

CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION

WHEREAS, the Camino Real Regional Mobility Authority (CRRMA) and Gannett Fleming, Inc. (formerly known as DEC – El Paso, LLC (Engineer)) executed a Contract for Engineering Services dated December 16, 2022 (Contract) for the Engineer to provide various design services to the CRRMA, from time to time, via execution of a Work Authorization; and

WHEREAS, the CRRMA and Engineer previously executed a work authorization pursuant to the Contract, for the Engineer to provide design services for the development of the Dilley, Delake, and Transit Center Project (Project) in the Town of Horizon City, Texas; and

WHEREAS, the CRRMA and Engineer now desire to amend the work authorization to allow the Engineer to provide additional design services for the Project, to include Cross River Drive, the relocation of a retention pond, and some additional environmental services.

NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:

THAT, the Executive Director be authorized to execute an amendment to **Work Authorization No. 3** with Gannett Fleming, LLC (formerly known as DEC – El Paso, LLC), including any additional documents or materials as may be required, for the completion of additional design services for the development of the Dilley, Delake, and Transit Center Project.

PASSED AND APPROVED THIS 11TH DAY OF MARCH 2026.

**CAMINO REAL
REGIONAL MOBILITY AUTHORITY**

Monica L. Perez
Vice Chair

ATTEST:

Lina Ortega
Board Secretary

APPROVED AS TO CONTENT:

Raymond L. Telles
Executive Director

**WORK AUTHORIZATION NO. 3
CONTRACT FOR ENGINEERING SERVICES**

AMENDMENT NO. 1

THIS AMENDMENT NO. 1 is made pursuant to the terms and conditions of Article 5 of the Contract for Engineering Services dated December 16, 2022 (the Contract), entered into by and between the CAMINO REAL REGIONAL MOBILITY AUTHORITY (the CRRMA) and GANNETT FLEMING, INC. (the Engineer).

Pursuant to the Contract, the CRRMA and Engineer executed a work authorization (WA No. 3) for the Engineer to provide various design services to the CRRMA for the Dilley, Delake, & Transit Center Project (Project). WA No. 3 is hereby amended to add support from the Engineer for the relocation of a retention pond, the addition of Cross River Drive, and certain additional environmental services. These supplemental services required of the Engineer are more fully enumerated in **EXHIBIT A-1**, which is attached hereto and incorporated for all purposes. WA No. 3 is further supplemented by the additional not to exceed compensation identified within **EXHIBIT C-1**, which is also attached hereto and incorporated herein for all purposes.

This Amendment No. 1 shall become effective on the date of final execution of the Parties hereto. All other terms and conditions of WA No. 3 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Amendment No. 1 is executed in duplicate counterparts and hereby accepted and acknowledged below.

**CAMINO REAL
REGIONAL MOBILITY AUTHORITY**

By: _____
Raymond L. Telles
Executive Director

Date: _____

GANNETT FLEMING, INC.

By: _____
Name: _____
Title: _____
Date: _____

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Exhibit A-1: Services to be Provided by the Engineer

I. PROJECT SUMMARY

This Scope includes additional services to add the design of Cross River Rd. to the Horizon City Dilley, Delake, Roadway Project. This project is a key infrastructure initiative aimed at improving urban mobility, public transportation facilities, and pedestrian access within Horizon City, Texas. This Project consists of the Engineering and Environmental services to include the design of the following elements:

- Cross River St. Roadway including
Municipal Water and Sewer (*Dilley St.
to Rodman St.*)
- Storm Drain
- Illumination
- Landscaping and Irrigation
- Sidewalks
- Walking Trails

NOTE: Construction phase services are not part of the scope and fee.

II. SERVICES TO BE PROVIDED BY THE ENGINEER

Professional Engineering and Design Services to be provided by the Engineer will conform to the latest editions of the TXDOT Project Development Process Manual, the Roadway Design Manual, the PS&E Preparation Manual, and other applicable codes, ordinances, criteria, standards, regulations, policies, guidelines, practices and procedures.

The Engineer will work at the direction and supervision of the CRRMA providing reports and findings, as required. The Engineer will work cooperatively and collaboratively with other governmental agencies and design consultant firms who are responsible for adjacent projects or jurisdictional approval.

The schedule of activities below will conform to established CRRMA review and comment periods for each deliverable of the project. The services to be provided by the Engineer may include, but is not limited to, the following key elements:

- Project Management
- Surveying
- Geotechnical Investigations
- Pavement Design
- Environmental Studies
- Illumination Design
- Storm Drain Design
- Traffic Engineering
- Signing, Pavement Markings, and Signalization
- Water and Sanitary Improvements
- Plans, Specifications and Estimates
- Utility Coordination
- Landscaping and Irrigation
- Retention Basin Design

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- QA/QC quality control (QC) procedures/plan to ensure the accuracy and quality of the deliverables produced.

A. Project Management

The Engineer, in coordination with the CRRMA, will be responsible for directing and coordinating all activities related to the Project. Project management and administration tasks shall include a Project Management/Work Plan, Progress Reporting, Coordination /Administration, Project Control/Scheduling, and Subconsultant Management.

1. Project Management/Work Plan

1.1 Develop a Project Management/Work Plan to reflect the following:

- Organization and responsibilities
- Coordination meetings
- Deliverables
- Follow Quality Assurance (QA) and Quality control (QC) procedures/plan to ensure the accuracy and quality of the deliverables produced.

2. Progress Reporting

2.1 Prepare and submit to the CRRMA monthly progress reports of activities completed during the reporting period.

- 2.1.1. Activities Completed
- 2.1.2. Initiated and Ongoing Activities
- 2.1.3. Planned Activities

2.2 Prepare and Submit Invoices. The report shall be submitted as an attachment to the invoice submittal.

3. Coordination/Administration

3.1 The Engineer shall prepare for and attend one (1) kick-off meeting to discuss project guidelines and present general project requirements and expectations.

3.2 Coordinate with the CRRMA's staff regularly throughout project development.

- 3.2.1. Attend CRRMA Design Reviews

3.3 Project Control/Scheduling

- 3.3.1. Develop a Master Schedule for the Project indicating tasks/subtasks, critical dates, milestones, and deliverables.
- 3.3.2. Update and Schedule on a Monthly Basis.

3.4 Subconsultant Management

- 3.4.1. Prepare subcontracts for subconsultant(s).
- 3.4.2. Monitor subconsultant project development (progress and timeline).
- 3.4.3. Review and recommend approval of subconsultant progress reports and invoices.

Deliverables

- Summaries of all meetings
- Project Schedule and monthly updates
- Progress Reports and Invoices

B. Surveying

The project covers a range of surveying, mapping, and Subsurface Utility Engineering (SUE) services that are integral to the development of the transit plaza and surrounding

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infrastructure. FXSA has been contracted to perform all survey-related tasks, including boundary and easement surveys, topographic and planimetric data collection using LiDAR and photogrammetry, and the identification and mapping of subsurface utilities through SUE services.

The project will support the development of a transit-oriented, pedestrian-friendly zone that connects the Dilley - Delake area to essential services and transit routes. The results of FXSA's survey and utility work will directly inform the design and construction phases of the transit plaza and surrounding roadways.

- Establishing accurate control points for the project area, which will serve as the foundation for all surveying and development efforts.
- Conducting boundary and easement surveys to accurately define property lines, easements, and right-of-way limits for Proposed Basin Option 3.
- Collecting topographic and planimetric data using advanced LiDAR and photogrammetry techniques to generate detailed maps, contour lines, and Digital Elevation Models (DEM) for design purposes.



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Project Location

1. Project Control

To ensure the accuracy and reliability of all surveying and mapping tasks, FXSA will establish four (4) primary control points throughout the project area. These control points will serve as a foundation for all future work and be referenced consistently during all phases of the project. Control points will be established using precise geodetic methods, ensuring alignment with state and local standards. These project control points are different from aerial control that will be used for the LiDAR Acquisition. Aerial control will require an additional 8 control points.

- Horizontal Control: Coordinates will be established using the Texas State Plane Coordinate System, Central Zone (4203, NAD 83).
- Vertical Control: Vertical data will be tied to the North American Vertical Datum of 1988 (NAVD88), utilizing the GEOID 18 model.



2. Boundary and Easement Surveys

FXSA will conduct a boundary and easement survey of the project area. This will include into existing property records and surveys, fieldwork, and the preparation of boundary exhibit.

- Records Search: FXSA will retrieve and review all relevant documentation, including deeds, subdivision plats, prior survey records, easements, and right-of-way maps.
- Field Survey: FXSA will perform a field survey of the site to establish boundary lines, property corners, and easement limits. This will include setting permanent markers at property corners where required.

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- Easement and Right-of-Way Identification: The survey will identify all existing easements, including utility easements, public roadways, pedestrian pathways, and any additional right-of-way that may impact the project.
3. Topographic and Planimetric Data Collection Using LiDAR and Photogrammetry
- FXSA will utilize LiDAR and photogrammetry to collect topographic and planimetric data for the project site as requested by client. This will include capturing high-resolution, three-dimensional surface data, which will be used to create detailed contour maps and feature extraction.
- LiDAR Data Collection: FXSA will deploy LiDAR systems to capture dense point cloud data. This data will be processed to create a bare-earth model, removing surface clutter (e.g., vegetation) to reveal the natural ground surface.
 - Photogrammetry: High-resolution aerial photography will be taken to produce orthorectified images. These images will be used to extract visible surface features such as roads, sidewalks, utility markers, vegetation, and manmade structures.
 - Contour Mapping: The processed LiDAR data will be used to generate 1-foot contour intervals across the entire project area. This data will be critical for future design and construction, ensuring accurate elevation data.
 - Feature Extraction: Using the Ortho imagery, FXSA will extract all visible features, including utilities (water meters, gas meters, manholes), transportation infrastructure (roads, sidewalks, driveways), and natural features (trees, ditches, slopes).
 - DEM Generation: A Digital Elevation Model (DEM) will be generated, providing a continuous surface model for the entire project area. This will be delivered in industry-standard XML format.
4. Subsurface Utility Engineering (SUE) Services
- FXSA will perform SUE services across all four levels (D, C, B, and A) to ensure accurate identification and documentation of subsurface utilities. This work will be conducted following the American Society of Civil Engineers (ASCE) 38-02 Standard.
- 4.1 SUE Level D (Records Research) - FXSA will collect and review all available records related to subsurface utilities within the project area. This includes utility as-builts, existing utility maps, and prior survey records.
- 4.2 SUE Level C (Visual Inspection) - FXSA will conduct a visual survey to identify visible utility features, such as manholes, valve boxes, meters, and other above-ground markers.
- 4.3 SUE Level B (Geophysical Methods) - Using ground-penetrating radar (GPR), FXSA will locate underground utilities that may not be visible from the surface. This data will be cross-referenced with existing records to create a more complete picture of subsurface infrastructure.
- 4.4 SUE Level A (Non-Destructive Excavation) - FXSA will use vacuum excavation to expose critical utilities at conflict points, ensuring precise location data. This method ensures that utilities can be located without damage to surrounding infrastructure.

Deliverables

- Project Control
- Signed and sealed boundary exhibit showing property lines, right-of-way limits, and all recorded easements.

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- Topo/Improvement Drawing and Deliverables
- Utility map and QL-A Pothole datasheets.
- All survey data, and SUE results, delivered in formats compatible with Civil 3D and MicroStation DGN as requested by client.

