Peoria Tribe of Indians of Oklahoma

Request for Preliminary Design Proposals for:

Four (4) Bridges in Ottawa County

Deadline for Proposals: Friday, June 5, 2026, 4:00PM

PEORIA TRIBE
OF INDIANS OF OKLAHOMA

Contact: Shelly Wahr swahr@peoriatribe.com or 918-540-2535 Ext 9235

Ottawa County, District 2
Bridge 57- E90 Rd over Warren Branch Creek

Project Description

The purpose of the project is to reconstruct the bridge on S 655 Rd over Warren Branch Creek, NBI No. 06903, Circle Number 57, Bridge Location No. 58E0090N4630004, and approach roadway in Ottawa County.

General Scope

The general scope of work includes meetings, on-site reviews and additional work required for the preparation of studies, reports, surveys, geotechnical investigations, hydraulic analysis/design, roadway design, permitting assistance; culminating in the delivery of final construction Plans, Specifications and Estimates (PS&E).

The CONSULTANT will prepare plans to replace the bridge and approach roadway, surfacing and drainage. Plan submittals include: Preliminary Plans, Draft Right-of-Way (R/W) Plans for NEPA, R/W Plans, Final Plans, PS&E.

The CONSULTANT will:

- Conduct survey; gather land ownership and utility information.
- Conduct hydraulic design to set bridge size and roadway grades.
- Prepare preliminary plans and cost estimate.
- Attend NEPA kickoff meeting.
- Attend preliminary plan field review meeting.
- Prepare updated cost estimates, R/W acquisition documents, and stake proposed R/W.
- Attend R/W kickoff meeting.
- Finalize plans, quantities and cost estimates.
- Attend final plan field review meeting.
- Perform quality assurance/quality control review.
- Manage utility relocations.
- Submit to ODOT an application for the USACE 404 permit.
- Attend the pre-bid conference (if requested).

No public meetings are anticipated and are not included in this scope of work.

SECTION 1 - Bridge Design

1.1. The CONSULTANT will prepare plans for the replacement of the 3-30ft I-Beam Spans. The new bridge will be placed on the existing alignment with approximately 1,000 ft of total approach roadway length. The bridge and or road will be closed to traffic during construction.

1.2. The proposed bridge is anticipated to be a 2009 county standard design 26 ft clear roadway single span PC Beam Bridge. The new bridge may be skewed and will be as long as necessary to meet hydraulic requirements or to match the terrain. Design will be in

accordance with the AASHTO LRFD Bridge Design Specifications, ODOT's Standard Specifications, and ODOT Bridge Design Practice (where applicable).

1.3. Hydraulic analysis will be performed for the bridge. The hydrological and hydraulic design shall include a sizing study, scour study, and channelization study using HEC-RAS. Discharge computations will be performed for the existing, natural and proposed conditions for Q2, Q5, Q10, Q25, Q50, Q100 and Q500. Bridge hydraulic analysis will be performed for the natural, existing, and proposed conditions. A hydraulic report will be provided.

- 1.3.1. Assessment of channel and overbank roughness will be based on field notes and photographs.
- 1.3.2. The project is located within FEMA flood zone A.
- 1.3.3. Neither a LOMR nor CLOMR is anticipated to be required for this project and is not included in this scope.

1.4. Prepare bridge construction plans, which may include but not be limited to:

- 1.4.1. General Notes and Summary of Pay Quantities
- 1.4.2. Foundation Report Sheet(s)
- 1.4.3. General Plan and Elevation Sheet
- 1.4.4. Substructure Staking Sheet
- 1.4.5. Pier Detail Sheet(s)
- 1.4.6. Riprap Detail Sheet(s)
- 1.4.7. Miscellaneous Detail Sheet(s)
- 1.4.8. Perform quality assurance/quality control reviews, make necessary corrections, and submit final plans.

SECTION 2 - Roadway Design

2.1. Prepare construction plans for roadway approaches. Roadway will be as long as required to meet and match the existing alignments on the west and east. The 2022 State of Oklahoma County Highway System Design Guidelines Manual and 2019 ODOT Standard Specifications will be used for the design.

2.2. The roadway has approximately 100 ADT as of 2020.

2.3. The proposed roadway section is 2-10 ft TBSC lanes and 2 ft TBSC shoulders.

2.4. The estimated roadway length is 1,000 ft and is anticipated to be open-section with ditches.

- 2.4.1. Alignment studies are not included in this scope of work.

2.5. Define the extents of any additional right-of-way required.

2.6. Provide evaluation and design of drainage system.

2.7. Incorporate environmental mitigation notes and measures as required in environmental clearance documents.

2.8. Perform quality assurance/quality control review.

2.9. Roadway plans may include, but not be limited to:

- 2.9.1. Title Sheet
- 2.9.2. Typical Sections
- 2.9.3. General Construction Notes
- 2.9.4. Summary of Pay Quantities and Notes (Roadway)

2.9.5. Summary Sheets
2.9.6. Driveway and Street Return Schedule
2.9.7. Summary of Drainage Structures
2.9.8. Drainage Area Maps
2.9.9. Drainage Structure Design Record Table
2.9.10. Stormwater Management Plan
2.9.11. Erosion Control Plan
2.9.12. Alignment Data Sheets
2.9.13. Plan and Profile Sheets
2.9.14. Cross Sections

2.10. Lighting is **not** included in this scope of work.

2.11. Sidewalks or trails are **not** included in this scope of work.

2.12. Landscape design is **not** included in this scope of work.

SECTION 3 - Traffic Studies

3.1. Traffic studies or turning analyses are **not** included in this scope of work.

SECTION 4 - Traffic Engineering Design

4.1. The roadway is expected to be closed to through traffic with access for local traffic only. Shoofly design is **not** included. A detour plan is included.

