

## ATTACHMENT A SCOPE OF SERVICES

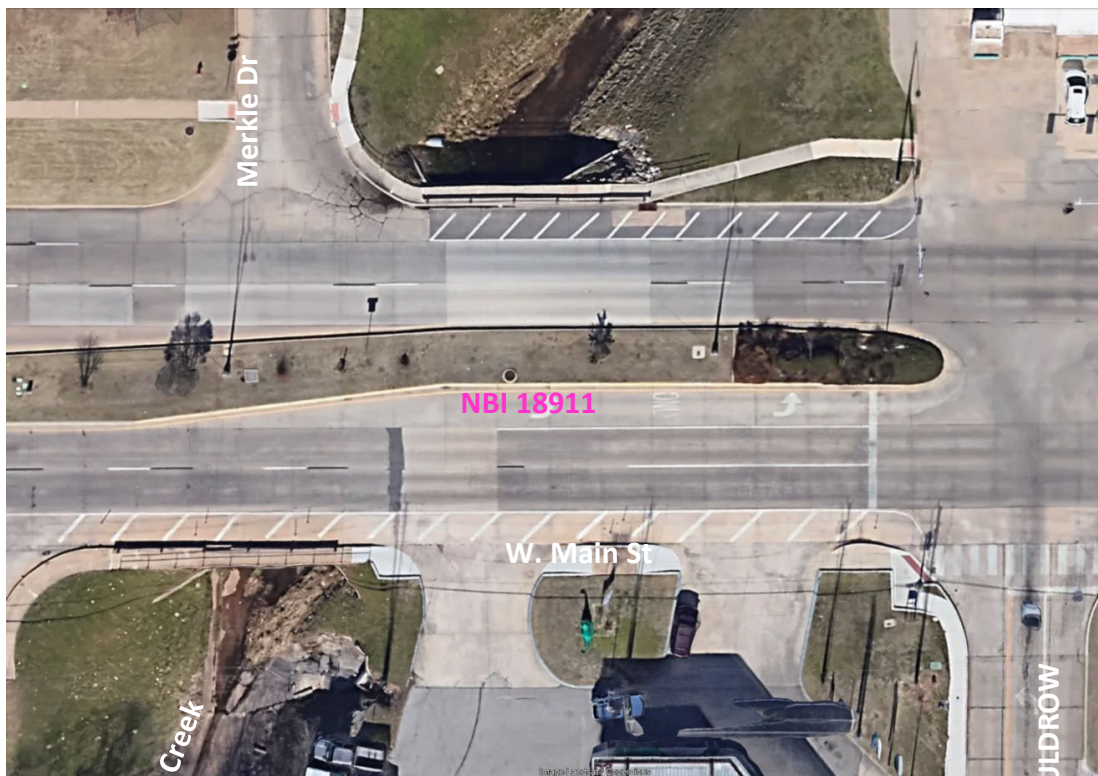
Article 3 of the AGREEMENT is amended and supplemented to include the following agreement of the parties. CONSULTANT shall, except as otherwise provided for herein, furnish all Engineering services, labor, equipment, and incidentals (SERVICES) as required for this AGREEMENT.

### DESCRIPTION OF PROJECT

Following is a scope of services and fee proposal provided by CEC to the City of Norman for the rehabilitation of the Main Street Bridge over Merkle Creek.

The project intent is to rehabilitate and repair the existing reinforced concrete box (RCB) carrying Main Street over Merkle Creek (NBI No. 18911). The project is located 0.3 miles east of the 24th Avenue & Main Street intersection. The existing RCB is a triple cell box with dimensions of (3) 10 ft. x 9 ft. x 127 ft. and with a 45-degree skew. Scour mitigation measures will be included in the project as determined.

