SUPPLEMENTAL WORK AUTHORIZATION NO. 2
TO
WORK AUTHORIZATION NO. 1

WILLIAMSON COUNTY ROAD BOND PROJECT:

Corridor J3

This Supplemental Work Authorization No. 2 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated February 1, 2022 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Halff Associates, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective June 29, 2022 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

I. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).

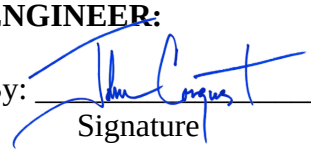
II. The Work Authorization shall terminate on February 28, 2025. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).

III. The maximum amount payable for services under this Work Authorization without modification increased by $193,392.38 from $2,134,609.09 to $2,328.001.47. The Fee Schedule is attached hereto as Attachment "D" (must be attached).

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, to be effective as of the date of the last party's execution below.

ENGINEER:	**COUNTY:**
By: 	By: _____
Signature	Signature
John Conquest	Bill Gravell Jr.
Printed Name	Printed Name
Authorized Agent	County Judge
Title	Title
9/10/2024	_____
Date	Date

LIST OF ATTACHMENTS

Attachment B – Services to be Provided by the Engineer

Attachment C - Work Schedule

Attachment D – Fee Schedule

APPROVED

By Christen Eschberger at 7:40 am, Sep 12, 2024

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER FOR CORRIDOR J Segment 3

PROJECT DESCRIPTION

Existing Facility
Corridor J3 will primarily be on new location from US183 to proposed SH 195 in northern Williamson County.

Proposed Facility
Corridor J3 will be approximately 7 miles long, extending from west of US 183 to east of proposed SH 195. The proposed ultimate expressway facility is a controlled access facility with 2 two-lane mainlanes, 2 three-lane frontage roads with curb and gutter, storm sewer system, and 2 shared use paths (one on each side). The proposed expressway right-of-way width will be typically 350 feet; however, it may vary to accommodate drainage, including detention ponds and drainage easements. A 250-foot-wide constrained ROW typical section will be considered in some areas.

Design Criteria
The proposed design criteria for the project will be developed from Williamson County and TxDOT design criteria in effect at the time this work authorization is executed. It is anticipated that in most cases the most stringent of the design criteria will be used.

1. PROJECT MANAGEMENT

   a. Communication:

      - Designate one Licensed Professional Engineer (Texas) to be responsible for the project management, and all communications with the County and its representatives.

   b. Monthly Progress Report, Invoices, and Billings (**20** months plus an additional 14 months assumed for a total of 34 months):

      - Submit monthly progress status reports to the GEC. Progress reports will include a deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.

      - Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

   c. Quality Assurance and Quality Control (QA/QC) Plan:

      - Prepare a project specific QA/QC plan and submit to the County within thirty (30) days of notice to proceed.

      - For each deliverable submittal, provide evidence of their internal review and mark-up of that deliverable as preparation for submittal and in accordance with submitted project specific QA/QC plan.

- Provide continuous QA/QC throughout the duration of the scheduled services included herein to appraise both technical and business performance and provide direction for project activities.

d. Project Coordination & Administration:

- Prepare and maintain routine project record keeping including records of meetings and minutes.
- Correspondence and coordination will be handled through & with the concurrence of the GEC.
- Manage project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to project-related inquiries.

e. Progress/Coordination Meetings (**12** external meetings assumed):

- Attend a kickoff meeting and coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
- Prepare agenda and sign-in sheets for external coordination/progress meetings.
- Prepare meeting minutes for review via email within three (3) business days of the external coordination/progress meeting.
- Conduct internal coordination meetings as required to advance the development of the project.

f. Project Schedule and Updates:

- Maintain a project schedule indicating tasks, subtasks, critical dates, milestones, and deliverables. Submit to County as requested.

Deliverables:

- Monthly Invoices and Progress Reports including Deliverable Table
- Project Specific QA/QC Plan
- Meeting Minutes, Sign-In Sheets, and Agendas
- Project Schedule and Updates
- Project Files
- QA/QC Documentation with Deliverable

2. ROUTE AND DESIGN STUDIES

a. Data Collection:

- Perform record research and obtain existing information, including but not limited to: as-built plans, construction plans, right of way maps, traffic data, environmental reports, studies,

future land use maps, floodplain data, floodplain and drainage models and analyses. Obtain construction plans for projects within the project limits and abutting TxDOT and County Roads. Obtain drainage studies, reports, and mapping for the project area, including reports for developments affecting the drainage area.

- Conduct a field investigation of the proposed roadway alignment and the surrounding area to determine field conditions including photographic record of notable existing features.
- Develop and maintain adjacent property ownership information spreadsheet to be used for disseminating project information including owner's name, tenant name for leased property, mailing address, property address, property id number.
- Review the data collected and organize the information.

b. Stakeholder / Property Owner Coordination (up to **4** meetings assumed):

- Schedule, coordinate logistics for and prepare agendas, sign in sheets, meeting minutes, discussion topics, presentations, overall exhibits, and maps of the project limits for stakeholder coordination.
- Coordinate with affected local agencies and County's consultants. Includes preparing/reviewing presentations and other communications materials for elected official briefings.
- Attend meetings with stakeholders and or property owners (**up to 4** meetings assumed).

c. Constraints Map (Up to **5** preliminary route concepts assumed that will be developed by the project team):

- Obtain and update periodically publicly available information including but not limited to: locations of public buildings and facilities (schools, churches, parks, cemeteries, dams), aerial photography, National Wetland Inventory Maps, County Soil Survey Maps, Texas Commission on Environmental Quality (TCEQ) & Environmental Protection Agency (EPA) Hazardous Materials Database Information, Federal Emergency Management Agency (FEMA) Floodplain Information, Vegetation Information, Environmental Information from the appropriate local, state, or federal agencies, Threatened & Endangered Species Information.
- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills; oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify other environmental risks along the project corridor.
- Conduct field reconnaissance to visually inspect the project site for additional risks and field verify any environmental risks identified by the regulatory records review. This field investigation will be limited to accessible areas within the existing right-of-way.

- Review the Williamson County's Long-Range Transportation Plan and other local and regional transportation plans to review and gather information of projects that could impact **Corridor J Segment 3**.
- Develop a constraints map that includes environmental concerns, known constraints (structures, floodplain), aerial photography, contour information, utility information, based on research of public databases and sources.
- Develop preliminary route concepts and preliminary costs for use in soliciting input during coordination meetings with stakeholders.
- Anticipated structures to evaluate during the preliminary route development include the following:
    - 8 direct connectors at SH 183 Intersection (Full Interchange)
    - 8 direct connectors at SH 195 Intersection (Full Interchange)
    - 6 grade separations at arterial locations as identified in the County's Long Range Transportation Plan.
    - 10 water crossing locations (EB/WB mainlanes and EB/WB frontage road bridges will be considered at each location).
- Develop evaluation criteria to assist in evaluating preliminary route concepts.
- Quantify potential effects of the preliminary route concepts based on the evaluation criteria.
- Conduct screening process and select recommended route option.
- Refine recommended route option based on public input, stakeholder input, design criteria, existing structures, potential displacements, right of way limits and requirements, known developments, FEMA floodplain areas, existing and proposed drainage structures and issues, and other environmental features.

d. Design Criteria:

- Analyze and identify project-specific design criteria (typical sections, design speed, functional classification, geometric criteria) in accordance with the latest versions of Williamson County Design Criteria Manual and other associated local and state manuals (in effect at the time this work authorization is executed), as applicable.

e. Draft and Final Constraints Map Refined Route Option and Technical Memorandum Recommendation (pdf and hardcopies)

f. The Engineer shall prepare a **Corridor J Segment 3** Route Study Report documenting environmental setting (that includes environmental concerns, known constraints (structures, floodplain), aerial photography, contour information, utility information), the project need and purpose, preliminary route concept development and evaluation process and results, stakeholder activities, final route option recommendation, funding, and next steps. A draft and final report will be prepared for review and will also document refinements to the recommended route option to address any stakeholder or public issues and suggestions, as

appropriate, and document potential impacts and costs for the refined route option recommendation.

