

EXHIBIT “F”
HIDALGO COUNTY
Professional Engineering Services
Agreement # C-22-0468-08-18

WORK AUTHORIZATION NO.2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-22-0468-08-18, incorporated herein by reference, for the “**Trenton Roadway Improvements (From US 281(I-69C) to FM 907 (Alamo Rd.)**” made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the “**Owner,**” and **TEDSI Infrastructure Group, Inc.,** hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide ROW acquisitions, ROW mapping, PSE development, utility coordination, and construction management services.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A”** – “*Scope of Services to be provided by Engineer*” attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$3,240,972.00**. This amount is based upon the costs outlined in the **Attachment “B”** – “*Fee Proposal*” attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services Agreement No. C-22-0468-08-18** between the **Owner** and the **Engineer**.

PART 4. FUNDING

This Work Authorization No.1 shall be funded through funding source:
Account No. _____

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of the scopes of the Work Authorization, within the limits of Agreement No. C-22-0468-08-18, provided in this Work Authorization; or on (_____ DATE _____).** *If applicable:* Engineer shall conform to the approved “Work/Project Schedule”, attached hereto and incorporated by reference herein as **Attachment “C”**.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties’ responsibilities and obligations provided under the **Agreement No. C-22-0468-08-18**

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

APPROVED BY COMMISSIONERS’ COURT ON NOVEMBER 25TH, 2025.

Agenda Item No. 101562

Executive Office: _____

ENGINEER:

TEDSI Infrastructure Group, Inc.

COUNTY:

COUNTY OF HIDALGO

Jessie Salinas, CEO/ President

Hon. Richard F. Cortez, County Judge

ATTEST:

Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:

Attachment “A” – *Scope of Services to be provided by Engineer*

Attachment “B” – *Fee Proposal*

Attachment “C” – *Approved Work/Project Schedule (If applicable)*

ATTACHMENT “A”
SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

The following provides an outline of the services to be provided by the **Owner** in the development of the PS&E for the necessary improvements for the Trenton Road project, located within Hidalgo County, hereinafter denoted as the **Project**.

GENERAL:

The **Owner** will provide to the **Engineer** the following:

- 1) Provide the authorization to proceed with services through coordination with the **Engineer**.
- 2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with the Agreement.
- 3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the **Engineer** cannot easily obtain.
- 4) Provide any available relevant data the **Owner** may have on file concerning the **Project** including existing engineering documents or survey data.
- 5) Provide timely review and decisions in response to the **Engineer’s** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain the agreed upon work schedule prepared in accordance with Exhibit “C” attached to this Work Authorization.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

PROJECT DESCRIPTION

The services designated herein as “Services provided by the ENGINEER” shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: Hidalgo County

CONTROL: CSJ# 0921-02-442

PROJECT/DESCRIPTION: ROW Acquisition and Mapping, PSE,
Utility Coordination & Management

LENGTH: 3.32 Miles

HIGHWAY: Trenton Road

LIMITS: From I-69C (US 281) to FM 907 (Alamo Road)

PROJECT CLASSIFICATION

(Place an “X” in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean TEDSI Infrastructure Group.

COUNTY shall mean Hidalgo County.

LPA shall mean Hidalgo County.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

RIGHT-OF-WAY DATA
(Function Code 130)

NOTE: No work involving right-of-way (ROW) data is to be performed until the LPA has given the ENGINEER written approval of the final location of the proposed ROW lines.

The ENGINEER shall perform the following Right-Of-Way Data duties:

1. Provide Ownership Data in a .dgn file
 - a. For the entire project limits
 - b. Compensable utility ownership that has property rights on ROW shall be researched and provided.
 - c. For each drainage outfall property
 - d. For each irrigation structure pipe
2. Parcel Plats & ROW Map
 - a. A ROW map, parcel plats and field notes shall be prepared and furnished.
 - b. All plats and field notes must be signed and sealed by a Registered Professional Land Surveyor (RPLS).
 - c. ROW map must depict all improvements affecting ROW.
3. Utilities (Compensable)
 - a. Property ownership with recording information shall be shown on ROW Map and Parcel Plats with distance ties to property corners in an effort to locate utility.
4. Field Notes
 - a. Field notes and plats shall be provided, signed and sealed by a Registered Professional Land Surveyor, for all parcels on the ROW Map.
 - b. Computation sheets for survey closure and area of each parcel shall be provided.
 - c. Ground surveys and preparation of parcel maps, legal descriptions, and ROW maps
5. Survey and Stake Right-of-Way
6. Records as required by the LPA and State
 - a. Records used to establish property ownership
7. General Guidance for Preparation of Right-of Way Maps
 - a. All data submitted by the surveyor will be legible, organized and well documented.
 - b. The surveyor shall provide temporary signs and shall control traffic near surveying operations adequately to comply with provisions of the MUTCD; a copy of which the Surveyor acknowledges has been furnished to him. All signs, flags, and safety equipment are to be provided by the surveyor.
 - c. Permission to enter private property for surveying (Right-Of-Entry) shall be the sole responsibility of the surveyor.
 - d. The surveyor will be held responsible for the correctness of his services. The surveyor will be responsible for the completion of his services.
 - e. The surveyor will be required to complete the attached “Right-of-Way Map Checklist” and submit along with the completed R.O.W. map. All requirements of attached R.O.W. map checklist must be complete, accurate and also considered to be essential and is a part of this contract.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

PROJECT SPECIFIC SCOPE OF SERVICES

FC 130 – RIGHT-OF-WAY DATA – Abstract analysis, development of ROW Map sheets including parcel plats and field notes with Metes & Bounds field descriptions, and Title Commitments.

FC 150 – FIELD SURVEYING FOR PARCEL MAPPING – Recover horizontal & vertical control, locate and field tie existing ROW and boundary corners. Update topography, and reestablish corners for ROW map revisions.

SURVEYING SCOPE OF SERVICES FOR PARCEL MAPPING

FC 130 – RIGHT-OF-WAY DATA

Right-of-Way Documents - The SURVEYOR will utilize State examples and provide the following:

GENERAL

- a. Abstracting: The SURVEYOR will determine Ownership Data.
- b. Prepare individual parcel maps and field notes as needed to properly describe the right-of-way the State is to acquire.
- c. All procedures involving right-of-way maps will be in accordance with the STATE’S Right-of-Way Book I and Book II, the State’s local operating procedures and according to the Texas Board of Professional Land Surveying Practices Act.
- d. All required documents will be in English units.
- e. The SURVEYOR will monument all corners with a 5/8 inch iron rod with a Surveyor’s plastic cap on all parcel boundary corners.
- f. The SURVEYOR will provide to the STATE a copy of Instruments of Record.
- g. The SURVEYOR will attach graphics files compatible with the latest version of Micro-Station graphics software.
- h. The SURVEYOR will attach documents or text files compatible with the latest version of Word software.