C. Geotechnical Subsurface Soils Characterization

1. Subsurface Soils Exploration and Engineering Soil Classification Testing.

1.1 Perform a general geotechnical subsurface soils characterization evaluation within the retention basin area. The Engineer shall perform two borings to a depth of 35 feet for the basin. Exploration borings shall be performed in accordance with ASTM procedures, as required. The borings shall be drilled in general accordance with standard procedures using a truck-mounted rotary-drilling rig utilizing hollow stem augers subsurface exploration methods. Standard Penetration Tests (SPT's) shall be performed for drill rig soil exploration borings and soil samples shall be collected with a split-spoon sampler during exploration. Ground water or water seepage shall be reported if encountered during exploration. Exploration boring logs shall be prepared in accordance with industry standard formats. The borings shall be logged in the field by a trained member of our geotechnical staff. The boreholes shall be backfilled using soil cuttings after completion.

1.1.1 The Geotechnical Engineer shall prepare boring plan for the Engineers review and comment. It is acknowledged that the project site is not near the active streets and traffic control is not required.

1.1.2 Geotechnical Engineer shall contact utility one call services to mark all existing utilities where exploration borings shall be performed within the city right of way. CRRMA shall be responsible for securing consent of entry and existing utility information from the owner where geotechnical exploration shall be performed within private property. Utility information within private property shall be provided to the geotechnical engineer for review and consideration prior to commencing geotechnical exploration borings. Geotechnical shall not be responsible for repairing and replacing damaged existing utility lines that are not indicated on the provided utility information, if encountered and penetrated at the time of our field exploration borings. The Geotechnical scope of work does not include potholing services and locating existing utility lines.

1.1.3 The proposed initial geotechnical exploration fieldwork scope of services shall consist of drilling a total of two (2) subsurface exploration borings to 35 feet depth below the existing ground or reasonable auger refusal. .

1.1.4 Geotechnical Engineering Soil Classification testing on collected and selected soil samples shall be limited to the following tests;

- Soil Moisture Content Tests
- Soil Atterberg Limits Tests
- Soil Particle Size Analysis Tests
- Direct Shear Tests

All testing shall be performed in accordance with the latest version of the

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American Society for Testing Materials (ASTM) test procedures. Engineering soil classification shall be done in accordance with the Unified Soil Classification System (USCS).

1.2 Geotechnical Evaluation and Reporting

1.2.1 Geotechnical Engineering report shall be prepared and submitted to the design engineer for review and consideration in the project design. Report shall contain soil boring location plans, boring logs, laboratory engineering soil classification tests, summary of the subsurface soil classifications, encountered ground water or water seepage conditions, stability analyses of proposed slopes and recommended slope inclination if the proposed slope does not have adequate safety factor.

Deliverables

- Draft Geotechnical Report
- Final Geotechnical Report

D. Social, Economic, and Environmental Studies

1. Environmental Documentation. Each environmental service provided shall have a deliverable. Deliverables shall summarize the methods used for the environmental services and shall summarize the results achieved. The summary of results shall be sufficiently detailed to provide a satisfactory basis for thorough review by CRRMA, TxDOT, and (where applicable) agencies with regulatory oversight. All deliverables must meet regulatory requirements for legal sufficiency and adhere to the requirements for the reports enumerated in TxDOT's National Environmental Policy Act of 1969 (NEPA) Memorandum of Understanding (MOU).

1.1 Environmental Quality Assurance/Quality Control Review. For each deliverable, perform quality assurance quality control (QA/QC) reviews of environmental documents and on other supporting environmental documentation to determine whether documents conform with:

1.1.1 Current Environmental Compliance Toolkit guidance, documentation requirements, and templates published by TxDOT's Environmental Affairs Division (ENV) and in effect as of the date of receipt of the documents or documentation to be reviewed.

1.1.2 Current state and federal laws, regulations, policies, guidance, agreements, and memoranda of understanding between TxDOT and other state or federal agencies; and

1.1.3 Guidelines contained in Improving the Quality of Environmental Documents, A Report of the Joint AASHTO/ACEC Committee in Cooperation with the Federal Highway Administration (May 2006) for readability and use of evidence and data in documents to support conclusions.

1.1.4 Provide documentation that the QA/QC reviews were performed by qualified staff.

1.2 Maintain the project environmental record in TxDOT's Environmental Compliance

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- Oversight System (ECOS), including project review, completing the work development plan (WPD) screens, uploading documents, and completing activities as assigned.
- 1.3 Deliverables shall contain all data acquired during the environmental service and be written to be understood by the public in accordance with TxDOT's Environmental Toolkit guidance, documentation standards, and current guidelines, policies, and procedures.
 - 1.4 Electronic versions of each deliverable must be written in software which is compatible to CRRMA and must be provided in a changeable format for future use by CRRMA. Supplement all hard copy deliverables with electronic copies in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each deliverable shall be a single, searchable .pdf file that mirrors the layout and appearance of the physical deliverable. Deliver the electronic files by email or through the ftp site.
 - 1.5 Submission of Deliverables
 - 1.5.1 Deliverables shall consist of documentation to support a categorical exclusion (CE) determination. Technical reports and documentation must be prepared to support the applicable environmental classification (i.e., CE). Additionally, if required, an Open-Ended (d) Categorical Exclusion Classification Request Form will be prepared to classify the project as an Open-Ended (d)-list CE.
 - 1.5.2 All deliverables must comply with all applicable state and federal environmental laws, regulations and procedures, and TxDOT's Environmental Compliance Toolkits, documentation requirements, and templates.
 - 1.5.3 On the cover page of each technical report prepared under the authority granted by this MOU, and for any memorandum corresponding to any CE determination it makes, the Engineer shall insert the following language in a way that is conspicuous to the reader or include it in a CE project record: "The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT."
 - 1.6 CRRMA and TxDOT shall provide comments on draft deliverables to the Engineer. The Engineer shall revise the deliverables to:
 - 1.6.1 Include any CRRMA commitments, findings, agreements, or determinations (e.g., wetlands, endangered species consultation, or Section 106) required for the project.
 - 1.6.2 Incorporate the results of public involvement and agency coordination.
 - 1.6.3 Reflect mitigation measures resulting from comments received or changes in the Project.
 - 1.6.4 Include with the revised document a comment response form (matrix) in the format provided by CRRMA or TxDOT.
 - 1.7 Photographs shall be attached to separately labeled pages that clearly identify project name; project identification (ID) number; address or Universal Transverse Mercator (UTM) of resource; description of the picture and direction of the photographic view. In addition to the hard-copy prints, an electronic version of each will be submitted with the same identification information as the hard-copy.

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Deliverables:

- Work Plan Development (WPD) Screens I & II
- Other Project-Related Information (project location map and photographic log)
- Open-Ended (d) Categorical Exclusion Classification Request Form

2. Technical Reports and Documentation

2.1 Definition of technical report and documentation for environmental services: a report, checklist, form, to analysis detailing resource-specific studies identified during the process of gathering data to make an environmental decision.

2.2 CRRMA and TxDOT may determine what technical reports and documentation are necessary for the Project. All technical reports and documentation will be prepared with sufficient detail and clarity to support environmental determinations. All technical reports shall comply with TxDOT's Environmental Compliance Toolkits, documentation requirements, and templates.

2.3 Environmental technical reports and documentation must include appropriate NEPA or federal regulatory language in addition to the purpose and methodology used in delivering the service. Technical reports and forms must use templates and documentation standards as applicable and include sufficient information to determine the significance of impacts.

Deliverables:

- Draft technical analyses and documentation
- Final Technical analyses and documentation

2.4 The environmental technical analyses and documentation anticipated to be required for the Project include:

2.4.1 Water Resources Analysis and Documentation. Environmental documentation shall be prepared, and field surveys will be conducted to provide analysis of water resources for compliance with state and federal regulations as described in TxDOT's Environmental Guide: Volume 2 Activity Instructions, and the associated forms, templates, and guidance found in TxDOT's Water Resources section of the Natural Resources Toolkit. The following water analysis shall be provided:

- Surface Water Analysis Form, including the analysis of:
- Section 404 of the Clean Water Act
- Section 303(d) of the Clean Water Act
- General Bridge Act/Section 9 of the Rivers and Harbors Act – **Not included**
- Section 10 of the Rivers and Harbors Act - **Not included**
- Section 401 of the Clean Water Act
- Executive Order 11990, Protection of Wetlands

2.4.2 Biological/Natural Resources Management Analysis and Documentation. Environmental documentation shall be prepared, and field surveys conducted to provide analysis of biological natural resources for compliance with state and federal regulations as described in TxDOT's Environmental Guide 2: Volume 2 Activity Instructions, and the associated forms, templates, and

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guidance found in TxDOT's Natural Resources Toolkit. The following biological/natural resources analysis shall be provided:

- Species Analysis Form
- Species Analysis Spreadsheet
- BMP list

2.4.3 Initial Site Assessment (ISA) with Hazardous Materials Project Impact Evaluation Report. The Engineer shall provide an ISA with Hazardous Materials Project Impact Evaluation Report for the Project in accordance with the Statement of Work for Hazardous Materials Processes related to NEPA in TxDOT's Hazardous Materials Management Toolkit.

2.4.4 Archeological Documentation Services. The Engineer shall provide archeological studies and documentation. All archeological studies must be sufficient to satisfy the current TxDOT Archeological Sites and Cemeteries Toolkit. An archeological background study shall be performed prior to field work.

2.4.5 Archeological Surveys

- The conduct of an Archeological Survey (Reconnaissance) shall conform to the Environmental Affairs Division online toolkit for Archeological Survey Reports, available from the State. The Engineer shall undertake the following activities and demonstrate that these activities occurred by providing supporting data to the State.
- Archeological surveys shall be performed for specific proposed transportation activities. Perform archeological surveys under a Texas Antiquities Permit issued by THC and signed by a State professional archeologist (TAC, Title 13, Part 2, Chapter 26).
- Perform surveys, reporting, and documentation to satisfy the National Historic Preservation Act, Section 106 and Antiquities Code requirements for determining whether archeological sites are present in the project area, and whether test excavations or a higher level of archeological work is needed.
- A physical inspection of the project area.
- Documentation of conditions affecting the potential integrity of archeological deposits in accordance with regulations 36 CFR 60.4 governing eligibility for inclusion in the National Register of Historic Places and regulations TAC, Title 13, Part 2, Chapter 26.8, governing evaluation of archeological sites for designation as SALs.
- Evaluation of the potential for intact archeological deposits to be present in the proposed project area.
- Photo-documentation of evidence supporting a recommendation that deposits in the project area do or do not have sufficient integrity for the preservation of eligible sites. Photo-documentation shall provide a

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representative record of all relevant impacts reducing the integrity of potential archeological deposits in the project area.

- Surveys will be done in accordance with THC survey standards, unless a different level of effort can be explicitly justified. Eligibility test excavations and data recovery excavations will be authorized at the sole discretion of the State and performed only under a permit specifically issued for that purpose.
- The State encourages the use of mechanically excavated trenches as a reliable site prospection tool during intensive surveys. All trenches excavated for prospection shall be documented in sufficient detail to assure satisfaction of the National Historic Preservation Act, Section 106 and Antiquities Code information needs.
- Items for curation must be prepared in accordance with the most current standards published. The Technical Expert will contact ENV's Archeological Studies Section for a request for housing before sending items to the certified curation facility.
- Archeological Reconnaissance Surveys - The Engineer shall conduct a Reconnaissance Survey as defined in 13 TAC 26.5(57) and 13 TAC 26.20(1). The Engineer shall submit a permit application for a Texas Antiquities Permit and a report on the work conducted under the permit. Permit applications for the conduct of an Archeological Reconnaissance Survey shall follow the Environmental Affairs Division online toolkit for Individual Antiquities Permit Applications, which is available from the State. The content for Archeological Reconnaissance Survey reports shall follow the Environmental Affairs Division online toolkit for Archeological Survey Reports, which is available from the State. The draft and final report shall also fulfill the reporting requirements for the Texas Antiquities Permit.
- Archeological Intensive Survey – This Exhibit does not include an intensive survey for archeology.

