

ATTACHMENT A SCOPE OF SERVICES

EGIS USA, INC. 72ND AVENUE SE OVER UNNAMED CREEK (NBI 10884) August 25, 2026

Project Scope

The project intent is to replace the bridge over Unnamed Creek and construct the roadway typical section in accordance with the City of Norman Comprehensive Transportation Plan.

1. ROADWAY DESIGN

The planned improvements to 72nd Avenue SE shall be designed using City of Norman and 4R criteria with a 45 MPH design speed. The planned roadway is classified as a minor rural arterial in the City of Norman Comprehensive Transportation Plan and will have a two-lane section consisting of two-12' driving lanes, 12' center turn lane, and six-foot paved shoulders.

The road will be closed during construction. Roadway designs will be prepared in accordance with current City of Norman design standards, ODOT design standards, AASHTO "A Policy on Geometric Design of Highways and Streets", 7th Edition, and AASHTO Roadside Design Guide, 4th Edition.

Design for all permanent or temporary traffic control will be prepared in accordance with current ODOT and AASHTO Manual on Uniform Traffic Control Devices design standards.

2. BRIDGE DESIGN

The existing bridge over Unnamed Creek will be replaced with an RCB utilizing an ODOT standard barrel and end sections.

- Bridge A; Bridge Replacement (NBI 10884)
 - Existing 30' Concrete Arch
 - 3-12'x8' RCB Replacement Bridge

The anticipated plan sheets for the Bridge are:

1. General Notes & Pay Quantities
2. General Plan & Elevation
3. RCB Details

All design will be prepared in U.S. customary units and in accordance with the Oklahoma Department of Transportation (ODOT) Standard Specifications for Highway Construction, 2019.

3. UTILITY COORDINATION

The consulting engineer will show all existing utility information provided by the survey on the roadway and bridge plans. The consulting engineer will give an appropriate amount of effort to produce a final design minimizing impacts to the utilities. Utility relocation plans will be the responsibility of the City. The consulting engineer will notify all known utility companies with facilities affected by the proposed project and coordinate necessary utility and facility relocations or modifications.

4. BRIDGE HYDRAULICS

Refer to the attached exhibit from IDEA Group.

5. GEOTECHNICAL

Refer to the attached exhibit from Red Rock Consulting.

6. SURVEY

Refer to the attached exhibit from Frontier Land Surveying.

7. ENVIRONMENTAL

Refer to the attached exhibit from CCE.

8. ADDITIONAL ITEMS

Right-Of-Way

Right-of-way plans, title/abstract certifications and right-of-way acquisition are not included in this scope. The consulting engineer will provide roadway plans with required right-of-way shown with stations and offset distances in addition to exhibits with legal descriptions. An appropriate amount of effort will be made to minimize right-of-way impacts.

Bidding

The consulting engineer will be available to answer questions and assist City staff during the bidding and construction phases. Prepare electronic files for bidding purposes and attend one (1) pre-bid meeting. This scope of services does not include Construction Management or Inspection.

Construction Administration

The consulting engineer will perform construction administration for the following tasks as part of this contract.

- Attend pre-construction meeting with the successful contractor.
- Attend monthly construction progress meetings.
- Review contractor's submittals.
- Address RFI's, amendments, and change orders.
- Review and recommend approval for payments of contractor's claims.
- Attend final walk-through meeting with the contractor and City of Norman.

Construction administration services will be billed hourly at the rates below. Hours beyond the tasks listed above, or services beyond those tasks, will be billed at the same hourly rates upon written authorization by the City before work is performed.

- Project Manager II – \$275.00
- Engineer III – \$260.00
- Engineer I – \$175.00

Services Not Included in Scope of Work

- Right-of-Way plans
- Utility relocation plans
- Traffic studies
- Public and Stakeholder meetings
- Construction management
- Construction inspection
- Construction staking

Meetings

Additional meetings included in the Scope of Services:

- Attend two (2) in-person preliminary review meetings with the City of Norman.

Deliverables

Deliverables will include construction bid documents. Deliverables will be in PDF format and electronic which will include any DWG and picture files. Ownership will be with the City.

Compensation

Compensation for the project shall be as outlined in the contract. Invoicing and payments shall be in accordance with progressive completion payments as outlined in the contract.