PARCEL PLATS

- a. A parcel plat will be prepared for each parcel of land to be acquired. The STATE has developed standard formats for parcel plats, copies of which the SURVEYOR will request and secure for all purposes
- b. Parcel boundary lines will be delineated with appropriate bearings, distances, and curve data.
- c. Private property lines will be delineated with appropriate bearings, distances, and curve data to the extent necessary to describe the individual parcels of land to be acquired.
- d. League lines and survey lines will be shown and identified by name and abstract number.
- e. A north arrow will be shown on each sheet and, if possible, in the upper right hand corner.
- f. Monumentation set or found will be shown and described as to material and size.
- g. A station and offset will be shown for each PC, PT, and angle point in the proposed right-of-way lines and the existing right-of-way lines in areas of no proposed acquisition.

ATTACHMENT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- h. Intersecting streets will be shown and identified by name and right-of-way width.
- i. A parent tract inset will be shown for each parent tract.
- j. A note will be included on each map sheet stating the basis of bearings, coordinates, and datum used.
- k. Appropriate notes will be included on the title sheet stating the following:
 - a. Month(s) and year abstracting was performed upon which the map is based.
 - b. Month(s) and year field surveys were conducted upon which the map is based.
 - c. Month and year map was completed by the SURVEYOR.
- l. The right-of-way account number and R.O.W. CSJ if available will be shown on each parcel map sheet.
- m. All parcel maps should be 8-1/2" x 11" signed and sealed by a Registered Professional Land Surveyor and note referencing legal description.
- n. The acreage of the part taken should be shown to three decimal places, rounded.

FIELD NOTE DESCRIPTIONS

A field note description will be prepared for each parcel of land to be acquired. Field note descriptions will include, but need not be limited to, the following:

- a. The field note description will begin with a general description that will include, as a minimum:
 - (1) State, county, and city within which the proposed parcel of land to be acquired is located.
 - (2) A reference to unrecorded and recorded subdivisions by name, lot, block, and recording data to the extent applicable.
 - (3) A reference, by name, to the grantor and grantee, date, and recording data of the most current instrument(s) of conveyance describing the parent tract.
- b. The field note description will continue with a metes and bounds description that will include, as a minimum:
 - (1) A point of commencing (outside property corner).
 - (2) A point of beginning on proposed R.O.W. line.
 - (3) A series of courses, identified by number and proceeding in a clockwise direction, describing the perimeter of the parcel of land to be acquired, and delineated with appropriate bearings, distances, and curve data.
 - (4) A description (8-1/2" x 11") of all monumentation set or found to include, as a minimum, size and material.
 - (5) All field note descriptions will be signed and sealed by a Registered Professional Land Surveyor.
 - (6) Note referencing parcel plat.

NOTE:

Surveyor to use the latest STATE approved ROW Map checklist while preparing the ROW Map.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ADDITIONAL RESPONSIBILITIES

A. TRAFFIC CONTROL:

The SURVEYOR shall control traffic in and near surveying operations adequately to comply with provisions of the latest edition of the TxDOT Manual on Uniform Traffic Control Devices – Part VI and the latest edition of the Occupational Safety Manual both of which can be found on the TxDOT internet site.

In the event field crew personnel must divert traffic or close traveled lanes, a Traffic Control Plan based upon principles outlined in the latest edition of the TxDOT Manual on Uniform Traffic Control Devices – Part VI shall be prepared by the SURVEYOR and approved by the ENGINEER prior to commencement of field work. A copy of the approved plan shall be in the possession of field crew personnel on the job site at all times and shall be made available to the ENGINEER for inspection upon request.

B. INVOICING:

Payment requests shall include a SURVEYOR’s invoice. With each payment request, the SURVEYOR shall submit a project status report which will, as a minimum, include the percentage of total work complete as of the date of the payment request and a description of current work activity. The percentage of total work complete shall not be based simply on the percentage of funds expended, but shall be based on the best judgment of the SURVEYOR as to the percentage of actual work complete.

C. EASEMENTS, LETTERS OF PERMISSION, ETC.

The SURVEYOR shall be responsible for delineating easements. The SURVEYOR will be responsible for securing the necessary legal instruments and obtaining all Right-of-Entries (ROEs).

D. MEETINGS:

The ENGINEER shall setup the necessary meetings with the SURVEYOR in order to assure all field information is provided on-time and products are delivered in accordance with TxDOT’s/LPA’s specifications. SURVEYOR must attend all meetings involving data provided if requested by ENGINEER.

E. PROJECT MANAGER/SURVEYOR COMMUNICATION:

The SURVEYOR shall designate one Texas Registered Professional Land Surveyor (RPLS) to be responsible throughout the project for project surveying coordination and all communications, including billing, with the ENGINEER.

F. OFFICE LOCATION:

The SURVEYOR will perform the services to be provided under this agreement out of a local office and have a crew available to perform requested tasks within 24 hours of request. The coordinating SURVEYOR’s Project Manager (RPLS) shall be accessible at all times and working from the local office.

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

ROADWAY DESIGN CONTROLS
(Function Code 160)

ROADWAY DESIGN:

The ENGINEER will perform roadway design services for the needed construction repairs along the project limits. The services will include:

1. Geometric Design
 - a. Horizontal and Vertical Alignment
 - b. All geometric design shall be in conformance with the State's Design Division, Operations and Procedures Manual, except where variances are permitted in writing by the LPA.
 - c. Handling of traffic during construction shall be a consideration in the development of preliminary designs.
2. Exhibits for Airway/Highway clearance permits (if within airport vicinity)
3. Grading Design
 - a. Refine the horizontal alignment including the following items
 - i. Typical Sections
 - ii. Design Cross Sections
 - iii. Determine Cut and Fill Quantities
 - iv. Slope Stability Analysis, if applicable
 - v. Embankment Foundation Stability Analysis, if applicable
 - vi. Embankment Settlement Analysis, if applicable
4. Pavement Design
 - a. Prior to initiating detailed plan preparations for a project, a preliminary investigation shall be made to determine the approximate section and pavement type to be used for the pavement structure. The Flexible Pavement Design Manual for flexible pavement, “Appendix F” of the Design Division, Operations and Procedures Manual, and the current AASHTO Guide for the Design of Pavement Structures, may be used for this purpose.
 - b. The typical section shall also reflect proposed geometric including pavement cross slopes, lane and shoulder widths, and slope rates whenever this data have not been previously shown on a schematic submission.
 - c. Embankment and Subgrade
 - i. Provide Soil Core Holes (location and number to be agreed upon with Owner)
 1. Along center line of each roadway
 - ii. Identify , interpret and summarize the geological features that affect engineering design (PI, sulfate content & % of lime)
 - d. Traffic Data for Pavement Design
 - e. Basic Design Criteria
 - f. Life Cycle Cost Analysis(es)
 - g. Cost Data
 - h. Pavement Material Properties
 - i. Rehabilitation Investigations
 - i. Soil Core Holes to determine type and depth of existing material, pavement, etc. The ENGINEER, in coordination with LPA, will determine whether to salvage the existing ACP and Flexbase.

