

EXHIBIT A

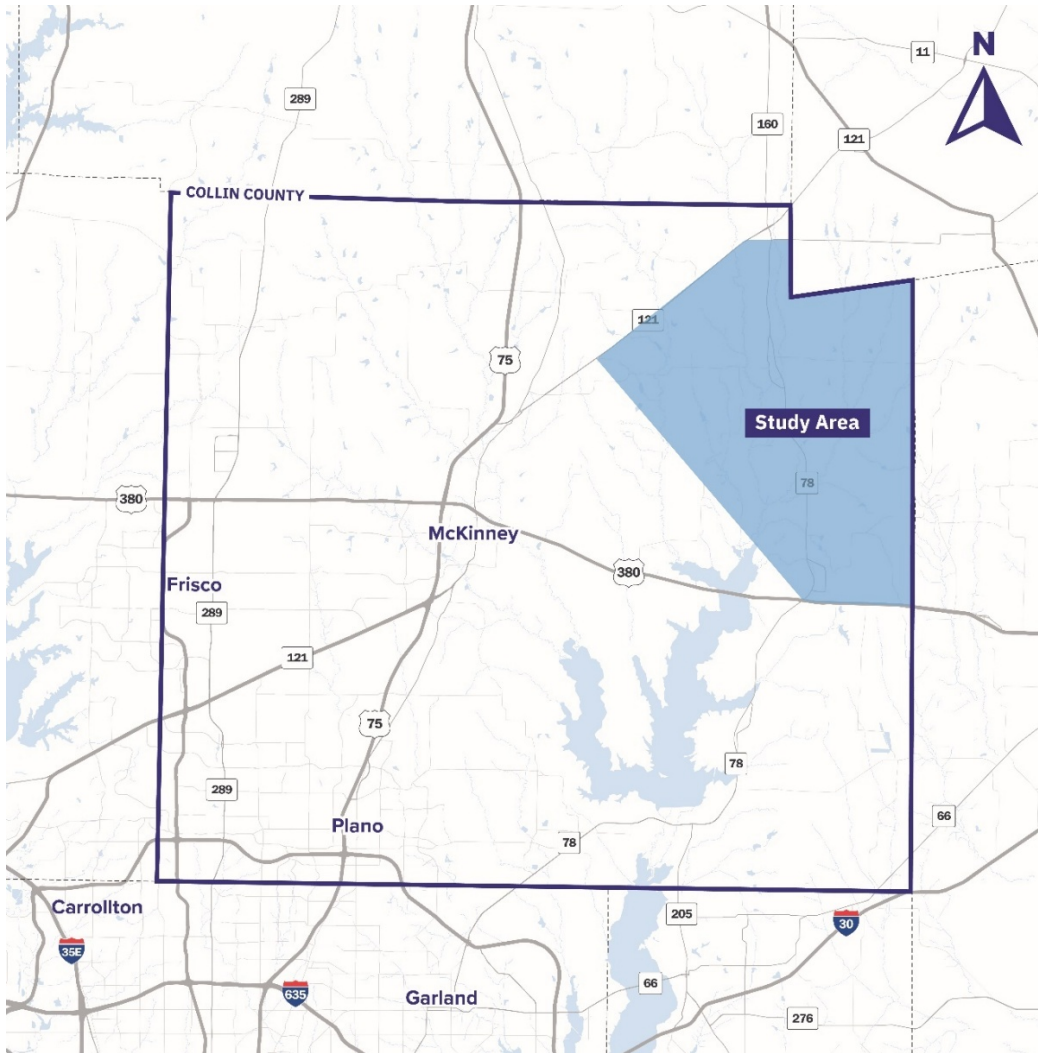
Scope of Professional Services

Collin County Outer Loop Segment 5 from Sam Rayburn Highway (SH 121) to US 380

Purpose

The Scope of Work to be performed by the ENGINEER under this contract will consist of preliminary engineering and environmental services including route studies, local environmental document preparation, and public involvement for the Collin County Outer Loop facility along Segment 5, approximately 21 miles from SH 121 to the US 380 on the east side of the City of Farmersville (the “Project”). The ENGINEER will perform Environmental Studies to develop a Local Environmental Document to support the County’s ability to acquire ROW for the proposed action. The project study area will be limited to SH 121 on the west and Hunt County line on the east. The East/West project study will be limited to US 380 on the south and Fannin/Grayson counties on the north.

