

MAINTENANCE PLANNING GUIDELINES

2/2014

ACTIVITY: Pipe Culvert Repairs (R319)

ACTION: Clean & Repair Box Culverts

MAJOR & MINOR

DEFINITION: The time and expenses incurred from removing and replacing pipe culverts. Includes time and expenses incurred for installing a new lining in an existing culvert and cleaning and repairing culverts.

PURPOSE: To clean, repair, and fill voids of box culverts and restore roadway drainage.

SCHEDULING: As needed.

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

RECOMMENDED EQUIPMENT:

- Trucks
- Loader, Backhoe, or Excavator
- Concrete Mixer
- Compressor/Breakers
- Water Tank w/Trash Pump
- Traffic Control Equipment, Reference (See EPG [616.23 Traffic Control for Field Operations](#)).

RECOMMENDED PROCEDURE:

1. Contact Dig Rite and others to mark utilities
2. Place traffic control devices as needed.

CLEAN OUT

1. Remove drift and debris as needed.

REPAIR

1. Remove bad concrete, form, and pour concrete.

FILL VOIDS

1. Fill large voids and eroded outlet areas with quarry run rock and if needed grout with concrete.
2. Internal voids along the barrel sides and bottom should be mudjacked.
3. Remove traffic control devices.

RECOMMENDED MATERIAL:

- Concrete
- Water
- Quarry Run Rock
- Form Material
- Cement
- Agricultural Lime

SAFETY: Refer to the [Comprehensive Safety Program sharepoint portal](#). Wear all appropriate PPE. Refer to the [Risk Based Assessment](#) for additional information

OTHER CONSIDERATIONS: Check if Corps of Engineers permit is needed.

REFERENCES: N/A