

Construction Exit Pad (CEP)

Description

A stone base pad that removes mud and caked soil from the tires of construction vehicles. It is located where traffic will be leaving a construction site and moving directly onto a public road or street.

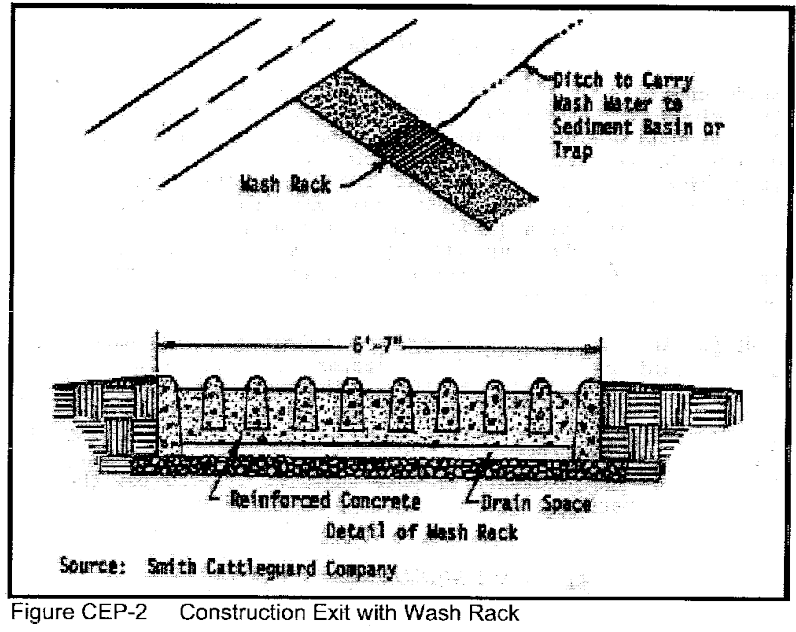
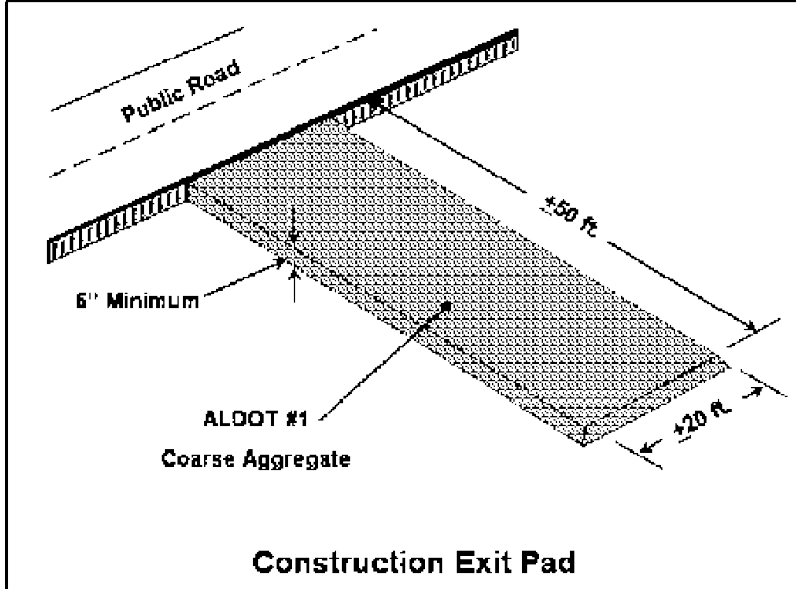
Installation

- Begin by removing all vegetation and other unsuitable material from the foundation area.
- Grade and crown the area for positive drainage.
- Utilize a diversion to direct any surface flow away from the construction exit pad.
- Install pipe under the pad if needed to maintain drainage ditches along public roads.
- Divert all construction exit pad runoff and drainage to a sediment trap or basin.
- If wet conditions or soft soils are anticipated, place geotextile filter fabric on the graded foundation before placing the aggregate.
- Place specified stone size to lines and grade shown on plans. Leave smooth and sloped for drainage. If stone size is not specified, use ALDOT Coarse Aggregate No. 1.
- If dimensions are not specified, pads are generally 50' x 20'. Adjustments in size should be made to accommodate site conditions.

