

MAINTENANCE PLANNING GUIDELINES												01/2014																																																	
ACTIVITY: Asphalt Pavement Repair (R312) MAJOR						ACTION: Box & Lay Down Machine Patching (TN)																																																							
DEFINITION -- The time and expenses incurred for continuous surface treatment with hot mix bituminous material furnished by MoDOT or contractor. Includes all costs for hauling material and laying material. Includes maintenance leveling course operations with contractor furnished hot mix delivered to the roadway. Includes all costs for receiving material on the roadway and laying it. This includes costs for tacking, box laying and compacting of surface patches. Includes wedging at bridge ends.																																																													
PURPOSE: To correct large surface failures and settlements by machine repair.																																																													
SCHEDULING: As needed when temperature is warm. Repairs should be made as priorities allow. Major Routes will take priority over Minor Routes. Reference the Incident Response Plan for Priorities.										<table><tr><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td></tr><tr><td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>E</td><td>C</td><td>O</td><td>E</td></tr><tr><td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td><td>T</td><td>V</td><td>C</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				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												
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RECOMMENDED EQUIPMENT: <ul style="list-style-type: none">• Pull Paver or Self Propelled Paver• Roto-Mill• Rumble Strip Mill (if needed)• Sweeper• Asphalt Distributor• Roller• Dump Trucks• Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations)						RECOMMENDED PROCEDURE: <ol style="list-style-type: none">1. Contact Dig Rite to locate utilities if needed.2. 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 616.23.2.5.7.3. Mill out transitions and failed area (minimum of 2”).4. Clean thoroughly.5. Shoot tack in area to be patched.6. Place material on tacked area.7. Roll patch.8. Allow hot mix to cool before opening to traffic.9. Maintain Rumble Strip in accordance with EPG 626.10. Remove traffic control devices.																																																							
RECOMMENDED MATERIAL: <ul style="list-style-type: none">• Liquid Asphalt (tacking grade)• Hot Mix Asphalt																																																													
SAFETY: Flaggers should warn motorists of fresh tack, fresh asphalt mix, moving equipment and correct lane to drive in ahead. Refer to the Comprehensive Safety Program sharepoint portal . Wear all appropriate PPE. Refer to the Risk Based Assessment for additional information.																																																													
OTHER CONSIDERATIONS: Tacking edges of milled area, or sealing the cold joint after patch has been rolled is helpful to ensuring longevity of patch. Subgrade failure may require base reconstruction.																																																													
REFERENCES: Missouri Standard Specifications for Highway Construction Section 401 (or equivalent), 1002, 1015.																																																													