## MAINTENANCE PLANNING GUIDELINES

2006

**ACTIVITY:** Pipe Culvert Repairs (R319)

**ACTION:** Clean & Repair Pipe & Box Culverts

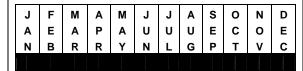
A. Pipe Culverts

## **MAJOR & MINOR**

**DEFINITION:** The time and expenses incurred from removing and replacing pipe culverts. Includes time and expenses incurred for installing a new lining in an existing culvert.

**PURPOSE:** To clean, align, and repair pipe culverts and related structures.

**SCHEDULING:** As needed.



# **RECOMMENDED EQUIPMENT:**

- Trucks
- Water Tank w/Trash Pump
- Concrete Mixer
- Jack
- Loader
- Skid Steer Loader
- Chainsaws
- Tube Flusher
- Traffic Control Equipment, Reference (See EPG 616.23 Traffic Control for Field Operations)

#### **RECOMMENDED MATERIAL:**

- Concrete
- Plastic Joint Compound
- Form Material
- Water
- Curing Compound

# **RECOMMENDED PROCEDURE:**

- 1. Call Dig Rite and MoDOT to check for utilities.
- 2. Place traffic control devices as needed.
- 3. Fill open joints with joint compound
- 4. If headwall, flared end section, or pipe end section is settled, align section with jack or loader and compact material under section for support.
- 5. If ends of corrugated metal pipe are bent and restricted, open with jack.
- 6. Clean excess compound and debris from work area.
- 7. Remove traffic control devices.

**SAFETY:** Call before you dig to locate utilities (1-800-DIG-RITE). Watch those "pinch points." Wear all appropriate PPE. Refer to the Safety Policies, Rules & Regulations – Employee Handbook..

**OTHER CONSIDERATIONS:** Check if Corps of Engineers permit is needed.