Maintenance

- Remove large chunks of mud or caked soil from construction exit pad daily.

- Inspect stone pad and sediment disposal area weekly and after storm events or heavy use.
- Reshape pad as needed for drainage and runoff control.
- Top-dress with clean specified stone as needed to maintain effectiveness.
- Immediately remove mud or sediment tracked or washed onto public road.
- Remove unneeded exit pad materials from areas where permanent vegetation will be established.



Dust Control

Description

Controlling dust during land disturbing activities to minimize on-site and off-site damages and hazards.

Installation

- Sequence construction to minimize the amount of disturbed area at any one time.
- Leave undisturbed vegetative buffers between disturbed areas, if possible.
- Install planned surface stabilization measures immediately after completing grading.
- Vegetative Cover – Apply according to plans and specifications.
- Mulch – Apply according to plans and specifications.
- Sprinkling – Sprinkle disturbed areas with water until surface is moist. Repeat as often as needed to maintain moisture.
- Barriers – Install fences perpendicular to prevailing wind at intervals of 15 times the fence height.

Consult with a qualified design professional if spray-on adhesives are specified. A permit may be needed.

Maintenance

- Check site during windy conditions to monitor measure effectiveness.
- Reapply dust control measures as needed to maintain level of control required.

CONTRACTOR SHALL ONLY USE WATER.

Mulching (MU)

Description

Applying straw or other suitable materials to cover the soil surface to protect against erosion. Mulching with seeding helps establish plant cover. It can be used on unseeded areas to protect against erosion until final grading and shaping can be accomplished.

Installation

- Remove stumps, roots and other debris from the site before seeding and/or mulching.
- Grade area, if needed, to permit the use of equipment for seeding, mulching and maintenance.
- Shape area so that it is relatively smooth.
- If seeding, follow seeding specifications and apply mulch immediately after seeding.
- Spread straw uniformly over the area with a power blower, hydroseeder or by hand at rates recommended for either seeded areas or without seeding. When mulching with seeding, 25% to 35 % of the ground surface should be visible after mulching is applied. When mulching without seeding, 100% of the soil surface should be covered.
- Apply at the rates shown in the plan or in Table MU-1 if there is not a plan.

Table MU-1 Mulching Materials and Application Rates

Material	Rate Per Acre and (Per 1000 ft. ²)	Notes
Straw (with Seed)	1 ½ - 2 tons (70 lbs - 90 lbs)	Spread by hand or machine; anchor when subject to blowing.
Straw Alone (no seed)	2 ½ - 3 tons (115 lbs - 140 lbs)	Spread by hand or machine; anchor when subject to blowing.
Wood Chips	5-6 tons (230 lbs - 275 lbs)	Treat with 12 lbs. nitrogen/ton.
Bark	35 cubic yards (0.8 cubic yard)	Can apply with mulch blower.
Pine Straw	1-2 tons (45 lbs - 90 lbs)	Spread by hand or machine; will not blow like straw.
Peanut Hulls	10-20 tons (450 lbs - 900 lbs)	Will wash off slopes. Treat with 12 lbs. nitrogen/ton.

Anchor straw or wood cellulose mulch by one of the following methods:

- Crimp with a weighted, straight, notched disc or a mulch anchoring tool (crimper) to punch the straw into the soil.
- Tack with a liquid tackifier designed to hold mulch in place. Use suitable spray equipment and follow manufacturer's recommendations.

Sodding (SOD)

Description

Establishing vegetative cover with sod to provide immediate erosion control on bare soil.