In compliance with TxDOT's Environmental Compliance Toolkits, the Engineer shall provide the following archeological services/deliverables:

- Archeological background study
- Antiquities permit application
- Archeological Survey Report

2.4.6 Historic Resource Identification, Evaluation, and Documentation Services. The Engineer shall provide historic resource identification, evaluation, and documentation services. No surveys are included in this scope of work. In compliance with TxDOT's Environmental Compliance Toolkits, the Engineer shall provide the following historic resource services/deliverables:

- Historic Resources PCR

2.4.7 Traffic Noise Studies

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- Perform a traffic noise analysis in accordance with the current version of the State's (FHWA approved) guidelines for analysis and abatement of roadway traffic noise (December 2019). Noise analyses shall be performed for the preferred alternative.
- Comply with all noise policy, guidelines and standards found on the State's Traffic Noise Toolkit website. Upon request, the State shall provide the Engineer's Technical Expert with existing and predicted (future) traffic data and, when available, aerial photography.
- By project location site visit, identify adjacent, land use development and photo document representative receivers that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement.

2.4.8 Agency Coordination and Public Involvement

The Engineer shall prepare a Notice and Opportunity to Comment as needed. The Engineer shall prepare schematic exhibits, and other necessary exhibits, and assist CRRMA and TxDOT with all NOC materials. This estimate includes up to 50 notifications (to include elected officials and property owners). For all public involvement activities, the Engineer shall prepare the adjacent property owner list and mail out.

2.4.9 Community Impacts Analysis

- This task includes researching the latest Census data available to document the population and income characteristics of the immediate area surrounding the proposed project and identifying potential impacts on Limited English Proficiency (LEP) populations as well as potential impacts on community cohesion.
- Deliverables shall include Community Impacts Assessment Technical Report Form

E. Signing, Pavement Markings, and Signalization

1. Signing

The Engineer shall prepare drawings, specifications, and details for all signs.

The Engineer shall:

- 1.1 As needed, prepare sign detail sheets for signs showing dimensions, lettering, shields, borders, and corner radii, and shall provide a summary of signs.
- 1.2 Illustrate and number the proposed signs on plan sheets.
- 1.3 Select each sign foundation from State Standards.

2. Pavement Markings.

2.1 The Engineer shall detail permanent pavement markings and channelization devices on plan sheets. The Engineer shall select Pavement markings from the latest State standards.

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- 2.2 The Engineer shall provide the following information on signing and pavement marking layouts:
- 2.3 Roadway layout
- 2.4 Location of utilities
- 2.5 Existing signs to remain, be removed, be relocated, or be replaced
- 2.6 Proposed signs (illustrated, numbered, and showing sign size)
Proposed markings (illustrated and quantified) which include pavement markings, object markings, and delineation
- 2.7 Quantities of existing pavement markings to be removed
- 2.8 Proposed delineators, object markers, and mailboxes
- 2.9 Right-of-way limits
- 2.10 Direction of traffic flow on all roadways

F. Water and Sanitary Sewer Improvements

For this project there will be a need for Water and sanitary sewer improvements within Horizon Country Club Estates – Unit Two in Horizon City, Texas. The project will include the design and bid phase services for water and sanitary sewer service lines along Cross River Rd. Design Phase Services includes preparation of 60, 90, and 100-percent and final signed and sealed construction package, construction cost estimate, and a submittal of all required documents to the Texas Commission on Environmental Quality. GFTS will track the TCEQ review and respond to comments as required to secure the PWS permit.

1. Construction Drawings, Contract Documents, and Technical Specifications – GFT will prepare 100% and final signed and sealed construction drawings, contract documents, and technical specifications in accordance with El Paso County standard design and recommendations. The Construction Documents will include plan and profile sheets and connection details to existing utilities. Project design will be performed in accordance with the following design standards:
 - 1.1 Texas Commission on Environmental Quality (TCEQ)
 - 1.2 City of Horizon Engineering Design Standards
 - 1.3 Construction Cost Estimate – GFT will prepare the engineer’s opinion of probable construction cost for the 100-percent and final signed and sealed submittal.

Deliverables

- Water and Sanitary Sewer Improvement Drawings
- Project Manual

G. Plans, Specifications and Estimates (PS&E) (% , 100%)

1. General design
 - 1.1. Develop cover sheet and index sheet.
 - 1.2. Develop project general notes.
 - 1.3. Develop summary sheets.
 - 1.4. Develop project layout and typical sections.
2. Traffic Control
 - 2.1. Develop Spec requiring contractor to develop Traffic Control.

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- 2.2. Develop Phasing Plan
3. Demolition Plans
 - 3.1. Develop demolition plans for items to be removed or preserved during construction.
4. Roadway Design
 - 4.1. Develop vertical and horizontal control
 - 4.2. Develop horizontal layouts to include Temporary Construction Licenses (TCL) for work on private property. TCL shall consist of application and exhibit, with no additional survey work.
 - 4.3. Develop roadway plan and profile sheets.
 - Proposed Roads
 - Proposed Shared Use Path
 - 4.4. Develop parking lot/drop off/Pick-Up, Bus Stop layout plans.
 - 4.5. Detail design elements throughout the project including driveway access, bicycle and pedestrian facilities, and miscellaneous details.
 - 4.5.1 Driveway access at existing facilities.
 - 4.5.2 Bicycle and pedestrian facilities as per City of Horizon Bike Plan.
 - 4.5.3 Transitions/modifications to existing cross streets.
5. Traffic
 - 5.1. Follow the Texas Manual on Uniform Traffic Control Devices and maintaining agency standards.
 - 5.2. Develop striping and signage layout plans.
 - 5.3. Develop summary of small signs and details.
6. Erosion and Sediment Control
 - 6.1. Develop EPIC sheet.
 - 6.2. Prepare Storm Water Pollution Prevention Plan (SW3P) Narrative.
 - 6.3. Prepare SW3P Plans.
7. Assembly of PS&E Packages at every stage of design development
 - 7.1. Complete construction plans
 - 7.2. List of Governing Specifications (Special Specifications and Special Provisions as needed)
 - 7.3. Develop Opinion of Probable Construction Costs
 - 7.4. Develop construction Contract Time Determination
 - 7.5. Provide documents needed for bid document package
 - Scope of Work
 - Bid Tabs
 - Spec and Special provisions List
 - TxDOT Special Specifications
 - TxDOT Special Provisions
 - City of Horizon Special Specifications
 - General Notes
 - 7.6. Certifications (ROW, Encroachments, RR, Displacement, Utilities)
 - 7.7. Address Review Comments
8. ADA compliance Services
 - 8.1. The engineer will perform plan review and inspections for ADA, T.A.S, and Texas

Project: Horizon City Project: Dilley, Delake Project
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Department of Licensing and Regulation requirements.

9. Submit design documents at project milestones (60, 90, 100 and Final) to all entities with jurisdiction over approval of the project. Coordinate reviews, gather/ address comments received from those entities.

Deliverables

- 60, 90, 100 and Final RTL Submittals: The Engineer will prepare and provide five (5) reproducible copies of the Design documents and corresponding electronic (pdf) files
- QC redlines with each submittal
- Final hydraulic report
- Final approved design exceptions/waivers
- Final opinion of probable construction cost
- Contract Time Determination
- Final signed and sealed construction plans
- Bid Solicitation document package

H. Utility Coordination

1. Perform Utility Investigation to locate all existing utilities within the project location.
2. Design improvements to minimize utility conflicts.
3. Coordinate with the Horizon MUD.

I. Landscape and Irrigation Design Plans

The site, landscape, and irrigation design for the Transit Center and Streetscape will involve development of Preliminary Design Development (60%) followed by a Pre-Final Design (90%) phase and continuing through Final Design (100%) documentation.

As mentioned in the coordination meeting, we are assuming that the landscape areas will be determined by the engineer and architect base plan. Design of all the hardscape areas like plazas, roads, sidewalks, overhead structures will not be part of the landscape and irrigation design scope. In terms of the new landscape, new trees and shrubs will be incorporated along with groundcover material and include passive water harvesting solutions like swales and ponds. Water connections and electrical service connections that will be required for this project will be provided by the engineer.

Our proposed phases of work are as follows:

10. Preliminary Design Development Phase (60% Complete) – Following approval of the Schematic Design, we will proceed to Design Development or 60% drawings. Design Development drawings will include site construction plans, planting plans, irrigation plans, and detail sheets. These plans will include planting material, ground level materials (gravel, mulch, etc.) and site furniture at this stage of work we will also begin a specification outline. All of the work will be developed digitally in MicroStation/AutoCAD, and all plans will be drawn to scale. Plans will also meet federal ADA standards and Town of Horizon City standards. A 60% construction cost estimate will also be provided. We have assumed six meetings with staff in this phase of work.
11. Pre-Final Design Phase (90% Complete) – Following approval of the Preliminary Design Development phase of work, we will proceed to Pre-Final Design 90% drawings. Pre-Final

Project: Horizon City Project: Dilley, Delake Project
Supplemental No. 1
CRRMA - IDC Contract

Design will include addressing comments for the site construction plans, planting plans, irrigation plans, and detail sheets, and developing a nearly complete set of construction documents. The Specifications will also be completed to a 90% level in specified format. All the work will be developed and submitted digitally. Six meetings are planned for this phase of work. Pre-final cost estimates will also be included.

12. Final Design Phase (100% Complete PS&E) – Following approval of the Pre-Final Design phase of work, we will proceed directly to Final Design 100% construction drawings. Final Design will include addressing any final comments for the site construction plans, planting plans, irrigation plans, and detail sheets. The Specifications will also be included to a 100% level. All of the work will be developed and submitted digitally. 4 meetings are planned for this phase of work. Final costs estimates will also be included.

Deliverables

- Landscape Design
- Irrigation Design
- Digital PDF Copy of Conceptual Improvement Layout
- Cost Estimate
- Informational Meeting (1) / Rendering Exhibits

J. Bid Phase Services

1. Bid Development
 - 1.1 Assist CRRMA in preparing for Bids.
 - 1.1.1. Develop a detailed scope of work
 - 1.1.2. Develop a unit price bid proposal form
 - 1.1.3. Develop a detailed cost estimate
 - 1.2 Prepare any addenda to drawings or specifications.
 - 1.3 Attend the Pre-Bid Conference.
 - 1.4 Assist CRRMA in responding to Contractor Questions.
2. Bid Award
 - 2.1 Assist CRRMA in evaluating bids received.
 - 2.2 Provide letter recommendation for award.

NOTE: Construction Phase Services is not included in this Work Authorization Scope and Fee.