The format for the compensation shall be:

Roadway	Lump Sum
Bridge Design.....	Lump Sum
Bridge Hydraulics	Lump Sum

In-Place Soil Survey	Unit Rate
Design Survey	Lump Sum
Right-of-Way Staking	Unit Rate
ROW / Easement Exhibit Survey Services	Unit Rate
Environmental	Lump Sum
Utility Coordination	Lump Sum
Construction Administration	Hourly
As-Built Drawing Services	Lump Sum

The proposed fee schedule for these services is as follows:

Roadway	\$69,700.00
Bridge A	\$30,900.00
Bridge Hydraulics	\$18,500.00
In-Place Soil Survey	\$9,568.14
Design Survey	\$19,500.00
Right-of-Way Staking	\$3,500.00
ROW / Easement Exhibit Survey Services	\$3,900.00
Environmental	\$20,000.00
Utility Coordination	\$8,000.00
Construction Administration	\$22,800.00
As-Built Drawing Services	\$4,000.00
Total Fee	\$210,368.14

Project Schedule

It is the intent of this Contract that the consulting engineer shall complete the plans in accordance with the following schedule items:

Notice To Proceed.....	October 2026
Submit Plans for 30% Preliminary Field Review	April 2027
Submit Plans for 60% Right-of-Way / Utility Meeting.....	August 2027
Submit Construction Plans for R/W	October 2027
Submit Plans for Final Plan Field Review Meeting	August 2028
Submit Plans for PS&E Package	November 2028



CC Environmental, LLC

June 25, 2026

Mr. Evan Ludwig, PE
Lochner
6301 Waterford Blvd, Suite 310
Oklahoma City, OK 73118

Re: City of Norman 72nd Ave SE: Environmental Scope & Fee

Mr. Ludwig:

Please let this letter serve as a generic scope of services for the city of Norman's (City) 72nd Ave SE bridge replacement project. CC Environmental (CCE) will perform the environmental work related to compliance with the National Environmental Policy Act (NEPA). For this project, the federal nexus was determined to be the requirement for a Section 404 Clean Water Act (CWA) permit, and the subsequent federal sponsor will be the US Army Corps of Engineers (USACE).

The environmental review will consist of a comprehensive study, conducted by an experienced multi-disciplinary team, designed to identify, assess, and evaluate potential environmental impacts associated with the proposed project as delineated on the attached diagram (i.e., "NEPA Footprint"). After the accepted notice period, field studies will begin to identify potential impacts on the human (e.g., haz-waste, cultural resources, etc.) and natural (e.g., biological, water resources, etc.) environments. The field studies will specifically address the cultural and historic aspects of Section 106 of the National Historic Preservation Act (NIIPA) and the Section 7 of the Endangered Species Act (ESA), when applicable. After the field studies are complete, CCE would produce the associated reports generated in compliance with USACE protocols, in order to consult with the appropriate state and federal regulatory entities. These include, but are not limited to, the US Fish & Wildlife Service (USFWS), the State Historic Preservation Office (SHPO), and affected Native American Tribes.

After completing the reports, a "draft" environmental summary document will be generated and submitted to the City for review. Once reviewed, the environmental summary document would be submitted to the USACE as part of the Section 404 permit application associated with the bridge replacement. CC Environmental would work with you and the City on compiling the necessary information for the 404 application, and assist with the coordination of the anticipated USACE Nationwide 14 Permit for Linear Transportation Projects.