g. Prepare revised Corridor J Segment 3 Route Study Report and Due Diligence Report for the realignment of the preferred corridor to address property (R010404) owner's concerns.

h. Draft and Final Design Summary Form and Typical Sections which adhere to the project specific design criteria (pdf and hardcopies)

i. DELIVERABLES:
   - Meeting Minutes, Sign-In Sheets, Agendas, Presentations, Maps, and Exhibits for all Stakeholder / Property Owner Coordination Meetings.
   - Draft and Final Constraints Map with Recommended Refined Route Option and Technical Memorandum Recommendation (pdf and hardcopies)
   - Draft, Revised Draft for realignment of the preferred corridor to address property (R010404) owner's concerns and Final **Corridor J Segment 3** Study Report
   - Draft and Final Design Summary Form (pdf and hardcopies)

3. PUBLIC INVOLVEMENT

As this is a Road Bond Project, public involvement activities will be conducted through the County's existing public involvement contract with Rifeline. The engineer will provide support for the Public Involvement plans for the following activities:

a. Public Involvement Plan

- Prepare materials and provide support for meetings with individual property owner and stakeholder meetings. Prepare revised property owner exhibits for the effected properties of the realigned of the preferred corridor to address property (R010404) owner's concerns.
- One person will attend from engineering team for meetings (26 meetings and 2 additional meetings for the realignment of the preferred corridor to address property (R010404) owner's concerns for a total of 28 meetings assumed) unless it is a large group meeting or environmental support is also requested. Engineer will review and provide feedback on meeting documentation prepared by County's Existing Public Involvement Contract with Rifeline.
- Coordinate/review Corridor Public Involvement plan specific updates (up to 6 updates).
- Review and provide feedback on project status updates or other materials prepared by the County's existing Public Involvement Contract with Rifeline (up to 8 updates/materials).

4. RIGHT-OF-WAY (ROW)

a. ROW:

- Draft preliminary right of way map and list of impacted tracts using the Williamson County Appraisal District office to confirm property data and ownership.
- Maps shall not include metes and bounds or field notes.

- Calculate approximate search data to recover right of way monumentation and make initial pass to recover right of way monumentation.

b. DELIVERABLES:

- Preliminary ROW Map and affected property owner list (drawing file, kmz, pdf, and hardcopies)
- Final ROW Map and affected property owner list (drawing file, kmz, pdf, and hardcopies)

5. SURVEYING

a. FIELD SURVEYING:

- Utilize current available County LiDAR Data provided by Williamson County.
- Attempt to locate and verify aerial LiDAR mapping control to ground targets in the immediate area.
- Establish horizontal and vertical control using 3 intervisible monument pairs at locations at both ends and centroidal to project corridor. Coordinate with connecting project surveys and verify compatibility of control coordinate systems and establish a homogenous Combined Scale Factor (CSF).
- Survey a sample of ground data (cross sectional) in areas not requiring right of entry e.g., crossing roadways, accessible watercourses, etc. (as needed).
- Perform coordinate system translations for existing file integration and to generate a homogenous project coordinate system.

b. DELIVERABLES:

- DGN file of ground truthing data and crossing roadway information. This will not be a DTM or have associated TIN files.
- DGN of collated and translated files
- Control monument data in ACSII format
- ASCII file of ground truthing data

6. SCHEMATIC DEVELOPMENT

a. Schematic:

- Prepare Preliminary, Revised Preliminary for the realignment of the preferred corridor to address property (R010404) owner's concerns & Final (Ultimate) Schematic (approximately

7 miles in length) submittal per Williamson County Schematic submittal checklist and selected design criteria including proposed cross sections, typical sections, roadway centerline, proposed drainage structures, direction of flow and number of travel lanes, intersecting streets, property boundaries and information, ROW and easement locations, preliminary pavement section, driveway locations, horizontal alignment data, profile data, identification of known utilities.

- Preparing schematic level bridge structures for the preferred schematic route. Provide preliminary location of Abutments and Bents, including straddle bents. Engineer will also provide preliminary span lengths and superstructure depths. One route will be considered. Prepare schematic level bridge structures for the realignment of the preferred corridor to address property (R010404) owner's concerns. One additional route will be considered.

b. Prepare Engineering Cost Estimate
   - Prepare Preliminary, Revised Preliminary for the realignment of the preferred corridor to address property (R010404) owner's concerns & Final Engineering Costs Estimate for the construction quantities covering all items of the proposed work. Preliminary estimates shall be calculated for each alternative identified.

c. DELIVERABLES:
   - Preliminary Schematic including cost estimate.
   - Revised Preliminary Schematic including cost estimate for revised alignment of the preferred corridor to address property (R010404) owner's concerns.
   - Final (Ultimate) Schematic including cost estimate.

7. <u>DRAINAGE STUDY</u>

a. Hydrologic/Hydraulic Modeling (10 major channel crossings, X cross drainage structures assumed):

   - Prepare preliminary hydrologic and hydraulic review for the recommended alternative. The analysis will include identification of cross drainage structure locations and preliminary sizing of structures.

   - Prepare schematic level hydrologic and hydraulic models or modify existing models (County's best available data – Atlas 14 draft models, drainage districts, river authorities, cities, etc.) if available, to define the drainage infrastructure required for up to 1 alignment alternative for the ultimate design schematic. Detail the methodologies employed and recommendations. The analysis will include: preparation of a preliminary design of the right of way drainage system, cross drainage structures, major channel crossings to reflect the existing and proposed conditions, recommended minimum pavement elevations based on cross drainage flood elevations for culverts; right-of-way requirements; and identify potential needs for FEMA Coordination. HEC-RAS shall be utilized for modeling all river and major channel crossings. HY-8 shall be used for non-bridge class culverts. Atlas 14

impacts will be reviewed and incorporated. Revise schematic level hydrologic and hydraulic models for the realigned preferred corridor to address property (R010404) owner's concerns.

- Regional Regression equations or another acceptable method shall be used to compute peak discharges for validation purposes and to help evaluate preliminary alignments. Once the preferred alignment is chosen, detailed hydrologic computations shall be provided based on methodologies recommended by the controlling drainage criteria manual, including technical standards from the County Atlas 14 project.
- Develop existing channel cross sections based on data collection County data and readily available internet LiDAR data.
- Exhibits and analysis will be prepared in the GIS environment to the extent practical.
- Onsite parallel drainage for ditch and/or storm sewer sizing will only be analyzed to determine project ROW needs. Detailed inlet level calculations are not included in this scope. Revise analysis of onsite parallel ditch drainage and cross culverts for the realigned preferred corridor to address property (R010404) owner's concerns.

b. FEMA Coordination:

- Coordinate with Local Floodplain Administrator as necessary throughout the project.
- Determine if a CLOMR or LOMR will be required and recommended. *If a CLOMR or LOMR is required after the Preliminary Drainage Report and through coordination with the Local Floodplain Administrator, a supplemental work authorization would be required.*

c. Impact and Mitigation Analysis:

- Prepare an impact analysis to determine increases in peak flow rates for the 2,10,25, and 100-year storm events including: existing and proposed peak flow rates, mitigation analysis, conceptual detention basin layouts, design of control structures, routing of storm hydrographs through basins. Revise impact and mitigation analysis for the realigned preferred corridor to address property (R010404) owner's concerns.
- Provide a comparison of existing versus proposed conditions at each outfall from the project area.
- Provide measures to mitigate adverse impacts to nearby buildings, property access points and runoff patterns.
- Calculate the volume of fill to be placed in the 100-year floodplain and recommend locations for compensatory storage.

d. Water Quality Analysis

- Prepare a schematic level water quality analysis to determine ROW needs for accommodation of water quality treatment BMPs in accordance with TxDOT, City of Jarrell, Williamson County Sustainable Roadside Guidelines, Williamson County Subdivision

Guidelines, and the TCEQ Edwards Aquifers Protection Program. Initial evaluation of the Corridor J alignment indicates the eastern portion is located within the Edward's Aquifer Recharge Zone. Revise schematic level water quality analysis the realigned corridor to address property (R010404) owner's concerns.

e. Schematic Draft Drainage Report (Preferred Route)

- Prepare a draft drainage report for the preferred route.

f. Revised Schematic Draft Drainage Report (Revised Preferred Route to address property (R010404) owner's concerns)

- Prepare a draft drainage report for the preferred route to address property (R010404) owner's concerns.

g. Schematic Final Drainage Report (Preferred Route)

- Prepare a final drainage report for the preferred route.