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

DRAINAGE
(Function Code 161)

DRAINAGE DESIGN:

The ENGINEER will perform drainage design services for the needed construction repairs along the project limits. All hydraulic design shall be in accordance with TxDOT’s Hydraulic Manual, except where variances are permitted in writing by the LPA. The services will include:

1. Hydraulic Studies, Discharges
 - a. Hydrologic Map showing drainage areas, contours and drainage Q’s.
 - b. Drainage area maps showing existing conditions and proposed improvements.
 - c. Hydrologic data/discharge determination

2. Hydraulic Drainage Study & Documentation
 - a. Hydraulic Computations, if applicable
 - i. Storm water detention available within the ROW (linear ft. along side drain ditch).
 - ii. Storm water detention available outside the ROW (as per local Drainage District)
 - iii. Culverts
 - iv. Bridge Waterways
 - v. Channels
 - vi. Storm sewers/inlets
 - vii. Pump Stations
 - viii. Storm Water Management Facilities
 - ix. Irrigation Canals/Siphons
 - b. Hydraulic Reports
 - c. Federal Emergency Management Agency (FEMA) floodway requirements
 - d. Determine impact of proposed drainage plan on Drainage District or Irrigation District receiving streams

3. Layout, Structural Design and Detailing of Drainage Features
 - a. Culverts
 - i. New Culverts
 - ii. Culvert widening and/or lengthening
 - iii. Culvert replacements
 - b. Storm Sewers
 - i. New storm sewers
 - ii. Modify existing storm sewers
 - iii. Inlets
 - iv. Manholes
 - v. Trunk lines
 - c. Pump Stations
 - d. Subsurface drainage at retaining walls
 - e. Outfall channel(s) within the ROW
 - f. Outfall channel(s) outside the ROW
 - g. Detention Pond(s) within the ROW
 - h. Detention Pond(s) outside the ROW
 - i. Summary of Quantities

4. Storm Water Pollution Prevention Plan (SW3P)

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5. Scour Evaluation – Waterway structures only (to be completed under FC 170)

SIGNING, MARKINGS AND SIGNALIZATION

(Function Code 162)

PAVEMENT MARKINGS:

The ENGINEER will provide pavement marking layouts for the needed construction repairs along the project limits. The services will include:

1. Signing and Markings Layout
 - a. Roadway layout
 - b. Center line with station numbering
 - c. ROW lines
 - d. Culverts and other structures that present a hazard to traffic
 - e. Location of utilities, if not shown on plan and profile
 - f. Existing signs to remain, to be removed, to be relocated
 - g. Proposed signs (illustrated and numbered)
 - h. Existing overhead sign bridges to remain, to be revised, removed or relocated
 - i. Proposed overhead sign bridges indicating location by plan layout (electrical details need not be shown on this layout)
 - j. Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation
 - k. Quantities of existing pavement markings to be removed
 - l. Proposed delineators and object markers

2. For projects involving freeway to freeway or other types of directional interchanges, projects including left-hand ramps or connections, the following information must be provided:
 - a. The location of interchanges, main lanes, grade separations, frontage roads and ramps
 - b. Complete explanation of the sequence and methods of stage construction, where applicable, which would include the initial and ultimate proposed treatment of crossovers and ramps
 - c. The number of lanes in each section of proposed highway and the location of changes in number of lanes
 - d. The projected traffic volumes as provided by the STATE (20 year traffic projection, unless otherwise determined by the District Engineer)
 - e. Tentative ROW limits
 - f. Direction of traffic flow on all roadways
 - g. Main lane, ramp, frontage road and necessary cross road profiles at proposed interchanges or grade separations

3. Summary of Small Sign Tabulation

4. Summary of Large Sign Tabulation including all Guide Signs (if applicable)

5. Sign Detail Sheets
 - a. All signs except for route markers
 - b. Design details for large guide signs
 - c. Dimensions of letters, shields, borders, corner radii, etc.
 - d. Designation of shields attached to guide signs
 - e. Designation of arrow used on exit direction signs

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6. Traffic Signals (if applicable)
 - a. Development of Justification (Warrant) Data
 - i. Location Map
 - ii. Photographs as appropriate
 - iii. Accident data as appropriate
 - iv. Vehicle volumes (existing, estimated, projected, and pedestrian)
 - v. Traffic Survey – Count Analysis
 - vi. Recommendation based on the collected data
 - b. Layout
 - i. Title Sheet (when applicable)
 1. Describe the location
 2. Type of installation
 3. Area map with project limits for each location
 4. Index of sheets
 5. Space for official signatures
 - ii. Estimate and quantity sheet (when applicable)
 1. List of all bid items
 2. Bid item quantities
 3. Specification item number
 4. Paid item description and unit of measure
 - iii. Basis of estimate sheet
 - iv. General notes and specification data sheet
 - v. Condition Diagram
 1. Highway and intersection design features
 2. Roadside development
 3. Traffic control including illumination
 - vi. Plan Sheets(s)
 1. Existing traffic control that will remain (signs and markings)
 2. Existing utilities
 3. Proposed highway improvements
 4. Proposed installation
 5. Proposed additional traffic controls
 6. When applicable, proposed conduit for Railroad interconnect with standard details for runs under tracks
 7. Proposed illumination attached to signal poles
 - vii. Notes for plan layout
 - viii. Elevation sheet(s) (span wire design)
 - ix. Phase sequence diagram(s)
 1. Signal locations
 2. Signal indications
 3. Phase Diagram
 4. Signal sequence table
 5. Flashing operation
 6. Preemption operation
 7. Interval timing, cycle length and offset
 - x. Construction Detail Sheets
 1. Poles, Detectors, Pull box and conduit layout & Controller Foundation
 - xi. Marking Details (when applicable)
 - xii. Barricade and warning sign standard sheet and any special details for work zone traffic control for special conditions

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- xiii. Aerial or underground interconnect details (when applicable)
- c. General Requirements
 - i. Contact the local utility company
 - 1. Confirm Power Source
 - 2. Discuss route of aerial or underground interconnect cable
 - 3. Adjustment of overhead utility lines
 - ii. Prepare governing specifications, special provisions list and estimate
- d. Summary of Quantities

