

Construction Exit (Co)

DEFINITION
A stone aggregate pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, driveway or parking area or any other area where there is a transition from bare soil to a paved area.

PURPOSE
To reduce or eliminate the transport of mud from the construction area onto public right-of-way by motor vehicles or by runoff.

CONDITIONS
This practice is applied at appropriate points of construction egress. Sedimentation and erosion control measures are required to stabilize and support the pad aggregate.

DESIGN CRITERIA
Formal design is not required. The following standards shall be used:

- Aggregate Size - Stone with a CBR greater than or equal to 2 or a shear strength greater than 50 KPA; aggregate must meet requirements of section AASHTO M238 or Section 7.3, Division Requirements.
- Pan Thickness - The gravel pad shall have a minimum thickness of 6 inches.
- Pan Width - At a minimum, the width should equal full width of all areas of vehicle egress, but not less than 30 feet wide.
- Pan Length - The gravel pad shall have a minimum length of 30 feet.

of 50 feet. When the construction is less than 50 feet from the access, the length shall be the length of existing pavement to the permitted building being constructed.

WEAVING
If the action of the vehicle traveling over the gravel pad does not sufficiently remove the mud, the area should be washed prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone and pavements that intercept the sediment before runoff and direct it into an approved sediment trap or sediment basin.

Location
The exit shall be located or protected to prevent sediment from leaving the site.

CONSTRUCTION SPECIFICATIONS
It is recommended that the aggregate area be composed to a depth of 3 inches and be covered of 60 vegetation and roots.

Diversion Ridge
A 3-foot wide ridge shall be placed to the right of the exit area. The ridge shall be constructed across the foundation approximately 15 feet above the road.

Detachable
The aggregate surface must be about the 5:1 length and width of the entrance. Detachable aggregate shall not exceed on AASHTO M238 or Section 7.3, Division Requirements.

CRUSHED STONE CONSTRUCTION EXIT

DEFINITION
A stone aggregate pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, driveway or parking area or any other area where there is a transition from bare soil to a paved area.

PURPOSE
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems. The sediment barrier is intended to capture sediment before it reaches the sediment trap. The barrier shall be constructed of a minimum of 18 inches of aggregate and shall be installed across entrances, egresses, driveways, or other constructed flow paths.

DESIGN CRITERIA
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the design of the product for use on the site.

Sediment Barrier (Sd1)

DEFINITION
Sediment barriers are temporary structures made up of porous material fully supported by steel or wood posts. Types of sediment barriers may include soil fabric, brush piles, pallet barriers, compost filter socks or other filtering material.

PURPOSE
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems. The sediment barrier is intended to capture sediment before it reaches the sediment trap. The barrier shall be constructed of a minimum of 18 inches of aggregate and shall be installed across entrances, egresses, driveways, or other constructed flow paths.

DESIGN CRITERIA
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the design of the product for use on the site.

Land Slope	Maximum Slope	Minimum Slope
< 2:1	100	75
2 to 4:1	75	50
4 to 10:1	50	25
10 to 20:1	25	15
> 20:1	15	10

Placement
The type of sediment barrier depends on whether the area is sensitive or non-sensitive. Sediment barriers can be defined as any area that needs additional protection. Lower areas include but are not limited to: ditches, culverts, or any area that needs design professional's approval.

Sensitive Areas (Sd-5)

Sensitive Areas are defined as areas that are susceptible to erosion and sedimentation. These areas include but are not limited to: steep slopes, riparian areas, wetlands, and other environmentally sensitive areas.

CONSTRUCTION SPECIFICATIONS
Non-Sensitive Areas (Sd-1A)

Diversion (Di)

A diversion consists of two components that must be designed - one ridge and one channel.

Channel Design
Land slope must be taken into consideration when choosing channel dimensions. On the steeper slopes, narrow and deep channels may be required. On the more gentle slopes, broad, shallow channels usually are applicable.

Table 6-17.1. Diversion Design Criteria

Diversion Type	Land or Improvement Protected	Slopes Frequency	Freeboard	Minimum Top Width
Temporary	Construction sites	10 yrs	0.3'	4'
Permanent	Landscape, recreation and snow areas	25 yrs	0.3'	4'
	Dwellings, schools, commercial areas, and senior residential	50 yrs	0.6'	4'

Silt Fence - Type C

DEFINITION
A silt fence is a type of sediment control structure that consists of a fabric filter cloth stretched across a trench and supported by a wooden stake.

EROSION AND SEDIMENT CONTROL TYPE B COMPOST FILTER SOCK

DEFINITION
A compost filter sock is a type of sediment control structure made from natural materials like straw or compost, designed to filter sediment from runoff.

TEMPORARY SEDIMENT TRAP (Sd4)

DEFINITION
A small temporary trap that drains a disturbed area and allows sediment to settle out before reaching a waterway.

PURPOSE
To collect and store sediment from upland areas and prevent it from entering a waterway.

CONSTRUCTION SPECIFICATIONS

Minimum design standards are applicable to the type of temporary sediment trap constructed. The main differences are with regard to the type of outlet structures. The following types of construction are applicable under the designated conditions.

Table 6-17.1. Diversion Design Criteria

Diversion Type	Land or Improvement Protected	Slopes Frequency	Freeboard	Minimum Top Width
Temporary	Construction sites	10 yrs	0.3'	4'
Permanent	Landscape, recreation and snow areas	25 yrs	0.3'	4'
	Dwellings, schools, commercial areas, and senior residential	50 yrs	0.6'	4'

SD4 CALCULATIONS

STRUCTURE	DRAINAGE AREA (AC)	REQUIRED VOLUME (CY)	DESIGN VOLUME (CF)	DESIGN VOLUME (CY)	TOP ELEVATION	POND DEPTH
1	2.21	148.07	6321	234	930	2

TEMPORARY SEDIMENT TRAP

CONSTRUCTION SPECIFICATIONS
The basic design guidelines are applicable to the type of temporary sediment trap constructed. The main differences are with regard to the type of outlet structures. The following types of construction are applicable under the designated conditions.

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REVISIONS
DATE: 07/15/2020
SUBMITTAL SET

ES&PC DETAILS
21802-4
132, 133
13TH
FULTON
COUNTY:
SCALE:
DATE: 04/06/2020

RENEWED MEDICAL
OLD NATIONAL HIGHWAY
SOUTH FULTON, GA

PROJECT No. 21802-4
LAND LOT(S): 132, 133
DISTRICT: 13TH
COUNTY: FULTON
SCALE: N.T.S.
DATE: 04/06/2020