

**MAINTENANCE PLANNING GUIDELINES**

01/2014

**ACTIVITY:** Roadway Shoulders  
(R225)  
**MAJOR & MINOR**

**ACTION:** Blade Patching

**DEFINITION:** The time and expenses incurred to expand installation and maintenance of asphalt concrete and aggregate roadway shoulder, approaches and clear zones.

**PURPOSE:** To restore shoulder shape, stability, and appearance of large surface failures by blade or machine.

**SCHEDULING:** As needed when pavement surfaces are 50°F or above. 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:**

- Motor Grader or Pull Paver
- Asphalt Distributor
- Roller
- Dump Trucks
- Broom
- Traffic Control Equipment;  
(See EPG [616.23 Traffic Control for Field Operations](#))

**RECOMMENDED MATERIAL:**

- Liquid Asphalt – Tack Grades, and Fly Coating Asphalt
- Cold Mix
- Hot Mix
- Blotting Material

**RECOMMENDED PROCEDURE:**

1. Contact Dig Rite and others to mark utilities.
2. Place traffic control devices as needed. Review guidance for use of “Fresh Oil” and “Loose Gravel” signs [EPG 616.23.2.7.6](#) and pavement marking [EPG 616.23.2.5.7](#).
3. Broom area, if needed.
4. Tack area.
5. Spread material on tacked area.
6. Roll patch.
7. If using hot mix, allow mix to cool before turning over to traffic.
8. Blot intersections and approaches as necessary
9. Fly coat patches as necessary
10. Maintain Rumble Strip in accordance with [EPG 626](#).
11. Remove traffic control devices.

**SAFETY:** Flagger should warn motorists of fresh tack, fresh asphalt mix, moving equipment, windrow of materials, and where to drive. Care should be taken to remove excess asphaltic material. Refer to the [Comprehensive Safety Program sharepoint portal](#). Wear all appropriate PPE. Refer to the [Risk Based Assessment](#) for additional information.

**OTHER CONSIDERATIONS:** Care should be taken to maintain proper drainage.

**REFERENCES:** Missouri Standard Specifications for Highway Construction; Sections [401](#), [1004](#), [1015](#).