MISCELLANEOUS ROADWAY (Function Code 163)

TRAFFIC CONTROL PLAN, DETOURS AND SEQUENCE OF CONSTRUCTION:

The ENGINEER will provide a Traffic Control Plan (TCP) for the needed construction repairs along the project limits. TCP's are required for all projects; therefore a detailed TCP shall be developed when traffic handling during construction involves complications for which a feasible solution is not covered by the Texas MUTCD or the current Barricade and Construction (BC) standards. The following items are required on all TCP Layouts:

1. The Sequence of Construction and method of handling traffic during each phase
2. Roadway layout
3. Center line with station numbering
4. The existing and proposed traffic control devices that will be used to handle traffic during each construction sequence. Include signals, regulatory signs, warning signs, construction warning signs, guide signs, route markers, construction pavement markings, channelizing devices, portable changeable message signs, flashing arrow boards, barricades, barriers, etc...
5. The proposed traffic control devices (stop signs, signals, flag person, etc.) at grade intersections during each construction sequence.
6. Where detours are provided, typical cross sections shall be shown.
7. Road construction work hours shall be developed after an investigation of the traffic volumes has been performed.

COMPUTE AND TABULATE QUANTITIES:

The ENGINEER will provide a summary of quantities sheet in the plans identifying all estimated project quantities.

PROJECT ESTIMATE:

The ENGINEER will provide a project estimate summarizing all estimated construction costs.

SPECIFICATIONS AND GENERAL NOTES:

The ENGINEER will provide all relevant project specification and general notes to the project construction activities.

PROJECT MANAGEMENT (Function Code 164)

MEETINGS, COORDINATION & SUPPORT FOR PROJECT MANAGEMENT:

The ENGINEER shall meet and coordinate with all relevant entities (i.e. County, Regional Mobility Authority, Texas Department of Transportation, Rio Grande Valley Metropolitan Planning Organization,

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

etc...) and all other affected parties. The Engineer shall serve as representative for the Owner in coordination items. The Engineer shall coordinate with the Owner’s staff on all Project related items.

BRIDGE DESIGN
(Function Code 170)

BRIDGE DESIGN:

The ENGINEER will provide bridge design and bridge layouts for the needed construction repairs along the project limits. The services may include the following type of bridge structures:

1. Preparation of Structural Details for New Structures
 - a. Underpass
 - b. Overpass
 - c. Main Lane
 - d. Direct Connector
 - e. Ramp Bridge
 - f. Waterway Structure**
 - g. Pedestrian Structure
 - h. Utility Structure
 - i. Railroad Underpass
 - j. Railroad Overpass
 - k. Bridge Classification Culvert**

Total anticipated new structures shall be reflected on the fee proposal

2. Preparation of Structural Details for Existing Structures
 - a. Bridge widening, rehabilitation and/or modification of existing structure
 - b. Bridge replacement
 - c. Raising bridge elevation
 - d. Bridge classification culvert widening and/or modification of existing structure
 - e. Railroad overpass
 - f. Railroad underpass

Total anticipated existing structures shall be reflected on the fee proposal

* Contour plots of bridge gores are required for projects involving ramps within the main bridge in order to ensure project transition. The Template data and vertical alignment necessary to generate the contour plots are also required.

** In the early stages of a project, it sometimes cannot be determined whether a Waterway Bridge Structure or a Bridge Classification Culvert (20' minimum length) will be required. Therefore, the ENGINEER should be aware that either of these two types of bridges may be reclassified later in the project for the other type when more information is known that would dictate a change in structure classification.

3. Preparation of Bridge Layouts (each Bridge)
 - a. Bridge Layout (Plan)
 - i. Horizontal curve information or bearing of centerline
 - ii. Including horizontal, vertical, and template information of all roadways or railroads crossed
 - iii. Bearing of center line or reference line
 - iv. Skew angle
 - v. Slope for header banks and approach fills

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- vi. Control stations at beginning and ending of bridge (with deck elevation), intersections, etc.
- vii. Approach pavement and crown width
- viii. Bridge roadway width and curbs, face of rail, shoulders, or sidewalks
- ix. Approach slab and curb returns
- x. Limits and type of riprap
- xi. Proposed features under structure
- xii. Location of profile grade line
- xiii. North arrow
- xiv. Typical bridge roadway section including preliminary proposed beam types and spacings
- xv. Cross slope and super elevation data
- xvi. Minimum horizontal clearances when applicable
- xvii. Location of soil core holes (station & offset), shown on layout
- xviii. Bent stations and bearings
- xix. Retaining wall locations
- xx. Traffic flow directional arrows
- xxi. Railing types shown
- xxii. Joint types and seal size, if used
- xxiii. Beam line numbers consistent with span details
- xxiv. Critical horizontal clearances
- xxv. Bearings of utilities
- b. Bridge Layouts (Elevation)
 - i. Type of foundation
 - ii. Finished grade elevations at beginning and end of bridge
 - iii. Overall length of structure
 - iv. Length, type of spans and units
 - v. Type of railing
 - vi. Minimum calculated vertical clearance(s)
 - vii. Existing and proposed ground lines clearly marked
 - viii. Grid elevations and stations
 - ix. Bent numbers encircled
 - x. Stationing of bridge compatible with grid stations
 - xi. Standard title
 - xii. Profile grade data
 - xiii. Type of riprap
 - xiv. Soil Core Hole Information with penetrometer test data (shall be shown on the bridge layout at correct station, elevation and scale)
 - xv. Fixed/expansion condition of all bents
 - xvi. Column “H” heights
 - xvii. Number, size and length of foundations
- c. Additional layout requirements for waterway structures and bridge classification culverts
 - i. Design and 100-year peak discharges
 - ii. Design and 100-year high water (recorded data and date if available)
 - iii. Natural and through-bridge velocities for design and 100-year floods
 - iv. Calculated backwater for design and 100-year floods
 - v. Direction of flow for waterway crossings
 - vi. Contours for water crossing