4.2. A signing and striping plan is not included.

4.3. Traffic control pay items will be itemized.

4.4. A detailed sequencing of construction plan layout is not included.

4.5. Traffic signal design is **not** included in this scope of work.

4.6. Traffic plans may include, but not be limited to:
4.6.1. Detour Plan
4.6.2. Permanent Signing and Striping
4.6.3. Summary of Pay Quantities and Notes (Traffic)

SECTION 5 - Geotechnical Investigation

5.1. Geotechnical work shall be performed in accordance with the State of Oklahoma County Highway System Design Guidelines Manual 2022 Chapters 13 and 14, Geotechnical Investigations for Roadway and Bridge Design except as specifically indicated otherwise per this scope of work.
5.1.1. Roadway – Roadway geotechnical work will include two (2) borings necessary and sufficient to support pavement design. A pavement design will be generated based on the borings and flex ESALS.
5.1.2. Bridge – Two (2) foundation borings (one at each abutment, one at each pier, and one constructability boring at a pier location) will be taken. The borings will extend to depths of about 20 feet into rock. Fee is based on a single span bridge. See proposal from Arrowhead Engineering for additional information.
5.1.3. Embankment Study – Not included in this scope of work.

SECTION 6 – Environmental

6.1. Environmental Impact Assessment.

SECTION 7 - Survey

7.1. Survey shall be performed in accordance with the 2022 State of Oklahoma county Highway System Design Guidelines Manual Chapter 2- Survey.

SECTION 8 - Subsurface Utility Engineering (SUE)

8.1. Quality Level D is included. This scope includes records research and data collection at the desktop level. Data is approximate. (Included in the survey scope of work.)

8.2. Quality Level C is included. This level includes all visible utilities and those marked by Call Okie. No additional utility locating is included. (Included in the survey scope of work.)

8.3. Quality Level B is **not** included for the utilities not marked by OKIE811. This level includes using SUE technology/equipment to identify the horizontal location.

8.4. Quality Level A is **not** included. This level includes potholing of specific utilities. This will provide accurate horizontal and vertical depth at the point of potholing.

SECTION 9 - Right-of-Way

9.1. Right-of-way documents are included in the scope of services. It is assumed that documentation will be written for three (3) parcels.

9.2. Right-of-way acquisition is not included in the scope of services.

9.3. Right-of-way staking shall be completed for right-of-way acquisition and utility relocations. Staking shall be performed in accordance with ODOT Right-of-Way and Utilities Division's Policies and Procedures. It is assumed that parcels will be staked two (2) times.

SECTION 10 - Utility Relocation Coordination

10.1. Utility Relocation Coordination services implement the requirements outlined in the ODOT Utilities Branch Policies and Procedures. Five (5) utilities (overhead electric, underground telephone, water distribution, overhead communication, and natural gas service) were observed within the project limits either in parallel with the alignment or crossing the alignment. Any additional utilities found within the project limits by survey or new construction will require a contract supplemental to complete the relocations. Utility relocation management Tasks 0-6 are included in this scope.

10.2. Task 0 - Review survey drawings for utility confirmation, coordinate with utility owners and field-verify locations through drive-out and observation of the project. Compile report summary and potential cost impacts for the relocation of utilities.

10.3. Task 1 - Review of 30% plans (Preliminary plans).

- 10.3.1. Prepare and draft conflict assessment matrix.
- 10.3.2. Attend Plan-in-Hand (PIH) meeting.
- 10.3.3. Write plan-in-hand utility report.

10.4. Task 2 - Review (60%) plans (R/W Plans) for conflict compliance. Draft and submit compliance/non-compliance memo.

10.5. Task 3 – Prepare and submit utility programming estimate from R/W plan review.

10.6. Task 4 - Scheduling and preparing for utility field meetings, conduct field meetings on site, draft field meeting reports.

- 10.6.1. Draft Preliminary Utility Relocation Plans (PURPs).
- 10.6.2. Develop utility relocation schedules.
- 10.6.3. Distribution of PURP revisions and design plan revisions.
- 10.6.4. Obtain documentation and approval of engineer/inspector/surveyor.
- 10.6.5. Obtain drawings, estimates, and Utility Relocation Agreements (URAs) from utility owners/representatives.
- 10.6.6. Issue approval deferred letters.
- 10.6.7. Prepare and submit Final Utility Relocation Plans (FURPs).

10.7. Task 5 – Issue Work Orders/Notices to Proceed for utilities, obtain electronic bid tabs for review. Issue low bid concurrence memo.

10.8. Task 6 – Observation of utility relocation construction on the project site. Verify utilities are relocated or constructed according to FURPs and agreements. Verifications and observations include:

- 10.8.1. Observe safety briefing conducted by utility owner or contractor.
- 10.8.2. Maintain an attendee list on-site and confirm utility owners have representatives on-site, including name, title, company name, address, email, and phone numbers (mobile and office).
- 10.8.3. Confirm OKIE811 has been notified and provided markings.
- 10.8.4. Confirm utility owner has approved documentation for the relocation.
- 10.8.5. Verify and observe construction activities are in accordance with the approved plan and approved location for the utility to relocate and construct, and for the protection of existing facilities.
- 10.8.6. Three (3) observation site visits are included per utility for a total of 15 site visits during relocation activities.
- 10.8.7. Provide field notes of activities and photo documentation of utility construction until completion.

