MAINTENANCE PLANNING GUID	ELINES 2006
ACTIVITY: Pipe Culvert Repairs (R319) MAJOR & MINOR DEFINITION: The time and expenses incurred Includes time and expenses incurred for installi PURPOSE: To install new pipe liners in existin	ng a new lining in an existing culvert.
SCHEDULING: As needed.	J       F       M       A       M       J       J       A       S       O       N       D         A       E       A       P       A       U       U       U       E       C       O       E         N       B       R       R       Y       N       L       G       P       T       V       C
<ul> <li>RECOMMENDED EQUIPMENT: <ul> <li>Trucks</li> <li>Backhoe</li> <li>Loader</li> <li>Mudjack or Concrete Mixer</li> <li>Traffic Control Equipment; reference the (See EPG 616.23 Traffic Control for Field Operations)</li> </ul> </li> <li>RECOMMENDED MATERIAL: <ul> <li>Pipe Liner</li> <li>Slurry Mix</li> <li>Portland Cement</li> <li>Agricultural Lime</li> <li>Water</li> </ul> </li> </ul>	<ul> <li>RECOMMENDED PROCEDURE: <ol> <li>Consult district Design on size and placement of pipe liner.</li> <li>Call Dig Rite and MoDOT to check for utilities.</li> <li>Place traffic control devices as needed.</li> <li>Clean out ditch, if necessary, to make room fo liner.</li> <li>Insert liner.</li> <li>Form upstream and downstream ends and mudjack between liner and existing pipe.</li> <li>Grade and reshape shoulder, as necessary.</li> <li>Seed and mulch, as necessary</li> <li>Clean work area.</li> <li>Remove traffic control devices.</li> </ol> </li> </ul>
Wear all appropriate PPE. Refer to the Safety I	6 (1-800-DIG-RITE). Watch out for "pinch points." Policies, Rules & Regulations – Employee Handbook e size liner for application. Follow manufacture's ons for Highway Construction Section <b>735</b> .

## <u>R319 – Install Pipe Liners</u>



(1) Rusted Out Pipe Invert



(2) Pipe Liner Installation



(3) Pipe Liner Installation



(4) Pipe Liner Installation



(5) Pipe Liner Installation



(6) Pipe Liner Installation



(7) Pipe Liner Installation



(9) Pipe Liner Installation



(8) Pipe Liner Installation



(10) Grouting Pipe Liner to Culvert End



(11) Grouted Pipe Liner



(12) Finished Product