Installation

- Begin by clearing the area of clods, rocks, etc.
- Grade and loosen the soil to a smooth surface.
- Loosen compacted, hard or crusted soil surfaces to 6" to 8" with appropriate tillage equipment and incorporate the lime and fertilizer.
- Where topsoiling is specified or needed, follow steps in the design plan or, if not available, apply according to the Topsoiling practice. Lime subsoil first if lime is needed.
- Apply lime and fertilizer according to the plan or by soil test recommendations. In the absence of a plan or soil test recommendations apply agricultural limestone at the rate of 2 tons per acre (100 lbs. per 1000 sq. ft.) if the pH is under 6.0 and apply 10-10-10 fertilizer at the rate of 1000 lbs. per acre (25 lbs per 1000 sq. ft.). Incorporate amendments to depth of 4" to 6".
- Rake or harrow to achieve a smooth, loose, debris-free final grade on which to lay the sod.
- Avoid preparing the seedbed under excessively wet conditions.
- Use plants specified in the plan. If not specified, select a variety using Figure SOD-1 and Tables SOD-1 and SOD-2.

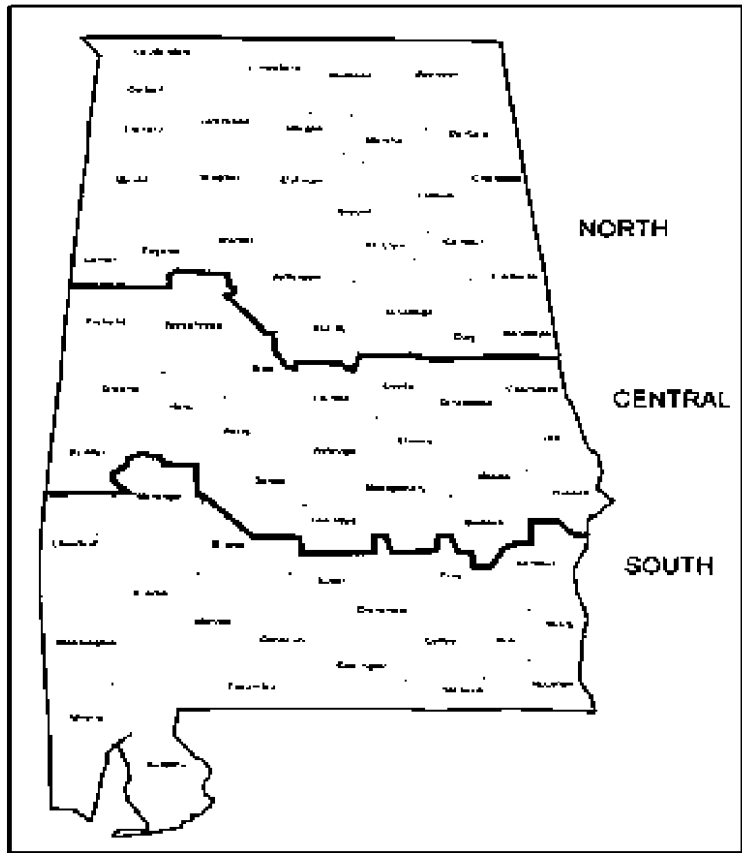


Figure SOD-1 Geographical Areas for Species Adaptation in Alabama

Table SOD-1 Grasses Adapted for Sodding in Alabama

Warm Season Species	Variety	Area Adapted
Bermudagrass	Tifway, Tifgreen, Tiflawn, Common	North, Central, South
Bahiagrass	Pensacola	Central, South
Centipede	No Improved Varieties	Central, South
St. Augustine	Bitterblue, Raleigh, Common	South
Zoysia	Emerald, Meyer	Central, South
Cool Season Species		
Tall Fescue	Kentucky 31	North

Table SOD-2 Adaptation and Maintenance of Grasses Used for Sodding

Species	Tolerance Ratings					Maintenance	
	Shade	Heat	Cold	Drought	Wear	Mowing Height.	Mowing Frequency
Bermuda-grass	P	G	P	E	E	1"	H
Bahiagrass	F	G	P	E	G	2-3"	H
Centipede	F	G	P	G	P	1½"	L
Tall Fescue	G	F	G	G	G	3"	H
St. Augustine	G	G	P	P	P	2-3"	M
Zoysia	F	G	F	E	G	1"	H

