

SEBASTIAN COUNTY JUDGE
Purchasing Department
35 South 6th Street
Fort Smith, Arkansas 72901
(501) 784-1502 Fax (501) 784-1550

July 10, 2013

NOTICE TO: Qualified Bidders

SUBJECT: Request for Proposal, Bid Number SC – 1314

Sebastian County is interested in receiving sealed written proposals for furnishing the products/services specified in the attached Request For Proposal (RFP). Complete details regarding the products and/or services required by the County, and instructions for participating in the bid process, are included in the attached bid package.

Bids must be received by the time and date indicated in the RFP. Bids received after the time and date set for opening will not be considered.

Bidders who do not wish to submit bids must submit a "No Bid" to continue to be eligible for retention on the Bid List. The Bid List is periodically reviewed and bidders who have not responded to proposal requests are deleted.

If you are interested in submitting a bid, please be sure that the requirements of the RFP are completed since failure to meet the requirements could cause your bid to be rejected.

Any questions regarding the Bid Invitation should be directed to the Purchasing Department, (501) 784-1502.

J. Scott Stubblefield
Assistant County Administrator Purchasing/Facilities
Sebastian County

Attach: RFP

REQUEST FOR PROPOSAL

Sebastian County, Arkansas

COVER SHEET

SECTION I

BID NUMBER: SC-1314

TITLE: TORRAINE LAKE BRIDGE PROJECT

OPENING: DATE: July 30, 2013
TIME: 2:00 p.m.
PLACE: Purchasing Department
35 South 6th Street, Room 106
Fort Smith, Arkansas

MAIL SEALED PROPOSALS TO: Sebastian County Purchasing Dept.
35 South 6th Street, Room 106
Fort Smith, Arkansas 72901

ON OUTSIDE OF PROPOSAL SHOW: (1) Return address
(2) Bid opening date
(3) Bid number & title

BIDDER MUST COMPLETE THE FOLLOWING INFORMATION:

NAME OF BIDDER: _____

ADDRESS: _____

CITY/STATE/ZIP CODE: _____

TELEPHONE NUMBER: _____ FAX Number: _____

INSTRUCTIONS:

1. Unit prices and extensions are required on proposal form.
2. Return **three** copies of Section I (Cover Sheet) and Section II Proposal), and any other documents required by the specifications.
3. Proposals must be signed to be accepted.
4. Any trade discounts should be deducted and net prices shown.
5. Bidder must guarantee product(s) offered will meet or exceed specifications contained in this Request for Proposals.
6. Bidding procedures will be in compliance with Arkansas Laws.
7. **QUOTE:** F.O.B. destination.
8. **TERMS:** Net 30 days.

PROPOSAL FORM

BID NO. SC-1314

SECTION II

We, the undersigned, agree to furnish the products and/or services indicated below in accordance with the specifications and conditions contained herein, at the bid price shown.

It is expressly agreed and understood by and between the parties hereto, and is made a condition precedent to the entering into of any purchase agreement resulting from this invitation to bid, that the County Judge, Sebastian County, shall determine any and all questions or disputes which may arise concerning conformity to the specifications and conditions, and proposals; and the quantity, suitability, and acceptability of all items to be furnished hereunder; and his decision as to such matters shall be final, binding, and conclusive upon the parties hereto.

That this Request For Proposal and proposals submitted hereunder shall be governed by the laws of the State of Arkansas.

We, the undersigned, affirm that this proposal is made on behalf of the undersigned, and is made without collusion on the part of any person, firm or corporation; and that the conditions and other provisions have been carefully examined and are agreed to.

TORRAINE LAKE BRIDGE PROJECT

Description	Total Price
60' Bridge Span	\$ _____
80' Bridge Span	\$ _____
110' Bridge Span	\$ _____
Tax	\$ _____
Total Bid	\$ _____
Written Amount \$	_____

Amounts shall be in both written form and figures. In case of a discrepancy between the written amount and the figures, the written amount will govern.