**Exhibit C-1
FEE SCHEDULE**

CRRMA - IDC Contract

PROJECT: Horizon City Project: Dilley, Delake, and Transit Plaza											
PRIME: Gannett Fleming, Inc.											
Project Summary of Tasks										Total=	\$306,586.48
TASK DESCRIPTION	Gannett Fleming, Inc.		Blanton & Associates, Inc.		FXSA, Inc.		HVJ Associates, Inc.		Sites Southwest, Inc.		Total
	Hrs.	Fee	Hrs.	Fee	Hrs.	Fee	Hrs.	Fee	Hrs.	Fee	
A. Project Management	72	\$ 14,865.60									\$ 14,865.60
B. Surveying (FXSA)					82	11,662.54					\$ 11,662.54
Surveying - Direct Expenses						1,200.00					\$ 1,200.00
C. Geotechnical Subsurface Soils Characterization (HVJ)							119	18,042.29			\$ 18,042.29
D. Pavement Design Engineering (HVJ)											\$ -
Geotech & Pavement Design Eng.- Direct Expenses								10,084.50			\$ 10,084.50
I. Social, Economic, and Environmental Studies (ICF)			680	111,890.80							\$ 111,890.80
Social, Economic, and Environmental Studies Direct Exp.				7,556.40							\$ 7,556.40
J. Stakeholder Coordination											\$ -
K. Pre-Design & 30% PS&E											\$ -
L. Illumination	41	\$ 6,195.53									\$ 6,195.53
M. Traffic Engineering	0	\$ -									\$ -
N. Signing, Pavement Markings, and Signalization	32										\$ -
O. Water and Sanitary Sewer Improvements	46	\$ 8,334.57									\$ 8,334.57
P. Cross River 60%, 90%, 100% PS&E, RTL PS&E	696	\$ 108,660.95									\$ 108,660.95
Q. Utility Coordination											\$ -
R. Landscape and Irrigation Design Plans (SSW)									59	8,033.00	\$ 8,033.00
Landscape and Irrigation Design Plans - Direct Exp.										60.30	\$ 60.30
S. Bid Phase Services											\$ -
GF - Prime Direct Expenses		\$ -									\$ -
Total	887	138,056.65	680	119,447.20	82	12,862.54	119	28,126.79	59	8,093.30	\$ 306,586.48
Percent Participation		45.03%		38.96%		4.20%		9.17%		2.64%	
		% PARTICIPATION									
		PRIME	\$ 138,056.65	45.03%							
		SUBS	\$ 168,529.83	54.97%							
		TOTAL	\$ 306,586.48	100.00%							
Previous Fee	\$ 175,357.51		146,194.50		13,026.54		30,242.22		9,231.30		374,052.07
Total Reduction	\$ 37,300.86		\$ 26,747.30		\$ 164.00		\$ 2,115.43		\$ 1,138.00		\$ 67,465.59
Percent Reduction	21%		18%		1%		7%		12%		18%
Fee Associated with Design of Cross River		123,736.65							8,093.30		\$ 131,829.95
Fee Associated with Design elements not associated with Cross River		14,320.00		119,447.20		12,862.54		28,126.79		-	\$ 174,756.53

CONTRACT: CRRMA 2022 IDC PRIME: Gannett Fleming, Inc. Project: Cross River Road Design											
Tasks	Project Manager	Senior Engineer	Traffic Engineer	Design Engineer	Quality Manager	Senior Designer	EIT	Senior CADD Operator	Admin Assistant 3	Total Hours	Total Cost
LABOR RATE PER HOUR	\$334.07	\$270.29	\$261.76	\$262.98	\$174.99	\$129.81	\$116.88	\$111.01	\$117.14		
GENERAL SCOPE											
A. Project Management											
Progress Reporting	4								8	12	\$2,273.40
Prepare and Submit Invoices	4								8	12	\$2,273.40
Coordination / Administration	4								8	12	\$2,273.40
Develop and Manage Subconsultant Work Authorizations	4								8	12	\$2,273.40
Manage Subconsultant project development	4	8								12	\$3,498.60
Meetings (Prepare Agenda, Hold meetings & Prepare Minutes)	4								8	12	\$2,273.40
TOTAL - Project Management	24	8	0	0	0	0	0	0	40	72	\$14,865.60
B. Traffic											
Establish Projected Traffic and Bus Percentage										0	\$0.00
Develop ESALs for Roadways										0	\$0.00
Develop Technical Memo										0	\$0.00
										0	\$0.00
										0	\$0.00
TOTAL - Traffic	0	0	0	0	0	0	0	0	0	0	\$0.00
L. Illumination											
Proposed Illumination Layouts	1		2				4	8		15	\$2,213.19
Quantities and Estimate	1		2				4	6		13	\$1,991.17
Illumination Plan and Details (60/90/100% complete)	1		2				4	6		13	\$1,991.17
TOTAL - Illumination	3	0	6	0	0	0	12	20	0	41	\$6,195.53
N. Signing, Pavement Markings, and Signalization											
Proposed Signing Layouts	1		2				3	6		12	\$1,874.29
Develop Special Details	1		2				3	6		12	\$1,874.29
Signing & Pavement Markings - Quantities and Estimate	1		2				4	1		8	\$1,436.12
TOTAL - Signing, Pavement Markings, and Signalization	3	0	6	0	0	0	10	13	0	32	\$5,184.70
O. Water and Sanitary Sewer Improvements											
Construction Notes										0	\$0.00
Sheet Layout (Water)						2	2			5	\$756.36
Plan and Profile Sheets (Water) - 2 sheets				1		2	2			5	\$756.36
Connection Details (Water)										0	\$0.00
Water Line Details - 1 sheets										0	\$0.00
Sheet Layout (Sanitary Sewer)				1		2	2			5	\$756.36
Plan and Profile Sheets (Sanitary Sewer) - 2 sheets				1		2	2			5	\$756.36
Connection Details (Sanitary Sewer)										0	\$0.00
Sanitary Sewer Details - 1 sheets										0	\$0.00
Entity Reviews (TCEQ, Horizon City MUD)				1		2	2			5	\$756.36
Progress Submittals (30%, 60% 90%, 100%)				1		2	1			4	\$639.48
Review and Incorporate Submittal Review Comments				1		3	2			6	\$886.17
Construction Cost Estimate - Preparation and Review				1			2			3	\$496.74
Technical Specifications - (100% complete)										0	\$0.00
Manage and Coordinate Water & Waste Water Efforts	2			1						3	\$931.12
Review Water & Waste Water Work Progress (QA/QC)	2			1						3	\$931.12
Coordination with Subcontractors on Water & Waste Water Design	2									2	\$668.14
TOTAL - Water and Sanitary Sewer Improvements	6	0	0	10	0	15	15	0	0	46	\$8,334.57
P. Roadway & Site Design Plans, Specifications, and Estimates (60% PS&E)											
Roadway and Drainage for Cross River Road											
Develop 60% Alignment and Roadway layout for Cross River Road	1	1		2			4	4		12	\$2,041.88
Develop 60% Alignment and roadway Roadway profile for Cross River Road		2		2			4	10		18	\$2,644.16
Develop 60% Estimate and Quantity Sheet for Cross River Road Roadway Items	1			2			6	2		11	\$1,783.33
Develop 60% Typical Sections for Cross River Road				4			6	12		22	\$3,085.32
Develop 60% 3D Model for Cross River Road	1			4			10			15	\$2,554.79
Develop 60% Cross-Sections for Cross River Road		2		4		2	10	10		28	\$4,131.02
Identify and Implement TxDOT Roadway Standards										0	\$0.00
Develop 60% Storm Drainage for Cross River Road	1	2		3		2	12	18		38	\$5,323.95

**CONTRACT: CRRMA 2022 IDC
PRIME: Gannett Fleming, Inc.
Project: Cross River Road Design**

Tasks	Project Manager	Senior Engineer	Traffic Engineer	Design Engineer	Quality Manager	Senior Designer	EIT	Senior CADD Operator	Admin Assistant 3	Total Hours	Total Cost
LABOR RATE PER HOUR	\$334.07	\$270.29	\$261.76	\$262.98	\$174.99	\$129.81	\$116.88	\$111.01	\$117.14		
Develop 60% Large Drainage Area Map for Cross River Road-										0	\$0.00
Develop 60% Small Drainage Area Map for Cross River Road		2		3		2	8	12		27	\$3,856.30
Develop 60% Storm Drainage Calculations Sheet for Cross River Road	1	2		4		2	6	6		21	\$3,553.53
Develop 60% Retention Basin		1		2		2	18	24		47	\$5,823.95
Develop 60% Estimate and Quantity Sheet for Cross River Road. Storm Drain Items	1			2		2	4	3		12	\$1,920.20
Develop 60% Drainage Details for Cross River Road				2			8	12		22	\$2,793.12
Identify and Implement TxDOT Drainage Standards-										0	\$0.00
TOTAL - 60% Design Phase	6	12	0	34	0	12	96	113	0	273	\$39,511.55
P. Roadway & Site Design Plans, Specifications, and Estimates (90% PS&E)											
Roadway and Drainage for Cross River Road											
Update 90% Alignment and Roadway layout for Cross River Road	1	1		2			4	6		14	\$2,263.90
Update 90% Alignment and roadway Roadway profile for Cross River Road		2		2			4	8		16	\$2,422.14
Update 90% Estimate and Quantity Sheet for Cross River Road Roadway Items	1			2			4	2		9	\$1,549.57
Update 90% Typical Sections for Cross River Road				4			4	6		14	\$2,185.50
Update 90% 3D Model for Cross River Road	1			8			10			19	\$3,606.71
Update 90% Cross-Sections for Cross River Road	1	2		4		2	8	6		23	\$3,787.29
Update 90% Storm Drainage for Cross River Road		2		4			10	1		17	\$2,872.31
Update 90% Large Drainage Area Map for Cross River Road-										0	\$0.00
Update 90% Small Drainage Area Map for Cross River Road	1	2		2			4	6		15	\$2,534.19
Update 90% Storm Drainage Calculations Sheet for Cross River Road	1			2		2	3	4		12	\$1,914.33
Develop 90% Retention Basin		1		2		2	14	20		39	\$4,912.39
Update 90% Estimate and Quantity Sheet for Cross River Road. Storm Drain Items	1			2			4	2		9	\$1,549.57
Update 90% Drainage Details for Cross River Road	1			4			6	8		19	\$2,975.35
TOTAL - 90% Design Phase	8	10	0	38	0	6	75	69	0	206	\$32,573.25
P. Roadway & Site Design Plans, Specifications, and Estimates (100% PS&E)											
Roadway and Drainage for Cross River Road											
Update 100% Alignment and Roadway layout for Cross River Road	1	1		3			4	4		13	\$2,304.86
Update 100% Alignment and roadway Roadway profile for Cross River Road		1		4			3	4		12	\$2,116.89
Update 100% Estimate and Quantity Sheet for Cross River Road Roadway Items	1			2			4	2		9	\$1,549.57
Update 100% Typical Sections for Cross River Road				3			3	4		10	\$1,583.62
Update 100% 3D Model for Cross River Road	1			2			6			9	\$1,561.31
Update 100% Cross-Sections for Cross River Road		1		4		2	6	4		17	\$2,727.15
Update 100% Storm Drainage for Cross River Road	1	1		3			6	1		12	\$2,205.59
Complete 100% Large Drainage Area Map for Cross River Road-										0	\$0.00
Update 100% Small Drainage Area Map for Cross River Road		1		2			3	4		10	\$1,590.93
Develop 100% Retention Basin	1	1		1		1	4	6		14	\$2,130.73
Update 100% Storm Drainage Calculations Sheet for Cross River Road	1			2		2	2	3		10	\$1,686.44
Update 100% Estimate and Quantity Sheet for Cross River Road. Storm Drain Items				2			3	2		7	\$1,098.62
Update 100% Drainage Details for Cross River Road	1			3			3	2		9	\$1,695.67
TOTAL - 100% Design Phase	7	6	0	31	0	5	47	36	0	132	\$22,251.38
P. Roadway & Site Design Plans, Specifications, and Estimates (RTL PS&E)											
Roadway and Drainage for Cross River Road											
Complete RTL Alignment and Roadway layout for Cross River Road	1	1		1			2	2		7	\$1,323.12
Complete RTL Alignment and roadway Roadway profile for Cross River Road		1		1			2	4		8	\$1,211.07
Complete RTL Estimate and Quantity Sheet for Cross River Road Roadway Items	1			1			2	2		6	\$1,052.83
Complete RTL Typical Sections for Cross River Road				1			3	2		6	\$835.64
Complete RTL 3D Model for Cross River Road	1			2			3			6	\$1,210.67
Complete RTL Cross-Sections for Cross River Road		1		1		1	3	2		8	\$1,235.74
Complete RTL Storm Drainage for Cross River Road	1	1		1			3	1		7	\$1,328.99
Complete RTL Large Drainage Area Map for Cross River Road-										0	\$0.00
Complete RTL Small Drainage Area Map for Cross River Road	1	1		1			3	2		8	\$1,440.00
Complete RTL Storm Drainage Calculations Sheet for Cross River Rd.				1		1	3	2		7	\$965.45
Develop RTL Retention Basin	1	1		1		1	2	2		8	\$1,452.93
Complete RTL Estimate and Quantity Sheet for Cross River Road. Storm Drain Items				1			3	2		6	\$835.64
Complete RTL Drainage Details for Cross River Road	1			2			3	2		8	\$1,432.69
TOTAL - RTL Design Phase	7	6	0	14	0	3	32	23	0	85	\$14,324.77
Total 60%, 90%, 100%, RTL PS&E										696	\$108,660.95