4. Bridge Classification Culvert, Estimate, Quantities, and Specification (Each Bridge)

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5. Foundation Studies (The minimum number of soil core holes shall be obtained in accordance with Section 1-301 of the Bridges and Structures Foundation Exploration and Design Manual. Soil core holes shall be obtained at approximately (300 foot) intervals along bridge alignments. Texas cone penetrometer (TCP) tests shall be conducted in all soil types encountered at a maximum of (10 foot) intervals. If single column bents with single drilled shafts are planned, TCP values should be taken at close intervals in the upper (15 feet).)
6. Bridge Total Quantities and Cost Estimates (Each Bridge)
7. Bridge Special Provisions and Specifications (Each Bridge)
8. Bearing Seat elevations for each beam or girder. Top of cap elevations for non-beam type structures.
9. General Guidelines for Bridge Design
 - a. The ENGINEER shall prepare a bridge layout of each bridge structure for Company's review and approval. The bridge layout shall be in conformance with the Bridges and Structures, Operation and Planning Manual and the Bridges and Structures, Detailing Manual. Soil core hole data is not required for submission of the preliminary bridge layout. **No bridge design work is to be performed until the LPA has given the engineer written approval of the preliminary bridge layout.**
 - b. Several months may be required, after the preliminary bridge layout is submitted, for the district to obtain approval and/or permits from the following:
 - i. TxDOT Design Division, when applicable
 - ii. Railroad companies
 - iii. FHWA
 - iv. USACOE
 - v. US Coast Guard
 - vi. Bureau of Reclamation
 - vii. Texas Parks & Wildlife
 - viii. Others
 - c. Therefore, the bridge layout should be submitted at the earliest possible date and the ENGINEER's design schedule should reflect this.
 - d. All Bridge superstructure and substructure design will be reviewed by the TxDOT Design Division for purposes of verifying structural integrity and optimization of design.
 - e. The final bridge layout shall be in conformance with the Bridges and Structures, Operation and Planning Manual and the Bridges and Structures Detailing Manual.
 - f. The ENGINEER shall make final design calculations and final detail drawings in accordance with standard requirements of the Texas Department of Transportation. All bridge design shall be in conformance with the TxDOT Bridges and Structures Operation and Planning Manual, the current American Association of State Highway and Transportation Officials or American Railway Engineers Association Specifications for railway structures, Standard Specifications for Highway Bridges, including applicable interim specifications, and the Bridges and Structures, Foundation Exploration and Design Manual. The ENGINEER shall furnish design calculations to the Design Division. **The designer and checker shall check all calculations and initial each page.**
 - g. Structural steel or prestressed concrete shop drawings, form work drawings and false work drawings are not part of the design requirements. However, contract plans shall be in sufficient detail to permit the preparation of complete shop details for fabrication and erection.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- h. Elements of the bridge (abutments, bents, slabs, etc.) shall be detailed to a metric scale of 1:20 (1/2 inch equals one foot architect scale) or 1:50 (1/4 inch equals one foot architect scale) to provide clear legible drawings when the drawings are reduced. Lettering shall be a minimum size of 4 millimeters (5/32 inch) height for hand lettering and 140 for lettering by computer-aided design and drafting (CADD).
- i. Standard drawings for beams, diaframs, railings, armor joints, riprap, etc., shall be furnished to the ENGINEER upon request. These standards shall not be redrawn by the ENGINEER nor shall his title block be transferred to the standard drawings. Modifications to the standards, if necessary, shall be clearly identified and designated by “MOD” in the standard title. Specific special drawings prepared by the ENGINEER shall not be identified as standards.
- j. Bridge layout sheets shall have the same vertical and horizontal scale. Usually a metric scale of 1:100 (1 inch = 10 feet) or 1:200 (1 inch = 20 feet) is used. Sections of existing and proposed structures usually have a metric scale of 1:50 (1 inch = 5 feet). Soil core holes shall be positioned and labeled on the bridge layout plan view. The core hole data shall be plotted at the correct station, at the same vertical scale, and at the proper elevation unless otherwise approved by the Design Division.
- k. APPENDIX C, “GENERAL PLAN CHECKLIST”, on pages C-1 thru C-5, more specifically relates various sheet types, details, summaries, standards, etc.
- l. For purposes of uniformity statewide, soil core hole data shall be shown on layouts as illustrated in the Bridges and Structures Foundation Exploration and Design Manual.
- m. Geometry and structural design errors found after acceptance of bridge plans shall be promptly corrected by the consultant at no cost to the Company.

ROW ACQUISITION PROVIDER SERVICES

(Function Code 600)

The ENGINEER will perform the following tasks associated with ROW Acquisition Services:

- 1. Project Administration
 - a. Negotiation of Scope of Services for the Work Authorization
 - i. The Acquisition Provider will visit the project site with LPA personnel if necessary.
 - b. Project Presence at ENGINEER’s Office
 - i. ENGINEER will provide a full project office
 - 1. No joint use of LPA or STATE facilities
 - 2. Office will be open during normal LPA and/or STATE work hours
 - 3. Personnel will be available to answer any questions
 - 4. Project files will always be available for review
 - 5. At least one office staff member is required to be a current commissioned notary public.
 - c. Overhead Costs
 - i. Administrative Costs
 - d. Communication
 - i. ENGINEER will provide monthly progress reports with invoice

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- ii. ENGINEER will participate in project review meetings as determined by the LPA
 - iii. ENGINEER will prepare initial property owner contact list for use by the LPA in distribution of Acquisition Provider introduction letters
- e. File Management
- i. The project and parcel files will be kept in the LPA’s office, if necessary. Working files will be kept in the Acquisition Provider’s project administrative office, but documents generated or received by the Acquisition Provider will be forwarded to the LPA’s office as they are generated or received by the Acquisition Provider, if necessary.
 - ii. The ENGINEER will prepare payment transmittal request utilizing standard payment submissions forms with supporting documentation.
 - iii. The ENGINEER will maintain records of all payments including check number, amount, date paid, etc.
 - iv. The ENGINEER will provide copies of all incoming and outgoing correspondence as generated if requested by LPA at provider conference.
 - v. The ENGINEER will maintain copies of all correspondence and contact with property owners.
2. Title Services
- a. Secure preliminary title commitments from the Title Company that will be providing title insurance. Cost of preliminary title commitments will be paid by the Acquisition Provider (if requested by the title company) and will be included in the Acquisition Provider’s scope of work for payment and paid as a separate item.
 - b. Secure title commitment updates in accordance with insurance rules and requirements for parcel payment submissions. Cost of title commitment updates will be paid by the Acquisition Provider (if requested by the title company) and will be included in the Acquisition Provider’s scope of work and paid as a separate item.
 - c. Secure title insurance for all parcels acquired, insuring acceptable title to the LPA. Written approval by the LPA is required for any exception.
3. Appraisal
- a. Appraiser may be selected from TxDOT’s list of state approved fee appraisers. This list will be available for review at all District offices or at the Right of Way Division Office at 118 E. Riverside Drive, Austin, Texas, upon request.
 - b. Secure written permission (if necessary) from the owner to enter the property from which land is to be acquired. If the Acquisition Provider and/or the fee appraiser, after diligent effort, is unable to secure the necessary letter of permission from the property owner, a waiver must be obtained, in writing from the LPA/TxDOT. Maintain permission letters with appraisal reports.
 - c. Prepare (if necessary) pre-appraisal contact with interest owner(s) for each parcel using acceptable LPA/TxDOT forms.
 - d. Contact property owners or their designated representative to offer opportunity to accompany the appraiser on the appraiser’s inspection of subject property. Maintain record of contact in file.