Figure 1 - Project Limits



Objective 1: Data Collection and Route Studies

Overview

Data collected under this objective provides the necessary information to support the scope of services referenced throughout the contract. Route Studies assumes the refinement of the previously established reasonable alternatives for the Outer Loop alignment. No new end-to-end routes will be developed.

Task 1

Alignment Refinement and Validation Study

TASK 1: ALIGNMENT REFINEMENT AND VALIDATION STUDY

► Task 1A – Alignment Refinement and Validation Study

The ENGINEER will use the 2 previously created reasonable alternatives (Pink and Green alignments as presented at Public Meeting #2) and make up to 3 modified alignments based on the findings of Objective 2. The ENGINEER will perform the following tasks as part of the technical validation study:

- Refined Alignment
 - Feedback Incorporation: Incorporate feedback from Objectives 2 and 3 to make up to 3 modifications to the two reasonable alternative alignments.
 - Evaluation and Cost Estimate: Update the evaluation, risk assessment, and cost estimate based on the refinements. Identify one alignment as the recommended alignment.
 - Additional Feedback Incorporation: Address potential comments and feedback from the public, assuming up to three modifications to the recommended alignment. Update the evaluation, risk assessment, and cost estimate accordingly.
 - Document findings and recommendations
- Technical report
 - The ENGINEER shall document the alternative refinement process and basis for the changes to the recommended alignment.

Deliverables	
► All files and deliverables in electronic format (PDF as specified by the County, DOC, DGN, SHP, KMZ etc.)	► Technical report describing the basis for the adjustments recommended.
► Combined roll plot exhibit and individual roll plots of all the preliminary alignments and recommended alignment	

Objective 2: Environmental Studies

Overview

The ENGINEER will prepare a Local Draft and Final Environmental Document to disclose the potential impacts of the proposed action. The level of documentation will support the County’s ability to acquire ROW for the proposed action.

Task 1	Environmental Analyses
Task 2	Draft Environmental Document
Task 3	Final Environmental Document

TASK 1: DESKTOP AND FIELD STUDIES

Task 1A – Data Collection

The ENGINEER will provide shapefiles and data collected.

Task 1B – Rights of Entry

Identify areas where field surveys should be conducted and obtain rights of entry. Map parcels and develop right of entry request letter to be distributed under Collin County’s signature. Two attempts will be made to obtain permission to access each property, if needed, before classifying the property as “access denied”.

Deliverable:

- Prepare a GIS platform to map the parcels, track requests and property owner’s consent or denial so field teams can access the digital deeds acquired and vital information such as property owner’s instructions, gate codes or phone numbers.

Task 1C - Communities and Social Setting

Collect and map population data including 2020 US Census data and NCTCOG data to describe the affected population demographics within and along the study corridor (e.g., employment, age, languages spoken, limited English proficiency [LEP] etc.), using desktop data, map and identify community facilities (e.g., schools, libraries, places of worship, post offices, public services and government offices, etc.) and the populations served by each. Identify neighborhoods and isolated residences for use in determining potential displacements and potential access issues. Identify potential displacements, summarize impacts, and identify potential mitigation options. Perform a windshield survey to identify signs in languages other than English, community facilities serving specific minority groups, signs of persons with disabilities or other vulnerable populations, low-income populations or neighborhoods, and signs of other modes of transportation. Discuss community cohesion and how the project may impact the local communities.