CONTRACT: CRRMA 2022 IDC PRIME: Gannett Fleming, Inc. Project: Cross River Road Design											
Tasks	Project Manager	Senior Engineer	Traffic Engineer	Design Engineer	Quality Manager	Senior Designer	EIT	Senior CADD Operator	Admin Assistant 3	Total Hours	Total Cost
LABOR RATE PER HOUR	\$334.07	\$270.29	\$261.76	\$262.98	\$174.99	\$129.81	\$116.88	\$111.01	\$117.14		
TOTAL HOURS	58	42	12	117	0	26	272	274	40	841	\$143,241.35
DIRECT EXPENSES											
TOTAL - DIRECT EXPENSES											
GRAND TOTAL LABOR & DIRECT EXPENSES	64	42	12	127	0	41	287	274	40	887	\$ 143,241.35
LABOR RATE PER HOUR	\$334.07	\$270.29	\$261.76	\$262.98	\$174.99	\$129.81	\$116.88	\$111.01	\$117.14		
TOTAL LABOR COST	\$ 21,380.48	\$ 11,352.18	\$ 3,141.12	\$ 33,398.46	\$ -	\$ 5,322.21	\$ 33,544.56	\$ 30,416.74	\$ 4,685.60	\$ 143,241.35	
MANHOURS	7%	5%	1%	14%	0%	5%	32%	31%	5%	100.00%	
COST	14.93%	7.93%	2.19%	23.32%	0.00%	3.72%	23.42%	21.23%	3.27%	100.00%	

PRIME: Gannett Fleming, Inc.		
CONTRACT: CRRMA 2022 IDC		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Direct Labor	Base Rates	Loaded Rates
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Project Manager	\$ 133.74	\$ 386.83
Project Manager	\$ 115.50	\$ 334.07
Senior Engineer	\$ 93.45	\$ 270.29
Design Engineer	\$ 90.92	\$ 262.98
Project Engineer	\$ 85.87	\$ 248.37
Quality Manager	\$ 60.50	\$ 174.99
Senior Designer	\$ 44.88	\$ 129.81
EIT 3	\$ 50.51	\$ 146.10
EIT 2	\$ 45.46	\$ 131.49
EIT	\$ 40.41	\$ 116.88
Traffic Engineer	\$ 90.50	\$ 261.76
Senior Engineering Technician	\$ 44.57	\$ 128.91
Senior CADD Operator	\$ 38.38	\$ 111.01
CADD Operator	\$ 30.33	\$ 87.73
Principal Architect	\$ 110.40	\$ 319.32
Architectural Designer IV	\$ 54.90	\$ 158.79
Architectural Designer I	\$ 31.30	\$ 90.53
Public Outreach Manager	\$ 42.32	\$ 122.41
Admin Assistant 3	\$ 40.50	\$ 117.14
	Audited Overhead Rate:	158.25%
	Negotiated Profit Rate:	12.00%

CRRMA IDC 2022-2025 Contract - Formely DEC / GF

OH +Finge	OH+Fringe + Labor	Profit	Multiplier
158.25%		12%	
1.5825	2.5825	1.12	2.8924

PROJECT: Horizon City Project: Dilley, Delake, and Transit Plaza					
OTHER DIRECT EXPENSES					
Other Direct Expenses	UNITS		RATE		TOTAL
Lodging/Hotel (Taxes/fees not included)		night	96.00		\$0.00
Lodging/Hotel Taxes/fees		night	14.70		\$0.00
Meals (overnight stay required)		day	55.00		\$0.00
Rental Car (Tax/fees not included)		day	50.00		\$0.00
Rental Car Taxes/fees		day	30.00		\$0.00
Rental Car fuel		gallon	3.89		\$0.00
Mileage		mile	0.565		\$0.00
SUV or ATV Rental		day	85.00		\$0.00
Air Travel		each	650.00		\$0.00
Parking		day	25.00		\$0.00
Taxi/Cab fare		each	40.00		\$0.00
Standard Postage (Current State rate)		letter	0.55		\$0.00
Overnight express-oversized box		each	75.00		\$0.00
Courier Services		each	50.00		\$0.00
8½"X11" B/W Paper Copies		each	0.20		\$0.00
11"X17" B/W Paper Copies		each	0.45		\$0.00
8½"X11" Color Paper Copies		each	1.00		\$0.00
11"X17" Color Paper Copies		each	1.45		\$0.00
CADD Plotting		linear foot	1.55		\$0.00
Report Binding		each	10.00		\$0.00
Presentation Boards 30'x40' Color Mounted		each	100.00		\$0.00
Color Graphics on Foam Board		sq. ft.	15.00		\$0.00
Newspaper Advertisement		each	3,700.00		\$0.00
TDLR		each	1,825.00		\$0.00
Traffic Counts (24-hr Counts)		each	5,000.00		\$0.00
Other			0.00		\$0.00
Other Direct Expense Total					\$0.00

CRRMA 2022 IDC Master Contract			
PRIME: Gannett Fleming, Inc.			
OTHER DIRECT EXPENSES			
Other Direct Expenses	UNITS	RATE	TOTAL
Lodging/Hotel (Taxes/fees not included) (Current state rate)	night	Current State Rate	Current State Rate
Lodging/Hotel Taxes/fees (City/State Tax Rate + Venue tax)	night	14.70	14.70
Meals (overnight stay required) (Excluding alcohol)	day	Current State Rate	Current State Rate
Rental Car (Tax/fees not included)	day	50.00	50.00
Rental Car Taxes/fees (Current State Tax Rate)	day	30.00	30.00
Rental Car Fuel (Current rate per gallon)	gallon	3.89	3.89
Mileage (Current state rate)	mile	Current State Rate	Current State Rate
SUV or ATV Rental (6+ passengers)	day	85.00	85.00
Air Travel (Round Trip)	each	650.00	650.00
Parking	day	25.00	25.00
Taxi/Cab fare	each	40.00	40.00
Standard Postage (Current state rate)	letter	Current Postal Rate	Current Postal Rate
Overnight express-letter size	each	Current Postal Rate	Current Postal Rate
Overnight express-oversized box	each	75.00	75.00
Courier Services	each	50.00	50.00
8½"X11" B/W Paper Copies	each	0.20	0.20
11"X17" B/W Paper Copies	each	0.45	0.45
8½"X11" Color Paper Copies	each	1.00	1.00
11"X17" Color Paper Copies	each	1.45	1.45
CADD Plotting (B/W)	linear foot	1.55	1.55
Digital Ortho Plotting	linear foot	3.25	3.25
Law Enforcement/Uniform Officer (including vehicle)	hour/officer	150.00	150.00
Notebooks	each	10.00	10.00
Hazardous Materials Database Search	per search	650.00	650.00
Report Binding	each	10.00	10.00
Presentation Boards 30"X40" Color Mounted	each	100.00	100.00
Color Graphics on Foam Board	sq. ft.	15.00	15.00
Custodian for Public Involvement	event	300.00	300.00
Audio-Visual Equipment Rental (technician included)	event	650.00	650.00
Env. Field Supplies (lathes, stakes, flagging, spray paint, etc.)	day	75.00	75.00
Translator (English to Spanish)	hour	150.00	150.00
Court Reporter	hour	150.00	150.00
Newspaper Advertisement	each	3,700.00	3,700.00
Other Direct Expense Total			

PRIME: Gannett Fleming, Inc.

CRRMA

PROJECT: Horizon City Project: Additional Work for Dilley, Delake

SUBCONSULTANT: 'ICF

Project Tasks	Support Manager (KIM)	Environmental Scientist - Senior	Environmental Scientist IV (CLAUDIA)	Environmental Scientist III	Environmental Scientist I/II	Environmental Specialist - Senior	Environmental Specialist (GIS)	Technical Writer/Editor - Senior	Total Hours	Total Cost
LABOR RATE PER HOUR	\$224.00	\$210.00	\$154.00	\$123.20	\$92.40	\$201.60	\$154.00	\$98.00		
Environmental										
Task/ Scope Report										
Antiquities Permit Application and Scope	1		1			24	4	2	32	\$6,028.40
Archaeological Survey, Report, and Archive	4		8		80	180	40	12	324	\$53,144.00
Noise Analysis	2	100	16	110		24	60	12	324	\$52,718.40
Environmental Hours	7	100	25	110	80	228	104	26	680	\$111,890.80
Direct Expenses										
ITEM	QTY	UNIT	RATE							
Lodging/Hotel (Taxes/fees not included) (Current state rate)	5	night	\$ 110.00							\$ 550.00
Lodging/Hotel Taxes/fees (City/State Tax Rate + Venue tax)	5	night	\$ 14.70							\$ 73.50
Meals (overnight stay required) (Excluding alcohol)	4	day	\$ 68.00							\$ 272.00
Rental Car (Tax/fees not included)		day	\$ 50.00							\$ -
Rental Car Taxes/fees (Current State Tax Rate)	6	day	\$ 30.00							\$ 180.00
Rental Car Fuel (Current rate per gallon)	10	gallon	\$ 3.89							\$ 38.90
Mileage (Current state rate)	60	mile	\$ 0.70							\$ 42.00
SUV or ATV Rental		day	\$ 85.00							\$ -
Air Travel (Round Trip)		each	\$ 650.00							\$ -
Parking	4	day	\$ 25.00							\$ 100.00
Standard Postage (Current state rate)		letter	\$ 0.73							\$ -
8½"X11" Color Paper Copies		each	\$ 1.00							\$ -
11"X17" Color Paper Copies		each	\$ 1.25							\$ -
Archaeological Curation	1	each	\$ 2,500.00							\$ 2,500.00
Backhoe Rental	3	day	\$ 1,200.00							\$ 3,600.00
Environmental Supplies	4	each	\$ 50.00							\$ 200.00
TOTAL - Direct Expenses										\$ 7,556.40
GRAND TOTAL	7	100	25	110	80	228	104	26	680	\$ 119,447.20
LABOR RATE PER HOUR	\$224.00	\$210.00	\$154.00	\$123.20	\$92.40	\$201.60	\$154.00	\$98.00		
TOTAL LABOR COST	\$ 1,568.00	\$ 21,000.00	\$ 3,850.00	\$ 13,552.00	\$ 7,392.00	\$ 45,964.80	\$ 16,016.00	\$ 2,548.00	\$ 111,890.80	
MANHOURS	1.03%	14.71%	3.68%	16.18%	11.76%	33.53%	15.29%	3.82%	100.00%	
COST	1.40%	18.77%	3.44%	12.11%	6.61%	41.08%	14.31%	2.28%	100.00%	