End of Bridge 57 Proposal

PEORIA TRIBE
OF INDIANS OF OKLAHOMA

Ottawa County, District 2
Bridge 53 – S 680 Road over Tributary to Warren Branch Creek

Project Description

The purpose of the project is to reconstruct the bridge on S 680 Rd over Tributary to Warren Branch Creek, NBI No. 07361, Circle Number 53, Bridge Location No. 58N4676E0080002, and approach roadway in Ottawa County.

General Scope

The general scope of work includes meetings, on-site reviews and additional work required for the preparation of studies, reports, surveys, geotechnical investigations, hydraulic analysis/design, roadway design, permitting assistance; culminating in the delivery of final construction Plans, Specifications and Estimates (PS&E).

The CONSULTANT will prepare plans to replace the bridge and approach roadway, surfacing and drainage. Plan submittals include: Preliminary Plans, Draft Right-of-Way (R/W) Plans for NEPA, R/W Plans, Final Plans, PS&E.

The CONSULTANT will:

- Conduct survey; gather land ownership and utility information.
- Conduct hydraulic design to set bridge size and roadway grades.
- Prepare preliminary plans and cost estimate.
- Attend NEPA kickoff meeting.
- Attend preliminary plan field review meeting.
- Prepare updated cost estimates, R/W acquisition documents, and stake proposed R/W.
- Attend R/W kickoff meeting.
- Finalize plans, quantities and cost estimates.
- Attend final plan field review meeting.
- Perform quality assurance/quality control review.
- Manage utility relocations.
- Submit to ODOT an application for the USACE 404 permit.
- Attend the pre-bid conference (if requested).

No public meetings are anticipated and are not included in this scope of work.

SECTION 1 - Bridge Design

1.1. The CONSULTANT will prepare plans for the replacement of the 2-10ft Concrete Slab Beam Spans. The new bridge will be placed on the existing alignment with approximately 1,000 ft of total approach roadway length. The bridge and or road will be closed to traffic during construction.

1.2. The proposed bridge is anticipated to be a 2009 county standard design 26 ft clear roadway single span PC Beam Bridge. The new bridge may be skewed and will be as long as necessary to meet hydraulic requirements or to match the terrain. Design will be in

accordance with the AASHTO LRFD Bridge Design Specifications, ODOT's Standard Specifications, and ODOT Bridge Design Practice (where applicable).

1.3. Hydraulic analysis will be performed for the bridge. The hydrological and hydraulic design shall include a sizing study, scour study, and channelization study using HEC-RAS. Discharge computations will be performed for the existing, natural and proposed conditions for Q2, Q5, Q10, Q25, Q50, Q100 and Q500. Bridge hydraulic analysis will be performed for the natural, existing, and proposed conditions. A hydraulic report will be provided.

- 1.3.1. Assessment of channel and overbank roughness will be based on field notes and photographs.
- 1.3.2. The project is located within FEMA flood zone A.
- 1.3.3. Neither a LOMR nor CLOMR is anticipated to be required for this project and is not included in this scope.

1.4. Prepare bridge construction plans, which may include but not be limited to:

- 1.4.1. General Notes and Summary of Pay Quantities
- 1.4.2. Foundation Report Sheet(s)
- 1.4.3. General Plan and Elevation Sheet
- 1.4.4. Substructure Staking Sheet
- 1.4.5. Pier Detail Sheet(s)
- 1.4.6. Riprap Detail Sheet(s)
- 1.4.7. Miscellaneous Detail Sheet(s)
- 1.4.8. Perform quality assurance/quality control reviews, make necessary corrections, and submit final plans.

SECTION 2 - Roadway Design

2.1. Prepare construction plans for roadway approaches. Roadway will be as long as required to meet and match the existing alignments on the north and south. The 2022 State of Oklahoma County Highway System Design Guidelines Manual and 2019 ODOT Standard Specifications will be used for the design.

2.2. The roadway has approximately 100 ADT as of 2020.

2.3. The proposed roadway section is 2-10 ft TBSC lanes and 2 ft TBSC shoulders.

2.4. The estimated roadway length is 1,000 ft and is anticipated to be open-section with ditches.

- 2.4.1. Alignment studies are not included in this scope of work.

2.5. Define the extents of any additional right-of-way required.

2.6. Provide evaluation and design of drainage system.

2.7. Incorporate environmental mitigation notes and measures as required in environmental clearance documents.

2.8. Perform quality assurance/quality control review.

2.9. Roadway plans may include, but not be limited to:

- 2.9.1. Title Sheet
- 2.9.2. Typical Sections
- 2.9.3. General Construction Notes
- 2.9.4. Summary of Pay Quantities and Notes (Roadway)

2.9.5. Summary Sheets
2.9.6. Driveway and Street Return Schedule
2.9.7. Summary of Drainage Structures
2.9.8. Drainage Area Maps
2.9.9. Drainage Structure Design Record Table
2.9.10. Stormwater Management Plan
2.9.11. Erosion Control Plan
2.9.12. Alignment Data Sheets
2.9.13. Plan and Profile Sheets
2.9.14. Cross Sections

2.10. Lighting is **not** included in this scope of work.

2.11. Sidewalks or trails are **not** included in this scope of work.

2.12. Landscape design is **not** included in this scope of work.

SECTION 3 - Traffic Studies

3.1. Traffic studies or turning analyses are **not** included in this scope of work.

SECTION 4 - Traffic Engineering Design

4.1. The roadway is expected to be closed to through traffic with access for local traffic only. Shoofly design is **not** included. A detour plan is included.