Per Statute 26-52-410 of the Arkansas Code, "No tax shall be levied or collected upon gross receipts derived from the sale of motor vehicles to municipalities and counties or to state-supported colleges and universities or to public school districts in this state".

Contractor's License No. _____

Exceptions to specifications: NO _____ YES _____ (Attach itemized list)

From: _____ Signature: _____
(Vendor) (Printed name & signature)

Date: _____ Title: _____

GENERAL CONDITIONS

SECTION III

1. Bids must be received no later than the date and time set for bid opening. **Bids must be sealed.** Bids may be withdrawn, modified or corrected by the bidder after it has been submitted provided a written request to do so is filed with the County Judge prior to the time set for opening the bid. Telegrams or letters received prior to the time set for opening the bids will be accepted and attached to the unopened bid, and the bid will be considered withdrawn, modified, corrected, or otherwise changed accordingly. **NO BID MAY BE WITHDRAWN, MODIFIED, CORRECTED, OR OTHERWISE CHANGED AFTER THE TIME SET FOR OPENING THE BIDS.**
2. Specifications are designed to describe the type and quality of the product/services desired by the County. They are not intended to restrict bidding on any like product/service of equal or higher quality. Any exceptions to the specifications must be noted on a separate sheet by reference to the item number in the specifications where the exception is taken. If no exceptions are submitted with the Proposal, and accepted by the County, bidders will be expected to comply with the specifications. Products and/or services will be inspected for compliance prior to acceptance.
3. Prices quoted will be considered net prices unless otherwise stated by the bidder in the proposal. Bid prices must remain firm for 60 days unless otherwise stated in the specifications.
4. It shall be understood and agreed that any material or product purchased under this bid shall be new and in first class condition unless otherwise stated in or required by the bid invitation.
5. Bid bonds are required.
6. **Bids must be signed to be accepted.** Signature must be that of the individual authorized to obligate the bidder who is submitting the bid or proposal.
7. The County is exempt from Federal Excise Taxes and such taxes shall not be included in the bid price. An exemption certificate will be furnished where required.
8. **State and Local Sales Taxes shall be stated as a separate item and shall not be included in the bid price of the product/services being proposed. If no taxes are so stated, the County will assume that any taxes due have been included in the price quoted and no additional taxes will subsequently be added to the bid price. The County is Sales Tax Exempt on motor vehicle purchases.**
9. **BIDS WILL BE EVALUATED BASED UPON COMPLIANCE WITH THE SPECIFICATIONS, BID PRICE, APPLICABILITY AND SUITABILITY OF THE PRODUCT/SERVICES BEING OFFERED, PRODUCT AND VENDOR RELIABILITY, WARRANTY, DELIVERY TIME, AND SUCH OTHER FACTORS DEEMED APPROPRIATE TO ASSURE THE COUNTY RECEIVES A QUALITY PRODUCT MOST ADVANTAGEOUS TO THE COUNTY.**
10. Assignment of any part or all of payments accruing under contracts or purchase agreements resulting from this Invitation to Bid will not be authorized. Payment shall only be made to the Contractor or vendor with whom the order is placed.
11. The County reserves the right to accept part or all of any specific bid or bids, and to accept any bid or bids with or without trade-in whichever is most advantageous to the County.
12. The Sebastian County Judge reserves the right to reject any or all bids/proposals, to accept any deemed most advantageous to the County, and to waive any formalities.
13. Attention of bidders is particularly called to the requirements as to conditions of employment to be observed. Bidders are advised that Arkansas State Department of Labor Prevailing Wage Rates may apply to this project should the base bid for all labor and materials reach the \$75,000 amount specified by State Law.

