submit the observation reports

Deliverables:

- Site visits and observation reports (emailed to the CITY and the USACE in .pdf format)

Task 11.10 – Pipe Manufacturing and Inspection Site Visits

The USACE will coordinate with the pipe manufacturer, CONSULTANT, and CITY to schedule a site visit to the pipe manufacturing facility. The site visit will facilitate observations of the pipe fabrication, quality control and assurance procedures, and pipe testing. CONSULTANT will visit the construction site for critical inspections defined in the Engineering Considerations Document. The USACE will coordinate with the Contractor, CITY, and CONSULTANT to schedule the site visits. Inspections will be performed in a coordinated effort with input from the CITY and the USACE. CONSULTANT will develop and submit an observation report to the CITY and the USACE summarizing observations from the site inspections.

Additional Assumptions:

- One (1), six (6)-hour day trip is assumed for two (2) CONSULTANT representatives to attend the pipe manufacturing facility site visit
- Up to four (4) additional site visits will be conducted with four (4) hours of effort assumed per person, per visit to conduct each construction site inspection and draft and submit the observation report

Deliverables:

- Pipe manufacturer facility attendance
- Site inspections and electronic observation reports (.pdf format)

Task 11.11 – O&M Manual Review

CONSULTANT will review preliminary operations and maintenance (O&M) manuals. Up to five (5) preliminary O&M manuals and reviews are assumed at an average of six (6) hours of review time per submittal. Review will be for general conformance with specification requirements and level of completeness. CONSULTANT will provide review letters directly to the USACE in electronic format with comments / markups attached. It is assumed the USACE will confirm review comments have been addressed and coordinate with the contractor to achieve submittal of the final O&M manuals. Additional reviews can be provided as an additional service.

Deliverables:

- O&M manual review letters

Task 11.12 – Review Monthly Progress Payment Requests

Review and sign the Contractor's monthly payment requests for the raw water pipeline portion of the project as appropriate. This effort assumes a nine (9) month construction period.

Deliverables:

- Cover letter and signed payment requests (.pdf format)

Task 11.13 – Claims Support

Act as an initial arbiter on claims of the CITY and the Contractor relating to the acceptability of the work or the interpretation of the requirements of the construction contract documents.

Deliverables:

- Letter response to claims relating to acceptability of the work or interpretation of the construction contract documents (.pdf format)

Task 11.14 – Start-up and Commissioning Services

CONSULTANT will develop a draft start-up and commissioning plan for the relocated pipelines and corrosion protection system. USACE will schedule and lead a coordination meeting with the CITY, CONSULTANT, and Contractor to discuss implementation and finalize the start-up plan. CONSULTANT will conduct up to two (2), eight (8)-hour site visits with two (2) corrosion professionals to observe corrosion protection system commissioning and witness continuity tests for the entire pipeline alignment prior to putting the pipeline corrosion protection system into service. Observations will be summarized in an observation report submitted to the CITY and the USACE.

Deliverables:

- Draft start-up plan
- Coordination meeting and summary with final start-up plan
- Corrosion protection system commissioning site visits and electronic observation reports (.pdf format)

Task 11.15 – Substantial Completion Walk-through and Punch-list

CONSULTANT will conduct a substantial completion walk-through with the CITY and the USACE upon confirmation from the USACE that the project is considered substantially complete. It is assumed the USACE will lead this effort with review input and observations provided by the CONSULTANT. CONSULTANT will develop a punch-list and provide to the CITY and the USACE. It is assumed the USACE will generate and manage the punch-list with the contractor to confirm identified items are addressed and that the USACE will issue certificate of substantial completion upon concurrence with the CITY.

Additional Assumptions:

- Up to two (2) CONSULTANT representatives will perform the walk-through
- Up to six (6) hours per person is assumed to complete the effort including development of punch-list items and general observations

Deliverables:

- Attendance and participation in substantial completion walk-through
- Punch-list items

Task 11.16 – Final Completion Walk-through

CONSULTANT will conduct a final completion walk-through with the CITY and the USACE upon confirmation from the USACE that all punch-list items have been addressed. It is assumed the USACE will lead this effort with observations provided by the CONSULTANT. It is assumed the USACE will confirm the punch-list items have been addressed and that the USACE will issue certificate of final completion and a letter to the Contractor to accept the pipelines upon concurrence with the CITY and CONSULTANT.

Additional Assumptions:

- Up to two (2) CONSULTANT representatives will perform the walk-through
- Up to four (4) hours per person is assumed to complete the effort

Deliverables:

- Attendance and participation in final completion walk-through
- Final observations

Task 11.17 – Record Drawings

CONSULTANT will update the drawings to reflect as-built conditions. It is assumed that the USACE will routinely check as-built markups throughout construction with the Contractor to confirm conformance with the specifications and that as-built information is clearly recorded. CONSULTANT will update the drawings to reflect the as-built markups as provided by the Contractor through the USACE. It is noted that the level of effort does not include research or interpretation to generate the as-built drawings based on RFIs, clarifications, and change orders. Thus, RFIs, clarifications, and change orders shall not be attached to the drawing to serve as documentation of as-built conditions in lieu of direct markups by the Contractor on the drawings. Record drawing sets will be provided to the CITY in hard copy and electronic (.pdf) format and to the USACE in electronic format.