4.2. A signing and striping plan is not included.

4.3. Traffic control pay items will be itemized.

4.4. A detailed sequencing of construction plan layout is not included.

4.5. Traffic signal design is **not** included in this scope of work.

4.6. Traffic plans may include, but not be limited to:
4.6.1. Detour Plan
4.6.2. Permanent Signing and Striping
4.6.3. Summary of Pay Quantities and Notes (Traffic)

SECTION 5 - Geotechnical Investigation

5.1. Geotechnical work shall be performed in accordance with the State of Oklahoma County Highway System Design Guidelines Manual 2022 Chapters 13 and 14, Geotechnical Investigations for Roadway and Bridge Design except as specifically indicated otherwise per this scope of work.
5.1.1. Roadway – Roadway geotechnical work will include two (2) borings necessary and sufficient to support pavement design. A pavement design will be generated based on the borings and flex ESALS.
5.1.2. Bridge – Two (2) foundation borings (one at each abutment) will be taken. The borings will extend to depths of about 20 feet into rock. Fee is based on a single span bridge. See proposal from Arrowhead Engineering for additional information.
5.1.3. Embankment Study – Not included in this scope of work.

SECTION 6 – Environmental

6.1. Environmental Impact Assessment.

SECTION 7 - Survey

7.1. Survey shall be performed in accordance with the 2022 State of Oklahoma county Highway System Design Guidelines Manual Chapter 2- Survey.

SECTION 8 - Subsurface Utility Engineering (SUE)

8.1. Quality Level D is included. This scope includes records research and data collection at the desktop level. Data is approximate. (Included in the survey scope of work.)

8.2. Quality Level C is included. This level includes all visible utilities and those marked by Call Okie. No additional utility locating is included. (Included in the survey scope of work.)

8.3. Quality Level B is **not** included for the utilities not marked by OKIE811. This level includes using SUE technology/equipment to identify the horizontal location.

8.4. Quality Level A is **not** included. This level includes potholing of specific utilities. This will provide accurate horizontal and vertical depth at the point of potholing.

SECTION 9 - Right-of-Way

9.1. Right-of-way documents are included in the scope of services. It is assumed that documentation will be written for three (3) parcels.

9.2. Right-of-way acquisition is not included in the scope of services.

9.3. Right-of-way staking shall be completed for right-of-way acquisition and utility relocations. Staking shall be performed in accordance with ODOT Right-of-Way and Utilities Division's Policies and Procedures. It is assumed that parcels will be staked two (2) times.

SECTION 10 - Utility Relocation Coordination

10.1. Utility Relocation Coordination services implement the requirements outlined in the ODOT Utilities Branch Policies and Procedures. Two (2) utilities (overhead electric and underground fiber) were observed within the project limits either in parallel with the alignment or crossing the alignment. Any additional utilities found within the project limits by survey or new construction will require a contract supplemental to complete the relocations. Utility relocation management Tasks 0-6 are included in this scope.

10.2. Task 0 - Review survey drawings for utility confirmation, coordinate with utility owners, and field-verify locations through drive-out and observation of the project. Compile report summary and potential cost impacts for the relocation of utilities.

10.3. Task 1 - Review of 30% plans (Preliminary plans).

- 10.3.1. Prepare and draft conflict assessment matrix.
- 10.3.2. Attend Plan-in-Hand (PIH) meeting.
- 10.3.3. Write plan-in-hand utility report.

10.4. Task 2 - Review (60%) plans (R/W Plans) for conflict compliance. Draft and submit compliance/non-compliance memo.

10.5. Task 3 – Prepare and submit utility programming estimate from R/W plan review.

10.6. Task 4 - Scheduling and preparing for utility field meetings, conduct field meetings on site, draft field meeting reports.

- 10.6.1. Draft Preliminary Utility Relocation Plans (PURPs).
- 10.6.2. Develop utility relocation schedules.
- 10.6.3. Distribution of PURP revisions and design plan revisions.
- 10.6.4. Obtain documentation and approval of engineer/inspector/surveyor.
- 10.6.5. Obtain drawings, estimates, and Utility Relocation Agreements (URAs) from utility owners/representatives.
- 10.6.6. Issue approval deferred letters.
- 10.6.7. Prepare and submit Final Utility Relocation Plans (FURPs).

10.7. Task 5 – Issue Work Orders/Notices to Proceed for utilities, obtain electronic bid tabs for review. Issue low bid concurrence memo.

10.8. Task 6 – Observation of utility relocation construction on the project site. Verify utilities are relocated or constructed according to FURPs and agreements. Verifications and observations include:

- 10.8.1. Observe safety briefing conducted by utility owner or contractor.
- 10.8.2. Maintain an attendee list on-site and confirm utility owners have representatives on-site, including name, title, company name, address, email, and phone numbers (mobile and office).
- 10.8.3. Confirm OKIE811 has been notified and provided markings.
- 10.8.4. Confirm utility owner has approved documentation for the relocation.
- 10.8.5. Verify and observe construction activities are in accordance with the approved plan and approved location for the utility to relocate and construct, and for the protection of existing facilities.
- 10.8.6. Three (3) observation site visits are included per utility for a total of 6 site visits during relocation activities.

Provide field notes of activities and photo documentation of utility construction until completion.

PEORIA TRIBE
OF INDIANS OF OKLAHOMA

Ottawa County, District 2
Bridge 50 – S 655 Road over Warren Branch Creek

Project Description

The purpose of the project is to reconstruct the bridge on S 655 Rd over Warren Branch Creek, NBI No. 06512, Circle Number 50, Bridge Location No. 58N4655E0070008, and approach roadway in Ottawa County.