`DELIVERABLES:

- Schematic Draft and Final Drainage Report.

8. ENVIRONMENTAL SERVICES (Included for the recommended route option only)

a. County Due Diligence:

- In addition to a constraints map and preparing a report, the environmental services will include desktop level research and field reconnaissance from public ROW, per the Williamson Design Criteria Manual.

  The Environmental Services will consist of desktop level research and field reconnaissance from the public ROW, per the Williamson County Environmental Protocol, including incorporation of Threatened & Endangered Species and Karst information compiled by County's On-Call Environmental Consultant.

  TxDOT Environmental Clearance is not included in this scope of services.

b. Data Collection & Field Reconnaissance:

- Obtain and update periodically publicly available information including but not limited to: locations of public buildings (schools, churches, cemeteries, parks), aerial photography, National Wetland Inventory Maps, County Soil Survey Maps, TCEQ & EPA Hazardous Materials Database Information, THC cultural resource information, FEMA Floodplain Information, Vegetation Information, Environmental Information from the appropriate local, state, or federal agencies, Threatened & Endangered Species Information.

- Conduct a regulatory records review to identify listed hazardous waste generators, treatment, storage and disposal facilities; solid waste landfills, unauthorized sites; documented spills;

oil and gas exploration and production sites; and underground storage tank sites within the proposed site location. The review will also identify other environmental risks along the project corridor.

- Conduct limited field reconnaissance from publicly accessible rights of way to visually inspect the project site for additional risks and field verify any environmental risks identified by the regulatory records review.

c. Hazardous Materials Initial Site Assessment:

- Prepare a Hazardous Materials Initial Site Assessment (ISA) based on the data collection and field reconnaissance conducted and identify potential hazardous material sites that may be impacted by the proposed project. Conduct hazardous materials database search for the realignment portion of the preferred corridor to address property (R010404) owner's concerns.

- Should the findings of the ISA conclude that additional investigation, special considerations, or other commitments from the County are required during future stages of project development, the Engineer will review those findings and commitments with the County prior to completing the hazardous materials discussion.

d. Karst Investigations will be performed by the Williamson County On-Call Environmental Consultant.

e. Section 404 Clean Water Act Compliance:

- Prepare a wetland determination and delineation report on the preferred alignment only to assist in identifying potential waters of the US, including wetlands, specific impacts of the project on the Waters of the U.S., measures to minimize the impacts will be identified, and discuss applicable Section 404 options in accordance with current permits and conditions based on data collection and field reconnaissance. Wetland delineations shall be performed in accordance with the current USACE Wetlands Delineation Manual (Technical Report Y-87-1), and the appropriate regional supplement.

- The intention of the Section 404 investigation is to avoid an individual permit through design. If a Nationwide Permit 14 Preconstruction Notification to the USACE or an individual permit is determined to be required, then it would be carried out under an additional scope and fee.

f. Endangered Species Act Compliance will be performed by the Williamson County On-Call Environmental Consultant.

g. Texas Antiquities Code (TAC)/Section 106 Compliance:

- Identify potential impacts of project on historic aged buildings within the constraints map and document historic buildings and structures within the Area of Potential Effect based on data collection and field reconnaissance.

- Prepare a Project Initiation Letter, Texas Antiquities Permit Application, and Associated Scope of Work based on data collection and field reconnaissance for the preferred alignment only.

- Conduct a pedestrian survey and report of sufficient intensity to determine the nature, extent, and potential significance of any cultural resources located within the Area of Potential Effect in accordance with full report guidelines as outlined by the Texas Historical Commissions Rules of Practice and Procedures.

- Coordination with Texas Historical Commission including submittals to Texas Historical Commission and project records to the appropriate curation facility per Texas Historical Commission requirements.

h. DELIVERABLES:
- Draft & Final Environmental Due Diligence Report
- Draft, Revised Draft for realignment of the preferred corridor to address property (R010404) owner's concerns & Final Environmental Due Diligence Report for Recommended Route Option
- Draft & Final Regulatory Records Review
- Draft and Final Hazardous Materials Initial Site Assessment for Recommended Route Option
- Draft & Final Wetlands Determination and Water Resources Report
- Draft & Final Threatened and Endangered Species Impacts Analysis Report
- Draft & Final Historic Resource Survey
- Draft & Final Texas Antiquities Permit Application and associated Scope of Work
- Draft & Final Archeological Resources Report.

9. DELIVERABLES:

a. Documents:
- All contract documents, including a pdf copy of each deliverable, native electronic files, models and calculations will be uploaded to the County's project management database at each milestone and at the completion of the project. One hard copy of each deliverable will be provided unless additional copies are required per the submittal checklist.

10. EXCLUSIONS:

a. The following items are not included in this work authorization:

- TRAFFIC DATA COLLECTION OR TRAFFIC ANALYSIS

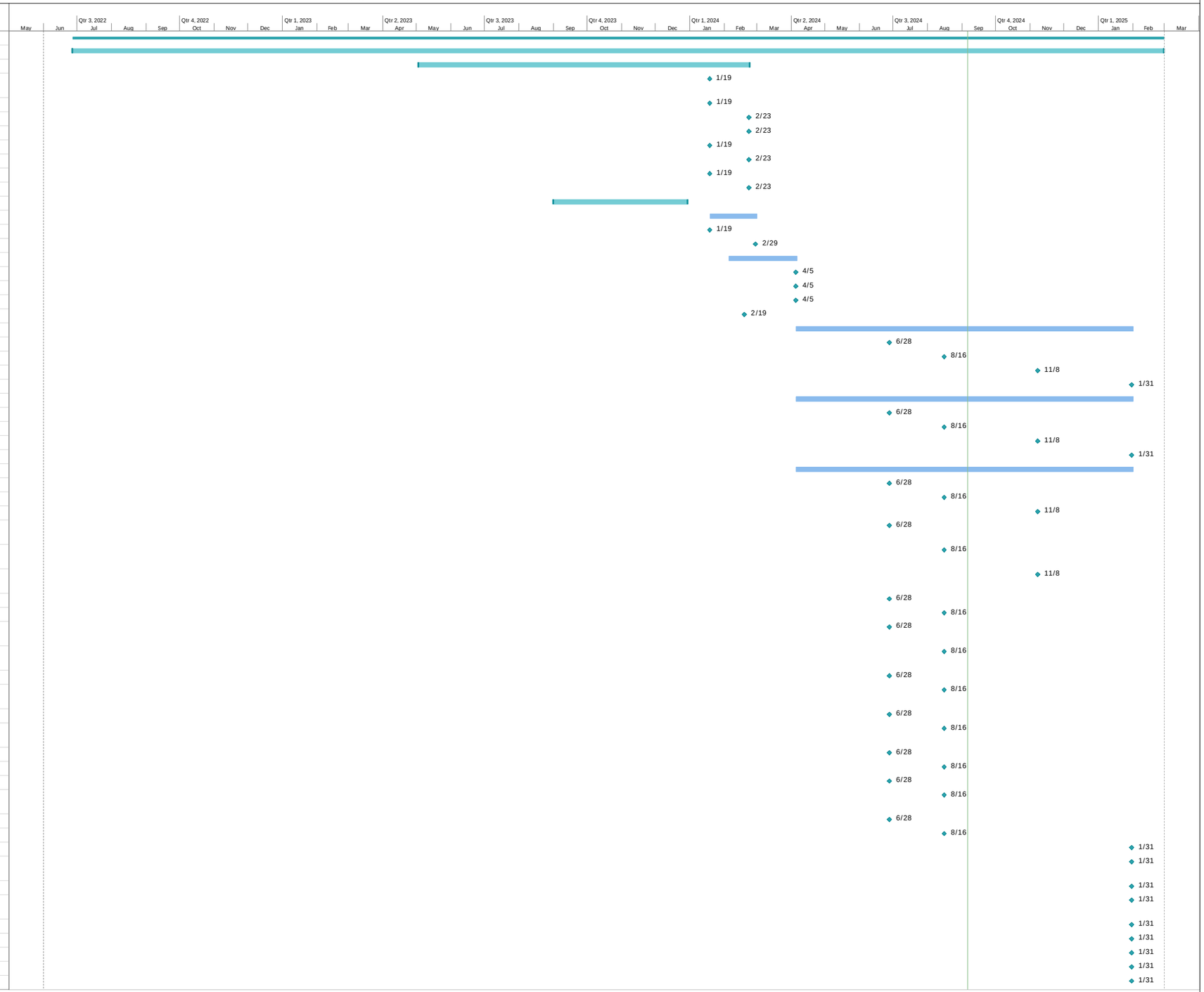
- TXDOT NEPA DOCUMENTATION

- NATIONWIDE PERMIT (NWP) 14 WITH A PRE-CONSTRUCTION NOTIFICATION (PCN)

- INTERIM SCHEMATIC
- PLAN PREPARATION (PS&E) SERVICES
- BIDDING PHASE SERVICES
- CONSTRUCTION PHASE SERVICES
- UTILITY COORDINATION OR RELOCATION ESTIMATES
- RIGHT OF ENTRY TO PRIVATE PROPERTIES
- GEOTECHNICAL ENGINEERING
- NOISE WALLS
- TRAFFIC CONTROL/CONSTRUCTION SEQUENCE
- CONSTRUCTION TIME DETERMINATION
- CLOMR or LOMR
- ENVIRONMENTAL SERVICES:
    - ENDANGERED SPECIES ACT COMPLIANCE DOCUMENTATION (performed by others)
    - KARST FEATURE SURVEY (performed by others)
    - GEOLOGIC ASSESSMENT (performed by others)
    - ARCHEOLOGICAL SURVEY (performed by others)
    - HAZARDOUS MATERIALS PHASE I ESA, PHASE II (TESTING) OR PHASE III (REMEDIATION).

Attachment C - Schedule
Corridor J3

ID	Task Mod	Task Name	Duration	Start	Finish	Predecessors
1		Corridor J3 Route Study and Preliminary Schematic				
2		TASK 1 - PROJECT MANAGEMENT	700 days	Mon 6/27/22	Fri 2/28/25	
3		TASK 2 - ROUTE AND DESIGN STUDIES	213 days	Wed 5/3/23	Fri 2/23/24	
4		Submittal of property owner meeting minutes, sign in sheets, presentations, maps and exhibits	0 days	Fri 1/19/24	Fri 1/19/24	
5		Draft Constraints Map and Technical Memorandum Recommendation	0 days	Fri 1/19/24	Fri 1/19/24	
6		Final Constraints Map and Technical Memorandum Recommendation	0 days	Fri 2/23/24	Fri 2/23/24	
7		Memorandon of Recommendation	0 days	Fri 2/23/24	Fri 2/23/24	
8		Draft Corridor J3 Study Report	0 days	Fri 1/19/24	Fri 1/19/24	
9		Final Corridor J3 Study Report	0 days	Fri 2/23/24	Fri 2/23/24	
10		Draft Design Summary Report	0 days	Fri 1/19/24	Fri 1/19/24	
11		Final Design Summary Report	0 days	Fri 2/23/24	Fri 2/23/24	
12		TASK 3 - PUBLIC INVOLVEMENT	86 days	Fri 9/1/23	Fri 12/29/23	
13		TASK 4 - RIGHT OF WAY	30 days	Fri 1/19/24	Thu 2/29/24	
14		Preliminary ROW Map amd Affected Property Owner Lsit	0 days	Fri 1/19/24	Fri 1/19/24	
15		Final ROW Map amd Affected Property Owner Lsit	0 days	Thu 2/29/24	Thu 2/29/24	
16		TASK 5 - SURVEY	45 days	Mon 2/5/24	Fri 4/5/24	
17		DGN file of ground truthing and crossing roadway information	0 days	Fri 4/5/24	Fri 4/5/24	
18		ASCII file of ground truthing data	0 days	Fri 4/5/24	Fri 4/5/24	
19		DGN of collated and translated data	0 days	Fri 4/5/24	Fri 4/5/24	
20		Control monument data in ACSII format	0 days	Mon 2/19/24	Mon 2/19/24	
21		TASK 6 - SCHEMATIC DEVELOPMENT	216 days	Fri 4/5/24	Fri 1/31/25	19
22		Preliminary Schematic (Ultimate) and Cost Estimate	0 days	Fri 6/28/24	Fri 6/28/24	
23		Preliminary Schemtatic (Realigned P010404) and Cost Estimate	0 days	Fri 8/16/24	Fri 8/16/24	
24		Preliminary Schemtatic (Realigned P330622 & P010378) and Cost Estimate	0 days	Fri 11/8/24	Fri 11/8/24	
25		Final Schematic (Ultimate) and Cost Estimate	0 days	Fri 1/31/25	Fri 1/31/25	
26		TASK 7 - DRAINAGE STUDY	216 days	Fri 4/5/24	Fri 1/31/25	
27		Schematic Draft Drainage Report	0 days	Fri 6/28/24	Fri 6/28/24	
28		Schematic Draft Drainage Report (Realigned P010404)	0 days	Fri 8/16/24	Fri 8/16/24	
29		Schematic Draft Drainage Report (Realigned P330622 & P010378)	0 days	Fri 11/8/24	Fri 11/8/24	
30		Schematic Final Drainage Report	0 days	Fri 1/31/25	Fri 1/31/25	
31		TASK 8 - ENVIRONMENTAL SERVICES	216 days	Fri 4/5/24	Fri 1/31/25	
32		Draft Environmnetal Due Diligence Report	0 days	Fri 6/28/24	Fri 6/28/24	
33		Draft Environmnetal Due Diligence Report (Realigned P010404)	0 days	Fri 8/16/24	Fri 8/16/24	
34		Draft Environmnetal Due Diligence Report (Realigned P330622 & P010378)	0 days	Fri 11/8/24	Fri 11/8/24	
35		Draft Environmnetal Due Diligence Report of Recommended Route Option	0 days	Fri 6/28/24	Fri 6/28/24	
36		Draft Environmnetal Due Diligence Report of Recommended Route Option (Realigned P010404)	0 days	Fri 8/16/24	Fri 8/16/24	
37		Draft Environmnetal Due Diligence Report of Recommended Route Option (Realigned P330622 & P010378)	0 days	Fri 11/8/24	Fri 11/8/24	
38		Draft Regulatory Records Review	0 days	Fri 6/28/24	Fri 6/28/24	
39		Draft Regulatory Records Review (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
40		Draft Hazardous Materials Initial Site Assessment for Recommended Route Option	0 days	Fri 6/28/24	Fri 6/28/24	
41		Draft Hazardous Materials Initial Site Assessment for Recommended Route Option (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
42		Draft Wetlands Determination and Water Resources Report	0 days	Fri 6/28/24	Fri 6/28/24	
43		Draft Wetlands Determination and Water Resources Report (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
44		Draft Threatened and Endangered Species Impacts Analysis Report	0 days	Fri 6/28/24	Fri 6/28/24	
45		Draft Threatened and Endangered Species Impacts Analysis Report (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
46		Draft Historic Resource Survey	0 days	Fri 6/28/24	Fri 6/28/24	
47		Draft Historic Resource Survey (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
48		Draft Texas Antiquities Permit Application ans Associated Scope of Work	0 days	Fri 6/28/24	Fri 6/28/24	
49		Draft Texas Antiquities Permit Application ans Associated Scope of Work (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
50		Draft Archeological Resources Report	0 days	Fri 6/28/24	Fri 6/28/24	
51		Draft Archeological Resources Report (Realigned Ultimate)	0 days	Fri 8/16/24	Fri 8/16/24	
52		Final Environmnetal Due Diligence Report	0 days	Fri 1/31/25	Fri 1/31/25	
53		Final Environmnetal Due Diligence Report of Recommended Route Option	0 days	Fri 1/31/25	Fri 1/31/25	
54		Final Regulatory Records Review	0 days	Fri 1/31/25	Fri 1/31/25	
55		Final Hazardous Materials Initial Site Assessment for Recommended Route Option	0 days	Fri 1/31/25	Fri 1/31/25	
56		Final Wetlands Determination and Water Resources Report	0 days	Fri 1/31/25	Fri 1/31/25	
57		Final Threatened and Endangered Species Impacts Analysis Report	0 days	Fri 1/31/25	Fri 1/31/25	
58		Final Historic Resource Survey	0 days	Fri 1/31/25	Fri 1/31/25	
59		Final Texas Antiquities Permit Application ans Associated Scope of Work	0 days	Fri 1/31/25	Fri 1/31/25	
60		Final Archeological Resources Report	0 days	Fri 1/31/25	Fri 1/31/25	