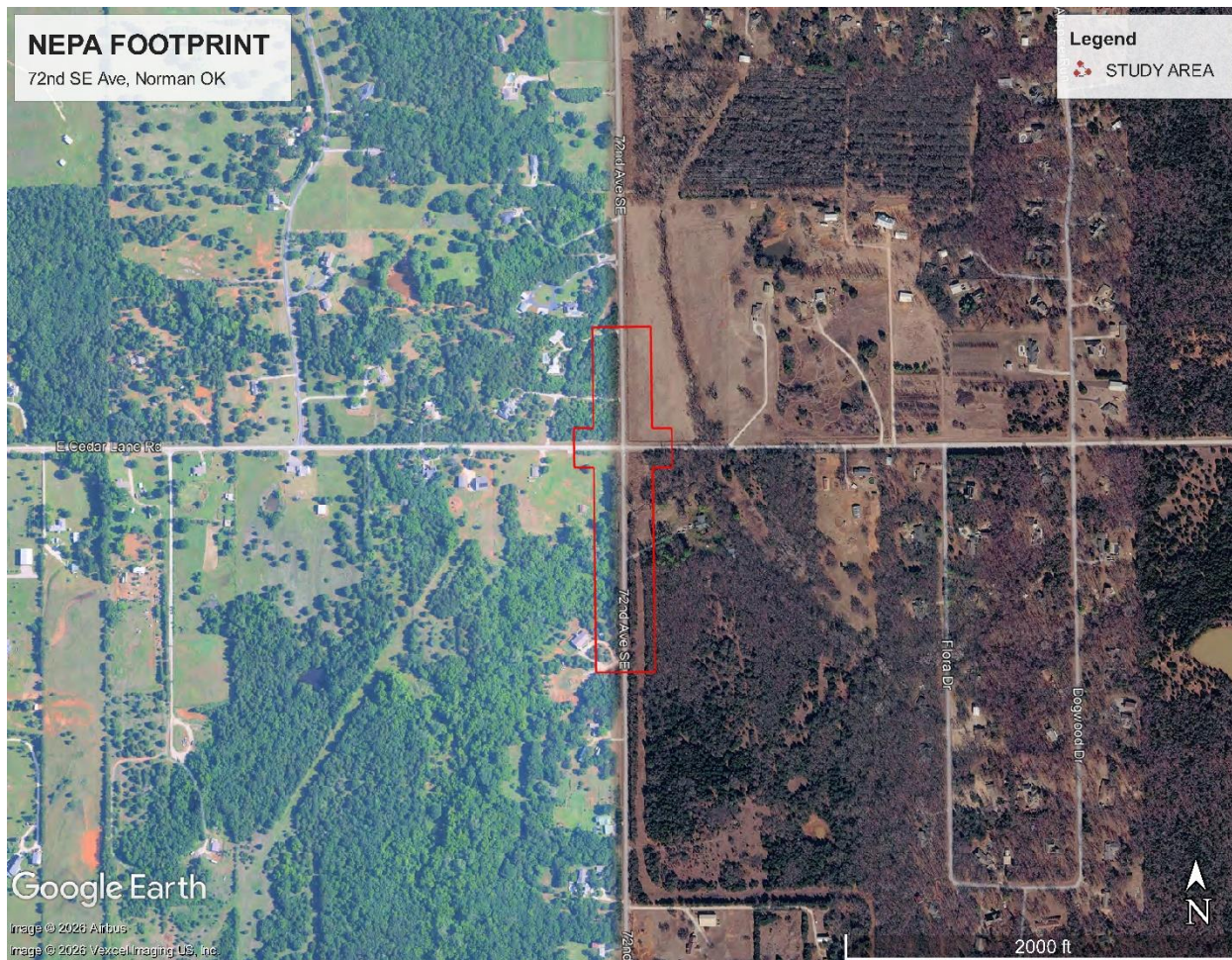
The anticipated cost for the environmental document and field studies is a lump sum \$20,000. Please note, the proposed scope does not include other public involvement or stakeholder meetings, noise studies, Section 6(f) compliance, floodplain permitting, regulatory fees, or a USACE individual permit or any mitigation related aspects. If necessary or desired, arrangements can be made to address these issues for a separate fee. Also, this proposal assumes that CCE will be granted permission, by others, to access the private properties associated with the project footprint.

We look forward to working with you on this project. If you have any questions, feel free to contact me at (405) 761-1225 or via email geoff@ccenviro.net.

Sincerely,

A handwritten signature in black ink, appearing to read 'Geoff Canty', is written over a horizontal line.

Geoffrey A. Canty, Ph. D.
Director of Environmental Services



June 25, 2026



Survey Proposal
For
Lochner

NBI 10884 72nd Ave SE over Creek
Pre-Design Survey Services Proposal

For:
Lochner
Attn: Evan Ludwig, P.E.
6301 Waterford Blvd, Suite 310
Oklahoma City, OK 73118

Pursuant to your request, Frontier Land Surveying, LLC ("Frontier") is pleased to present this proposal for surveying services for NBI 10884 72nd Ave SE over Creek, located in Norman, Cleveland County, Oklahoma. This proposal describes our understanding of the project and the scope of services required.

Limits of Survey *(See attached aerial exhibit)*

- Topographic limits in GREEN.

Design Survey Services

Frontier will perform a topographic survey of the designated limits to collect utilities, planimetric features, and terrain data. Method of data collection will be determined at the time of survey using a combination of LiDAR and conventional survey methods. A single, design-ready basemap will be created and delivered.