CRRMA 2022 IDC - Approved Rates for :		
Blanton & Associates, Inc.		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Support Manager	\$ 224.00	\$ 224.00
Environmental Scientist - Senior	\$ 210.00	\$ 210.00
Environmental Scientist IV	\$ 154.00	\$ 154.00
Environmental Scientist III	\$ 123.20	\$ 123.20
Environmental Specialist - Senior	\$ 201.60	\$ 201.60
Environmental Specialist	\$ 154.00	\$ 154.00
Field Technician (Environmental, Biological, Archeological) - Senior	\$ 110.57	\$ 110.57
Technical Writer/Editor - Senior	\$ 98.00	\$ 98.00
Administrative/Clerical	\$ 84.00	\$ 84.00
Audited Overhead Rate:	0.00%	
Negotiated Profit Rate:	0.00%	

PRIME: Gannett Fleming, Inc.													
CRRMA													
PROJECT: Horizon City Project: Dilley, Delake Supplemental No. 1													
SUBCONSULTANT: Frank X. Spencer & Associates, Inc.													
Project Tasks	Project Manager	CADD Operator	Senior Utility Coordinator	GIS Tech	GIS Specialist	Survey Project Manager	Registered Professional Land Surveyor	Sr. Survey Technician	Survey Technician	2-Man Survey Crew	Admin / Clerical (Surv)	Total Hours	Total Cost
LABOR RATE PER HOUR	\$207.24	\$98.79	\$201.50	\$86.36	\$122.35	\$165.03	\$236.76	\$129.53	\$110.76	\$188.59	\$64.78		
Surveying													
Task/ Scope Report													
1. Coordination													
Project Planning and Coordination						0.25	0.25		0.25	0.25		0	\$0.00
Conduct Pre-Survey Meeting with Client and FXSA Staff						0.5	0.5		0.5			1	\$175.29
2. Project Control													
Establish two (2) Horizontal and Vertical Control Points, Horizontal: NAD83 (2011) Epoch 2010, TXSP Central, US Survey Feet, Vertical: NAVD88, Geoid 18, US Survey Feet							0.5		0.5	2		3	\$550.94
Establish five (5) Aerial Control for LIDAR and Ortho Imagery							0.5		0.5	2		3	\$550.94
3. Right of Entry													
Provided by Client												0	\$0.00
4. Record Search													
FXSA will retrieve and review all relevant documentation, including deeds, subdivision plats, prior survey records, easements, and right-of-way maps.							0.5	0.5	2		0.5	4	\$437.06
Review documents							0.5	0.5	2		0.5	4	\$437.06
5. Working Sketch													
Prepare Working (Deed) Sketch of Project Area							0.5		2			3	\$339.90
6. Boundary Survey													
Recon. survey of property location. Search for property corners, ROW and subdivision boundary.							1		1	4		6	\$1,101.88
7. Field Survey													
Submit a utility location request, for the project area. (TX 811)						0.5			0.5			1	\$137.90
Acquisition and processing of Survey Data via Lidar and Photogrammetric Methods				0.25	0.25	1		1	8	2		13	\$1,610.00
8. Mapping and Descriptions (Deliverables)													
Prepare Topo/Planimetric Drawings and Deliverables							2		12			14	\$1,802.64
Prepare Survey Plats and Metes and Bounds Descriptions							2		12			14	\$1,802.64
SUE QL D-A Planning and Coordination													
Planning & Coordination												0	\$0.00
Tools and Materials												0	\$0.00
Texas 811 Coordination			1									1	\$201.50
Subsurface Utility Engineering Services (SUE)													
(Map Review) Conduct QL 'D'	0.5	2	0.5									3	\$401.95
(2000LF per Day) Conduct QL 'C'	0.5	2	0.5									5	\$779.13
(8 Locations) Conduct QL 'B'										2		2	\$377.18
Conduct QL 'A' Pot Holes 0' - 5'												0	\$0.00
Conduct QL 'A' Pot Holes >5' - 8'												0	\$0.00
Conduct QL 'A' Pot Holes > 8' - 13'												0	\$0.00
Planning Meeting and Coordination with Client												0	\$0.00
Deliverables in Auto Cad (Version 18) & Flash Drive													
(SUE Level D, C, B & A) Prepare Final Utility Map (Project Limits)	0.5	4	1									6	\$700.28
(8 Data Sheets) Prepare individual Pothole Data Sheets												0	\$0.00
Deliver the Final Utility Map to Client												0	\$0.00
QC/QA												0	\$0.00
TOTAL HOURS	2	8	3	0	0	2	8	2	41	14	1	82	\$11,662.54
Direct Expenses													
ITEM	QTY	UNIT	RATE										
8 1/2" X 11" B/W Paper Copies	10	each	\$ 0.15										\$ 1.50
11" X 17" B/W Paper Copies	5	each	\$ 0.25										\$ 1.25
8 1/2" X 11" Color Paper Copies	10	each	\$ 1.00										\$ 10.00
11" X 17" Color Paper Copies	5	each	\$ 1.25										\$ 6.25
Construction Truck 4x4 (Includes operation and maintenance costs; Insurance costs will not be reimbursed)	1	day	\$ 125.00										\$ 125.00
PPE (Protective Equipment)	1	each	\$ 250.00										\$ 250.00
Field Services: Two (2) Designating Person with equipment	2	each	\$ 198.00										\$ 396.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: 0 to 5 ft.		each	\$ 1,275.00										\$ -
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 5 to 8 ft.		each	\$ 1,820.00										\$ -
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 8 to 13 ft.		each	\$ 2,300.00										\$ -
Level B (Designation). Includes labor and equipment for records research, designation, engineering, surveying, and CADD.		LF	\$ 1.92										\$ -
Level C and D. Includes labor and equipment for records research, CADD, and mapping.	500	LF	\$ 0.82										\$ 410.00
TOTAL - Direct Expenses													\$ 1,200.00
GRAND TOTAL (including Direct Expenses)	2	8	3	0	0	2	8	2	41	14	1	82	\$ 12,862.54
LABOR RATE PER HOUR	\$207.24	\$98.79	\$201.50	\$86.36	\$122.35	\$165.03	\$236.76	\$129.53	\$110.76	\$188.59	\$64.78		
TOTAL LABOR COST	\$ 310.86	\$ 790.32	\$ 604.50	\$ 21.59	\$ 30.59	\$ 371.32	\$ 1,953.27	\$ 259.06	\$ 4,568.85	\$ 2,687.41	\$ 64.78	\$ 11,662.54	
MANHOURS	1.83%	9.76%	3.66%	0.30%	0.30%	2.74%	10.06%	2.44%	50.30%	17.38%	1.22%	100.00%	
COST	2.67%	6.78%	5.18%	0.19%	0.28%	3.18%	16.75%	2.22%	39.18%	23.04%	0.56%	100.00%	

CRRMA 2022 IDC - Approved Rates for :			
Frank X. Spencer & Associates, Inc.			
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS			
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate	
Principal	\$ 108.05	\$	323.45
Senior Project Manager	\$ 88.64	\$	265.35
Project Manager	\$ 69.23	\$	207.24
Senior Engineer	\$ 64.90	\$	194.28
Project Engineer	\$ 57.45	\$	171.98
Design Engineer	\$ 57.45	\$	171.98
EIT	\$ 57.45	\$	171.98
EIT 2	\$ 43.29	\$	129.59
EIT 3	\$ 33.65	\$	100.73
Senior Engineering Technician	\$ 48.08	\$	143.93
Engineering Technician	\$ 48.08	\$	143.93
Senior CADD Operator	\$ 37.00	\$	110.76
CADD Operator	\$ 33.00	\$	98.79
Utility Engineer	\$ 64.90	\$	194.28
Senior Utility Coordinator	\$ 67.31	\$	201.50
Utilities Coordinator	\$ 50.00	\$	149.68
Utilities Field Inspector	\$ 48.08	\$	143.93
Construction Manager	\$ 50.00	\$	149.68
Admin / Clerical (Eng)	\$ 21.64	\$	64.77
Sr. GIS Operator	\$ 48.08	\$	143.93
GIS Operator	\$ 28.85	\$	86.36
Sr. GIS Tech	\$ 40.87	\$	122.35
GIS Tech	\$ 28.85	\$	86.36
GIS Specialist	\$ 40.87	\$	122.35
Survey Project Manager	\$ 55.13	\$	165.03
Registered Professional Land Surveyor	\$ 79.09	\$	236.76
Sr. Survey Technician	\$ 43.27	\$	129.53
Survey Technician	\$ 37.00	\$	110.76
Survey Technician - GPS	\$ 38.00	\$	113.75
1-man Survey Crew	\$ 37.00	\$	110.76
2-Man Survey Crew	\$ 63.00	\$	188.59
3-man Survey Crew	\$ 79.00	\$	236.49
4-man Survey Crew	\$ 105.00	\$	314.32
Flagger	\$ 17.00	\$	50.89
Admin / Clerical (Surv)	\$ 21.64	\$	64.78
Audited Overhead Rate:	172.14%		
Negotiated Profit Rate:	10.00%		

PROJECT: CRRMA 2022 IDC Master Contract

Frank X. Spencer & Associates, Inc.

OTHER DIRECT EXPENSES

Other Direct Expenses	UNITS	RATE
Lodging/Hotel (Taxes/fees not included) (Current state rate)	night	Current State Rate
Lodging/Hotel Taxes/fees (City/State Tax Rate + Venue tax)	night	14.70
Meals (overnight stay required) (Excluding alcohol)	day	Current State Rate
Rental Car (Tax/fees not included)	day	50.00
Rental Car Taxes/fees (Current State Tax Rate)	day	30.00
Rental Car Fuel (Current rate per gallon)	gallon	3.89
Mileage (Current state rate)	mile	Current State Rate
SUV or ATV Rental (6+ passengers)	day	85.00
Air Travel (Round Trip)	each	650.00
Parking	day	25.00
Taxi/Cab fare	each	40.00
Standard Postage (Current state rate)	letter	Current Postal Rate
Overnight express-letter size	each	Current Postal Rate
Overnight express-oversized box	each	38.00
Courier Services	each	45.00
8½"X11" B/W Paper Copies	each	0.15
11"X17" B/W Paper Copies	each	0.25
8½"X11" Color Paper Copies	each	1.00
11"X17" Color Paper Copies	each	1.25
CADD Plotting (B/W)	linear foot	1.30
Digital Ortho Plotting	linear foot	3.25
Law Enforcement/Uniform Officer <i>(including vehicle)</i>	hour/officer	150.00
Notebooks	each	10.00
Cellular Telephone & Data Plan	each/month	90.00
Computer/Laptop/Tablet rental and data plan	each/month	60.00
Construction Truck (Includes operation, and maintenance costs; Insurance costs will not be reimbursed)	month	1,700.00
Construction Truck (Includes operation, and maintenance costs; Insurance costs will not be reimbursed)	day	125.00
Construction Truck 4X4 (Includes operation and maintenance costs; Insurance costs will not be reimbursed)	month	1,900.00
Construction Truck 4x4 (Includes operation and maintenance costs; Insurance costs will not be reimbursed)	day	125.00
PPE (Protective Equipment)	each	250.00
Field Services: One (1) Designating Person with equipment	hour	175.00
Field Services: Two (2) Designating Person with equipment	each	198.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: 0 to 5 ft.	each	1,275.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 5 to 8 ft.	each	1,820.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 8 to 13 ft.	each	2,300.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 13 to 20 ft.	each	2,700.00
Level A (Location, Test Holes). Includes labor and equipment for vacuum excavation, engineering, surveying, and CADD: Level A: > 20 ft.	LF	250.00
Level B (Designation). Includes labor and equipment for records research, designating, engineering, surveying, and CADD.	LF	1.92
Level C and D. Includes labor and equipment for records research, CADD, and mapping.	LF	0.82

CRRMA

PROJECT: Horizon City Project: Dilley, Delake, and Transit Plaza

SUBCONSULTANT: HVJ Associates, Inc.

