

# 6.06 TEMPORARY CONSTRUCTION ENTRANCE/EXIT

## **Definition**

An area or pad located at points where vehicles enter and leave a construction site typically surfaced with stone, riprap, coarse ground wood mulch, wooden logging mats, synthetic/composite products, or other ground stabilizing materials.

## **Purpose**

To provide an area where <u>mud</u>, <u>soil</u>, <u>and debris can be removed from</u> equipment and vehicle tires to avoid deposition on the public road, <u>where it can be a safety hazard and create muddy runoff and dust</u>. <u>Except for wheel washes, the removal of mud, soil, and debris occurs as a result of abrasion and wheel shaking as the vehicles drive over the right surfaces.</u>

# **Conditions Where Practice Applies**

Wherever vehicles and equipment will be entering and leaving a construction site and moving directly onto a public road or other paved off-site area. Construction plans should limit traffic to properly constructed entrances and exits.

# **Design Criteria**

Construction entrances should be 12-ft minimum per lane of traffic. Non-synthetic construction entrance/exits should have geotextile underlayment.

Aggregate or mulch thickness should be a minimum of 6-in. A dedicated stockpile of clean material should be available on-site for immediate use to maintain the measure.

**Location** – Locate construction entrances and exits to limit sediment from leaving the site and to provide for maximum utility by all construction vehicles. Avoid steep grades and entrances at curves in public roads.

#### **Dimensions of Entrance/Exit Pad -**

**Width** – A 12ft-minimum or full width at all points of the vehicular entrance and exit area, whichever is greater.

**Length** – Apply stabilization techniques at lengths necessary to keep mud and debris from entering the paved roadway (Figure 6.06a). Lengths of stabilized

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roadway entrances and exits may vary by size of the construction site, percent cover applied to the site access roadway, stabilization material selected, weight and frequency of traffic, and soil types.

Riprap and Stone Pads, Wood Fiber, Wooden Mats, and Synthetic Mats - Each option should achieve the purpose of this standard. Some standard starting points include:

## **Riprap Pads:**

Aggregate Size – Use 2 - 3 inch stone. NCDOT Class A may be suitable for finer textured soils

Length – 50-ft minimum. More stone may be required to minimize trackout on paved surfaces.

#### **Stone Pads:**

Aggregate Size – Use NCDOT #5 or #57 stone.

Length – 25-ft minimum for residential or small linear utility sites.

## Wood chips:

Material sizes may vary, but 3-inches or larger is preferred.

#### **Wood Mats:**

A minimum of ½ inch construction, but various thicknesses may be appropriate.

## **Synthetic Mats:**

Various thicknesses may be appropriate.

Wash Racks and Wheel Washes - If two instances of debris deposited onto the roadway are cited as a safety concern, a wash rack or wheel wash may be required. Otherwise, if conditions at the site are such that soil and other debris are not removed from exiting vehicles, the vehicles should be washed prior to accessing the public roadway. Soil and debris removal by washing should be conducted in a stabilized area that drains into a sediment trap or other suitable collection area or self-contained to filter water for reuse. A pressure washer and wash rack may be used to make washing more convenient and effective. A manufactured wheel wash installed and operated according to manufacturer's specifications is also an acceptable alternative. The roadway leading to and from wash racks or wheel washes shall be stabilized with appropriate materials. Drain space under wash rack shall be kept open. Damage to wash racks or wheel washes shall be repaired prior to further use.

**Prefabricated Pad -** Prefabricated pads may be used instead of or in conjunction with stone construction entrances provided they are installed according to manufacturer's recommendations and a sufficient number of pads or stone are installed to provide for a

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minimum of four tire revolutions while on the pad. More pads may be needed depending on site conditions. Accumulated materials should be cleaned from the pads daily (more often if necessary) and disposed in the manner specified by the erosion and sediment control plan.

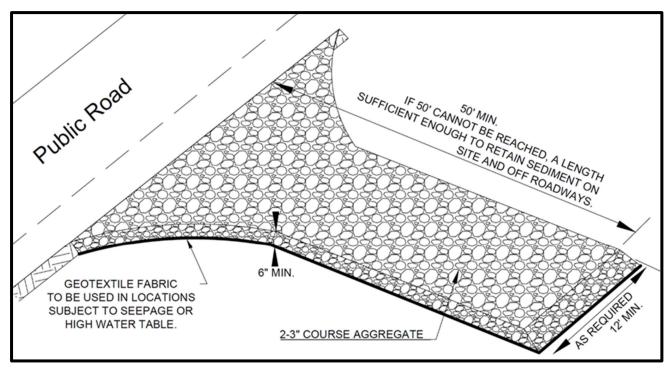


Figure 6.06a, Typical stone entrance/exit pad (modified from VA SWCC)



Figure 6.06b, Stone Entrance/Exit keeps sediment from leaving the construction site

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# **Construction Specifications**

- 1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
- 2. Place the stone or other stabilizing material to the specific grade and dimensions shown on the plans, and smooth it.
- **3.** Provide drainage from construction entrance area to carry runoff to a sediment trap or other suitable collection area.
- **4.** Divert construction site runoff away from the construction entrance area to nearby erosion and sediment control measures. Do not allow construction sites to outlet runoff through entrances/exits.
- **5.** When appropriate to do so, use geotextile fabrics underneath construction entrance material to improve stability of the foundation, especially in locations subject to seepage or a high-water table.

## **Maintenance**

Maintain the pad or entrance in a condition to prevent mud or sediment from leaving the construction site. If any objectionable material—including sediment—is deposited onto paved roadways from the construction site, remove by manual or mechanical means and return the deposits back to the construction site immediately. Periodic topdressing with stone or coarse ground wood mulch may be needed to prevent debris deposits onto the road, a stockpile shall be maintained on site to quickly address compromised entrances/exits. After each rainfall, inspect any structure used to trap sediment and clean it out as necessary. In circumstances of high-traffic and/or wet conditions, routinely inspect the entrance/exit for sediment and debris removal effectiveness as needed.

### References

Runoff Conveyance Measures 6.30, Grass-lined Channels

Sediment Traps and Barriers
6.60, Temporary Sediment Trap

Pennsylvania Erosion and Sediment Pollution Control Program Manual. March 2012. Technical Guidance Number 363-2134-008. pp.13-18

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