Pre-Design Survey Scope and Deliverables

- Unless otherwise noted, survey shall be made in accordance with State of Oklahoma County Highway System Design Guidelines Manual 2022 – Chapter 2 - Survey.
- This survey will be placed on the NGS Oklahoma State Plane Coordinate System, NAD83(HPGN), Lambert Projection, Zone appropriate with Primary Control derived from the ODOT RTN or OPUS solutions via Static Observations.
- Level datum for this survey will be NGS, NAVD '88. Minimum accuracy standards will be NGS 3rd Order. Differential Leveling will be performed on established Primary control and Benchmarks.
- Utility Coordination – CALL OKIE (811):
 - Frontier will contact all utility companies servicing the project area a minimum of **14 days** prior to field survey.
 - As of November 1, 2023, utility owners have 14 calendar days to respond to survey requests.
 - Utility companies may respond by either physical field marking or by providing facility maps.
 - Underground utilities, lacking excavation, cannot be accurately or completely depicted.
 - Frontier is **not responsible** for unmarked, mismarked, or undisclosed utilities.
 - All utility information obtained will be placed in the CAD drawing.
- If utility information obtained through 811 is deemed inadequate, **Subsurface Utility Engineering (SUE) Level B** services may be provided by a private subconsultant under a separately negotiated fee.

Right-of-Way Staking

- Staking if needed shall be completed for right-of-way acquisition and utility relocations. All staking shall be performed in accordance with ODOT Right-of-Way and Utilities Division's Policies and Procedures. **NOTE: These locations appear to fall where there is no designated Statutory Right-of-way.**

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Exhibits (Easements & Right-of-Way)

- Preparation of easements and right-of-way exhibits for any impacted parcels per design plans.
- **NOTE:** Any revisions to exhibits for changes in ownership due to delay in filing after 90 days **WILL** be charged at the current PLS hourly rate of \$170.

Design Survey Fees

Service	Fee (Lump Sum)
BRIDGE XX (NBI 06106)	
Design Survey Fee	\$19,500
Right-of-Way Staking (Lump sum per mobilization)	\$3,500
Exhibits (\$650 each – possibly 6)	\$3,900

Services Not Included (Available Upon Request)

- ALTA/NSPS Land Title Survey services (unless a Title Commitment is provided)
- Boundary survey services
- Subsurface Utility Engineering (SUE) services
- FEMA Flood Plain Determination
- Elevation Certificates
- Construction staking services
- Roadway or block staking/pinning services

Project Schedule

Upon receipt of a **Notice to Proceed**, Frontier will begin work promptly or will coordinate a mutually agreeable schedule with the client.

Additional Terms and Conditions

- Frontier will NOT be responsible for filing documents with governing agencies OR for any associated filing fees.
 - Frontier makes no guarantee as to the entirety of title documents when asked to perform title research on private or commercial land without the benefit of a title commitment.
 - **Changes in Scope:** Any change in scope, limits, or additional requested services requested by CLIENT will be negotiated and agreed upon prior to commencement of additional work.
 - **Termination:** If at any point the request of services is terminated, after execution of a Notice to Proceed, Frontier shall be compensated for services performed up to that date.
 - The survey will be performed on the NGS Oklahoma State Plane Coordinate System, Lambert Projection, North Zone, unless otherwise directed by the client.
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Indemnification

Frontier Land Surveying, LLC and Lochner mutually agree to indemnify and hold harmless one another, including their respective officers, employees, agents, and representatives, from claims, losses, damages, and expenses (including reasonable attorneys' fees) to the extent caused by the negligent acts, errors, or omissions of the indemnifying party. In the event of joint or concurrent negligence, liability shall be apportioned accordingly. Total liability shall not exceed the total compensation received by Frontier under this Agreement.

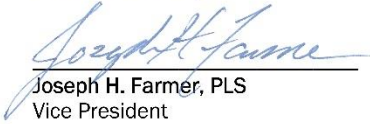
Acceptance

Thank you for your consideration of this proposal for services. If this proposal meets with your approval, please indicate acceptance by signing below and returning a copy via email.

Email: joe@fls-survey.com

Phone: (405) 285-0433

Submitted By:



Joseph H. Farmer, PLS
Vice President

Date: June 25, 2026

Accepted By:

Print: _____

Date: _____

Title: _____

Address: _____

Phone: _____

Survey Site



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**Scope of Work for
72nd Avenue SE Bridge Replacement (NBI# 10884)
Hydraulic Modeling, Analysis, and Design**

This proposal is prepared to include efforts associated with hydrological and hydraulic studies for the replacing a bridge on 72nd Avenue SE approximately 400 feet south of the intersection of 72nd Avenue SE with East Cedar Lane Road in Norman, Oklahoma. IDEA Group (IDEA) will perform a Hydrological and Hydraulic (H&H) study to analyze the performance of the existing bridge and provide hydraulic design and bridge size for the proposed structure. The study will include channel stability analysis to show the impact of the proposed structure on the stability of downstream and upstream reaches. The following scope is required to achieve the goals of this project.

