MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Roadway & Bridge

Safety Features (R227)

ACTION: Guardrails

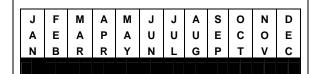
MAJOR & MINOR

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 maintenance of guardrail, guard cable, and other similar restraining devices.

SCHEDULING: Priorities as follows for repairs:

- 1. Devices located in medians or protecting fixed objects.
- 2. Located outside of, but adjacent to travel lanes.
- 3. Primary function for access control.
- 4. Primary function related to appearance only.



RECOMMENDED EQUIPMENT:

- Truck
- Trailer
- Boom Truck
- Auger Truck
- Pulling Jack
- Cutting Torch
- Protective Truck
- Traffic Control Equipment;
 (See EPG 616.23 Traffic Control for Field Operations)

RECOMMENDED MATERIAL:

- Guardrail Posts
- Panels & Hardware
- Guardcable
- Posts & Hardware
- Proper End Treatment

RECOMMENDED PROCEDURE:

- 1. Place traffic control devices as needed.
- 2. Remove damaged sections.
- 3. 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.
- 4. Drive new posts and attach rail or cable.
- 5. Clean up work area.
- 6. Remove traffic control devices.

SAFETY: Use extreme care when dismantling damaged guardrail because sections may be under stress causing unexpected actions. Wear all appropriate PPE. Refer to *Safety Policies*, *Rules & Regulations-Employee Handbook*.

OTHER CONSIDERATIONS: Install proper crashworthy end treatments based on current standards.

REFERENCES: Missouri Standard Specifications for Highway Construction; Section 606