Task 1D - Land Use

Differentiate existing and future land uses such as urban, agricultural, residential, industrial, and natural areas. Identify conservation easements using available data from the National Conservation Easement Database (NCED) and Ducks Unlimited Open Data Portal; Agricultural Conservation Easement Program (ACEP); Texas Farm and Ranch Lands Conservation Program (TFRLCP); US Army Corps of Engineers (USACE) Regulatory In-lieu Fee and Bank Information (RIBITS), US Geological Survey (USGS) Protected Areas Data (PAD)-US, Texas Parks and Wildlife Department (TPWD) Land and Water Resources Conservation and

Recreation (LWRCRP) Statewide Inventory, and city, county or other locally based funding programs used to purchase conservation easements.

Task 1E – Archeological Resources

Conduct archeological desktop study to identify previously surveyed areas, recorded sites, and areas of high probability for buried resources. The Texas Historical Commission's (THC) Archeology Sites Atlas (Atlas) will be reviewed to identify known cultural resources surveys, archeological sites, State Archeological Landmarks (SALs), Official Texas Historical Markers (OTHMS), Recorded Texas Historic Landmarks (RTHLs), cemeteries, and National Register of Historic Places (NRHP)-listed properties or districts located within a study area that consists of a 500-foot buffer around the two (2) reasonable alternative alignments.

Once the preferred alignment is established, an antiquities permit from the THC would be obtained, an archeological survey would be conducted in the areas of higher probability, and eligibility determinations would be made for any potential identified sites for the preferred alignment.

Assumptions:

- Cost assumes that the regulatory governance is under the Texas Antiquity Code, and will not require coordination with TxDOT or any federal agencies.
- Cost includes a linear survey of the 21-mile preferred alignment project with a 500-ft corridor
- Cost assumes a single mobilization
- Cost assumes no delays due to weather (heat, cold, precipitation, or other factors)
- Cost assumes no delays due to access issues, including but not limited to locked gates, landowner refusal of entry, and ground conditions
- Cost is for a Phase 1 Survey.
- No more than 20% of the project area will be considered high probability for cultural resources
- No more than 20% of the project area will be subject to survey
- No deep/trench testing necessary for archaeological survey
- No NRHP or SAL testing and no mitigation included in cost and scope
- No more than three (3) archaeological sites will be recorded, covering no more than an acre in total
- No artifacts will be collected or curated; records curation only (permit application, antiquities permit, field form, photographs, and correspondence)
- No human burials or associated grave goods will be encountered

Deliverables:

- Archeological Desktop Study
- THC Antiquities Permit Application and Coordination
- Archeological Survey Report of the Preferred Alignment

Task 1F - Historical Resources

- Conduct a non-archeological historic resources survey along the 2 reasonable alternative alignments and within the visual area of potential effects (APE), which would be determined in coordination with THC. For purposes of this scope, the historic period includes resources that meet the 50-year threshold of NRHP eligibility from 2026, plus an additional 5-year buffer that allows for potential project planning and execution.

Assumption:

- Historic resources survey will be reconnaissance level
- No more than thirty (30) structures 45 years or older will be recorded

Deliverables:

- Develop a Historical Resources Survey Report and make determinations of eligibility.
- Prepare a Historic Resources Survey Report and make determinations of eligibility.

Task 1G - Water Resources

Conduct a Waters of the United States (WOTUS) delineation along the 2 reasonable alternative alignments. Develop a Water Resources Survey Report and make professional recommendations for potential permitting requirements. Analysis will include Section 404 of the Clean Water Act; and Section 401 of the Clean Water Act. Identify the presence and nature (e.g., zone A, zone AE, zone AE with floodway) of any FEMA mapped floodplains. Areas that may need field surveys include the areas surrounding the following water features:

- | | |
|----------------------|-----------------|
| • Sister Grove Creek | • Bear Creek |
| • Red Oak Creek | • Arnold Creek |
| • Pilot Grove Creek | • Cedar Creek |
| • Desert Creek | • Hickory Creek |
| • Pot Rack Creek | • Brushy Creek |
| • Indian Creek | • Elm Creek |

The Engineer shall:

- (1) Provide the results of the land survey in electronic DGN file format to be incorporated into the schematic and plans. GIS and KMZ files of the land survey must also be provided.
- (2) Determine the potential jurisdictional status of each of the water features mapped and provide figures of the features overlaying the 2 reasonable alternative alignments.