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- e. Prepare complete appraisal report for each parcel to be acquired utilizing TxDOT Forms No. ROW-A-5 and ROW-A-6 as applicable. These reports shall conform to TxDOT/LPA policies and procedures along with the Uniform Standards of Professional Appraisal Practices.
 - f. As necessary, prepare written notification to LPA/TxDOT of any environmental concerns associated with the right of way to be acquired which could require environmental remediation.
 - g. All completed appraisals will be administratively reviewed by the ENGINEER’s ROW office and recommended for approval for TxDOT.
 - h. As necessary, the appraiser will appear and or testify as an Expert Witness in eminent domain proceedings and be available for pre-hearing /pre-trial meetings as directed by the ENGINEER and/or TxDOT.
 - i. As necessary, the appraiser will coordinate with the review appraiser regarding revisions, comments, or additional information that may be required.
 - j. The cost of the appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the appraiser. The cost of the appraiser’s expert witness testimony for trial is not part of this contract, and shall be paid by the LPA.
4. Appraisal Review
- a. Review Appraisers may be selected from TxDOT’s list of state approved fee appraisers. This list is available for viewing at all District offices or the Right of Way Division office at 118 E. Riverside Drive, Austin, Texas upon request.
 - b. Review all appraisal reports for each parcel to determine consistency of values, supporting documentation related to the conclusion reached and compliance with TxDOT/LPA policies and procedures and the Uniform Standards of Professional Appraisal Practices.
 - c. Prepare and submit to TxDOT the Form ROW-RTA-10 “Tabulation of Values” for each appraisal.
 - d. The cost of the review appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the review appraiser. The cost of the appraiser’s expert witness testimony for trial is not part of this contract, and shall be paid by the LPA.
5. Appraisal Updates
- a. Prepare complete appraisal update for the parcel to be acquired utilizing TxDOT Form No. ROW-A-5, which will be furnished to the provider by TxDOT. These reports shall conform to LPA/TxDOT policies and procedures along with the Uniform Standards of Professional Appraisal Practices.
 - b. As necessary, prepare written notification to LPA/TxDOT of any environmental concerns associated with the right of way to be acquired which could require environmental

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

remediation. All completed appraisals will be administratively reviewed by the ENGINEER’s Right of Way Office and recommended for approval to TxDOT.

- c. As necessary, the appraiser will appear or testify as an Expert Witness in eminent domain proceedings and be available for pre-hearing or pre-trial meetings as directed by the TxDOT/LPA.
 - d. The cost of the appraiser appearing as an expert witness for testimony at special commissioners hearing must be included in the proposed fee schedule for the appraiser. The cost of the appraiser’s expert witness testimony for trial is not part of this contract, and shall be paid by the LPA.
 - e. As necessary, the appraiser will coordinate with the review appraiser regarding corrections and/or additional information that may be required.
6. Negotiation, Tasks and Fees
- a. Analyze appraisal and appraisal review reports and confirm the TxDOT’s approved value prior to making offer for each parcel.
 - b. Analyze preliminary title report to determine potential title problems, propose methods to cure title deficiencies.
 - c. Prepare the initial offer letter, instruments of conveyance, and any other documents required or requested by LPA /TxDOT on applicable LPA /TxDOT forms.
 - d. Mail (Certified Mail Return Receipt Requested) initial offer letter, draft deed, Bill of Rights Brochures and Appraisal Reports to address confirmed with the Appraisal District of Hidalgo County. Maintain follow-up contacts and secure the necessary instruments upon acceptance of the offer for the closing.
 - e. Provide a copy of the appraisal report for the subject property exclusively to the property owner or authorized representative at mailing of initial offer. Maintain original signed Receipt of Appraisal. (unless property owner refuses to sign it).
 - f. Respond to property owner inquiries verbally and in writing within two business days.
 - g. Prepare a separate negotiator contact report for each parcel per contact.
 - h. Maintain parcel files of original documentation related to the purchase of the real property or property interests.
 - i. Advise property owner on the Administrative Settlement process. Transmit to TxDOT any written counter offer from property owners including supporting documentation, and provider recommendation with regard to Administrative Settlements in accordance with LPA /TxDOT policy and procedures.
 - j. Prepare final offer letters and documents of conveyance as necessary.
 - k. Appear and provide expert witness testimony as an Acquisition Provider when requested.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- l. Meet at the ENGINEER’s ROW office once per week as agreed upon with the ROW Acquisition Manager/Administrator.
 - m. Provide a monthly progress report per parcel by the last day of the month with invoice.
 - n. The ENGINEER shall, as part of this proposal, estimate 10% of the proposed parcels may end up in condemnation. The ENGINEER’s ROW staff shall be available for any meeting/hearings as requested by the LPA Attorney.
7. Closing Service Fees
- a. Coordinate with the LPA and Title Company to obtain an updated title commitment along with other Forms and certified copy of the instrument of conveyance necessary when requesting the Parcel Payment from the LPA.
 - b. The ENGINEER’s ROW staff shall attend closings and provide closing services in conjunction with the Title Company.
 - c. The ENGINEER’s ROW staff shall record all original instruments immediately after closing at the respective County Clerk’s Office, except for donations which must be forwarded to TxDOT for acceptance by the Texas Transportation Commission.
8. Relocation Assistance Services (A separate Work Authorization will be issued once the number of relocations have been quantified, unless noted otherwise)
- a. The ENGINEER’s ROW staff will provide relocation advisory services based on the amount of relocations or displacements identified. The ENGINEER’s ROW staff will compute replacement housing supplements (owner occupant and/or tenants).
 - b. The ENGINEER’s ROW staff will provide advisory services to business displacements and relocate them effectively.
 - c. TxDOT will review, approve and pay for all relocation costs for On-System projects only.
9. Condemnation Support
- a. Pre-Hearing Support
 - i. Upon receipt of a copy of the final offer, request an updated title commitment for Eminent Domain from the Title Company.
 - ii. Prepare a Bisection Clause for the original set of Legal Descriptions supplied by Surveyor if applicable.
 - iii. Use the information from the Title Commitment to join all interested parties on the necessary forms. Spouses of owners must also be joined.
 - iv. Upon completion of the necessary forms, prepare a packet containing 2 copies each of the following documents: Title Commitment, Negotiator’s Reports, Appraisal Acknowledgment, Pre-appraisal Contact Sheet, signed and sealed property description, and plat, Final Offer Letter, any correspondence from the land owner or representatives, along with one copy of the appraisal report. Submit packet to the LPA Office for submission to the LPA Attorney’s office.
 - v. Upon receipt of concurrence for the Appraisal Witness, request the update of appraisal.

