

City of Jonesboro  
**Invitation to Bid - Not an Order**

P.O. Box 1845  
 515 West Washington Ave. (72401)

**Purchasing Office**

**Jonesboro, Arkansas 72403**

Bid No. 2010:06

Date Jan 21, 2010

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at this office until **2:00pm Wed Feb 10, 2010** and then publicly opened, for furnishing the supplies, materials and/or services as described below and tabulated for presentation to the City Council on n/a.

F.O.B Engineering Department  
 Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City see below days.

By: **Steve A. Kent**  
 Purchasing Agent  
 (870)932-0740

| Item # | Description  | Quantity | Unit | Unit Price | Amount   |
|--------|--|----------|------|------------|----------|
|        | SCOPE: Furnish all labor, material, equipment, and performing all work required to install traffic signal loop detector at various existing signal locations. Prices shall remain in effect from April 1, 2010 to April 1, 2011. |          |      |            |          |
|        | Pavements shall be made to vendor on a one a month basis to coincide with the City's payment schedule.   |          |      |            |          |
|        | At completion of each job, vendor will haul and clean all items from the job site.   |          |      |            |          |
|        | Successful bidder will be required to produce proof of liability insurance. Under no circumstances shall the Cit of Jonesboro be liable for any damage done to the City's or Personal property of citizens.                      |          |      |            |          |
|        | All Quantities on this bid are estimates. The City is not obligated to fulfill all quantities or may exceed estimated amounts on additional projects.  |          |      |            |          |
|        | Loop Wiring Class III (2c/#16AWG) AHTD Ref 704-----  | 5,840    | LF   | \$ _____   | \$ _____ |
|        | Feeder Wire AHTD Ref 704-----  | 900      | LF   | \$ _____   | \$ _____ |
|        | Non-Metallic Conduit (2") AHTD Ref 710-----  | 100      | LF   | \$ _____   | \$ _____ |
|        | Concrete Pull Box (Type 2 HD) AHTD Ref 711-----  | 2        | EA   | \$ _____   | \$ _____ |
|        | TOTAL -----  |          |      | -----      | \$ _____ |
|        | Bid number (2010:06) <b>must</b> be annotated on the outside of bidder's envelope.   |          |      |            |          |
|        | Bid <b>must</b> be signed or bid will be rejected.   |          |      |            |          |
|        | Any addendums to this bid will be posted no later than 5 days before bid opening on the purchasing web site at <a href="http://www.jonesboro.org">www.jonesboro.org</a>  |          |      |            |          |
|        | Cash Discounts _____ % _____ Days  |          |      |            |          |

**Execution of Bid**

Date \_\_\_\_\_

We, the undersigned, have read all the requirements set forth in this bid proposal including specification, instructions, conditions and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices stated.

Arkansas Use Tax Register No. \_\_\_\_\_ Phone # ( ) \_\_\_\_\_

Bidder \_\_\_\_\_ Address \_\_\_\_\_

By \_\_\_\_\_ City \_\_\_\_\_

(Person Authorized to Sign Bids)

(Title)

**Unsigned Bids Will Be Rejected**

**Bids number MUST be annotated on Bidder's envelope.**

**Bids are subject to rejection unless submitted on this form.**

**Notice to bidders: See reverse side for instructions and conditions.**

## CITY OF JONESBORO, ARKANSAS

### CONDITIONS OF BIDDING

COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR CONSIDERATION OF THIS BID:

1. **SIGNATURE** - This bid must be signed with the firm name and by an authorized officer, employee, or agent.
2. **SALES OR USE TAX** - is not to be shown in the bid price (unless otherwise stated) but is to be added by the vendor to the invoice billing to the City. The City is not exempt from Arkansas State Sales & Use Tax. Although Use Tax is not included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
3. **FREIGHT & OTHER DELIVERY CHARGES** - to designated City facility in Jonesboro must be included in bid. Charges may not be added after the bid is opened.
4. **DISCOUNTS** - Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise City will deduct allowed discount when payment is made.
5. **FIRM PRICE** - All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the City or bidder.
6. **IDENTICAL BIDS** - In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between the said two or more bidders at the discretion of City.
7. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
8. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
9. **CONSTRUCTION** -
  - A. When noted, the Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
  - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
  - C. A performance Bond equaling the total amount of any bid exceeding \$3,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Ark. Stat. SS51-632.SS51-565 as amended.)
10. The City reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
11. **Minority Business Policy** - It is the policy of the City of Jonesboro that minority business enterprises shall have the maximum opportunity to participate in the city purchasing process. Therefore, the City of Jonesboro encourages all minority businesses to compete for, win and receive contracts for goods, services, and construction. The city also encourages all companies to subcontract portions of any city contract to minority business enterprises.