Project: Corridor E4
Date: Fri 9/6/24

Task | Milestone | Project Summary | Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | External Tasks | Deadline | Manual Progress
Split | Summary | Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | External Milestone | Progress

ATTACHMENT "D" FEE SCHEDULE

SUMMARY

Corridor J3

Task	Description	Halff Associates, Inc.			BGE			STANTEC			TOTALS
		WA1 Total	SWA #2 Additional	TOTAL	WA1 Total	SWA #2 Additional	TOTAL	WA1 Total	SWA #2 Additional	TOTAL	
Task 1	PROJECT MANAGEMENT	$ 162,135.00	$ -	$ 162,135.00	$ 61,143.65		$ 61,143.65	$ 4,920.00		$ 4,920.00	$ 228,198.65
Task 2	ROUTE AND DESIGN STUDIES	$ 291,856.00	$ -	$ 291,856.00	$ 198,843.26		$ 198,843.26				$ 490,699.26
Task 3	PUBLIC INVOLVEMENT	$ 75,600.00	$ -	$ 75,600.00	$ 17,155.16		$ 17,155.16				$ 92,755.16
Task 4	ROW	$ 97,994.00	$ -	$ 97,994.00							$ 97,994.00
Task 5	SURVEYING	$ 56,033.00	$ -	$ 56,033.00							$ 56,033.00
Task 6	SCHEMATIC DEVELOPMENT	$ 335,006.00	$ 69,348.00	$ 404,354.00	$ 423,950.52	$ 63,792.00	$ 487,742.52				$ 892,096.52
Task 7	DRAINAGE STUDY	$ 326,173.00	$ 53,637.00	$ 379,810.00							$ 379,810.00
Task 8	ENVIRONMENTAL SERVICES	$ 39,108.00	$ -	$ 39,108.00				$ 29,040.00	$ 5,970.00	$ 35,010.00	$ 74,118.00
Direct Expenses		$ 8,720.00	$ -	$ 8,720.00	$ 5,009.00		$ 5,009.00	$ 1,922.50	$ 645.38	$ 2,567.88	$ 16,296.88
SUB TOTALS		$1,392,625.00	$ 122,985.00	$1,515,610.00	$ 706,101.59	$ 63,792.00	$ 769,893.59	$ 35,882.50	$ 6,615.38	$ 42,497.88	$2,328,001.47
Percentage		65.2%		65.1%	33.1%		33.1%			1.8%	100.0%
TOTAL WORK											**$2,328,001.47**

ATTACHMENT "D" FEE SCHEDULE

HALFF ASSOCIATES

Corridor J3

TASK/DESCRIPTION	PRINCIPAL-IN-CHARGE	PROJECT MANAGER	DEPUTY PROJECT MANAGER	QUALITY MANAGER	SR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	GIS OPERATOR SR	RPLS TASK LEADER	SENIOR SURVEY TECHNICIAN	SURVEY TECHNICIAN	2PERSON SURVEY CREW	3 PERSON SURVEY CREW	SENIOR ENVIRO SCIENTIST	ENVIRO SCIENTIST III	ENVIRO SCIENTIST I/II	ENVRIO SCIENTIST IV (ARCH PI)	SENIOR FIELD TECH (ARCH)	FIELD TECH (BIO/ARCH)	CLERICAL / ADMIN	TOTAL MAN-HOURS	SUB ID.	TOTAL LABOR FOR TASK
TASK 1 PROJECT MANAGEMENT																								
A COMMUNICATION	2	8	40																			50		$ 12,934
B PROGRESS REPORTS/INVOICING (20 MONTHS)		10	32																		16	58		$ 12,088
C QA/QC		1	3	3																		7		$ 1,759
PREPARE PLAN		8	13	5	19											10					10	65		$ 13,402
QC DELIVERABLES		8	6	6	19		19															58		$ 12,536
CONTINUOUS QC			8	16		16																40		$ 9,032
D PROJECT COORDINATION/ADMIN		6	16	3		12																37		$ 8,678
PREPARE AND MAINTAIN RECORDKEEPING	1	18	24	3		12	3														30	91		$ 17,322
CORRESPONDENCE AND COORDINATION WITH GEC		6	32	3		12	4															57		$ 13,314
MANAGE ACTIVITIES		4	3			3																10		$ 2,404
E PROGRESS/COORDINATION MEETINGS																								$ -
COORDINATION/STAEKHOLDER MTGS (12)		12	56		16	16		64														164		$ 32,184
INTERNAL COORDINATION MTGS		12	20		12		12	60														116		$ 20,476
F PROJECT SCHEDULE AND UPDATE			10				6	19													2	37		$ 6,006
																								$ -
SUBTOTAL HOURS/COSTS	**3**	**93**	**263**	**39**	**66**	**71**	**44**	**143**								**10**					**58**	**790**		**$162,135**
TASK 2 ROUTE AND DESIGN STUDIES																								
A DATA COLLECTION																								
RECORD RESEARCH AND OBTAIN EXISTING INFORMATION			4				14	24								26						68		$ 9,942
FIELD INVESTIGATION		6	12				24	32														74		$ 12,372
ADJACENT PROPERTY OWNERSHIP SPREADSHEET			4					48								48						100		$ 13,964
B STAKEHOLDER COORDINATION																								$ -
STAKEHOLDER COORDINATION MEETINGS (4)		4	12																			16		$ 4,084
PREPARE IMPACTED PARCEL EXHIBITS			8		10	60	20	140														238		$ 36,678
																								$ -
C CONSTRAINTS MAP 5 PRELIMINARY ALIGNMENTS ASSUMED)																								$ -
DEVELOP CONTSTRAINTS MAP	2	4	12		10	20		80	60							36						224		$ 33,988
DEVELOP ROUTE CONCEPTS	2	4	12	8	13	60	60	160	32							32						383		$ 59,601
ROUTE COSTS			10			40	30	60														140		$ 22,440
EVALUTATION CRITERIA (DEVELPOP/QUANTIFY)		4	8		40	40	20	40														152		$ 28,340
REFINE RECOMMENDED ROUTE OPTION	1	8	8			4	8	40														69		$ 11,579
D DESIGN CRITERIA			2			6	4	12														24		$ 3,792
E DRAFT AND FINAL MEMORANDUM	2	6	13	3	15	32	10	48													5	134		$ 24,088
F CORRIDOR E ROUTE STUDY REPORT	2	4	12	4	20	16	24	66													8	156		$ 26,330
G DESIGN SUMMARY FORM					4	4	6	16														30		$ 4,658
																								$ -
																								$ -
																								$ -
SUBTOTAL HOURS/COSTS	**9**	**40**	**117**	**15**	**112**	**282**	**220**	**766**	**92**							**142**					**13**	**1808**		**$291,856**
TASK 3 PUBLIC INVOLVEMENT																								
A PI Plan																								
COORDINATION/MAP PRODUCTION		16	24		24	40		60														164		**$31,232**
Property Owner Meetings (Up to 26)		16	52																			68		**$17,340**
Feedback on PI Materials		4	16			26																46		**$10,106**
Review and provide feedback to on project status updates		4	20			30		40														94		**$16,922**
SUBTOTAL HOURS/COSTS		**40**	**112**		**24**	**96**		**100**														**372**		**$75,600**