ATTACHMENT “B”
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- vi. Upon receipt of packet prepared by the LPA Attorney which will include Petition for Condemnation, Lis Pendens, Order Appointing Special Commissioners, Order Setting Hearing, Oath of Special Commissioner, and Notice of Hearings, developed by the LPA Attorney; the attorney shall file the original petition with the LPA Court at Law or other appropriate Court for a cause number to be assigned.
 - vii. The LPA attorney shall file the Lis Pendens including the cause number with the COUNTY Clerk’s Office.
 - viii. Upon assignment of a court, the LPA Attorney shall file the Order Appointing Commissioners with the judge retaining a copy of the Order for the files.
 - ix. Following appointment of Special Commissioners by the judge, the LPA shall secure the following documents: Oath of Commissioners signed by the Commissioners, Order Setting Hearing, 2 copies of the Notice of Hearing signed by the Commissioners.
 - x. The LPA shall file all originals with the court and send copies marked “copy” to the ENGINEER.
 - xi. The LPA Attorney shall send a copy of the petition to the Title Company so that the Title Company can make sure the appropriate parties were joined and that no changes in title have occurred.
 - xii. The LPA Attorney shall set the Special Commissioners Hearing after the updated appraisal has been submitted, if there is no change in value. If there is an increase in value, the LPA will approve the new value and the LPA’s provider will present a revised offer and a final offer letter and submit a copy of the final offer letter.
 - xiii. The LPA Attorney shall coordinate a pre-hearing conference prior to the hearing (the day before or earlier) to discuss facts of the case with the LPA, Appraiser, and Negotiator.
 - xiv. After the hearing is set, the LPA Attorney shall serve Notices of Hearing to the indicated parties at least 11 days prior to the Commissioner’s hearing. If it is necessary to join the Federal Government, be advised that they have an additional 60 days to prepare for the Hearing.
 - xv. Once the notices have been served, the LPA Attorney shall file the original notices with the court and send copies stamped “copy” to the ENGINEER’s ROW Office.
 - xvi. The LPA’s Attorney shall send a reminder letter 2-3 weeks in advance to the LPA Administration offices, Acquisition Provider, the three special commissioners and court reporter concerning Hearing dates.
- b. Post Hearing Support (by the LPA Attorney)
- i. For the hearing, prepare the necessary forms and Special Commissioners time sheets and submit forms to the LPA.
 - ii. Obtain the signatures of Special Commissioners on the Award of Commissioners and file with the court for the judge’s signatures within 48 hours of the Hearing.
 - iii. Give timesheets to the Judge. The amount paid to the Special Commissioners is determined by the Judge.
 - iv. Obtain and distribute 3 certified copies of the award as follows: 1 certified copy to the title company with a request for a commitment, 1 certified copy to the LPA, 1 certified copy to the ENGINEER with the Commitment to request the warrant in the amount of the Special Commissioners Award.
 - v. Send the Commitment and the Award to LPA, along with individual special commissioner's billing requesting the payment for their fees.

ATTACHMENT “B”

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- vi. File LPA warrant in the registry of the court. File a Notice of Deposit with the court and send certified copies to each defendant notifying them of the date of the deposit. The Date of Deposit is the Date of Take.
- vii. Take photograph of the interest to be acquired (if necessary) on the day of deposit for relocation verification.
- viii. Send written notices of the date of deposit to the LPA Administration office and all interested parties.
- ix. Appear as Expert Witness as requested. Sub-contractors must also appear as Expert Witnesses as requested.
- x. All acquisition negotiations file indicating all “due diligence” provided by the Acquisition Provider will be directed to the LPA Attorney’s office for his further handling in accordance to the Eminent Domain process by the LPA.

10. Compensable Utilities

Utility Accommodation is an integral factor in road construction and design. Coordination of utility adjustments is a necessary function within planning, design, acquisition and construction and requires the administration of property rights issues, utility policy, and reimbursement of eligible utility adjustments. It includes the following tasks:

- a. Preliminary Design Consultations
 - i. Conduct Field Investigation and review Certificate of Convenience and Necessity boundaries to identify utility providers within the project area. Communications through letter, phone calls and email to establish a contact list. Coordinate data gathering by surveyors and design team. Introduce project to utility providers.
- b. Field Observations and Verifications
 - i. Provide maps to Utility providers to “redline” and identify conflicts. Coordinate exposures and data collection by surveyor. Provide and confirm utility data on project maps. Order Utility Location Service.
- c. Exchange of Information with Utility Providers
 - i. Provide project schedule
 - ii. Request schedules for utility adjustments
 - iii. Identify who is responsible for utility process
- d. Confirmation of Property Interests
 - i. Request Documents
 - ii. Coordination of data on maps and citation of property interest documents
 - iii. Confirm utilities are within easements
- e. Coordination of Agreements
 - i. Identify utilities that are compensable
 - ii. Determine parties and agreements necessary to complete compensable process
 - iii. Coordinate execution and processing of Standard Utility Agreements
- f. Utility Meetings Throughout Project Development
 - i. Set up and coordinate utility meetings during planning, design, acquisition and construction phases
 - ii. Attend and participate in meetings by other parties

11. Payment Schedule

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- a. Project Administration
 - i. Payment and Milestones
 - 1. Full Project Office
 - a. Lump Sum Basis (assume 1 year project presence)
 - b. Initial payment of 25% upon establishment of a project office with functional phone and utility service
 - c. Remainder paid out in equal monthly installments of 15% starting the following month
 - d. Monthly billing to LPA will be required
- b. Title Services
 - i. Payment on a Per Parcel basis
 - ii. Milestone will be 100% upon securing initial title commitment
- c. Appraisal Services
 - i. Payment on a Per Parcel basis
 - ii. Milestone will be 100% upon delivery of complete and acceptable appraisal report
- d. Appraisal Review
 - i. Payment on a Per Parcel basis
 - ii. Milestone will be 100% upon submission of form ROW-A-10
- e. Appraisal Update
 - i. Payment on a Per Parcel basis
 - ii. Milestone will be 100% upon complete and acceptable appraisal update
- f. Negotiation, Task & Fees
 - i. Payment on a Per Parcel basis
 - ii. Milestones
 - 1. 80% upon presentation of the initial offer
 - 2. 20% upon successful negotiation and all instruments recorded
- g. Closing Service Fees
 - i. Payment on a Per Parcel basis
 - ii. Milestone will be 100% upon recordation of instrument of conveyance
- h. Relocation Assistance
 - i. Payment on a Per Relocation basis
 - ii. Milestone will be 100% upon issuance of a 90-day vacancy letter
- i. Compensable Utilities
 - i. Payment will be by a percent complete

ADDITIONAL RESONSIBILITIES

EASEMENTS, LETTERS OF PERMISSION, ETC.:

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

The ENGINEER shall be responsible for delineating easements. The ENGINEER will be responsible for securing the necessary legal instruments.