General Scope

The general scope of work includes meetings, on-site reviews and additional work required for the preparation of studies, reports, surveys, geotechnical investigations, hydraulic analysis/design, roadway design, permitting assistance; culminating in the delivery of final construction Plans, Specifications and Estimates (PS&E).

The CONSULTANT will prepare plans to replace the bridge and approach roadway, surfacing and drainage. Plan submittals include: Preliminary Plans, Draft Right-of-Way (R/W) Plans for NEPA, R/W Plans, Final Plans, PS&E.

The CONSULTANT will:

- Conduct survey; gather land ownership and utility information.
- Conduct hydraulic design to set bridge size and roadway grades.
- Prepare preliminary plans and cost estimate.
- Attend NEPA kickoff meeting.
- Attend preliminary plan field review meeting.
- Prepare updated cost estimates, R/W acquisition documents, and stake proposed R/W.
- Attend R/W kickoff meeting.
- Finalize plans, quantities and cost estimates.
- Attend final plan field review meeting.
- Perform quality assurance/quality control review.
- Manage utility relocations.
- Submit to ODOT an application for the USACE 404 permit.
- Attend the pre-bid conference (if requested).

No public meetings are anticipated and are not included in this scope of work.

SECTION 1 - Bridge Design

1.1. The CONSULTANT will prepare plans for the replacement of the 3-30ft I-Beam Spans. The new bridge will be placed on the existing alignment with approximately 1,100 ft of total approach roadway length. The bridge and or road will be closed to traffic during construction.

1.2. The proposed bridge is anticipated to be a 2009 county standard design 26 ft clear roadway 3-span PC Beam Bridge. The new bridge may be skewed and will be as long as necessary to meet hydraulic requirements or to match the terrain. Pier details and design for two (2) piers, each consisting of a reinforced concrete cap founded on two drilled shafts. Designs will be in

accordance with the AASHTO LRFD Bridge Design Specifications, ODOT's Standard Specifications, and ODOT Bridge Design Practice (where applicable).

1.3. Hydraulic analysis will be performed for the bridge. The hydrological and hydraulic design shall include a sizing study, scour study, and channelization study using HEC-RAS. Discharge computations will be performed for the existing, natural and proposed conditions for Q2, Q5, Q10, Q25, Q50, Q100 and Q500. Bridge hydraulic analysis will be performed for the natural, existing, and proposed conditions. A hydraulic report will be provided.

- 1.3.1. Assessment of channel and overbank roughness will be based on field notes and photographs.
- 1.3.2. The project is located within FEMA flood zone A.
- 1.3.3. Neither a LOMR nor CLOMR is anticipated to be required for this project and is not included in this scope.

1.4. Prepare bridge construction plans, which may include but not be limited to:

- 1.4.1. General Notes and Summary of Pay Quantities
- 1.4.2. Foundation Report Sheet(s)
- 1.4.3. General Plan and Elevation Sheet
- 1.4.4. Substructure Staking Sheet
- 1.4.5. Pier Detail Sheet(s)
- 1.4.6. Riprap Detail Sheet(s)
- 1.4.7. Miscellaneous Detail Sheet(s)
- 1.4.8. Perform quality assurance/quality control reviews, make necessary corrections, and submit final plans.

SECTION 2 - Roadway Design

2.1. Prepare construction plans for roadway approaches. Roadway will be as long as required to meet and match the existing alignments on the north and south. The 2022 State of Oklahoma County Highway System Design Guidelines Manual and 2019 ODOT Standard Specifications will be used for the design.

2.2. The roadway has approximately 200 ADT as of 2020.

2.3. The proposed roadway section is 2-10 ft asphalt lanes and 2 ft asphalt shoulders.

2.4. The estimated roadway length is 1,100 ft and is anticipated to be open-section with ditches.

- 2.4.1. Alignment studies are not included in this scope of work.

2.5. Define the extents of any additional right-of-way required.

2.6. Provide evaluation and design of drainage system.

2.7. Incorporate environmental mitigation notes and measures as required in environmental clearance documents.

2.8. Perform quality assurance/quality control review.

2.9. Roadway plans may include, but not be limited to:

- 2.9.1. Title Sheet
- 2.9.2. Typical Sections
- 2.9.3. General Construction Notes
- 2.9.4. Summary of Pay Quantities and Notes (Roadway)

2.9.5. Summary Sheets
2.9.6. Driveway and Street Return Schedule
2.9.7. Summary of Drainage Structures
2.9.8. Drainage Area Maps
2.9.9. Drainage Structure Design Record Table
2.9.10. Stormwater Management Plan
2.9.11. Erosion Control Plan
2.9.12. Alignment Data Sheets
2.9.13. Plan and Profile Sheets
2.9.14. Cross Sections

2.10. Lighting is **not** included in this scope of work.

2.11. Sidewalks or trails are **not** included in this scope of work.

2.12. Landscape design is **not** included in this scope of work.

SECTION 3 - Traffic Studies

3.1. Traffic studies or turning analyses are **not** included in this scope of work.

SECTION 4 - Traffic Engineering Design

4.1. The roadway is expected to be closed to through traffic with access for local traffic only. Shoofly design is **not** included. A detour plan is included.