1. GENERAL SPECIFICATIONS**1.1 Scope**

- 1.1.1.** All engineering design and related detailing of Torraine Lake Bridge, which is part of the project known as the Sebastian County Wildlife Trail, shall be provided by the supplier. The design and detailing shall conform to the Applicable Codes and Standards listed in the section 2 of this document and shall comply with structural drawings/plans.
- 1.1.2.** Bridge and its attachments shall be fully fabricated by a qualified supplier as outlined in this document.
- 1.1.3.** Supplier shall be responsible for the delivery of all bridge materials.
- 1.1.4.** These specifications are for one fully engineered clear span bridges of steel frame construction and shall be regarded as minimum standards for design and construction.
- 1.1.5.** The specifications set forth in this package are considered minimum standards. Alternative specifications or designs may be submitted but must be listed, qualified and quantified while still meeting standards set forth by the organizations listed in 2.1 of this document.
- 1.1.6.** The manufacturer will advise the customer of the actual lifting weights, attachment points and all necessary information to install the bridge. Unloading, splicing, bolting, and proper lifting equipment is the responsibility of others.
- 1.1.7.** To ensure quality control during bridge fabrication, the bridge supplier shall be the designer and fabricator of the bridge and shall not assign, sublet, or subcontract any part of the bridge fabrication.

1.2. Suppliers

- 1.2.1.** Documentation to ensure proposed substitution shall be in compliance with these specifications must be provided and shall include the following minimum criteria to be considered:
 - Representative Design Calculations
 - Representative Drawings
 - Splicing and Erection Procedures
 - Warranty Information
 - Inspection and Maintenance Procedures
 - Welder Qualifications
 - Material Specifications and Appropriate Regulatory Listings
- 1.2.2.** Manufacturer must not have defaulted on any contract within the last five years.

- 1.2.3. Manufacturer must show three examples of 100 foot or longer single span bridges produced, and in use as an example of their ability to perform on this contract. Examples shall as closely as possible resemble the proposed bridge.
- 1.2.4. Manufacturer shall provide a 10 year warranty on all structural parts of the bridge.
- 1.2.5. Manufacturer must meet all State of Arkansas requirements to engage in all aspects of this project.

2. APPLICABLE CODES AND STANDARDS

2.1. Governing Codes and Standards

Bridge shall be designed in accordance with the American Association of State Highway and Transportation Officials (AASHTO), Guide Specification for Design of Pedestrian Bridges, latest edition, where applicable. Standards set forward by the Arkansas Stated Highway and Transportation Department (AHTD) standards when the AHTD standards are greater.

2.2. Reference Codes and Standards

- AASHTO, Guide Specification for Design of Pedestrian Bridges, August, latest edition
- American Welding Society, Structural Welding Code, latest edition
- National Design Specification for Wood Construction, ANSI NDS, latest edition
- American Wood Preservers Association Standards, latest edition.

3. GENERAL FEATURES OF DESIGN

3.1. Span

Bridge span shall be 60 ft., 80 ft., or 110 ft. measured from outside of end post to outside of end post. All three spans must be bid. Final project span length will be selected based upon cost and site preparation.

3.2. Width

Interior clear width of the bridge shall be 8 ft. measured from innermost point of rail to innermost point of rail.

3.3. System

- 3.3.1. Bridge shall be a “Bowstring” style steel truss bridge, as defined in this specification, or similar in look and function. Style must be approved in accordance with section 1.1 of this specification.
- 3.3.2. Bridge should be designed and fabricated as a single span structure and with or without a mid-span splice and still meet construction standards.

- 3.3.3. Bridge shall incorporate an Enclosed Floor System to hide horizontal bracing, floor beams and stringers from view.
- 3.3.4. Bridge shall be designed utilizing an H-section configuration, where the floor support system intersects the truss verticals above the bottom chord to increase stability.
- 3.3.5. The top of the top chord shall not be less than 54" above the finished deck for bicycle traffic.

3.4. Camber

Bridge shall be cambered to offset the dead load.

3.5. Slope

Bridge shall be designed for abutments constructed at the same elevation.

