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LAND SURVEYING

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CURB INLET PROTECTION

"Pigs-in-a-Blanket"

CONSTRUCTION SPECIFICATIONS

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection should be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket" - 8" concrete blocks wrapped in filter fabric. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4" shall be left between the inlet filter and the inlet to allow overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition.

MAINTENANCE

Sediment shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap.

Sediment shall be removed from curb inlet protection immediately. Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately visible but unobstructive signs around the inlet.

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Diagram Labels:

- CURB
- CURB APRON (GUTTER)
- PAVEMENT
- RIDGE WIDTH = ____ FT. (MIN)
- RIDGE HEIGHT = ____ FT.
- FREEBOARD = ____ FT.
- ±3.1
- NORMAL GROUND LEVEL

where $S_{17.1}$ indicates the storm frequency required for the design of the diversion. The required storm frequency is based on the purpose of the diversion. A diversion may have a parabolic or trapezoidal cross-section. Detailed information for the design of these channels is provided in the Appendix.

Open channel. In all cases, the outlet must discharge in such a manner as to not cause an erosion problem. Protected outlets shall be constructed as follows:

- a. For compacted ridges of soil running diagonally across the road at a 30° angle. Ridges are constructed by excavating a channel up-stream for signal road surface. Channel bottoms and ridge tops shall be smooth enough to be crossed by vehicular traffic. The maximum spacing between ridges shall be 10 ft.

ROAD GRADE	DISTANCE BETWEEN
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CONDITIONS

This practice is applicable to areas subject to surface and/or movement of dirt where on- and off-site damage may occur without treatment.

METHODS AND MATERIALS

A. Temporary Methods

1. Mulches. See specification D-1, *Disturbed Area Stabilization (With Mulching Only)*. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification T-6, *Tackifiers*. Resins should be used according to manufacturer's recommendations.

2. Vegetative Cover. See specification D-2, *Disturbed Area Stabilization (With Temporary Seeding)*.

3. Adhesives. These are used on mineral soils (not effective on muck soils). See Traffic on these areas. Refer to specification T-6, *Tackifiers*.

4. Tills. This practice is designed to smother and bind droppings of birds. It is an emergency measure that should be used before erosion starts. Sprays, plasters and emulsions of lime, cement, lime-cement, or lime-soluble asphalt. Top spray, spot-banded tars, and similar mixes are examples of equipment that may produce the desired effect.

5. Calcium Chloride.

6. Gravel. This is generally done as an emergency treatment. Soil is sprinkled with water until the surface is wet. Repeat as needed. Barriers.

7. Sand, straw, rockwool, burlap, straw, coils, wire, bales of hay and similar material should be used to control air currents and splashing surfaces. Barriers placed at right angles to prevailing currents at intervals of about 15 metres their edges are effective in controlling wind erosion.

8. Calcium Chloride.

Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

1. Permanent Vegetation. See specification D-2, *Disturbed Area Stabilization (With Permanent Vegetation)*. Existing trees and burlap should be left until well before collection. Plant in bare

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