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### INSTRUCTIONS TO BIDDERS

(PLEASE READ CAREFULLY)

1. Submit bid on bid form on reverse side of this sheet. NO Facsimiles will be accepted.
2. Address all bids to: Purchasing Agent. P.O. Box 1845, Jonesboro, Arkansas 72403-1845 and make certain to indicate identifying bid number on the outside of bidder's envelope.
3. DO NOT include Federal Excise Tax in bid. City will furnish exemption certificate.
4. State Manufacturer, Brand Name, Model, etc for each item bid on.
5. Samples of items, when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will be disposed of by City
6. Bids received after stated time will not be considered.
7. Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
8. Guarantees and warranties should be attached as a part of the bid as they may be a consideration in awarding a contract.
9. Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
10. Additional information may be obtained from the Purchasing Office.

**THE CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.**

Click on Purchasing at [www.jonesboro.org](http://www.jonesboro.org) for any additional information.



Construction. Some of the materials and items described below may not be utilized on a specific contract and are provided for information purposes only.

**2. Materials. (a) General.** The term "loop wiring" as used in these specifications shall refer to the sensing element consisting of single or multi conductor wire loop in the pavement, as well as the lead-in wire from the sensing element to the feeder wire. The wire shall be of the specified gauge stranded copper wire of the number conductors specified, and shall be insulated according to the requirements for the type specified as listed below.

**(b) Certification.** The Contractor shall submit to the Engineer for approval, two copies of the applicable manufacturer specifications containing design criteria for the components. This includes Loop Wire of the type required, backer rod and proposed material for sealing the loop. The Engineer will provide written notice of approval/disapproval of the design characteristics to notify the Contractor if the product(s) appears to be suitable for use on the contract. Approval is considered general agreement that the proposed product meets the specification, but in no way relieves the Contractor of the responsibility that the final installation meets the requirements of the contract.

**(c) Physical.** Approved materials for Loop Wire shall meet or exceed the minimum requirements of the "Class" specified as listed below:

**Class I (Standard Loop Wire)** – shall consist of 1c (single conductor) #14 gauge stranded copper wire and shall be insulated with RHH or RHW and be USE rated insulation not less than 0.045" (1.1 mm) thick. Products used for sealer shall be approved by the Engineer. Products include but are not limited to that listed on the Department's "Qualified Products List" (QPL) for loop wire sealer.

**Class II (Loop Wiring in Duct)** – shall consist of #14 gauge stranded XHHW or USE rated 600V wire completely enclosed in a PVC or polyethylene tubing HAVING A 3/16" (4.75MM) i.d., 1/4" (6.35 MM) o.d. AND A WALL THICKNESS OF 1/32" (0.8 MM). Loop wiring in duct shall comply with the latest requirements of the *International Municipal Signal Association Specification No. 51-5*. The tubing shall be capable of resisting deterioration from oils and solvents. The tubing shall also be highly abrasion resistant and have a smooth bore. Products include but are not limited to that listed on the Department's QPL for loop wire sealer.

**Class III (High Pressure Rated, Filled, Multi Conductor)** – shall be constructed of a minimum of #16 gauge stranded copper wire of the number conductors specified, encapsulated in a flexible sealant for multi-conductor wires, inside a reinforced hose, double jacket or approved tubing. No wire splices shall be allowed within the pavement area. All connections shall be made in the box or enclosure for the feeder wire.

