MAINTENANCE PLANNING GU	IDELINES 2006
ACTIVITY: Pipe Culvert Repairs (R319) MAJOR & MINOR DEFINITION: The time and expenses incurr	ACTION: Replace Pipe & Box Culverts (LF) ed from removing and replacing pipe culverts.
Includes time and expenses incurred for insta PURPOSE: To replace deteriorated pipe and entrance to settle. SCHEDULING: As needed.	Illing a new lining in an existing culvert. d box culverts, which have caused the roadway or 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
 RECOMMENDED EQUIPMENT: Trucks Backhoe, Excavator, Loader, or Motorgrader Mechanical Compactor Dragline Crane Breaker Trenching Protective System/ Sheeting Traffic Control Equipment, (See EPG 616.23 Traffic Control for Field Operations) RECOMMENDED MATERIAL: Pipe & Accessories Joint Compound Roadway Surface Material Precast Box Culvert Backfill Material 	 RECOMMENDED PROCEDURE: Call Dig Rite and MoDOT to check for utilities. Develop trenching safety plan with competent person and supervisor. Place traffic control devices as needed. Remove existing pipe or box. Install protective system in trench, if necessary. Prepare subgrade. Place new pipe or box and seal joints. Remove protective system. Compact material in lifts around and over pipe or box. Place and compact surfacing material. Clean work area. Remove traffic control devices.
Watch for sharp edges and "pinch points." Management On Line Manual Section 2.4. Employee Handbook.	ies (1-800-DIG-RITE). Hard hats are required. Wear all appropriate PPE. Refer to Risk Refer to the Safety Policies, Rules & Regulations – Iway is to be closed, local news media, schools,

OTHER CONSIDERATIONS: If entire roadway is to be closed, local news media, schools, emergency services, and law enforcement agencies should be informed in advance.

REFERENCES: Missouri Standard Specifications for Highway Construction Sections 725, 726, 733.

(1) Sawcut Pavement for Culvert Replacement



(2) Open Trench for Culvert Replacement



(3) Setting Grade for Culvert Bedding



(4) Fine Grading Culvert Bed



(5) Laying Culvert Pipe



(6) Installing Pipe Connecting Band

<u>R319 – Replace Pipe & Box Culverts</u>



(7) Backfilling around Culvert Pipe



(8) Spreading and Compacting Pipe Fill



(9) Laying Hot Mix Asphalt



(10) Finished Product