State of Michigan Laws, Rules and Programs that relate to the Rehabilitation of Sanitary Sewer Collection System

By

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Laws, Rules and Programs

- Part 41, Sewerage Systems, of the Natural Resources and Environmental Protection Act, 1194 PA 451 as amended (NREPA)

- State Revolving Fund (SRF)
R 299.2933

Rule 33. (1) Before the construction or alteration of a sewerage system or portions thereof, plans and specifications therefore shall be submitted to the department for review and issuance of a construction permit.
R 299.2931

(a) "Alteration" means the construction of any modification or addition to an existing sewerage system which changes the process or system capacity.
Sewer Rehabilitation Methods

1. General Sewer Maintenance
2. Cured-in-Place Liner
3. Slip Lining
4. Pipe Bursting
5. Manhole Rehabilitation
6. Open Cut Replacing Same Size but Different Material
General Sewer Maintenance Activities

1. Flushing and Jetting
2. Televising
3. Grouting
4. Smoke testing
5. Manhole inspection
6. Open cut sewer repair replacing a pipe section or two

Part 41 Permit Is NOT required
Cured-In-Place Pipe

- Consist of lining the inside of a pipe with an epoxy resin
Cured-In-Place Pipe (Cont)

- The change in the pipe diameter of the existing pipe is usually less than 5% of the existing pipe diameter size, and

- does not significantly reduce the hydraulic capacity of the sewer pipe.
A Part 41 permit **may be** required - contact the local district office of the DEQ for determining if a Part 41 permit is necessary.
An appropriately sized liner pipe is inserted into an existing pipe.
Slip Lining (Cont)

- The change in the Pipe Diameter is usually greater than 5% of the existing pipe diameter size.

- The change in pipe diameter will significantly decrease the hydraulic capacity of the collection sewer for that run.
Slip Lining (Cont)

A Part 41 permit will be required due to the change in the hydraulic capacity of the sewer.
Pipe Bursting

Insertion of a conically shaped tool fracturing the old pipe and pushing its fragments into the surrounding soil.
Pipe Bursting (Cont)

At the same time, a new pipe is either pulled or pushed in the annulus left by the expanding operation.
Pipe Bursting (Cont)

Typically, the Pipe inserted is of larger diameter than the existing sewer pipe, which will alter the hydraulic capacity of the sewer.

A Part 41 permit is required, due to the change in the hydraulic capacity of the sewer.
Manhole Rehabilitation

- Chimney repair
- Sealing cracks and joints
- Replacing covers
- Repairing sewer channel
Manhole Rehabilitation (Cont)

- A Part 41 permit is not required.

- The Manhole rehabilitation does not altering the hydraulic capacity of the sewer.
Open Cut Sewer Replacement

A Part 41 permit is NOT required **IF**:

1. The new sewer pipe is the same diameter as the existing pipe different material may be used, and

2. Only a few pipe sections are being replaced and not the whole sewer run.
State Revolving Fund (SRF)

As stated in the SRF Design Phase Guidance Manual:

- To obtain an SRF loan for a project involving the construction or alteration of a wastewater transport or treatment facility, the municipality must obtain a construction permit issued under the provisions of Part 41 of the NREPA.
State Revolving Fund (SRF)

Steps in the SRF Funding process which do not require a Part 41 Permit for rehabilitation of sewer

1. Inflow and Infiltration Analysis

2. Sanitary Sewer Evaluation Study (SSES)
State Revolving Fund (SRF) (Cont)

Inflow and Infiltration Analysis

1. Inspection of Sewers and Manholes

2. Smoke Testing

3. Flow Monitoring
State Revolving Fund (SRF) (Cont)

Sanitary Sewer Evaluation Study (SSES)

1. Manhole Inspection
2. Smoke Testing
3. Flow Modeling
4. Televising
In the SRF Funding process a Part 41 permit application is required to be submitted when the Final Plans and Specifications are submitted.
<table>
<thead>
<tr>
<th>Sewer Maintenance Activity Needed?</th>
<th>Part 41 Permit</th>
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</thead>
<tbody>
<tr>
<td>General Sewer Maintenance</td>
<td>NO</td>
</tr>
<tr>
<td>Cured-in-Place Liner</td>
<td>YES/NO</td>
</tr>
<tr>
<td>Slip Lining</td>
<td>YES</td>
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<td>Pipe Bursting</td>
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</table>
Always contact your local DEQ district office to inquire if a Part 41 permit is required for your rehabilitation activity.
Questions ???