ATTACHMENT "D" FEE SCHEDULE

HALFF ASSOCIATES

Corridor J3

TASK 4	ROW																						
	DRAFT PRELIMINARY ROW MAP		2	6		12	36		120	40												216		$32,050
	FINAL PRELIMINARY ROW MAP		2	6		12	36		80	40	16	36	110	100								438		$65,944
	SUBTOTAL HOURS/COSTS		4	12		24	72		200	80	16	36	110	100								654		$97,994
Task 5	SURVEYING																						
	VERIFY EXISTING CONTROL FOR COUNTY LIDAR										4	2	12	20							1	39		$6,330
	ESTABLISH HORIZONTAL AND VERTICAL CONTROL (6 TOTAL)										3	8	16	20	20						2	69		$12,391
	GROUND TRUTHING FOR LIDAR										2	12	24	70							1	109		$17,762
	PRODUCTION OF DELIVERABLES										24	40	80								1	145		$19,550
	SUBTOTAL HOURS/COSTS										33	62	132	110	20						5	362		$56,033
TASK 6	SCHEMATIC DEVELOPMENT																						
	A Schematic LAYOUT			20		20	48	60	160													308		$48,444
	SCHEMATIC DEVELOPMENT (includes 2 full interchange)		12	24	16	160	280	280	360													1132		$193,576
	SCHEMATIC DESIGN SUBMITTAL DELIVERABLES																						
	PREPARE PRELIMINARY SCHEMATIC DELIVERABLE		1	12	4	60	84	88	160													409		$68,376
	Revise preliminary schemetic (Recommend Alt realignment)				8		80	140	240															$69,348
	PREPARE FINAL SCHEMATIC DELIVERABLE		1	8	2		24	46	80													161		$24,610
	B Engineering Cost Estimate (BGE)																						
	SUBTOTAL HOURS/COSTS		14	64	30	240	516	614	1000													2010		$404,354
TASK 7	DRAINAGE STUDY																						
	OBTAIN AND REVIEW AVAILABLE MODELS AND DATA COLLECTION			1			4	8	16													29		$4,279
	A HYDROLOGIC/HYDRAULIC MODELING																						
	PREPARE PRELIMINARY MODELS FOR RECOMMENDED ALT		1	5	6	22	36	56	112	28												266		$41,493
	PREPARE SCHEMATIC LEVEL HYDROLOGIC AND HYDRAULIC MODELS			5	6	22	52	56	176	28												345		$52,377
	DEVELOP EXISTING CHANNEL CROSS SECTIONS			5	3	14	24	40	60	10												156		$24,955
	PARALLEL DRAINAGE FOR ROW NEEDS			5	6	14	24	42	64	10												165		$26,507
	B FEMA COORDINATION																						
	COORDINATE WITH LOCAL FPA					2	8	12	4													26		$4,378
	DETERMINE IF CLOMR/LOMR REQUIRED			4	4	20	16	24	60	16												144		$23,104
	C IMPACT AND MITIGATION ANALYSIS																						
	PREPARE AN IMPACT ANALYSIS			3	6	16	68	152	204	72												521		$77,593
	D WATER QUALITY ANALYSIS																						
	WQ BMP EVALUATION			3	6	16	50	120	120	50												365		$55,759
	SCHEMATIC REPORTS																						
	E DRAFT			9	10	26	52	80	88	20												285		$46,913
	F FINAL			8	8	12	24	32	40	8												132		$22,452
	SUBTOTAL HOURS/COSTS		1	48	55	164	358	622	944	242												2434		$379,810
TASK 8	ENVIRONMENTAL SERVICES																						
	A ENVIRONMENTAL DUE DILIGENCE AND REPORT																						
	PREPARE AND SUBMIT DRAFT REPORT FOR WILCO REVIEW																						
	PREPARE AND SUBMIT FINAL REPORT FOR WILCO REVIEW AND CONCURRANCE																						
	B DATA COLLECTTION AND FIELD RECONNAISSANCE																						
	OBTAIN AND UPDATE PUBLIC DATA																						
	CONDUCT REGULATORY RECORDS REVIEW																						
	CONDUCT FIELD RECONNAISSANCE																						
	C HAZARDOUS MATERIALS INITIAL SITE ASSESSMENT																						
	D SECTION 404 CLEAN WATER ACT COMPLIANCE																						
	IDENTIFY POTENTIAL WATERS OF THE US															8	48	48			48	8	160		$18,704
	E HISTORICAL SITE COMPLIANCE																						
	CONDUCT HISTORIC RESOURCES SURVEY																						
	PREPARE AND SUBMIT TO THC HISTORIC RESOURCES SURVEY REPORT																						
	F TEXAS ANTIQUITIES CODE COMPLIANCE																						
	ARCHEOLOGICAL SURVEY AND SUMMARY																		48	48	60	8	164		$20,404
	SUBTOTAL HOURS/COSTS															8	48	48	48	48	108	16	324		$39,108

ATTACHMENT "D" FEE SCHEDULE

HALFF ASSOCIATES

Corridor J3

FEE SUMMARY																							
TASK 1	**PROJECT MANAGEMENT**	3	93	263	39	66	71	44	143								10					58	**790**		**$162,135.00**
TASK 2	**ROUTE AND DESIGN STUDIES**	9	40	117	15	112	282	220	766	92							142					13	**1808**		**$291,856.00**
TASK 3	**PUBLIC INVOLVEMENT**		40	112		24	96		100														**372**		**$75,600.00**
TASK 4	**ROW**		4	12		24	72		200	80	16	36	110	100									**654**		**$97,994.00**
TASK 5	**SURVEYING**										33	62	132	110	20							5	**362**		**$56,033.00**
TASK 6	**SCHEMATIC DEVELOPMENT**		14	64	30	240	516	614	1000														**2478**		**$404,354.00**
TASK 7	**DRAINAGE STUDY**		1	48	55	164	358	622	944	242													**2434**		**$379,810.00**
TASK 8	**ENVIRONMENTAL SERVICES**															8	48	48	48	48	108	16	**324**		**$39,108.00**
TOTAL HOURS		**12**	**192**	**616**	**139**	**630**	**1395**	**1500**	**3153**	**414**	**49**	**98**	**242**	**210**	**20**	**8**	**200**	**48**	**48**	**48**	**108**	**92**	**9222**		**$1,506,890**
CONTRACT RATES ($)		$375.00	$268.00	$251.00	$246.00	$235.00	$193.00	$155.00	$126.00	$128.00	$241.00	$128.00	$107.00	$187.00	$251.00	$212.00	$144.00	$105.00	$179.00	$118.00	$91.00	$86.00			
TOTAL LABOR COSTS		$4,500	$51,456	$154,616	$34,194	$148,050	$269,235	$232,500	$397,278	$52,992	$11,809	$12,544	$25,894	$39,270	$5,020	$1,696	$28,800	$5,040	$8,592	$5,664	$9,828	$7,912			**$1,506,890.00**
TOTAL BY CATEGORY		**0%**	**3%**	**10%**	**2%**	**10%**	**18%**	**15%**	**26%**	**4%**							**2%**					**1%**	**92%**		**$1,506,890.00**
																							TOTAL LABOR =		**$1,506,890.00**
																							TOTAL ODE =		**$8,720.00**
TOTAL FEE																							**TOTAL FEE =**		**$1,515,610.00**