4.2. A signing and striping plan will be included.

4.3. Traffic control pay items will be itemized.

4.4. A detailed sequencing of construction plan layout is not included.

4.5. Traffic signal design is **not** included in this scope of work.

4.6. Traffic plans may include, but not be limited to:
4.6.1. Detour Plan
4.6.2. Permanent Signing and Striping
4.6.3. Summary of Pay Quantities and Notes (Traffic)

SECTION 5 - Geotechnical Investigation

5.1. Geotechnical work shall be performed in accordance with the State of Oklahoma County Highway System Design Guidelines Manual 2022 Chapters 13 and 14, Geotechnical Investigations for Roadway and Bridge Design except as specifically indicated otherwise per this scope of work.
5.1.1. Roadway – Roadway geotechnical work will include two (2) borings necessary and sufficient to support pavement design. A pavement design will be generated based on the borings and flex ESALS.
5.1.2. Bridge – Four (4) foundation borings (one at each abutment, one at each pier, and one constructability boring at a pier location) will be taken. The borings will extend to depths of about 20 feet into rock. Fee is based on a 3-span bridge. See proposal from Arrowhead Engineering for additional information.
5.1.3. Embankment Study – Not included in this scope of work.

SECTION 6 – Environmental

6.1. Environmental Impact Assessment.

SECTION 7 - Survey

7.1. Survey shall be performed in accordance with the 2022 State of Oklahoma county Highway System Design Guidelines Manual Chapter 2- Survey.

SECTION 8 - Subsurface Utility Engineering (SUE)

8.1. Quality Level D is included. This scope includes records research and data collection at the desktop level. Data is approximate. (Included in the survey scope of work.)

8.2. Quality Level C is included. This level includes all visible utilities and those marked by Call Okie. No additional utility locating is included. (Included in the survey scope of work.)

8.3. Quality Level B is **not** included for the utilities not marked by OKIE811. This level includes using SUE technology/equipment to identify the horizontal location.

8.4. Quality Level A is **not** included. This level includes potholing of specific utilities. This will provide accurate horizontal and vertical depth at the point of potholing.

SECTION 9 - Right-of-Way

9.1. Right-of-way documents are included in the scope of services. It is assumed that documentation will be written for one (1) parcel.

9.2. Right-of-way acquisition is not included in the scope of services.

9.3. Right-of-way staking shall be completed for right-of-way acquisition and utility relocations. Staking shall be performed in accordance with ODOT Right-of-Way and Utilities Division's Policies and Procedures. It is assumed that parcels will be staked two (2) times.

SECTION 10 - Utility Relocation Coordination

10.1. Utility Relocation Coordination services implement the requirements outlined in the ODOT Utilities Branch Policies and Procedures. Four (4) utilities (overhead electric, underground fiber, water distribution, and overhead communication) were observed within the project limits either in parallel with the alignment or crossing the alignment. Any additional utilities found within the project limits by survey or new construction will require a contract supplemental to complete the relocations. Utility relocation management Tasks 0-6 are included in this scope.

10.2. Task 0 - Review survey drawings for utility confirmation, coordinate with utility owners, and field-verify locations through drive-out and observation of the project. Compile report summary and potential cost impacts for the relocation of utilities.

10.3. Task 1 - Review of 30% plans (Preliminary plans).

- 10.3.1. Prepare and draft conflict assessment matrix.
- 10.3.2. Attend Plan-in-Hand (PIH) meeting.
- 10.3.3. Write plan-in-hand utility report.

10.4. Task 2 - Review (60%) plans (R/W Plans) for conflict compliance. Draft and submit compliance/non-compliance memo.

10.5. Task 3 – Prepare and submit utility programming estimate from R/W plan review.

10.6. Task 4 - Scheduling and preparing for utility field meetings, conduct field meetings on site, draft field meeting reports.

- 10.6.1. Draft Preliminary Utility Relocation Plans (PURPs).
- 10.6.2. Develop utility relocation schedules.
- 10.6.3. Distribution of PURP revisions and design plan revisions.
- 10.6.4. Obtain documentation and approval of engineer/inspector/surveyor.
- 10.6.5. Obtain drawings, estimates, and Utility Relocation Agreements (URAs) from utility owners/representatives.
- 10.6.6. Issue approval deferred letters.
- 10.6.7. Prepare and submit Final Utility Relocation Plans (FURPs).

10.7. Task 5 – Issue Work Orders/Notices to Proceed for utilities, obtain electronic bid tabs for review. Issue low bid concurrence memo.

10.8. Task 6 – Observation of utility relocation construction on the project site. Verify utilities are relocated or constructed according to FURPs and agreements. Verifications and observations include:

- 10.8.1. Observe safety briefing conducted by utility owner or contractor.
- 10.8.2. Maintain an attendee list on-site and confirm utility owners have representatives on-site, including name, title, company name, address, email, and phone numbers (mobile and office).
- 10.8.3. Confirm OKIE811 has been notified and provided markings.
- 10.8.4. Confirm utility owner has approved documentation for the relocation.
- 10.8.5. Verify and observe construction activities are in accordance with the approved plan and approved location for the utility to relocate and construct, and for the protection of existing facilities.
- 10.8.6. Three (3) observation site visits are included per utility for a total of 12 site visits during relocation activities.
- 10.8.7. Provide field notes of activities and photo documentation of utility construction until completion.

End of Bridge 50 Proposal

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Ottawa County, District 2
Bridge 63 – E 94 Rd over Unnamed Creek

Project Description

The purpose of the project is to reconstruct the bridge on E 94 Rd over Unnamed Creek, NBI No. 06018, Circle Number 63, Bridge Location No. 58E0094N4700002, and approach roadway in Ottawa County.

General Scope

The general scope of work includes meetings, on-site reviews and additional work required for the preparation of studies, reports, surveys, geotechnical investigations, hydraulic analysis/design, roadway design, permitting assistance; culminating in the delivery of final construction Plans, Specifications and Estimates (PS&E).

