Memo

To: David Twiggs, COO/General Manager
From: Bill Staggs, PE, Director of Public Works
Linda Mayhood, Assistant General Manager

Date: November 16, 2016
Re: Motion – Approve Culvert Rehabilitation Project

---

Motion
I move to approve the Culvert Rehabilitation Project for 10 culverts to be completed by Ace Pipe Cleaning of Kansas City, Missouri in the amount of $245,000 as presented.

Background
The Public Works Department is requesting approval of a bid for rehabilitation of several corrugated metal drainage culverts along DeSoto Blvd. in Hot Springs Village. The project consists of pumping concrete into the voids below the culverts resulting from corrosion of the bottom of the pipes, followed by application of high strength centrifically-cast concrete mortar at a depth of one inch on the inside of the culvert for sealing and reinforcing. This process requires no excavation and minimal interference to traffic. The hydraulic capacity of the culverts will be improved as a result of having a smoother wall surface.

Work is anticipated to be performed and completed by the end of December, 2016. This item is included in the approved FY 2016 budget as part of the Road Maintenance Program with a planned budget of $250,000 for culverts.

Price quotes were received from two companies that perform this method of culvert rehabilitation and noted in the following unit prices:

<table>
<thead>
<tr>
<th>VENDOR</th>
<th>48” Pipe Rehab (160 ft)</th>
<th>42” Pipe Rehab (640 ft)</th>
<th>Mobilization</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ace Pipe Cleaning, Inc. –</td>
<td>$320.00 per lin. ft.</td>
<td>$295.00 per lin. ft.</td>
<td>$5,000</td>
<td>$245,000</td>
</tr>
<tr>
<td>Kansas City, MO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPR South Central – Houston, TX</td>
<td>$330.00 per lin. ft.</td>
<td>$310.00 per lin. ft.</td>
<td>$20,000</td>
<td>$271,200</td>
</tr>
</tbody>
</table>

The scope of the project includes 160 linear feet of 48-inch pipe and 640 linear feet of 42-inch pipe for a total of $245,000, including mobilization, based upon the linear feet of pipe installed at the prices provided by Ace Pipe Cleaning.
This project includes rehabilitation of 10 culverts at the following locations:

Three 42” culverts on DeSoto Blvd. at log mile 10.16
Three 42” culverts on DeSoto Blvd. at log mile 10.20
Two 48” culverts on DeSoto Blvd. at log mile 10.63
Two 42” culverts on DeSoto Blvd. at log mile 11.33

Grand Total for Rehabilitation Project: $245,000.00

2016 Approved Budget Remaining: $250,000.00