TASK 1. Data Gathering, Field Investigation, and Project Management

IDEA will gather all hydrological and hydraulic data needed to perform the proposed studies for this project. The data includes hydrological data from NRCS, USGS, and NOAA as well as evaluation of the topographic data. The Field Investigation will include a complete assessment of the existing bridge and the upstream and downstream river reaches to ensure stream stability.

Project management will include project meetings and administrative tasks for coordination with the Client.

IDEA will require the right of entry for the required data gathering within the channel and assumes that this will be requested from the landowner at the time of right of entry request submitted for the Topographic Survey effort associated with this project.

TASK 2. H&H Modeling and Bridge Sizing

IDEA will perform a Hydrological and Hydraulic (H&H) study for natural, existing, and proposed conditions. The study will include multiple flood events (2-year, 5-year, 10-year, 25-year, 50-year, 100-year, and 500-year flood events) to ensure all regulatory requirements for the design of the new bridge are met. The hydraulic study results will provide channel velocities and scour data needed for the structural design of the new structure.

TASK 3. Report Preparation

IDEA will prepare and submit a hydraulic report that will include a description of the performed studies and summary of results in tabular format. The report will describe the calculation and methodology used in the development of the models and will provide recommendations for the proposed bridge size and any channel stability features needed as a part of this project.



TASK 4. Permitting

IDEA will prepare and submit an application for the City of Norman Floodplain Permit and submit a no rise certification as the support material for the permit application. IDEA will attend one meeting to present the project information as a part of application review.

Anticipated Schedule

IDEA will complete the tasks associated with this contract within sixty (60) days after the issuance of the notice to proceed (NTP) under condition that an acceptable topographic survey data is provided for the development of the models at the time that NTP is issued.

FEE and EXPENSES.

IDEA shall be compensated on Lump Sum basis for Tasks 1 Through Task 4 effort associated with this scope. Invoices will be submitted on Monthly basis based on the completed tasks.

Cost Breakdown

TASK 1. Data Gathering, Field Investigation, and Project Management	\$ 5,000.00
TASK 2. H&H Modeling and Channel Analysis	\$ 8,000.00
TASK 3. Report Preparation	\$ 2,000.00
TASK 4. Permitting	\$ 3,500.00
Total amount	\$18,500.00



**Scope of Work
6/17/2026**

Project: 72nd Avenue SE – Lochner
Description: Approach Pavement to an Unnamed Creek Bridge
Location: Norman, Oklahoma

IN PLACE SOILS SURVEY

Red Rock Consulting, LLC will perform the geotechnical investigation for the full depth reconstruction of the existing pavement of 72nd Avenue SE associated with the construction of the new bridge over an Unnamed Creek in Norman, Oklahoma. The pavement reconstruction will consist of the bridge pavement extending approximately 750 feet beyond each ends of the bridge. The investigation will be performed in general accordance with the Oklahoma Department of Transportation (ODOT) Specifications for Roadway Design's In-Place Soils Survey.

For this project, 2 borings will be drilled with one beyond each end of the bridge. The borings will extend 36 inches beneath the existing pavement and will consist of grab samples at depths of material changes, as per ODOT Specifications.

In the laboratory, testing will include water content, Atterberg limits and full sieve analysis, which will be performed on all recovered samples. All laboratory testing will be performed to ODOT specifications. Soil samples will be classified in accordance with the AASHTO and Unified Soil Classification Systems. In addition, 1 Standard Proctor and 2 Resilient Modulus tests will be performed on 1 composite bulk sample.

Traffic control services are anticipated for this project.

Pavement subgrade and section recommendations for the full-depth reconstruction will be included in the report. The traffic information will be provided to us to be used for determining the pavement section.

RED ROCK CONSULTING

Scope of Work 6/17/2026

72nd Avenue SE	Estimated Total Quantity	Unit Rate	Unit	Estimated Total Fee
Mobilization of Coring Equipment	110	\$4.01	per mile	\$441.10
Concrete Coring	2	\$96.56	per core	\$193.12
In-Place Sampling	6	\$31.75	per foot	\$190.50
Field Engineer Logging	5	\$136.06	per hour	\$680.30
Soil Class (Grad. & PI)	5	\$123.25	per test	\$616.25
Moisture Content	4	\$8.91	per test	\$35.64
Standard Proctor	1	\$140.63	per test	\$140.63
Resilient Modulus	2	\$517.50	per test	\$1,035.00
Traffic Control	5	\$225.00	per hour	\$1,125.00
Pavement Design	15	\$250.00	per hour	\$3,750.00
Report Preparation	10	\$136.06	per hour	\$1,360.60
IN PLACE SOILS SURVEY TOTAL				\$9,568.14