DIRECT EXPENSE ITEMS	UNIT	QTY	PRICE	TOTAL	
Standard Postage	letter		Current Postal rate		
Certified Letter Return Receipt	each		Current Postal rate		
MILEAGE	mile	1000	$0.545	$545.00	OR CURRENT IRS RATE
OVERNIGHT MAIL - LETTER SIZE	each		$25.40		OR CURRENT POSTAL RATE
OVERNIGHT MAIL - OVERSIZED BOX	each		$35.00		
COURIER SERVICES	each		$35.00		
PHOTOCOPIES B/W (11" X 17")	each		$0.20		
PHOTOCOPIES B/W (8 1/2" X 11")	each		$0.10		
PHOTOCOPIES COLOR (11" X 17")	each	200	$1.25	$250.00	
PHOTOCOPIES COLOR (8 1/2" X 11")	each		$0.75		
DIGITAL ORTHO PLOTTING	sheet		$1.75		
PLOTS (B/W ON BOND)	per sq. ft.		$0.60		
PLOTS (COLOR ON BOND)	per sq. ft.	500	$1.60	$800.00	
PLOTS (COLOR ON PHOTOGRAPHIC PAPER)	per sq. ft.		$4.00		
NOTEBOOKS	each		$5.00		
Backhoe and Operator	each	2	$3,000.00	$6,000.00	
Records Curation	each	2	$350.00	$700.00	
Materials Curation	each	1	$425.00	$425.00	
			TOTAL	$8,720.00	

ATTACHMENT "D" FEE SCHEDULE

BGE

CORRIDOR J3

TASK / DESCRIPTION	PRINCIPAL-IN-CHARGE	QA QC	SENIOR PROJECT MANAGER	SR PROJECT ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SR TECH	TOTAL MAN-HOURS	TOTAL LABOR FOR TASK
TASK 1 PROJECT MANAGEMENT										
A COMMUNICATION	1	2	3	4	5	3			18	$4,007
B PROGRESS REPORTS/INVOICING (8 MONTHS)			12	1			5		18	$3,931
C QA/QC PLAN										
PREPARE PLAN		2	1	1			1		5	$1,153
QC DELIVERABLES		2	1	2	2	2	1		10	$2,112
CONTINUOUS QC		6	4	1					11	$2,853
D PROJECT COORDINATION/ADMIN										
PREPARE AND MAINTAIN RECORDKEEPING	1	1	24	7		2	18		53	$10,951
CORRESPONDENCE AND COORDINATION WITH GEC (By others)										
MANAGE ACTIVITIES			24	16			40		80	$15,100
E PROGRESS/COORDINATION MEETINGS										
COORDINATION/STAKEHOLDER MTGS			24				36		60	$10,955
INTERNAL COORDINATION MTGS (16 INTERNAL)	2	10	5	5	5		5		32	$7,397
F PROJECT SCHEDULE AND UPDATE	1	2				4	9		16	$2,685
SUBTOTAL HOURS/COSTS	**5**	**25**	**98**	**37**	**12**	**11**	**115**		**303**	**$61,144**
TASK 2 ROUTE AND DESIGN STUDIES										
A DATA COLLECTION										
RECORD RESEARCH AND OBTAIN EXISTING INFORMATION		2	4	4	4	8	16		38	$6,725
FIELD INVESTIGATION			2	4	4	20	20		50	$8,110
ADJACENT PROPERTY OWNERSHIP SPREADSHEET (assume 5 alignments)		8	6	4		8	20		46	$8,554
B STAKEHOLDER COORDINATION										
STAKEHOLDER COORDINATION MEETINGS (10)			40	40					80	$19,080
PREPARE IMPACTED PARCEL EXHIBITS		8	20			40	132	56	256	$42,433
C CONSTRAINTS MAP 5 PRELIMINARY ALIGNMENTS ASSUMED)										
DEVELOP CONSTRAINTS MAP (By Others)										
DEVELOP ROUTE CONCEPTS (UP TO 5)	3	6	8	40	50	36	80	24	247	$45,260
ROUTE COST ESTIMATE (Assume 5 Routes)										
EVALUTATION CRITERIA (DEVELPOP/QUANTIFY)	2	6	12	16	16	16	32	16	116	$22,189
REFINE RECOMMENDED ROUTE OPTION (UP TO 5)	1	4	6	8	8	8	16	8	59	$11,365
D DESIGN CRITERIA (Support to Prime)			4	12					16	$3,708
E DRAFT AND FINAL MEMORANDUM		1	2	12	7	18	22		62	$10,769
F CORRIDOR E ROUTE STUDY REPORT		1	18	18	6	15	60		118	$20,650
G DESIGN SUMMARY FORM (By others)										
SUBTOTAL HOURS/COSTS	**6**	**36**	**122**	**158**	**95**	**169**	**398**	**104**	**1088**	**$198,843**

ATTACHMENT "D" FEE SCHEDULE

BGE

CORRIDOR J3

TASK 3	PUBLIC INVOLVEMENT										
A	Public Involvement Plan										
	COORDINATION WITH HALFF TO PROVIDE RIFELINE MATERIALS	2		24	18		10	36		**90**	**$17,155**
	SUBTOTAL HOURS/COSTS	**2**		**24**	**18**		**10**	**36**		**90**	**$17,155**
TASK 5	SCHEMATIC DEVELOPMENT										
	SCHEMATIC										
	DRAFT PRELIMINARY SCHEMATIC (Approximately 4 miles and one complete interchange)	4	20	46	84	240	284	416	140	**1234**	**$216,146**
	WALK Through for selected Alternatives			36	32	8		16		**92**	**$20,133**
	Prelinary Cross sections (Every 100 feet)		20	36	32	144		180		**412**	**$76,448**
	FINAL PRELIMINARY SCHEMATIC	4	24	39	60	88	80	160	80	**535**	**$99,475**
	ENGINEERING COST ESTIMATE (HALFF)			8	12		40	80		**140**	**$21,901**
	Typical Sections		2	16	20	152	60			**250**	**$50,412**
	Cost Estimate (draft and final)		2	4		8					**$3,228**
	SUBTOTAL HOURS/COSTS	**8**	**68**	**185**	**240**	**640**	**464**	**852**	**220**	**2663**	**$487,743**
	FEE SUMMARY										
TASK 1	**PROJECT MANAGEMENT**	5	25	98	37	12	11	115		**303**	**$61,143.65**
TASK 2	**ROUTE AND DESIGN STUDIES**	6	36	122	158	95	169	398	104	**1088**	**$198,843.26**
TASK 3	**PUBLIC INVOLVEMENT**	2		24	18		10	36		**90**	**$17,155.16**
TASK 5	**SCHEMATIC DEVELOPMENT**	8	68	185	240	640	464	852	220	**2677**	**$487,742.52**
TOTAL HOURS		**21**	**129**	**429**	**453**	**747**	**654**	**1401**	**324**	**4158**	
CONTRACT RATES ($)		$290.00	$270.00	$252.00	$225.00	$210.00	$157.00	$136.31	$195.72		
TOTAL LABOR COSTS		$6,090	$34,830	$108,108	$101,925	$156,870	$102,678	$190,970	$63,413		**$764,884.59**
TOTAL BY CATEGORY		**1%**	**5%**	**14%**	**13%**	**21%**	**13%**	**25%**	**8%**	**100%**	**$764,884.59**
										TOTAL LABOR =	**$764,884.59**
										TOTAL ODE =	**$5,009.00**
TOTAL FEE										**TOTAL FEE =**	**$769,893.59**

