

Activity 182 Sinks and Settlements

Description

Activity 182 involves repairing, repaving, or patching roadways that have sunk or settled. The work may include:

- Controlling traffic as needed, including traffic control at the site or directing traffic to alternate routes or on detour routes
- Placing embankment, normally rock or other granular material, if needed
- Installing additional drainage features, if needed
- Placing aggregate base material, if needed
- Placing asphalt concrete or other surfacing to repair or restore the roadway surface
- Repairing damaged guardrail, barrier, drainage, signs, or other roadside features

General Instructions

This activity results from movement or failure of the roadway supporting structure, whereas Activity 181 results from material sliding or falling onto the roadway or facility.

Request assistance, as needed in analyzing causes of and methods for repairing sinks and settlements, from the District Manager and the Region Technical Center.

As appropriate, the District Manager should work with the Region Manager to include projects, to stabilize sink and settlement areas, in the ODOT Statewide Transportation Improvement Plan.

The District Manager should notify the Transportation Operations Center with information about the situation to post on the TripCheck website when the situation impacts traffic.

When traffic will be impacted for 4 hours or more the District Manager should also notify:

- The Region Public Affairs representative and request assistance in notifying the media and other affected highway users.
- The Motor Carrier Transportation Division about any situations that restrict movement of trucks or oversize vehicles.
- The Region Manager and the State Maintenance Engineer.

Some repairs of damage from sinks or settlements require resources or expertise not available with maintenance forces. If the situation warrants it, the State Maintenance Engineer, under ODOT *Sub-Delegation Order SUB-11*, may declare an emergency for the situation. With such declaration of emergency, ODOT may use contract methods to accomplish the needed repairs without calling for formal bids. Seek assistance from the Purchasing and Contract Management Section of the ODOT Support Services Branch as needed.

Also refer to the Purchase and Acquisition of Goods and Services section of this Guide.

Controlling Erosion, Sedimentation, and Pollutants or Contaminants

Plan and implement methods to control erosion, sedimentation, and pollutants or contaminants, including those discussed in the Control of Erosion, Sedimentation, and Pollutants or Contaminants section of this Guide and the *ODOT Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices*.

If an event has damaged a highway and immediate repairs are needed to restore the roadway or to prevent further damage, follow the instructions in the Guidance for Emergency Highway Repairs located in the *ODOT Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices* and *ODOT Emergency/Urgency Maintenance Best Management Practices User's Guide*.

As appropriate, implement and maintain devices and processes including those described in the *Field Manual for Erosion and Sediment Control*.

Temporary Protection and Direction of Traffic

Plan, implement, and maintain traffic control as addressed in the *Traffic Control on State Highways for Short Term Work Zones* handbook.

Equipment

Select equipment that is suited for the work, material, and situation.

Materials

Select materials needed for the work and conditions. Materials may include:

- Granular or rock embankment material
- Aggregate base material
- Liquid asphalt cement for tack
- Asphalt concrete or other replacement surfacing material
- Replacement guardrail, barrier, drainage, sign, or other material

Work Method

1. Implement appropriate traffic control, including detour routes if appropriate.
2. Implement appropriate methods to control erosion and sedimentation, including those that may be modified by the Guidance for Emergency Highway Repairs discussed above.
3. Perform needed work. As appropriate, seek guidance and advice from the Region Technical Center. Refer to discussion in other activities for further information on work methods.
4. Remove traffic control.
5. Dispose of excess or waste material in an appropriate location.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is number of worker hours involved. Expenditure account type is Highway EA.

- Charge all work to TEAMS Activity 182 except for the following:
 - Charge TEAMS Activity 682 for sinks and settlements rock filled.