MAINTENANCE PLANNING GUIDE	LINES 2/2014
ACTIVITY: Bridge Deck Repair (R323) MAJOR & MINOR	ACTION: Deck Repair (SY) A. Concrete
<b>DEFINITION:</b> The time and expenses incurred the repair or replacement of timber decks.	for permanent repairs to bridge deck, including
<b>PURPOSE:</b> Replacement of deteriorated concreated prevent further damage to the structure.	ete with accelerated mortar to restore rideability
<b>SCHEDULING:</b> Repair as needed when conditi permit.	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
<ul> <li>RECOMMENDED EQUIPMENT: <ul> <li>Air Compressor</li> <li>Dump Truck</li> <li>Flatbed or Van</li> <li>Water Tank</li> <li>Concrete Saw</li> <li>Concrete Mixer or Mobile Mix Truck</li> <li>Concrete Vibrator w/Generator</li> <li>Traffic Control Equipment; reference the (See EPG 616.23 Traffic Control for Field Operations)</li> </ul> </li> <li>RECOMMENDED MATERIAL: <ul> <li>Accelerated Concrete Mix Ingredients</li> <li>Water</li> <li>Bituminous Crack Sealer</li> <li>Sand</li> </ul> </li> </ul>	<ol> <li>RECOMMENDED PROCEDURE:         <ol> <li>Place traffic control devices as needed.</li> <li>Mark limits of patch areas by visual methods and by sounding.</li> <li>Saw all patch edges to minimum depth of 1-in or to top reinforcing steel if it is less than 1-in. deep.</li> <li>Remove concrete to below the top reinforcing steel grid as a minimum. Remove all broken concrete. Do not jackhammer against the reinforcing steel.</li> <li>Using oil-less compressed air, blow fines from patch area.</li> <li>Mix and place accelerated concrete using manufacturer's recommendations.</li> <li>Vibrate and strike-off with straight-edge. Minimize troweling.</li> <li>Hand broom patch for surface texturing.</li> <li>Pour edge joints and other cracks in work zone while material is curing.</li> <li>Make sure concrete patch is cured before opening to traffic.</li> <li>Remove traffic control devices.</li> </ol> </li> </ol>
travel lanes and waterways beneath the structure	

span per day on reinforced concrete superstructures. If more than 100 sq. ft. per span is necessary, the additional repairs must be done on another day.

**REFERENCES:** <u>Missouri Standard Specifications for Highway Construction</u> Sections 216.50, 216.60, 704.