ATTACHMENT "D" FEE SCHEDULE

BGE

CORRIDOR J3

DIRECT EXPENSE ITEMS	UNIT	QTY	PRICE	TOTAL
MILEAGE	mile	2000	$0.545	$1,090.00
OVERNIGHT MAIL - LETTER SIZE	each	10	$25.40	$254.00
OVERNIGHT MAIL - OVERSIZED BOX	each	10	$35.00	$350.00
COURIER SERVICES	each	8	$35.00	$280.00
PHOTOCOPIES B/W (11" X 17")	each	1000	$0.20	$200.00
PHOTOCOPIES B/W (8 1/2" X 11")	each	2000	$0.10	$200.00
PHOTOCOPIES COLOR (11" X 17")	each	500	$1.25	$625.00
PHOTOCOPIES COLOR (8 1/2" X 11")	each	300	$0.75	$225.00
PLOTS (B/W ON BOND)	per sq. ft.	100	$0.60	$60.00
PLOTS (COLOR ON BOND)	per sq. ft.	1000	$1.60	$1,600.00
COLOR GRAPHICS ON FOAM BOARD	per sq. ft.		$18.00	
PRESENTATION BOARDS 30" X 40" COLOR MOUNTED	each		$150.00	
REPORT PRINTING	each		$50.00	
REPORT BINDING AND TABBING	each		$20.00	
REPRODUCTION OF CD/DVD	each	11		
ENVIRONMENTAL DATABASE SEARCH	each			
FEMA FIS BACKUP DATA REQUEST	each	1	125	$125.00
			TOTAL	$5,009.00

ATTACHMENT "D" FEE SCHEDULE

COX MCCLAIN ENVIRONMENTAL CONSULTING, INC.
Corridor J3

TASK/DESCRIPTION	PROJECT MANAGER	SR ENVIRONMENTAL PLANNER	SR Architectural Historian	SR ENVIRONMENTAL SCIENTIST SR ARCH	Geologist	ENVIRONMENTAL SCIENTIST IV	ENVIRONMENTAL SCIENTIST/ARCH III	ADMIN/ BIO/ARCH I/II	GIS OPERATOR	FIELD TECH SR	FIELD TECH	TOTAL MAN-HOURS	TOTAL LABOR FOR TASK
TASK 1 PROJECT MANAGEMENT													
B PROJECT COORDINATION & ADMINISTRATION	8							8				**16**	**$1,840**
E PROGRESS/COORDINATION MEETINGS													
ATTEND KICKOFF MEETING	1			1								**2**	**$270**
ATTEND PROGRESS MEETINGS BY PHONE	6			4								**10**	**$1,390**
INTERNAL COORDINATION MEETINGS	4			4			4					**12**	**$1,420**
SUBTOTAL HOURS/COSTS	**19**			**9**			**4**	**8**				**40**	**$4,920**
TASK 2 ROUTE AND DESIGN STUDIES													
TASK 7 ENVIRONMENTAL SERVICES (													
A ENVIRONMENTAL DUE DILIGENCE AND REPORT													
PREPARE AND SUBMIT DRAFT REPORT FOR WILCO REVIEW	10	10		2	6	12	12	8	18			**78**	**$8,180**
PREPARE AND SUBMIT FINAL REPORT FOR WILCO REVIEW AND CONCURRANCE		1		1	2	2	2		4			**12**	**$1,195**
B DATA COLLECTTION AND FIELD RECONNAISSANCE													
OBTAIN AND UPDATE PUBLIC DATA													
CONDUCT REGULATORY RECORDS REVIEW		1			2			2				**5**	**$490**
CONDUCT FIELD RECONNAISSANCE	1				16	8		8	8			**41**	**$3,955**
C HAZARDOUS MATERIALS INITIAL SITE ASSESSMENT	2	8		4	34	4		12	12			**76**	**$7,800**
D SECTION 404 CLEAN WATER ACT COMPLIANCE													
IDENTIFY POTENTIAL WATERS OF THE US	2			4		8	8		8			**30**	**$2,970**
E HISTORICAL SITE COMPLIANCE													
CONDUCT HISTORIC RESOURCES SURVEY	2		6	2		20	12		8			**50**	**$4,970**
PREPARE AND SUBMIT TO THC HISTORIC RESOURCES SURVEY REPORT													
F TEXAS ANTIQUITIES CODE COMPLIANCE													
ARCHEOLOGICAL SURVEY AND SUMMARY	2		8	2		20	8		14			**54**	**$5,450**
SUBTOTAL HOURS/COSTS	**19**	**20**	**14**	**15**	**60**	**74**	**42**	**30**	**72**			**346**	**$35,010**

ATTACHMENT "D" FEE SCHEDULE

COX MCCLAIN ENVIRONMENTAL CONSULTING, INC.
Corridor J3

TASK/DESCRIPTION	PROJECT MANAGER	SR ENVIRONMENTAL PLANNER	SR Architectural Historian	SR ENVIRONMENTAL SCIENTIST SR ARCH	Geologist	ENVIRONMENTAL SCIENTIST IV	ENVIRONMENTAL SCIENTIST/ARCH III	ADMIN/ BIO/ARCH I/II	GIS OPERATOR	FIELD TECH SR	FIELD TECH	TOTAL MAN-HOURS	TOTAL LABOR FOR TASK
FEE SUMMARY													
TASK 1 **PROJECT MANAGEMENT**	19			9			4	8				**40**	**$4,920.00**
TASK 7 **ENVIRONMENTAL SERVICES (**	19	20	14	15	60	74	42	30	72			**346**	**$35,010.00**
TOTAL HOURS	**38**	**20**	**14**	**24**	**60**	**74**	**46**	**38**	**72**			**386**	
CONTRACT RATES ($)	$155.00	$130.00	$125.00	$115.00	$105.00	$95.00	$85.00	$75.00	$95.00	$65.00	$60.00		
TOTAL LABOR COSTS	$5,890	$2,600	$1,750	$2,760	$6,300	$7,030	$3,910	$2,850	$6,840				**$39,930.00**
TOTAL BY CATEGORY	**15%**	**7%**		**7%**		**18%**	**10%**	**7%**	**17%**			**80%**	**$39,930.00**
											TOTAL LABOR =		**$39,930.00**
											TOTAL ODE =		**$2,567.88**
											TOTAL FEE =		**$42,497.88**

DIRECT EXPENSE ITEMS	QTY	UNIT	PRICE	TOTAL
Mileage	675	mile	$0.545	$367.88
Photocopies B/W (8 1/2" X 11")		each	$0.10	
Photocopies Color (8 1/2" X 11")		each	$0.75	
Photocopies B/W (11" X 17")		each	$0.20	
Photocopies Color (11" X 17")		each	$1.25	
Plots (B/W on Bond)		per sq. ft.	$0.60	
Plots (Color on Bond)		per sq. ft.	$1.60	
Environmental Field Supplies (lathes, stakes, flagging, spray paint, etc.)		day	$50.00	
Hazardous Materials Database Search	4	Each	$550.00	$2,200.00
CAS Curation (records only)		LS	$450.00	
TARL Site Forms		Each	$96.00	
Backhoe Rental (assume none)		day	$1,500.00	
Overnight Mail - Letter Size		each	$25.40	
Overnight Mail - Oversized Box		each	$35.00	
			TOTAL	$2,567.88