The CONSULTANT will prepare plans to replace the bridge and approach roadway, surfacing and drainage. Plan submittals include: Preliminary Plans, Draft Right-of-Way (R/W) Plans for NEPA, R/W Plans, Final Plans, PS&E.

The CONSULTANT will:

- Conduct survey; gather land ownership and utility information.
- Conduct hydraulic design to set bridge size and roadway grades.
- Prepare preliminary plans and cost estimate.
- Attend NEPA kickoff meeting.
- Attend preliminary plan field review meeting.
- Prepare updated cost estimates, R/W acquisition documents, and stake proposed R/W.
- Attend R/W kickoff meeting.
- Finalize plans, quantities and cost estimates.
- Attend final plan field review meeting.
- Perform quality assurance/quality control review.
- Manage utility relocations.
- Submit to ODOT an application for the USACE 404 permit.
- Attend the pre-bid conference (if requested).

No public meetings are anticipated and are not included in this scope of work.

SECTION 1 - Bridge Design

1.1. The CONSULTANT will prepare plans for the replacement of the 2-10ft Concrete Slab Spans. The new bridge will be placed on the existing alignment with approximately 1,100 ft of total approach roadway length. The bridge and or road will be closed to traffic during construction.

1.2. The proposed bridge is anticipated to be a 2009 county standard design 26 ft clear roadway custom RC Box. The new bridge may be skewed and will be as long as necessary to meet hydraulic requirements or to match the terrain. Designs will be in accordance with the

AASHTO LRFD Bridge Design Specifications, ODOT's Standard Specifications, and ODOT Bridge Design Practice (where applicable).

1.3. Hydraulic analysis will be performed for the bridge. The hydrological and hydraulic design shall include a sizing study, scour study, and channelization study using HEC-RAS. Discharge computations will be performed for the existing, natural and proposed conditions for Q2, Q5, Q10, Q25, Q50, Q100 and Q500. Bridge hydraulic analysis will be performed for the natural, existing, and proposed conditions. A hydraulic report will be provided.

- 1.3.1. Assessment of channel and overbank roughness will be based on field notes and photographs.
- 1.3.2. The project is located within FEMA flood zone A.
- 1.3.3. Neither a LOMR nor CLOMR is anticipated to be required for this project and is not included in this scope.

1.4. Prepare bridge construction plans, which may include but not be limited to:

- 1.4.1. Pay Quantities and Notes (Bridge)
- 1.4.2. General Plan and Elevation
- 1.4.3. Foundation Report
- 1.4.4. Substructure Staking Diagram
- 1.4.5. Details of Superstructure
- 1.4.6. Details of PC Beams
- 1.4.7. Details of Approach Slabs
- 1.4.8. Perform quality assurance/quality control reviews, make necessary corrections, and submit final plans.

SECTION 2 - Roadway Design

2.1. Prepare construction plans for roadway approaches. Roadway will be as long as required to meet and match the existing alignments on the north and south. The 2022 State of Oklahoma County Highway System Design Guidelines Manual and 2019 ODOT Standard Specifications will be used for the design.

2.2. The roadway has approximately 100 ADT as of 2020.

2.3. The proposed roadway section is 2-10 ft asphalt lanes and 2 ft asphalt shoulders.

2.4. The estimated roadway length is 1,000 ft and is anticipated to be open-section with ditches.

- 2.4.1. Alignment studies are not included in this scope of work.

2.5. Define the extents of any additional right-of-way required.

2.6. Provide evaluation and design of drainage system.

2.7. Incorporate environmental mitigation notes and measures as required in environmental clearance documents.

2.8. Perform quality assurance/quality control review.

2.9. Roadway plans may include, but not be limited to:

- 2.9.1. Title Sheet
- 2.9.2. Typical Sections
- 2.9.3. General Construction Notes
- 2.9.4. Summary of Pay Quantities and Notes (Roadway)

2.9.5. Summary Sheets
2.9.6. Driveway and Street Return Schedule
2.9.7. Summary of Drainage Structures
2.9.8. Drainage Area Maps
2.9.9. Drainage Structure Design Record Table
2.9.10. Stormwater Management Plan
2.9.11. Erosion Control Plan
2.9.12. Alignment Data Sheets
2.9.13. Plan and Profile Sheets
2.9.14. Cross Sections

2.10. Lighting is **not** included in this scope of work.

2.11. Sidewalks or trails are **not** included in this scope of work.

2.12. Landscape design is **not** included in this scope of work.

SECTION 3 - Traffic Studies

3.1. Traffic studies or turning analyses are **not** included in this scope of work.

SECTION 4 - Traffic Engineering Design

4.1. The roadway is expected to be closed to through traffic with access for local traffic only. Shoofly design is **not** included. A detour plan is included.

4.2. A signing and striping plan will be included.

4.3. Traffic control pay items will be itemized.

4.4. A detailed sequencing of construction plan layout is not included.

4.5. Traffic signal design is **not** included in this scope of work.

4.6. Traffic plans may include, but not be limited to:
4.6.1. Detour Plan
4.6.2. Permanent Signing and Striping
4.6.3. Summary of Pay Quantities and Notes (Traffic)

SECTION 5 - Geotechnical Investigation

5.1. Geotechnical work shall be performed in accordance with the State of Oklahoma County Highway System Design Guidelines Manual 2022 Chapters 13 and 14, Geotechnical Investigations for Roadway and Bridge Design except as specifically indicated otherwise per this scope of work.
5.1.1. Roadway – Roadway geotechnical work will include two (2) borings necessary and sufficient to support pavement design. A pavement design will be generated based on the borings and flex ESALS.
5.1.2. Bridge – Four (4) foundation borings (one at each abutment, one at each pier, and one constructability boring at a pier location) will be taken. The borings will extend to depths of about 20 feet into rock. Fee is based on a 3-span bridge. See proposal from Arrowhead Engineering for additional information.
5.1.3. Embankment Study – Not included in this scope of work.

