

MAINTENANCE PLANNING GUIDELINES

01/2014

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.

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:

- 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 [613.20](#) and [613.30](#) for permanent repairs.