Deliverables:

- Electronic (.pdf) format to the USACE
- Two (2) full-size (22"x34") set and three (3) half-size (11"x17") sets of hard copy drawings and .pdf format to the CITY

Additional Services:

Additional services not included in this Scope of Work include:

- Additional response to RFIs / clarifications beyond that stated in the Basic Services
- Additional submittal / shop drawing and O&M manual review beyond that stated in the Basic Services
- Additional change order review beyond that stated in the Basic Services
- Change order negotiations
- Scheduling services and schedule review
- Additional project meetings and site visits beyond that stated in the Basic Services
- Risk-based analyses for dam safety

- Analyses associated with the stability or integrity of the Lewisville Dam
- Coordination with agencies other than the CITY, USACE, and TCEQ
- Preparation and submittal of permit applications
- Environmental assessments
- Survey services
- Subsurface exploration / geotechnical work
- Inspection services or resident engineer / representative services
- Testing services

If needed, these services will require written authorization from the CITY with additional funding.

Delete Section IX and replace with the following:

IX. THE CONSULTANT AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY, ITS OFFICERS, AGENTS AND EMPLOYEES, HARMLESS AGAINST ANY AND ALL CLAIMS, LAWSUITS, JUDGMENTS, COSTS AND EXPENSES FOR PERSONAL INJURY (INCLUDING DEATH), PROPERTY DAMAGE OR OTHER HARM FOR WHICH RECOVERY OF DAMAGES IS SOUGHT, SUFFERED BY ANY PERSON OR PERSONS, THAT IS CAUSED BY OR RESULTS FROM ANY NEGLIGENT ACT OR OMISSION, INTENTIONAL TORT, INTELLECTUAL PROPERTY INFRINGEMENT, OR FAILURE TO PAY A SUBCONTRACTOR OR SUPPLIER COMMITTED BY CONSULTANT, ITS AGENT, EMPLOYEE, CONSULTANT UNDER CONTRACT, OR ANY OTHER ENTITY OVER WHICH THE CONSULTANT EXERCISES CONTROL, IN THE PERFORMANCE OF THIS AGREEMENT; EXCEPT THAT THE INDEMNITY AND DEFENSE PROVIDED FOR IN THIS PARAGRAPH SHALL NOT APPLY TO ANY LIABILITY RESULTING FROM THE SOLE NEGLIGENCE OR FAULT OF THE CITY, ITS OFFICERS, AGENTS, EMPLOYEES OR SEPARATE CONSULTANTS OR CONTRACTORS, AND IN THE EVENT OF JOINT AND CONCURRING NEGLIGENCE OR FAULT OF THE CONSULTANT AND THE CITY, RESPONSIBILITY AND INDEMNITY, IF ANY, SHALL BE APPORTIONED IN ACCORDANCE WITH THE LAW OF THE STATE OF TEXAS, WITHOUT WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO THE CITY UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW. THE DUTY TO DEFEND SHALL NOT APPLY IN THE CASE OF A CLAIM BASED WHOLLY OR PARTLY ON THE NEGLIGENCE OF, FAULT OF, OR BREACH OF CONTRACT BY THE CITY, ITS AGENTS OR EMPLOYEES, OR OTHER ENTITY (EXCLUDING THE CONSULTANT OR ITS AGENT, EMPLOYEE, CONSULTANT UNDER CONTRACT, OR ANY OTHER ENTITY OVER WHICH THE CONSULTANT EXERCISES CONTROL) OVER WHICH THE CITY EXERCISES CONTROL, IN WHICH INSTANCE THE CITY'S REASONABLE ATTORNEY'S FEES SHALL BE REIMBURSED BY CONSULTANT IN PROPORTION TO THE CONSULTANT'S LIABILITY. THE PROVISIONS OF THIS PARAGRAPH ARE SOLELY FOR THE BENEFIT OF THE PARTIES HERETO AND NOT INTENDED TO CREATE OR GRANT ANY RIGHTS, CONTRACTUAL OR OTHERWISE, TO ANY OTHER PERSON OR ENTITY.

New Section XVIII:

XVIII. TEXAS GOVERNMENT CODE CHAPTER 2270. Pursuant to Texas Government Code Chapter 2270, Consultant affirms that execution of this Agreement serves as written verification that Consultant: (1) does not boycott Israel, as defined by Texas Government Code Section 808.001; and (2) will not boycott Israel during the term of the Agreement.



New Section XIX:

XIX. **TEXAS GOVERNMENT CODE CHAPTER 2252.** Pursuant to Texas Government Code Chapter 2252, Subchapter F, Consultant affirms that it is not identified on a list created by the Texas Comptroller of Public Accounts as a company known to have contracts with or provide supplies or services to Iran, Sudan, or a foreign terrorist organization.