The existing concrete pavement, curb, sidewalk, and railings will be replaced within the project limits. The final project limits are to be determined but will be minimized on either side of the existing bridge and will stay out of any intersections. It is anticipated a project length of approximately 200 ft. in total length. All replacing of roadway items will be done in phases to accommodate traffic. New sidewalks will be ADA compliant and new concrete parapets will be crash worthy. Aerial of the project location is below:



## PROJECT DESCRIPTION

Engineering services to be provided by the consultant include, roadway design, surface drainage design, bridge rehabilitation plan development, panel replacement plan, construction sequencing, survey, traffic control, and construction administration. Specific tasks for this project include:

- Conduct survey of project extents
- Conduct field investigation of existing structure
- Prepare and submit preliminary plans (30%) and cost estimate
- Prepare and submit final field review plans (90%) and cost estimate
- Finalize plans, quantities, and cost estimates
- Attend the pre-bid conference
- Provide construction administration services for reviewing contractor submittals and answering Requests for Information (RFI's)
- Provide As-Built drawings at the completion of construction
- Anticipated repairs to the existing bridge will include the following:
  - Repair concrete walls and slabs with pneumatically placed concrete, epoxy crack injection, and corrosion inhibitor.
  - Repair bridge construction joint in RCB as deemed necessary.
  - Fill voids created by scour adjacent to bridge with CLSM backfill. Apply scour mitigation measures (riprap, Class C concrete, etc.) as necessary.
  - Replace sidewalks, handrailing, and traffic railing with new sidewalk and crash-worthy concrete parapet mounted on top of sidewalk on each end of the RCB.
  - Clean out all debris in existing RCB cells.

## SURVEY

CEC will collect topographic survey for the subject bridge and its immediate vicinity. Please see the attached survey proposal.

## FINAL PLANS

This task includes the work required to prepare design plans for construction of the project described above. The scope includes the preparation and submittal of the final signed and sealed construction plans along with the Engineer's construction cost estimate. Plans will be prepared per City of Norman standards and specifications. ODOT pay items will be utilized. Detailed scope items are as follows:

- Submit 60% plans to the City of Norman for review prior to proceeding to 90% design plans.
- Anticipated plan sheets will include:
  - Title
  - Typical Sections
  - General Notes
  - Summary of Pay Quantities and Notes (Bridge and Roadway)

- General Plan and Elevation
- RCB Repair Details
- Scour Repair Details
- Sidewalk & Parapet Details
- Panel Replacement Plan
- Traffic Detour Plan

## **BIDDING SERVICES**

This task includes the work required to perform the bidding services assistance of one construction contract. Detailed scope items are as follows:

- Preparation of Bidding Documents
- Attend and assist with one (1) bid opening meeting.
- Answer contractor questions and issue clarifications as needed.
- Review bids and provide recommendation of contractor.

## **CONSTRUCTION ADMINISTRATION**

This task includes the work required to perform the construction administration of one construction contract. Detailed scope items are as follows:

- Attend a pre-construction meeting with the successful contractor.
- Conduct 3 construction progress meetings.
- Review contractor's submittals.
- Address RFI's, amendments, and change orders.
- Review and recommend approval for payment of contractor's claims.
- Attend final walk-through meeting with the contractor and City of Norman.

## **AS-BUILT DRAWINGS**

This task includes the work required to obtain field changes to the plans and so that they are reflected in the As-Built plans.

## **ITEMS EXCLUDED FROM THE SCOPE OF WORK**

- FEMA flood plain determination / flood plain management / elevation certificate(s)
- Construction staking
- Review meetings for preliminary (30%) and final field review (90%) submittals. It is anticipated that the City of Norman will provide comments on submittals, but meetings will not be necessary
- Geotechnical investigation and analysis
- Existing utility location and coordination
- Preliminary Report
- Public meeting(s)

The City of Norman reserves the right to include the above items as a supplement to this proposal and CEC shall be paid for additional services through a separate agreement.

### **ADDITIONAL SERVICES**

If there should be a change in project scope that leads to additional work or additional services are requested by the City of Norman, we will negotiate a fee to provide the changes or additional services prior to commencing work. Requested stakeholder, design, or field review meetings in excess of the stipulated number in the scope of work will be considered Additional Services.