Assumptions:

- No USACE permitting packages will be prepared.

Task 1H –Traffic Noise

Identify Noise-Sensitive Areas: Identify areas sensitive to noise pollution, such as residential zones, schools, hospitals, and parks.

Map Noise Contour: Map the 66-decibel noise contour for a design year for ultimate condition of the proposed facility to identify potential noise abatement locations.

Traffic Noise Model: Use the FHWA's Traffic Noise Model (TNM 2.5) without vertical features. The ENGINEER shall clearly state the model's assumptions, including traffic volumes provided by others, vehicle types, speeds, and roadway geometry.

Task 1I - Vegetation and Protected Species

Obtain federal and state threatened and endangered species lists and review the TPWD natural diversity database (NDD) and Ecological Mapping Systems of Texas (EMST). Conduct a desktop vegetation and habitat analysis for the entire project area and field surveys for protected species along the two reasonable alternatives. Identify vegetation, established critical habitats, and provide potential habitat determinations.

Highlight Ecological Significance: Emphasize areas of ecological significance, including potential habitats of threatened or endangered species.

Assumptions:

- No presence or absence surveys will be conducted, including Migratory Bird Treaty Act (MBTA) nest surveys.
- No tree surveys will be conducted.

Task 1J - Regulated/Hazardous Materials

Obtain an Environmental Data Resources (EDR) database search to identify sites with a possible environmental risk such as active and former gas stations, industrial sites, landfills, auto repair shops, etc. Summarize potentially hazardous sites and denote the level of concern/risk for the proposed project. Conduct a windshield survey to verify site types, locations, and ownership. Assess the potential risk properties of environmental concern posed to the project - low, moderate, or high - and include the basis of those classifications.

TASK 2: DRAFT LOCAL ENVIRONMENTAL DOCUMENT

The ENGINEER will develop a draft Local Environmental Document to disclose the existing environment and provide professional recommendations for the ultimate development of the preferred alignment for Segment 5 of the CCOL. An annotated outline of the Draft Local Environmental Document will be developed for review and comment/input by Collin County. Development of the Draft Local Environmental Document will include the following analyses and document sections:

- Right-of-Way and Potential Displacements
- Land Use
- Air Quality
- Traffic Noise
- Community and Social Setting
- Visual and Aesthetic
- Cultural Resources
- Biological Resources
- Water Resources
- Hazardous Materials

Assumptions:

- Document does not include full NEPA evaluation.
- Document will be approved by the County only.
- Document will not include indirect or induced growth analysis
- Document will not include EJ Analysis
- Document will identify potential Section 4(f) or Section 6(f) properties but will not include Section 4(f) or Section 6(f) evaluations.

TASK 3: FINAL LOCAL ENVIRONMENTAL DOCUMENT

The ENGINEER will develop a Final Environmental Document to disclose changes in the Preferred Alternative in consideration of comments/input received during the public hearing from agencies and the public.

Consultant Deliverables	
▶ GIS ROE Platform	▶ Water Resources Survey Report
▶ Archeological Background Study and Survey Report	▶ Traffic Noise Report
	▶ Draft Local Environmental Document
	▶ Final Local Environmental Document

▶ THC Antiquities Permit Application and Coordination ▶ Historical Resources Survey Report	
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Objective 3: Public Involvement and Stakeholder Outreach

Overview

Task 1	Stakeholder Coordination
Task 2	Public Meeting

TASK 1: STAKEHOLDER COORDINATION

► Task 2A – Conduct Stakeholder Meetings

The ENGINEER will:

- Make arrangements for and conduct up to (4) small group stakeholder meetings to discuss and review the schematic design and the environmental review process. Some of these meetings might be combined for convenience's sake and as appropriate. The Consultant shall prepare meeting agendas, presentations, materials and exhibits to be used during stakeholder meetings as needed, as well as written meeting summaries.
- Prepare reports and presentations for Collin County Commissioners Court meetings or workshops, as needed, to share project updates.
- A preliminary list of potential stakeholders is below and may include adjacent cities, property owners, developers, and various agencies:
 - Collin County Judge, Commissioner(s) and the Commissioners Court as well as staff.
 - Agencies and city staff:
 - NCTCOG
 - Anna (grouped)
 - Melissa (grouped)
 - Blue Ridge (grouped)
 - Farmersville (grouped)
 - TxDOT
 - Outer Loop Segment 2, 4 consultant (Burns McDonnell)
 - New Freeway (LJA)
 - Others:
 - School Districts
 - NTMWD
 - Utility providers
 - Developers
 - Railroads
 - USACE

TASK 2: PUBLIC MEETING

► Task 3A –Public Meetings and Hearing

The ENGINEER will conduct and document up to one (1) public meetings including the following:

- One (1) Public Meeting (*time to be determined*), displaying the results of the alignment modifications.

These meetings will be hosted both in-person and virtually via updates to the County website (except the Public Scoping meeting, which will be virtual only). This work includes preparing or coordinating the following:

- Logistics and venues
- Presentations, exhibits and handouts
- ▶ Meeting notices and project marketing such as:
- ▶ Postcards mailed to all property owners and residents in the Study Areas
 - Newspaper ads
 - Press releases
- Electronic and hardcopy surveys
- Spanish and ASL translation services at the meeting and for select materials
- Law enforcement and security staff
- AV equipment
- Meeting and hearing summaries including responses to comments

Send out up to 1 email blasts to stakeholders in conjunction with the public meeting phase.

- Compile, maintain, and update mailing and email lists of property owners, stakeholders, elected officials, agencies and organizations interested in the project.
- Provide social media strategy and editorial content/calendar for the County to post to its social media accounts including Facebook and NextDoor. This will include outreach to influential project champions with a significant social media presence.

Deliverables	
▶ Stakeholder email and mailing lists ▶ County Website and electronic updates ▶ In-person and virtual public meeting materials and summary documentation ▶ Public Meeting: sign-in sheets, comment sheets, project information handout, and meeting summary report.	▶ Documentation of all stakeholder meetings and interviews

Objective 4: Project Management

Overview

Task 1	Schedule, Progress Reports, and Invoices
Task 2	County Update Meetings and Presentations
Task 3	QA/QC

TASK 1: SCHEDULE, PROGRESS REPORTS, AND INVOICES

▶ Task 1A – Schedule

The ENGINEER will update the simple graphic milestone schedule indicating completion dates of major work items, deliverables, and reviews.

► **Task 1B – Monthly Progress Reports and Invoicing**

The ENGINEER will submit monthly progress reports to the County. Monthly progress reports will include a description of all activities ongoing or completed during the reporting period, activities planned for the following month, problems encountered, and actions required to remedy them. The progress report will include a tabulation of percent complete by task.

The ENGINEER will submit monthly invoices for all work completed during the period. Invoices shall be submitted in accordance with the rate schedule and function codes authorized in the contract.

TASK 2: COUNTY UPDATE MEETINGS AND PRESENTATIONS

► **Task 2A – Project Team Meetings**

The ENGINEER will schedule and conduct monthly project team meetings with Collin County. The purpose of these meetings is to discuss project status, plan upcoming events, and discuss and resolve any key project issues. Meeting minutes will be prepared by the ENGINEER and distributed for all meetings.

TASK 3: QA/QC

► **Task 3A – Deliverables: Comment Response and Resolution Process**

The ENGINEER shall:

- Log any previous County or stakeholder comments in a Comment Response Log spreadsheet and provide a resolution for each comment.
- Coordinate production of the milestone deliverable including printing, compiling electronic files, and preparation of a transmittal letter.

Deliverables	
► Monthly Progress Reports and Invoices	► Meeting Minutes
► Schedule Updates	► Comment Response Log