MEETINGS:

Meetings will be held with the FHWA, State Officials, local governments, property owners, utility owners, railroad companies, other consulting firms, etc., as needed or required by the LPA. The ENGINEER shall coordinate through the LPA for the development of this project with any local entity having jurisdiction or interest in the project (i.e., city, county, etc).

SPECIFICATIONS, SPECIAL PROVISIONS, SPECIAL SPECIFICATIONS:

Use the State's standard specifications or previously approved special provisions and/or special specifications. If a special provision and/or special specification is developed for this project, it shall be in the State's format and incorporate references to approved State test procedures.

PROJECT MANAGER/ENGINEER COMMUNICATION:

The ENGINEER shall designate one Texas Registered Professional Engineer to be responsible throughout the project for project management and all communications, including billing, with the LPA's Director. Any replacements to the ENGINEER's designated Project Manager/Engineer must be approved by the LPA.

Engineering documents produced for the department's engineering projects shall be signed, sealed and dated or CADD sealed in accordance with Administrative Order No. 5-89 and Administrative Circular No. 26-91.

DESIGN RESPONSIBILITIES:

The ENGINEER is responsible for design errors and/or omissions that become evident before, during or after construction of the project. The ENGINEER's responsibility for all questions arising from design errors and/or omissions will be determined by the LPA and all decisions shall be final and binding. This would include, but not necessarily be limited to:

1. All design errors and/or omissions resulting in additional design work to correct the errors and/or omissions.
2. Preparation of design documents and detail drawings necessary for a field change due to design errors and/or omissions.
3. Revision of original tracings to the extent required for a field change due to design errors and/or omissions.

The ENGINEER shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of the work by the LPA will not relieve the ENGINEER of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities.

DOCUMENT AND INFORMATION EXCHANGE:

Data, Plan Sheets, General Notes and/or Specifications provided to the LPA shall be furnished on 8GB USB flash drives. Each 8 GB flash drive shall have a file titled Table of Contents. The Table of Contents shall indicate the locations of files within the directory structure of the documentation.

General Notes and specifications shall be provided in MS Office 2007 format. Plan sheets shall be provided in Microstation DGN or GEOPAK GPK format. PDF copies of plan sheets shall also be provided.

Two copies of the documentation shall be provided to the LPA.

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SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

If required, the ENGINEER shall provide to the LPA, a CD that contains all the plan sheets for the project. The graphics tape shall be compatible with the LPA’s computer system.

CD Tape Required (YES or NO): YES

PROPOSAL TIME:

The time indicated in the proposal and the contract shall include time necessary for reviews, approval, etc.

OFFICE LOCATION:

The ENGINEER will perform all services to be provided under this agreement out of their office located at: 1201 E. Interstate Hwy. 2, Mission, Texas 78572

Work Authorization No.2 Project Schedule 10-23-2025

ID	Task Name	Duration	Start	Finish	2026												2027												2028					
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
1	Work Authorization #2 ROW Acquisition and PSE																																	
2	Notice to Proceed	1 day	Mon 11/17/25	Mon 11/17/25																														
3	Project Management (LGPP & Subconsultants)	500 days	Tue 11/18/25	Mon 10/18/27																														
4	ROW Mapping (Parcel Sketches/Metes & Bounds)	180 days	Tue 11/18/25	Mon 7/27/26																														
5	ROW Acquisition Services	500 days	Tue 11/18/25	Mon 10/18/27																														
6	Permitted and Compensible utility Coordination	500 days	Tue 11/18/25	Mon 10/18/27																														
7	30% PSE Package	90 days	Tue 11/18/25	Mon 3/23/26																														
8	30% PSE Package Review	45 days	Tue 3/24/26	Mon 5/25/26																														
9	PSE 60%	120 days	Tue 5/26/26	Mon 11/9/26																														
10	60% PSE Package Review	45 days	Tue 11/10/26	Mon 1/11/27																														
11	PSE 95%	60 days	Tue 1/12/27	Mon 4/5/27																														
12	95% PSE Package Review	45 days	Tue 4/6/27	Mon 6/7/27																														
13	PSE 100%	1 day	Tue 6/8/27	Tue 6/8/27																														
14	Final Plan Approval	30 days	Wed 6/9/27	Tue 7/20/27																														
15	Preparation of Bid Set to TXDOT	76 days	Tue 4/6/27	Tue 7/20/27																														



"Attachment D"
Fee Estimate

Trenton Road- Project Development Fee Proposal (WA#2)

WA #2 - Right of Way Acquisition, PS&E, & Utility Relocation	Principal	Project Manager	Project Engineer	Design Engineer	Engineer-In-Training	Engineering Technician	Sr. CADD Operator	CADD/GIS Technician	Admin/Clerical	Total Hours	Total Line Item Cost	
TASK												
Right of Way Acquisition Services											Caso Law Firm, PLLC Subconsultant Cost	\$813,600
ROW Mapping (Parcel Sketches/Metes & Bounds)											GDJ Engineering Subconsultant Cost	\$298,880
Project Management (LGPP Procedures and Subconsultants)		300	230	130						660	\$152,429	
PSE Development			600	759	1295	2098	2270	2305		9327	\$1,336,974	
Bridge Design			270	350	375	250	150	180		1575	\$254,328	
Traffic Design (Traffic Signals, Beacons, Signing & Pavement Markings)			200	225	275	200	130	140		1170	\$187,227	
Permitted Utility Coordination			80	120	150	110				460	\$76,819	
Compensible Utility Coordination			40	80	100	80		120		420	\$63,173	
Preparation of Bid set to TXDOT		40	80	100	40	40				300	\$57,542	
Total Labor Hours	0	340	1500	1764	2235	2778	2550	2745	0	13912		
Contract Rate	\$300.06	\$264.52	\$214.92	\$181.86	\$148.79	\$140.76	\$138.87	\$115.73	\$111.93			
TOTAL LABOR COSTS	\$0.00	\$89,936.80	\$322,380.00	\$320,801.04	\$332,545.65	\$391,031.28	\$354,118.50	\$317,678.85	\$0.00		\$3,240,972	