Project Tasks	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer-In-Training I	Engineer Technician	Administrative/ Clerical	Total Hours	Total Cost
LABOR RATE PER HOUR	\$269.36	\$221.80	\$164.79	\$119.47	\$108.76	\$98.87		
Soil /Geotechnical & Foundation Studies (HVJ Associates, Inc)								
Task/ Scope Report								
Project Initiation, Boring Layout, and Set Up Field Work		1		2		1	4	\$559.61
Utilities Clearance and Field Coordination for staking the soil borings				3	5		8	\$902.21
Borehole Logging				2	14		16	\$1,761.58
Review field boring logs and assign lab tests		2		3			5	\$802.01
Review lab test data and perform QA/QC		1		2			3	\$460.74
Input lab test data, edit and prepare final Boring Logs	1	1		3		1	6	\$948.44
Slope Stability Analyses and Recommendations	4	9		20			33	\$5,463.04
Project Meetings		4					4	\$887.20
GEOTECHNICAL REPORT - Draft	2	6		10		4	22	\$3,459.70
GEOTECHNICAL REPORT - Final	2	4		9		3	18	\$2,797.76
							0	\$0.00
Total - Soil /Geotechnical & Foundation Studies	9	28	0	54	19	9	119	\$18,042.29

CRRMA

PROJECT: Horizon City Project: Dilley, Delake, and Transit Plaza

SUBCONSULTANT: HVJ Associates, Inc.

Project Tasks	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer-In-Training I	Engineer Technician	Administrative/ Clerical	Total Hours	Total Cost
LABOR RATE PER HOUR	\$269.36	\$221.80	\$164.79	\$119.47	\$108.76	\$98.87		
Pavement Design Engineering (HVJ - SCTx - M&J Inc.)								
Data Collection and Traffic Data Reduction for ESALS							0	\$0.00
Determining Subgrade Materials Strength FROM USDA SOILS MAP AND GEO DATA							0	\$0.00
Pavement Engineering Analysis							0	\$0.00
PAVEMENT DESIGN DRAFT REPORT							0	\$0.00
PAVEMENT DESIGN FINAL SEALED REPORT							0	\$0.00
							0	\$0.00
TOTAL - Pavement Design Engineering	0	0	0	0	0	0	0	\$0.00
TOTAL HOURS	9	28	0	54	19	9	119	\$18,042.29
Direct Expenses								
ITEM	QTY	UNIT	RATE					TOTAL
Lodging/Hotel (Taxes/fees not included) (Current state rate)		night	\$110.00					\$0.00
Lodging/Hotel Taxes/fees (City/State Tax Rate + Venue tax)		night	\$14.70					\$0.00
Meals (overnight stay required) (Excluding alcohol)		day	\$68.00					\$0.00
Mileage (Current state rate)	140	mile	\$0.68					\$95.20
Mobilization and Demobilization of Drilling Rig (Trips within 100 miles from office to site)	1	trip	\$600.00					\$600.00
Determining Moisture Content in Soil Materials	9	each	\$17.60					\$158.40
Determining Liquid Limits of Soils	9	each	\$41.80					\$376.20
Determining Plastic Soil Limits	9	each	\$41.80					\$376.20
Calculating the Plasticity Index of Soils	9	each	\$16.50					\$148.50
Particle Size Analysis of Soils With hydrometer	4	each	\$220.00					\$880.00
Determining the Amount of Material in Soils Finer than the 75 micrometer (No. 200) Sieve	7	each	\$66.00					\$462.00
Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade, Embankment Soils, and Backfill Material		each	\$330.00					\$0.00
Determining Sulfate Content in Soils - Colorimetric Method		each	\$150.00					\$0.00
Borehole Grouting - Bentonite Chips	0	LF	\$14.00					\$0.00
Unconfined Compressive Strength (Soil)	8	each	\$77.00					\$616.00
Consolidated Undrained (CU) Triaxial Compression Test for Undisturbed Soils- Multiple Change	1	set of 3	\$1,760.00					\$1,760.00
Direct Shear Test of Soils Under Consolidated Drained Conditions	2	set of 3	\$920.00					\$1,840.00
Soil Boring/Rock Coring without TCP (< 60 ft.)	70	LF	\$39.60					\$2,772.00
			\$0.00					\$0.00
TOTAL - Direct Expenses								\$10,084.50

CRRMA

PROJECT: Horizon City Project: Dilley, Delake, and Transit Plaza

SUBCONSULTANT: HVJ Associates, Inc.

Project Tasks	Engineer (Senior)	Engineer (Project)	Engineer (Design)	Engineer-In-Training I	Engineer Technician	Administrative/ Clerical	Total Hours	Total Cost
LABOR RATE PER HOUR	\$269.36	\$221.80	\$164.79	\$119.47	\$108.76	\$98.87		
GRAND TOTAL	9	28	0	54	19	9	119	\$ 28,126.79
LABOR RATE PER HOUR	\$269.36	\$221.80	\$164.79	\$119.47	\$108.76	\$98.87		
TOTAL LABOR COST	\$ 2,424.24	\$ 6,210.40	\$ -	\$ 6,451.38	\$ 2,066.44	\$ 889.83	\$ 18,042.29	
MANHOURS	7.56%	23.53%	0.00%	45.38%	15.97%	7.56%	100.00%	
COST	13.44%	34.42%	0.00%	35.76%	11.45%	4.93%	100.00%	

CRRMA 2022 IDC - Approved Rates for :			
HVJ ASSOCIATES, INC.			
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS			
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification		Negotiated Hourly Base Rate	Contract Rate
Engineer (Senior)		\$ 81.73	\$ 269.36
Engineer (Project)		\$ 67.30	\$ 221.80
Engineer (Design)		\$ 50.00	\$ 164.79
Engineer-In-Training I		\$ 36.25	\$ 119.47
Engineer Technician		\$ 33.00	\$ 108.76
Administrative/Clerical		\$ 30.00	\$ 98.87
Audited Overhead Rate:	199.61%		
Negotiated Profit Rate:	10.00%		

PROJECT: CRRMA 2022 IDC Master Contract		
HVJ ASSOCIATES, INC.		
OTHER DIRECT EXPENSES		
Other Direct Expenses	UNITS	RATE
Lodging/Hotel (Taxes/fees not included) (Current state rate)	night	Current State Rate
Lodging/Hotel Taxes/fees (City/State Tax Rate + Venue tax)	night	14.70
Meals (overnight stay required) (Excluding alcohol)	day	Current State Rate
Rental Car (Tax/fees not included)	day	50.00
Rental Car Taxes/fees (Current State Tax Rate)	day	30.00
Rental Car Fuel (Current rate per gallon)	gallon	3.89
Mileage (Current state rate)	mile	Current State Rate
SUV or ATV Rental (6+ passengers)	day	85.00
Air Travel (Round Trip)	each	650.00
Parking	day	25.00
Taxi/Cab fare	each	40.00
8½"X11" B/W Paper Copies	each	0.15
11"X17" B/W Paper Copies	each	0.25
8½"X11" Color Paper Copies	each	1.00
11"X17" Color Paper Copies	each	1.25
CADD Plotting (B/W)	linear foot	1.30
Geotechnical / Materials		
Hot Mix Asphalt Testing Equipment Monthly Rental - Required equipment must meet or exceed applicable TxDOT specifications. Required equipment includes (1 ea) ignition oven, (1 ea) scales, (1 ea) 8" shaker, (1 set) 8" sieves, (1 ea) splitter, (1 ea) hot ovens, (1 ea) vibrating table and bucket, (1 ea) vacuum pump, and (1 ea) Texas Gyrotory Press. All component parts, consumables, and required maintenance are considered subsidiary to this item.	month	\$ 750.00
HMAC Testing Equipment Mobilizations < 150 Miles	each project	\$ 1,000.00
HMAC Testing Equipment Mobilizations > 150 Miles	per mile	\$ 7.00
Mobilization and Demobilization of Non Destructive Deflection Testing (Trips within 100 miles from office to site)	each	\$ 500.00
Mobilization and Demobilization of Non Destructive Deflection Testing (Trips over 100 miles from office to site)	mile	\$ 5.00
Mobilization of ATV Buggy / Track Drilling Equipment less 100 mile	each	\$ 1,800.00
Mobilization of ATV Buggy / Track Drilling Equipment more than 100 mile	mile	\$ 18.00
ATV Surcharge (for rig installed on ATV)	LF	\$ 5.00
Stand By of Drilling Equipment	hour	\$ 350.00
Mobilization and Demobilization of Drilling Rig (Trips within 100 miles from office to site)	trip	\$ 600.00
Mobilization and Demobilization of Drilling Rig (Trips over 100 miles from office to site)	mile	\$ 6.00
Mobilization of coring equipment used to drill flexible and rigid pavement (2-man crew minimum, Labor paid separately)(less 100 miles)	trip	\$ 600.00
Mobilization of coring equipment used to drill flexible and rigid pavement (2-man crew minimum, Labor paid separately)(over 100 miles)	mile	\$ 6.00
Shelby Tubes Transportation Box	per box	\$ 175.00
UC - Materials Testing		
Determining Slaking Time	each	\$ 125.00
Determining Moisture Content in Soil Materials	each	\$ 17.60
Determining Liquid Limits of Soils	each	\$ 41.80
Determining Plastic Soil Limits	each	\$ 41.80
Calculating the Plasticity Index of Soils	each	\$ 16.50
Determining the Bar Linear Shrinkage of Soils	each	\$ 44.00
Determining the Specific Gravity of Soils	each	\$ 66.00
Particle Size Analysis of Soils	each	\$ 130.00
Particle Size Analysis of Soils With hydrometer		\$ 220.00
Determining the Amount of Material in Soils Finer than the 75 micrometer (No. 200) Sieve	each	\$ 66.00
Admixing Lime to Reduce Plasticity Index of Soils	each	\$ 247.50
Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials	each	\$ 330.00
Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade, Embankment Soils, and Backfill Material	each	\$ 330.00
Ball Mill Method for Determining the Disintegration of Flexible Base Material	each	\$ 300.00

