

MAINTENANCE PLANNING GUIDELINES												01/2014																																																	
<b>ACTIVITY:</b> Roadway & Bridge Safety Features (R227)						<b>ACTION:</b> Guardrails																																																							
<b>MAJOR &amp; MINOR</b>																																																													
<b>DEFINITION:</b> The time and expenses incurred for installing and maintaining guardrails and end treatments along the roadway.																																																													
<b>PURPOSE:</b> The maintenance of guardrail, and other similar restraining devices.																																																													
<b>SCHEDULING:</b> Priorities as follows for repairs: <div><div>1. Devices located in medians or protecting fixed objects.</div><div>2. Located outside of, but adjacent to travel lanes.</div><div>3. Primary function for access control.</div><div>4. Primary function related to appearance only.</div></div>						<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 colspan="12"></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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<b>RECOMMENDED EQUIPMENT:</b> <div><div>• Truck</div><div>• Trailer</div><div>• Boom Truck</div><div>• Auger Truck</div><div>• Pulling Jack</div><div>• Cutting Torch</div><div>• Protective Truck</div><div>• Traffic Control Equipment; (See <a href="#">EPG 616.23 Traffic Control for Field Operations</a>)</div></div>						<b>RECOMMENDED PROCEDURE:</b> <div><div>1. Contact Dig Rite and others to mark utilities.</div><div>2. Place traffic control devices as needed.</div><div>3. Remove damaged sections.</div><div>4. Pull stringline for alignment and drive steel rods at post locations to control post spacing. Vertical alignment may be improved by looping string around top of rods for adjustment.</div><div>5. Drive new posts and attach rail or cable.</div><div>6. Clean up work area.</div><div>7. Remove traffic control devices.</div></div>																																																							
<b>RECOMMENDED MATERIAL:</b> <div><div>• Guardrail Posts</div><div>• Panels &amp; Hardware</div><div>• Posts &amp; Hardware</div><div>• Proper End Treatment</div></div>																																																													
<b>SAFETY:</b> Use extreme care when dismantling damaged guardrail because sections may be under stress causing unexpected actions. Refer to the <a href="#">Comprehensive Safety Program sharepoint portal</a> . Wear all appropriate PPE. Refer to the <a href="#">Risk Based Assessment</a> for additional information.																																																													
<b>OTHER CONSIDERATIONS:</b> Install proper crashworthy end treatments based on current standards.																																																													
<b>REFERENCES:</b> <a href="#">Missouri Standard Specifications for Highway Construction</a> ; Section 606																																																													