

**SPECIFICATIONS FOR VIDEO INSPECTION
AND LINING OF ROADWAY PIPES
SECOND DIVISION**

1.0 CONTRACTOR REQUIREMENTS – GENERAL

- 1.1 Pursuant to section 34-8-1(a) of the Code of Alabama, each contractor must submit with their bid, proof of licensing through the Alabama State Board of Licensing for General Contractors, with approved maximum bid limits sufficient to cover the bid related to this specification. **Failure to comply will be cause for rejection of the bid.** A copy of the vendor's current year's license will expedite the evaluation process.
- 1.2 Each contractor should submit with their bid, proof of liability insurance in the minimum amount of \$500,000 per occurrence, \$1,000,000 aggregate. Each contractor should further provide proof of workman's compensation insurance sufficient to satisfy all legal requirements of the State of Alabama. **Failure to provide this documentation with the bid package will delay the bid evaluation process.**
- 1.3 The successful bidder will be required to submit a performance bond, in the amount of the bid price, prior to award of the purchase order.
- 1.4 All documentation **MUST** be submitted prior to award of the purchase order. All insurance certificates and bond instrument shall indicate State of Alabama, Department of Finance, and Division of Purchasing as certificate/bond holder.
- 1.5 In accordance with Section 41-16-59 of the Code of Alabama, the successful bidder in this solicitation is restrained from assigning or sub-contracting any portion of the work under this contract.
- 1.6 Due to the nature of this project, award will be made on an "All or None" basis to the recommended vendor, who during the course of our bid evaluation is found to be the lowest responsible bidder. Each vendor will indicate a "per item" unit price in the appropriate blank in the text of the requisition. Award will be made by adding together all unit item costs for a total bid.
- 1.7 Vendors are hereby notified that this contract may be subject to the Alabama Gross Receipts Tax.

2.0 WORK SCOPE

- 2.1 All work shall be done in compliance with applicable sections of the Alabama Department of Transportation Standard Specifications for Highway Construction, 2008 Edition, Alabama Department of Transportation Standard Drawings, and the MUTCD. The materials used shall be chosen from the **Materials, Sources, and Devices with Special Acceptance Requirements Manual**. The traffic control scheme shall be submitted to the Division Traffic Engineer for his/her review seven (7) days prior to starting initial work.
- 2.2 The quantity stated in this solicitation is an estimate only for comparative purposes and in no way obligates the department to any specific quantity of purchases. Actual maintenance requirements may be less than or greater than the estimated quantity as shown for each item. All quantities and dimensions are estimated and should be field verified by the contractor.
- 2.3 The contractor will be responsible for all traffic measures. Attention is drawn to the fact that this work will be performed under traffic conditions requiring special care to expedite the work and prevent undue hazardous conditions. The contractor will be responsible for assuring that all traffic control devices meet the Manual for Uniform Traffic Control Devices and that they placed on the roadway in compliance with

Part 6 of the same manual. The contractor will be responsible for insuring that all employees wear appropriate safety apparel in accordance with the latest edition of the MUTCD and in accordance with the standards of ANSI 107-1999 Class 2.

2.4 Effective period will be date of award through September 30, 2010.

3.0 PERFORMANCE REQUIREMENTS

3.1 Bid price shall include all materials, hardware, supplies, tools, equipment, labor, transportation and other necessary incidentals required for the completion of the work in an approved and satisfactory manner.

3.2 If required, on-site storage of job materials and/or equipment is to be coordinated with the District Engineer prior to the beginning of work. The security of any material and/or equipment left on-site will be the responsibility of the contractor.

3.3 The performance of any work under these specifications will not be deemed complete until the contractor has satisfactorily removed all debris and cleaned up the work site. At no time during the performance of work will materials, debris or trash be allowed to accumulate in such a manner as to endanger the safe performance of the work or the safety of the traveling public.

3.4 The work is to consist of color video inspection of roadway edge drains and roadway pipes and the lining of this pipes if required.

3.4.1 Upon the Division Maintenance Engineer's request, the contractor shall inspect by means of a video camera any roadway edge drains or roadway pipes in Colbert, Lauderdale, Franklin, Lawrence, Marion and Winston Counties on any state route. The Division Maintenance Engineer will have the pipes cleaned prior to the contractor's arrival at the site. The contractor shall deliver a report detailing the condition of the pipes and a copy of the inspection on DVD or the latest media format to the Division Maintenance Engineer.

3.4.2 Upon review of the inspection video, the Division Maintenance Engineer may request the lining of edge drain laterals and roadway pipes as needed in the counties previously indicated. Not all pipes inspected will necessarily be lined. Note that edge drain laterals and roadway pipes may be constructed of but are not limited to PVC, corrugated plastic, corrugated metal, bituminous coated corrugated metal, terracotta or reinforced concrete.

3.5 The method of lining the pipes shall be as follows:

3.5.1 For pipes from 4 to 30 inches in diameter, the cured in place pipe (CIPP) liner shall be a continuously Extruded, folded Polyvinyl Chloride (PVC) Fold-and-Form pipe liner and the blow-molding or thermoforming of the pipe liner shall fold the liner into the shape of the existing pipe. The liner shall be "Ultraliner" or equivalent product.

3.5.2 For pipes from 36 to 54 inches in diameter the grouted in place pipe (GIPP) liner shall be a High Density Polyethylene (HDPE) sheeting with studs or other texturing to provide a consistent void between the sheeting and the inside wall of the existing pipe. The sheeting shall be made continuous by an overlap welding process. The lining shall be adhered to the walls of the existing pipe by injecting epoxy grout into the voids formed by the studs on the sheets. The liner shall be a "Trolining" or equivalent product.

3.5.3 Upon completion of the installation, the liners shall:

3.5.3.1 Extend continuously from the inlet to the outlet of each pipe section. The inlet or outlet can be a manhole, junction box, grated inlet, headwall or projecting pipe.

3.5.3.2 Provide a tightly conforming fit against the inner wall of the host pipe.

3.5.3.3 Provide for complete structural integrity independent of the load carrying capacity of the host pipe.

4.0 PAYMENT

- 4.1 Unit of payment for video inspection and pipe lining shall be per linear foot for each pipe size. The invoice must itemize materials and services rendered and it is to be submitted for each move in as directed by the Division Maintenance Engineer. The contractor will be paid for the total number of linear feet of video inspection and pipe lining as requested by the Division Engineer.
- 4.2 Payment in accordance with unit prices as bid will be payment in full for all labor, fuel, equipment, materials, traffic control, incidentals and other items of work.
- 4.3 The bid shall be a separate unit price for the video inspection and lining per linear foot of each pipe size listed. The pipes to be inspected and possibly lined are described as follows:

VIDEO INSPECTION

NO.	DIAMETER (Inches)	DESCRIPTION	ESTIMATED (LF)
1	4	Edge Drain Lateral	100
2	15	Roadway Pipe	100
3	18	Roadway Pipe	100
4	24	Roadway Pipe	100
5	30	Roadway Pipe	100
6	36	Roadway Pipe	100
7	42	Roadway Pipe	100
8	48	Roadway Pipe	100

LINING

NO.	DIAMETER (Inches)	DESCRIPTION	ESTIMATED (LF)
1	15	Roadway Pipe	100
2	18	Roadway Pipe	150
3	24	Roadway Pipe	150
4	30	Roadway Pipe	100
5	36	Roadway Pipe	150
6	42	Roadway Pipe	100
7	48	Roadway Pipe	150

The bid prices shall be effective through 9/30/10.