SECTION 6 – Environmental

6.1. Environmental Impact Assessment.

SECTION 7 - Survey

7.1. Survey shall be performed in accordance with the 2022 State of Oklahoma county Highway System Design Guidelines Manual Chapter 2- Survey.

SECTION 8 - Subsurface Utility Engineering (SUE)

8.1. Quality Level D is included. This scope includes records research and data collection at the desktop level. Data is approximate. (Included in the survey scope of work.)

8.2. Quality Level C is included. This level includes all visible utilities and those marked by Call Okie. No additional utility locating is included. (Included in the survey scope of work.)

8.3. Quality Level B is **not** included for the utilities not marked by OKIE811. This level includes using SUE technology/equipment to identify the horizontal location.

8.4. Quality Level A is **not** included. This level includes potholing of specific utilities. This will provide accurate horizontal and vertical depth at the point of potholing.

SECTION 9 - Right-of-Way

9.1. Right-of-way documents are included in the scope of services. It is assumed that documentation will be written for two (2) parcels.

9.2. Right-of-way acquisition is not included in the scope of services.

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SECTION 10 - Utility Relocation Coordination

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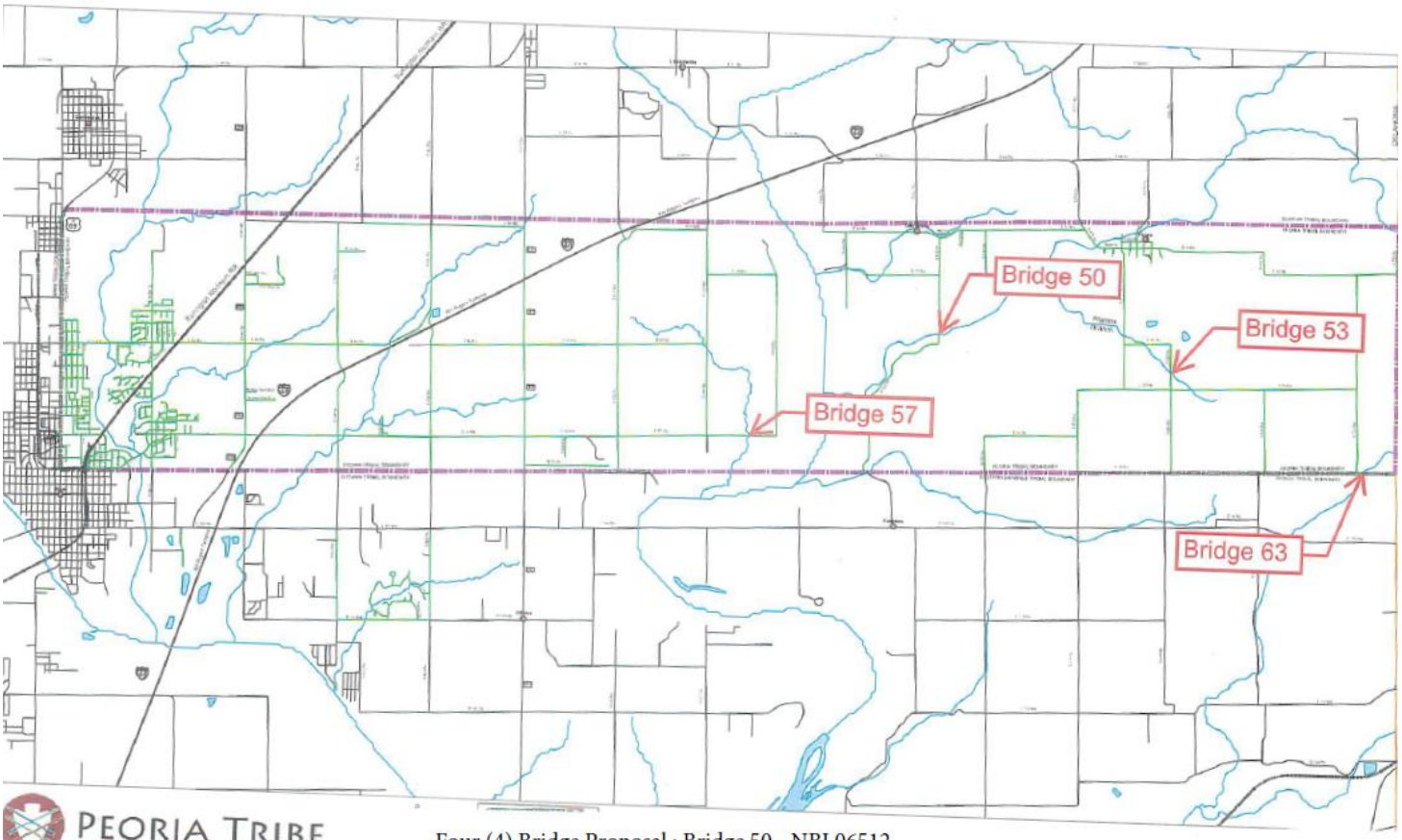
End of Bridge 63 Proposal

Map of the Four (4) Bridges for Proposal for Preliminary Design



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Four (4) Bridge Proposal : Bridge 50 - NBI 06512
Bridge 53 - NBI 07361
Bridge 57 - NBI 06093
Bridge 63 - NBI 06018