E=Excellent, G=Good, F=Fair, P=Poor, H=High, M=Medium, L=Low

- During high temperatures, moisten the soil immediately prior to laying sod.
- Lay the first row of sod in a straight line with subsequent rows placed parallel to and butting tightly against each other. Stagger joints to create a brick-like pattern.
- Ensure that sod is not stretched or overlapped and that all joints are butted tight.
- Wherever concentrated flow may be a problem, install sod with the length perpendicular to the water flow (see Figure SOD-2) and secure by stapling firmly at the corners and middle of each strip. Jute or synthetic netting may be pegged over the sod for further protection during establishment.
- Immediately after laying the sod, roll or tamp it to provide firm contact between roots and soil.

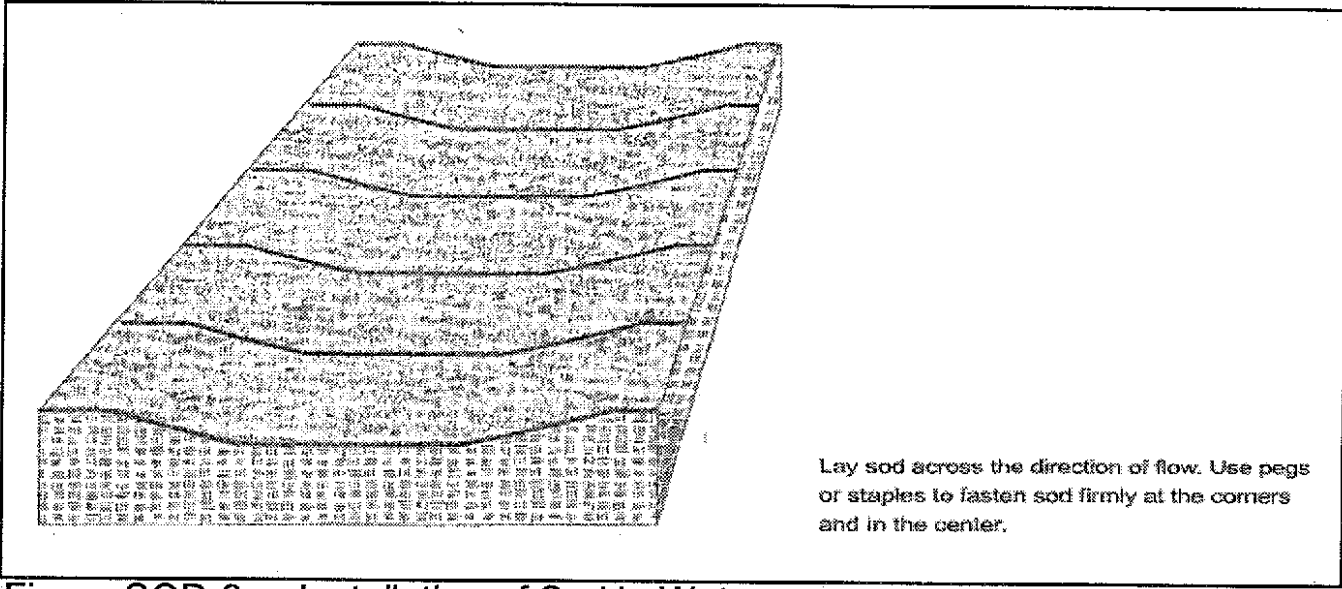


Figure SOD-3 Installation of Sod in Waterways

Maintenance

- Mow to a height of 2" to 3" after sod is well rooted. Do not remove more than 1/3 of the leaf blade in any mowing.
- Permanent, fine turf areas require yearly fertilization. Fertilize warm-season grass in late spring to early summer; cool-season grass in early fall and late winter.



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REVISIONS:

ISSUE DATE:

	PLAN CHECK	07/26/19
	PERMIT	09/09/19
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