3.6. Deck

Bridge shall have an integrated, slip resistant surface that meets all codes and design standards which will be specified in the bid package.

3.7. Bearing Pads

Bridge shall include bearing pads, which shall allow the bridge to expand and contract as needed without binding.

3.8. Safety & Hand Rails

- 3.8.1. Bridge shall incorporate a graspable top rail, and curb bottom rail, which shall minimize climbing hazards and serve the function of guard, hand, and toe rail.
- 3.8.2. Top of top rail shall not be less than 54" above the finished deck.
- 3.8.3. Clear opening between safe rails or pickets shall reject the passage of a 4" diameter sphere up to the height specified in 3.8.1 of this document.
- 3.8.4. Clear opening between bottom rail and finished deck shall reject the passage of a 2" diameter sphere.
- 3.8.5. Graspable portion of top rail shall be round with a 1.25" to 2" OD or equivalent gripping surface.
- 3.8.6. A 1.5" clear distance between wall and top rail must be maintained.
- 3.8.7. All geometry is to be smooth with no sharp corners.

4. ENGINEERING

4.1. Design Loads

4.1.1. Dead Load

The bridge shall be designed considering its own dead load including structure and originally designed decking only. No additional loads shall be considered.

4.1.2. Pedestrian Live Load

Uniform Live Load: Pedestrian bridges shall be designed for an evenly distributed live load of 85 pounds per square foot in accordance with the AASHTO Guide Specification for the Design of Pedestrian Bridges.

4.1.3. Vehicle Load

Vehicle Load: Bridges will also be designed to withstand a moving vehicle load which weighs 1000 pounds per foot of width (up to 10,000 pounds) of bridge. This concentrated load is in addition to a 20 pounds per square foot evenly distributed live load. The vehicle load shall be distributed such that 80% of the load is on the rear axle (per AASHTO).

4.1.4. Wind Loads

4.1.4.1. Horizontal Wind Load

The Bridge shall be designed for a horizontal wind load of 35 lbs. per square foot, applied to the full vertical projected area of the bridge as if enclosed, at right angles to the longitudinal axis of the structure. Wind loads shall be proportionally distributed across all exposed primary member surfaces on the windward side.

Fatigue effects shall be considered for all load combinations incorporating wind loads where $n=100,000$ cycles.

4.1.4.2. Overturning Wind Load

The effect of forces tending to overturn the structure shall be calculated assuming that the wind direction is at right angles to the longitudinal axis of the structure. In addition, an upward force shall be applied at the windward quarter point of the transverse superstructure width. This force shall be 20 lbs. per square foot of deck influence area.

4.1.5. Rail Load

The top rail and vertical posts shall be designed for a simultaneous vertical and horizontal load of 50 pounds per linear foot or a 200 pound point load, whichever is greater, positioned to produce the maximum load effect.

4.1.6. Vertical Pickets

The picket system shall be designed for a 200 pound point load, applied transversely over an area of 1 square feet.

4.2. Design Limitations

4.2.1. Deflection

The vertical deflection of the primary members due to any load combination shall not exceed $L/400$, where L is the length of the unsupported span.

The horizontal deflection of the structure due to any load combination shall not exceed $L/500$, where L is the length of the unsupported span.

4.2.2. Allowable Stresses

All allowable stresses for metal frame and construction shall be determined in accordance with the industry standard and listed specifically in the bid package, Allowable stresses for Load Combinations which include wind loads may be increased by 25%.

All allowable stresses for pressure treated pine shall be determined in accordance with NDS, Design values for wood construction.

4.2.3. Frame Stability

The buckling load factor for the bridge structure shall be no less than 4 for any combination of applied loads, to ensure adequate overall stability and stiffness.

4.2.4. Vibration

The fundamental frequency of the unloaded pedestrian bridge shall be no less than 3.0 Hz to avoid the first harmonic.