PROJECT: CRRMA 2022 IDC Master Contract		
HVJ ASSOCIATES, INC.		
OTHER DIRECT EXPENSES		
Other Direct Expenses	UNITS	RATE
Triaxial Compression for Disturbed Soils and Base Materials	each	\$ 1,870.00
Triaxial Compression Test for Undisturbed Soils	each	\$ 137.50
Soil-Cement Testing- Part 1	each	\$ 575.00
Soil-Cement Testing- Part 2	each	\$ 475.00
Soil-Lime Testing- Part 1	each	\$ 550.00
Soil-Lime Testing- Part 2	each	\$ 450.00
Soil-Lime Testing - Part 3	each	\$ 330.00
Determining the Drainage Factor of Soil Materials	each	\$ 264.00
Potential Vertical Rise of Natural Subgrade Soils	each	\$ 132.00
Determining Modulus of Sub-grade Reaction (K Value)	each	\$ 165.00
Molding, Testing, and Evaluating Asphalt Black Base Materials	each	\$ 2,090.00
Lime Fly-Ash Compressive Strength Test Methods- Part 1	each	\$ 275.00
Lime Fly-Ash Compressive Strength Test Methods- Part 2	each	\$ 275.00
Determining Soil pH	each	\$ 55.00
Measuring the Resistivity of Soil Materials	each	\$ 143.00
Consolidated Undrained (CU) Triaxial Compression Test for Undisturbed Soils- Single Stage	set of 3	\$ 1,980.00
Consolidated Undrained (CU) Triaxial Compression Test for Undisturbed Soils- Multiple Change	set of 3	\$ 1,760.00
Texas Cone Penetration	each	\$ 44.00
Freezing and Thawing Tests of Compacted Soil-Cement Mixture	each	\$ 440.00
Manual Procedure for Description and Identification of Soils	each	\$ 55.00
Laboratory Classification of Soils for Engineering Purposes	each	\$ 82.50
Determining Sulfate Content in Soils - Colorimetric Method	each	\$ 150.00
Conductivity Test for Field Detection of Sulfates in Soil	each	\$ 77.00
Determining Chloride and Sulfate Contents in Soils	each	\$ 154.00
Asphalt Tests		
Sampling Bituminous Materials, Pre-Molded Joint Fillers, and Joint Sealers	each	\$ 71.50
Test Methods for Various Bituminous Materials/Water in Petroleum Products and Bituminous Materials by Distillation	each	\$ 121.00
Penetration of Bituminous Materials	each	\$ 99.00
Ductility of Asphalt Materials	each	\$ 125.00
Flash and Fire Points by Cleveland Open Cup	each	\$ 88.00
Softening Point of Bitumen (Ring and Ball Apparatus)	each	\$ 115.50
Solubility of Bituminous Materials	each	\$ 126.50
Specific Gravity of Semi-Solid Asphalt Materials	each	\$ 88.00
Spot Test of Asphaltic Materials	each	\$ 176.00
Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	each	\$ 82.50
Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93°C (200°F)	each	\$ 77.00
Saybolt Viscosity	each	\$ 104.50
Specific Gravity for Cutbacks and Emulsions	each	\$ 82.50
Distillation of Cutback Asphalt Products	each	\$ 99.00
Float Test for Bituminous Materials	each	\$ 82.50
Viscosity of Asphalts by Vacuum Capillary Viscometer	each	\$ 90.00
Kinematic Viscosity of Asphalts (Bitumens)	each	\$ 132.00
Calculating Viscosity from Penetration	each	\$ 92.00
Measurement of Elastic Recovery of Tensile Deformation Using a Ductilometer	each	\$ 85.80
Measurement of Polymer Separation on Heating in Modified Asphalt Systems	each	\$ 88.00
Rolling Thin Film Oven Test for Asphalt Binders	each	\$ 93.50
Determining Breaking Index for Asphalt Emulsions	each	\$ 99.00
Resilience Test for Sealants and Repair Materials	each	\$ 121.00
Tensile Strain to Failure	each	\$ 104.50
Cone Flow Test	each	\$ 71.50
Flexibility Test for Sealants and Repair Materials	each	\$ 93.50

PROJECT: CRRMA 2022 IDC Master Contract		
HVJ ASSOCIATES, INC.		
OTHER DIRECT EXPENSES		
Other Direct Expenses	UNITS	RATE
Bituminous Tests		
Sieve Analysis of Fine and Coarse Aggregate	each	\$ 93.50
Bulk Specific Gravity and Water Absorption of Aggregate	each	\$ 82.50
Apparent Specific Gravity of Material Finer than No. 50 (300 micrometer) Sieve	each	\$ 77.00
Sand Equivalent Test	each	\$ 104.50
Design of Bituminous Mixtures	each	\$ 880.00
Laboratory Method of Mixing Bituminous Mixtures	set of 3	\$ 88.00
Compacting Specimens Using the Texas Gyro Compactor (TGC)	set of 3	\$ 66.00
Bulk Specific Gravity of Compacted Bituminous Mixtures	each	\$ 66.00
Determining Mat Segregation Using a Density-Testing Gauge	each	\$ 60.50
Bulk Specific Gravity of Compacted Bituminous Mixtures using the Vacuum Method	each	\$ 93.50
Determining Density of Permeable Friction Course (PFC) and Thin Bonded Wearing Course (TBWC) Mixtures	each	\$ 77.00
Test for Stabilometer Value of Bituminous Mixtures	set of 3	\$ 99.00
Determining Asphalt Content of Bituminous Mixtures by Extraction	each	\$ 148.50
Recovery of Asphalt from Bituminous Mixtures by the Abson Process	each	\$ 121.00
Determining Hydrocarbon-Volatile Content of Bituminous Mixtures	each	\$ 71.50
Determining Deleterious Material and Decantation Test for Coarse Aggregates (Bituminous Mixtures)	each	\$ 93.50
Determining Flakiness Index	each	\$ 99.00
Indirect Tensile Strength Test	set of 4	\$ 72.60
Theoretical Maximum Specific Gravity of Bituminous Mixtures	each	\$ 110.00

PROJECT: CRRMA 2022 IDC Master Contract		
HVJ ASSOCIATES, INC.		
OTHER DIRECT EXPENSES		
Other Direct Expenses	UNITS	RATE
Determining Asphalt Content of Bituminous Mixtures by the Nuclear Method	each	\$ 121.00
Combined Bituminous Mixture Cold-Belt Sampling and Testing Procedure	each	\$ 71.50
Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method	each	\$ 176.00
Asphalt Release Agents	each	\$ 71.50
Compacting Bituminous Specimens Using the Superpave Gyrotory Compactor (SGC)	set of 2	\$ 66.00
Hamburg Wheel-Tracking Test	each	\$ 495.00
Tack Coat Adhesion	each	\$ 66.00
Thermal Profile of Hot Mix Asphalt	each	\$ 148.50
Cantabro Loss	each	\$ 220.00
Permeability or Water Flow of Hot Mix Asphalt	each	\$ 132.00
Overlay Test	set of 3	\$ 104.50
Determining Flat and Elongated Particles	each	\$ 99.00
Concrete & Aggregate Tests		
Compressive Strength of Cement Mortars	set of 3	\$ 66.00
Sieve Analysis of Fine and Coarse Aggregate	each	\$ 93.50
Fineness Modulus of Fine Aggregate	each	\$ 44.00
Saturated Surface-Dry Specific Gravity and Absorption of Aggregates	each	\$ 82.50
Determining Unit Mass (Weight) of Aggregates	each	\$ 49.50
Determining the Percent of Solids and Voids in Concrete	each	\$ 44.00
Material Finer than 75 micrometer (No. 200) Sieve in Mineral Aggregates (Decantation Test for Concrete Aggregates)	each	\$ 88.00
Organic Impurities in Fine Aggregate for Concrete	each	\$ 77.00
Free Moisture and Water Absorption in Aggregate for Concrete	each	\$ 71.50
Abrasion of Coarse Aggregate Using the Los Angeles Machine	each	\$ 209.00
Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate	each	\$ 440.00
Determining Deleterious Material in Mineral Aggregate	each	\$ 88.00
Unit Weight, Yield, and Air Content (Gravimetric) of Concrete	each	\$ 44.00
Compressive Strength of Cylindrical Concrete Specimens	each	\$ 28.60
Determining Concrete Thickness by Direct Measurement	each	\$ 27.50
Obtaining and Testing Drilled Cores of Concrete	each	\$ 242.00
Absorption and Dry Bulk Specific Gravity of Lightweight Coarse Aggregate	each	\$ 77.00
Measuring Texture Depth by the Sand Patch Method	each	\$ 71.50
Test Flow of Grout Mixtures (Flow Cone Method)	each	\$ 49.50
Accelerated Polish Test for Coarse Aggregate - Single-Component Aggregate	each	\$ 242.00
Capping Cylindrical Concrete Specimens	each	\$ 22.00

PRIME: Gannett Fleming, Inc.								
CRRMA								
PROJECT: Horizon City Project: Cross River Rd. Landscape								
SUBCONSULTANT: Sites Southwest, Inc.								
Project Tasks	Senior Landscape Architect / Planner	Landscape Architect / Planner	GIS Specialist	Irrigation Designer	Landscape Designer 1	Admin Assistant 3	Total Hours	Total Cost
LABOR RATE PER HOUR	\$147.00	\$139.00	\$80.00	\$78.00	\$63.00	\$55.00		
Landscape, Green Infrastructure & Irrigation Tasks								
Pre-Design Report Phase								
Preliminary Concept Graphics		3					3	\$417.00
Final Concept Graphics		2					2	\$278.00
Plant Palette Investigation and Graphics		2					2	\$278.00
Design Schematics Presentation Graphics for Informational Meetings		2					2	\$278.00
Informational Meeting Attendance for Design Schematics (2 meetings)		2					2	\$278.00
							0	\$0.00
Total Hours - Pre-Design Report Phase	0	11	0	0	0	0	11	\$1,529.00
PS&E Design (60 %)								
Landscape Construction Plans		4					4	\$556.00
Planting Plans		4					4	\$556.00
Irrigation Plans		4					4	\$556.00
Notes and Details		2					2	\$278.00
Cost Projection		1					1	\$139.00
Bi-weekly meetings							0	\$0.00
							0	\$0.00
Total Hours - PS&E Design (60 %)	0	15	0	0	0	0	15	\$2,085.00
PS&E Design (90 %)								
Landscape Construction Plans		4					4	\$556.00
Planting Plans		4					4	\$556.00
Irrigation Plans		4					4	\$556.00
Notes and Details		1					1	\$139.00
Specifications		1					1	\$139.00
Cost Projection		1					1	\$139.00
Bi-weekly meetings							0	\$0.00
							0	\$0.00
Total Hours - PS&E Design (90 %)	0	15	0	0	0	0	15	\$2,085.00
PS&E Design (100 %)								
Landscape Construction Plans		3					3	\$417.00
Planting Plans		3					3	\$417.00
Irrigation Plans		3					3	\$417.00
Notes and Details		1					1	\$139.00
Specifications		1					1	\$139.00
Cost Projection		1				1	2	\$194.00
Bi-weekly meetings							0	\$0.00
							0	\$0.00
Total Hours - PS&E Design (100 %)	0	12	0	0	0	1	13	\$1,723.00
Bidding Services Phase								
Answer Prospective Bidder's Questions		1					1	\$139.00
Pre-Bid and Pre-Construction Meetings (2)		2					2	\$278.00
Prepare Addenda		1				1	2	\$194.00
							0	\$0.00
TOTAL - Bid Phase	0	4	0	0	0	1	5	\$611.00
TOTAL HOURS	0	57	0	0	0	2	59	\$8,033.00
Direct Expenses								
ITEM	QTY	UNIT	RATE					
Mileage (Current state rate)	90	mile	\$ 0.67					\$ 60.30
			\$ -					\$ -
TOTAL - Direct Expenses								\$ 60.30
GRAND TOTAL	0	15	0	0	0	1	16	\$ 8,093.30
LABOR RATE PER HOUR	\$147.00	\$139.00	\$80.00	\$78.00	\$63.00	\$55.00		
TOTAL LABOR COST	\$ -	\$ 2,085.00	\$ -	\$ -	\$ -	\$ 55.00	\$ 2,140.00	
MANHOURS	0.00%	93.75%	0.00%	0.00%	0.00%	6.25%	100.00%	
COST	0.00%	97.43%	0.00%	0.00%	0.00%	2.57%	100.00%	

CRRMA 2022 IDC - Approved Rates for :		
Sites Southwest, Inc.		
LUMP SUM, UNIT COST AND/OR SPECIFIED RATE PAYMENT BASIS		
Lump Sum, Unit Cost and/or Specified Rate Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate
Senior Landscape Architech / Planner	\$ 147.00	\$ 147.00
Landscape Architect / Planner	\$ 139.00	\$ 139.00
GIS Specialist	\$ 80.00	\$ 80.00
Irrigation Designer	\$ 78.00	\$ 78.00
Landscape Designer 1	\$ 63.00	\$ 63.00
Admin Assistant 3	\$ 55.00	\$ 55.00