## MAINTENANCE PLANNING GUIDELINES

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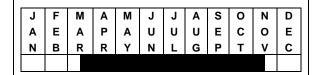
ACTIVITY: Patching Roads (R311)
MAJOR & MINOR

**ACTION:** Pothole Patching (Permanent partial depth repair on asphaltic or concrete pavements)

**DEFINITION**: The time and expenses incurred for permanent repairs of potholes by hand or machine.

**PURPOSE:** To restore the safety, rideability, appearance and durability through the repair of roadway or bridge surfaces.

**SCHEDULING:** Repairs should be made as soon as priorities allow. Major Routes will take priority over Minor Routes. Reference the Incident Response Plan for priorities.



## **RECOMMENDED EQUIPMENT:**

- Dump Trucks or Thermolay Truck
- Air Compressor w/Jack Hammers or Roto-mill
- Pavement Saw
- Compaction device; Vibratory Compactor or Small Power Roller
- Asphalt Distributor
- Traffic Control Equipment
   Reference the (See EPG 616.23

   Traffic Control for Field Operations)

## **RECOMMENDED MATERIAL:**

- Priming Material
- Hot Mix
- Pre Mix
- Concrete

## **RECOMMENDED PROCEDURE:**

- 1. Place traffic control devices as required. Review guidance for use of "Fresh Oil" and "Loose Gravel" signs EPG 616.23.2.7.6 and "No Center Line" signs and pavement marking, EPG 616.23.2.5.7.
- 2. Square up area.
- 3. Remove fractured/temporary material.
- 4. Prime with appropriate material.
- 5. Fill hole with material and compact in 2 inch layers. (Asphalt)
- 6. Level patch with rake to ½ inch above pavement surface. (Asphalt)
- 7. Finish patch to existing surface. (Concrete)
- 8. Seal edges.
- 9. Remove traffic control devices.

**SAFETY:** Follow the *Comprehensive Safety Program sharepoint portal*. Wear all appropriate PPE. Refer to the Risk Based Assessment for additional information.

**OTHER CONSIDERATIONS:** Recommend the use of Skid-steer w/milling attachment for removal of area. Recommend the use of air compressor to blow out and clean repair just prior to placing material.

**REFERENCES:** Missouri Standard Specifications for Highway Construction Section <u>613.20</u> and <u>613.30</u> for permanent repairs.