MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Roadway & Bridge Safety Features (R227)

MAJOR & MINOR

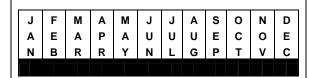
ACTION: Traffic Barriers (Concrete)

B. Repair

DEFINITION: The time and expenses incurred for installing and maintaining fences along the roadway, guardrails and end treatments, guard cable, impact attenuator devices for roadside obstacles; and all cost to maintain concrete traffic barriers, sidewalks and bicycle paths and raised pavement markers.

PURPOSE: The repair of cast-in-place concrete traffic barrier.

SCHEDULING: Minor damaged areas may be scheduled in groups. Extensively damaged sections should be repaired the first normal working day with temperatures above 40°F.



RECOMMENDED EQUIPMENT:

- Boom Truck and/or Loader
- Dump Truck
- Air Compressor/Drill
- Concrete Mobile
- Concrete Mixer
- Concrete Saw
- Chop Saw
- Cutting Torch
- Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations)

RECOMMENDED MATERIAL:

- Paraffin Oil (paraffin base)
- Bonding Compound
- Cement, Sand, Rock, Water
- Curing Compound
- Concrete Accelerator
- Ready-Mix Concrete

RECOMMENDED PROCEDURE:

- 1. Place traffic control devices as needed.
- 2. Clean broken concrete surface or use concrete saw to square up the broken area.
- 3. Replace damaged rebar.
- 4. Oil and set forms.
- 5. Apply bonding compound to existing surface of old concrete.
- 6. Mix and place 7 sack mix of concrete (DO NOT USE DURACAL).
- 7. Finish and apply curing compound.
- 8. Clean work area.
- 9. Remove traffic control devices.
- 10. Remove forms after 4 days or when desired strength is reached.

SAFETY: Watch for traffic in adjacent lanes. Wear all appropriate PPE. Refer to Safety Policies, Rules & Regulations-Employee Handbook.

OTHER CONSIDERATIONS: Replace any damaged or missing traffic control devices.

REFERENCES: Missouri Standard Specifications for Highway Construction; Section 617