**(d) Approved Sealers.** Products proposed for sealing all classes of loop wire not included on the Department's QPL may be approved by the Engineer on a case-by-case basis for test purposes. Approval does not relieve the Contractor of the responsibility for meeting the requirements of the contract including warranty. The Contractor agrees that if the loop installation fails within the warranty period as a result of the product, Contractor will replace the loop utilizing an approved method at no cost to the Department. Failure includes, but is not limited to, deterioration of the roadway surface, failure of the sealer, floating out of the loop wire, or failure of the electrical test.

**3. Construction. (a) General.** The vehicle detector loop wiring of the class specified shall be installed as shown on the plans or as directed by the Engineer.

**Class I and Class II** – shall be installed in a sawed slot approximately 1/4" to 3/8" (6 mm to 10 mm) wide, 2 1/2" (65 mm) minimum depth in asphalt or 2" (51 mm) in concrete, or 1 1/2" (40 mm) below the final pavement surface. Before sealing the slot, the wire shall be held down by backer rod wedges inserted into the slot at a maximum of 2' (0.6 m) intervals for cold pour sealer or with a continuous run of high temperature baker rod for hot-pour material.

**Class III** – detector loops shall be of the size and configuration as shown on the plans. Lead-in from the feeder wire to the loop shall be considered as two runs of Loop Wiring. Saw-cut slot shall be of sufficient width and to a depth such that the top of the loop is a minimum of 4" (100 mm) below the final surface for the entire length of the trench. The maximum width of any loop slot shall be 1 1/2" (38 mm). The minimum width shall be 1/8" (3 mm) total larger than the outer diameter of the loop wire. The corners of the trench should be drilled, cut at 45 degrees, or chiseled to remove sharp edges. The Engineer may approve other methods of cutting the slot for the loop.

**(b) Overlaid Surface** – Where the road surface is to be overlaid, the loop wiring may be installed prior to the final surface. The Contractor shall seal the loop slot completely with a material and/or sealant recommended for placement under new asphalt. Where surface is not to be overlaid, an approved sealer shall be applied as needed to the minimum depth of 1/4" (6 mm) below the final surface. Where multiple backfill applications are required, the Contractor should allow a minimum of 14 days prior to each backfill.

**(c) Connection to Feeder Wire** – of the loop wire shall be soldered and completely sealed in an approved manner against entry of moisture into the splice, jacket of the loop, and the feeder wire. No portion of the loop wire conductors shall be exposed. Approved methods include encapsulating the connections in waterproof dielectric grease inside a non-metallic shell.

**(d) Testing.** Loop wiring shall be tested by the Contractor utilizing an approved 500 Volt Meg Tester accurate to 0.1 M Ohm in the range of 1 M Ohm to 10 M Ohms and with continuity test accurate to 0.1 Ohm in the range of 1 to 10 Ohms.

- Meg-Test (500 Volt) – minimum resistance to ground 10.0 M Ohm  
 Note: Values greater than 1.0 M Ohm but less than 10 M Ohm are considered marginal and subject to further evaluation. Values less than 1.0 M Ohm are considered faulty and must be corrected by the Contractor, which includes re-sawing the loop if other methods do not prevail.
- Continuity – maximum loop resistance 3.0 Ohms (Typical)  
 Note: This value shall not exceed +/- 50% of the calculated value. If variation is outside this value, further testing shall be performed for inductance and quality of the loop.

**4. Method of Measurement.** Loop Wiring of the class specified will be measured by the linear foot of material in the saw-cut which shall include twice the length of the lead-in from the loop to the connection with feeder wire or detector panel (where terminated in a controller cabinet). Payment for up to four feet of lead-in will be allowed in the pull box or cabinet.

**5. Basis of Payment.** Work completed, accepted and measured as provided above will be paid for at the contract unit price bid for Loop Wire of the class and configuration specified, which price shall be full compensation for sawing and sealing; clearing the slot; removal of surplus material; and for all materials including loop wire, asphalt or sealer material, coupling and connectors; and for testing, labor, equipment, tools, and incidentals necessary to complete the work.

**Payment will be made under:**

| <u>Pay Item</u>                      | <u>Pay Unit</u> |
|--------------------------------------|-----------------|
| Loop Wiring Class I                  | Linear Foot     |
| Loop Wiring Class II                 | Linear Foot     |
| Loop Wiring Class III (2c/16 A.W.G.) | Linear Foot     |