5. MATERIALS

5.1. Deck

Decking shall meet one of the following criteria in accordance with section 3.6 of this specification

- Pressure Treated Pine - Decking shall be Southern Pine No. 1 Structural (1200# extreme fiber bending) Stress Grade. Wood decking shall have a minimum CCA (Copper Chromium Arsenate) content equal to .40 pounds per cubic foot. Equivalent pressure treating methods are acceptable. All wood shall comply with American Softwood Lumber Standard PS 20-70. Each piece of lumber shall be identified by the grade and treatment mark of recognized organization or independent agency certified by the American Lumber Standards Committee, Washington, DC to grade the species. All lumber specified for treatment shall be treated to the requirements of American Wood Preservers Bureau AWPB LP-22. The wood deck shall be designed for an 85 psf local loading condition. Floor planks shall be attached with at least two fasteners where planks cross supporting members. Planks shall be designed to carry a wheel footprint load per AASHTO.

5.2. Bearing Pads

All bearing pads shall list applied thickness and should be adequately dimensioned to provide support to the structure over the full travel resulting from expansion and contraction.

5.3. Fasteners

All fasteners required for assembly shall be stainless steel type 304. Insulating washers shall be provided where stainless steel and metal contact is anticipated to minimize the potential for corrosive or galvanic action.

5.4. Unpainted Weathering Steel

Bridges shall be fabricated from high strength, low alloy, atmospheric corrosion resistant ASTM A847 cold-formed welded square and rectangular tubing and/or ASTM A588, or ASTM A242, ASTM A606 plate and structural steel shapes ($F_y = 50,000$ psi). The minimum corrosion index of atmospheric corrosion resistant steel, as determined in accordance with ASTM G101, shall be 6.0.

6. Fabrication & Assembly

6.1. Welding

Welding shall meet all applicable industry standards which shall be listed in detail in the bid package. Welding and weld procedure qualification tests shall conform to the provisions of ANSI/AWS D1.1 "Structural Welding Code", 1996 Edition. Filler metal shall be in accordance with the applicable AWS Filler Metal Specification (i.e. AWS A 5.28 for the GMAW Process). For exposed, bare, unpainted applications of corrosion resistant steels (i.e. ASTM A588 and A847), the filler metal shall be in accordance with AWS D1.1, Section 3.7.3. Welders shall be properly accredited operators, each of whom shall submit certification of satisfactorily passing AWS standard qualification tests for all positions with unlimited thickness of base metal, have a minimum of 6 months experience in welding tubular structures and have demonstrated the ability to make uniform sound welds of the type required.

6.2. Expansion Slots

Slots shall be cut into bridge bearing area to allow for proper expansion and contraction of the bridge.

6.3. Mid-Span Splices

When required to accommodate contractor requirements or those of this specification, mid span splices shall be incorporated and be adequately designed to meet all criteria specified in section 4 of this document. Mid-span splices shall be designed and fabricated in accordance with the appropriate industry standards and shall be listed in detail in the bid package.

7. Submittals

7.1. Fabrication drawings

Fabrication drawings and calculations shall be prepared and submitted for review after receipt of the order. Submittal drawings shall be unique drawings to this project, prepared to illustrate the specific portion of the bridge being fabricated. All relative design information such as member size, material specification, dimensions, and required critical welds shall be clearly shown on the drawings.

At minimum the following criteria must be included for approval:

- All Relevant Bridge Dimensions
- Bridge Cross sections
- Sufficient Detailing
- Member Cross sections
- General Notes indicating material specifications and design loads
- Weld Details
- Detail of Bolted Splices (if applicable)
- Signature and Seal of PE licensed in accordance with this specification
- Camber Details

7.2. Calculations & Results

Bridge Reactions for all load combinations shall be prepared and submitted for review prior to fabrication. 3 individually stamped (by State of Arkansas Licensed Engineer) sets shall be provided to be reviewed and approved exclusively by owner and owners engineer prior to delivery.