New Section XX:

XX. **PERFORMANCE:** In compliance with Texas Local Government Code 271.904, the Contractor agrees to perform the services outlined herein with the professional skill and care ordinarily provided by competent engineers practicing under the same or similar circumstances and professional license; and to perform the services outlined herein as expeditiously as is prudent considering the ordinary professional skill and care of a competent engineer, under the schedule as referenced in this Agreement.

Renumber Section XXI, Closure, as needed.

By signature below, the parties to this Agreement hereby bind themselves to the terms stated herein.

CITY OF LEWISVILLE, TEXAS

Approved by the Lewisville City

Council _____

By: _____

Donna Barron, City Manager

Date: _____

Attest: _____

Julie Heinze

CITY OF LEWISVILLE

151 West Church Street

Lewisville, Texas 75057

APPROVED AS TO FORM:

Lizbeth Plaster, City Attorney

HDR Engineering, Inc.

17111 Preston Road, Suite 300

Dallas, Texas 75248

By: _____

Ramon Miguez, Vice President

Date: 8/9/18

Attest: Robert W. Hoffman

Robert Hoffman, Project Manager

ID	Task Name	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	N			
1	City of Lewisville Raw Water Pipeline Relocation Bid and Construction Schedule																									
2	Task 10 Bid Phase Services																									
3	Preparation for Advertisement																									
4	Bid Phase																									
5	Contract Award																									
6	Task 11 Construction Administration Services																									
7	Construction																									
8	Start-up / Commissioning																									

City of Lewisville

Raw Water Pipeline Relocation

Amendment #3 - Task 10 Bid Phase and Task 11 Construction Administration Engineering Services Fee

										FEE		
	Principal	QC	Project Manager	Corrosion System	Structural	Geotechnical Engineer	CAD	Admin. Support				
	Hoffman	Biglen	John	Giddings	Cloudt	Boehm	Branin	Rayshell	Hours	LABOR	EXPENSES (w/10% markup)	TOTAL
Task 10 - Bid Phase Services												
10.1 Project Administration and Coordination with USACE	14		28					14	56	\$ 9,946	\$ 150	\$ 10,096
10.2 Preparation for Project Advertisement	14	2	60				36	8	120	\$ 19,518	\$ 300	\$ 19,818
10.3 Industry Day and Pre-Bid Conference	6		8						14	\$ 2,932	\$ 200	\$ 3,132
10.4 Respond to Bidder Inquiries	4	2	12	1	2	1		4	26	\$ 4,710		\$ 4,710
10.5 Develop Addenda	4	2	16	1	2	1	24	4	54	\$ 8,911		\$ 8,911
10.6 Material and Equipment Review	2	2	12					2	18	\$ 3,098		\$ 3,098
10.7 Bidder Qualifications Review	2		4						6	\$ 1,155		\$ 1,155
Task 11 - Construction Administration Services												
11.1 Project Administration	12		36					24	72	\$ 11,716	\$ 300	\$ 12,016
11.2 Conformed Documents	2		12				12	6	32	\$ 4,851	\$ 500	\$ 5,351
11.3 Initial Kickoff Meeting and Pre-Con	6		8						14	\$ 2,932	\$ 200	\$ 3,132
11.4 Submittal / Shop Drawing Review	12	8	118	12	24	8		40	222	\$ 34,935		\$ 34,935
11.5 Warranty and Guarantee Review	1		4					1	6	\$ 976		\$ 976
11.6 Respond to RFIs and Clarifications	8		56	8	8	8		8	96	\$ 15,609		\$ 15,609
11.7 Contract Modification / Change Order Review	4	2	18				12	4	40	\$ 6,619		\$ 6,619
11.8 Construction Progress Meeting Attendance	16	4	80						100	\$ 16,846	\$ 2,500	\$ 19,346
11.9 Site Visits and Observation Reports	16	4	80						100	\$ 16,846		\$ 16,846
11.10 Pipe Manufacturing and Inspections Site Visits	8	8	22	14					52	\$ 10,600	\$ 500	\$ 11,100
11.11 O&M Manual Review	2		20					4	26	\$ 3,814		\$ 3,814
11.12 Review Monthly Progress Payment Requests	2		12					2	16	\$ 2,484		\$ 2,484
11.13 Claims Support	8		16						24	\$ 4,619		\$ 4,619
11.14 Start-up and Commissioning Services	4	4	8	32					48	\$ 9,774	\$ 1,300	\$ 11,074
11.15 Substantial Completion Walk-through & Punch-list	6		6						12	\$ 2,667	\$ 200	\$ 2,867
11.16 Final Completion Walk-through	4		4						8	\$ 1,778	\$ 200	\$ 1,978
11.17 Record Drawings	2		20	1	2		40		65	\$ 9,885	\$ 250	\$ 10,135
Total	159	38	660	69	38	18	124	121	1227	\$ 207,220	\$ 6,600	\$ 213,820