ADMINISTRATIVE PROCESS

FOR ARTICLE V. SOIL EROSION AND SEDIMENTATION CONTROL

OF CHAPTER 26 ENVIRONMENT

OF THE BUNCOMBE COUNTY CODE OF ORDINANCES

COUNTY OF BUNCOMBE
DEPARTMENT OF PLANNING AND DEVELOPMENT
EROSION CONTROL OFFICE
46 VALLEY STREET
ASHEVILLE, NC 28801
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July 1, 2013

Doug Sharp
Erosion Control Officer

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INTRODUCTION

The intent of this manual is to acquaint those persons involved in land disturbing activities in the County of Buncombe with the administration of the Soil Erosion and Sedimentation Control Ordinance which is codified and contained within Chapter 26 Article V of the Buncombe County Code of Ordinances.

This Manual summarizes the steps necessary to acquire a land disturbing permit which include who must apply, what submittals are required, fees, etc. This manual also describes the inspection process for enforcement of the Ordinance.

Questions, comments, and suggestions concerning the Ordinance or the administration thereof may be directed to the Erosion Control Officer for the Buncombe County Department of Planning and Development at 46 Valley Street, Asheville, NC 28801. The Telephone number is (828) 250-4848.

PLEASE VISIT OUR WEB SITE for additional information and downloadable forms. Checklist, Application/Financial Responsibility Ownership, Fee Schedule, etc.

The County of Buncombe does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs and activities.
LAND DISTURBING PERMIT ACQUISITION PROCEDURE

Once it has been determined that a land disturbing permit is required according to Section 26-210, 26-211a, 26-213 and 26-226a of the Ordinance, the acquisition procedure must be followed.

In order to obtain a land disturbing permit from the County of Buncombe, the following submittals are required according to Sections 26-226 and 26-228:

1. For disturbed sites as described in Section 26-211 of the Buncombe County Code of Ordinances.
   
   A. Copy of the approved stormwater plan, approval letter and permit.
   
   B. Completed land disturbing permit application (Statement of financial responsibility and ownership)
   
   C. Completed and signed Erosion Control Plan Checklist
   
   D. Plan review fee (see Fee Schedule)
   
   E. Approved Erosion Control Plan according to Section 26-228 (2 copies).
   
   F. CD (PDF Format) Plan, Financial Responsibility Ownership Form (Application) signed and notarized, checklist (signed) and calculations.

2. Two copies of the Erosion Control Plan shall be filed with County at least thirty (30) days prior to beginning land disturbing activity and another copy shall be kept at the job site.

   The County will review submittal and within twenty (20) days after receipt shall notify the person submitting the plan that it has been approved, approved with modifications and/or performance reservations, or disapproved.

   Should the Plan be filed, approved and a Land Disturbing Permit be issued in less than twenty (20) days, the land disturbing activity may commence.

2. Upon approval of the Erosion Control Plan, the applicant will be issued a Land Disturbing Permit and a NPDES Stormwater Discharge Permit. After issuance of a Land Disturbing Permit, a building permit may be obtained from the Permits' Office.

   (NOTE: The word "approval" as used above, is meant to convey that the erosion control plans appear to comply with the Ordinance. If, following commencement of a land disturbing activity pursuant to an approved plan the County determines that the plan is inadequate to meet the requirements of this Ordinance, the County may require such revisions as are necessary to comply with this Ordinance.)
FEE SCHEDULE

Plan Review Fee:

One-quarter to less than one acre disturbed, subject to Sec. 70-68, Hillside
$400.00

One acre or greater than one acre disturbed:
$525.00/acre, prorated*

*Example: 1.125 acres disturbed x $525.00 = $590.63

The Plan Review Fee is based on disturbed acreage. Plan review fees shall be
double the normal fee when land-disturbing activities begin before a land-
disturbing permit is obtained from the County.

Note: The less than one-acre requirement applies to lots with an
average natural slope of 25% or greater in subdivisions approved
under Sec. 70-68 Hillside Development standards. Refer to
Chapter 26 Sec. 26-211.
INSPECTION AND INVESTIGATION PROCEDURES

1. INSPECTION

Agents and officials of the county will make inspections to insure the effectiveness of the installed erosion control measures (Section 26-230)

2. REPORT

The results of the inspection will indicate compliance with ordinance, whether the activity is being conducted in accordance with an approved plan, proper erosion control, problems with existing measures, need for additional measures, corrective actions and will be mailed to the financially responsible party.

3. NOTICE OF VIOLATION(S)

If it is determined, upon subsequent inspections, any person engaged in land disturbing activities is violating any provisions of the Ordinance, a Notice of Violations shall be served upon the person responsible for the violations (Section 26-230(b). The Notice of Violations will restate the problems, corrective actions needed, completion time, and warn that failure to comply shall result in the assessment of a civil penalty (Section 26-231) or other enforcement action (Section 226-227a, 26-255 and 26-232).

4. REVOCATION OF PERMIT

Non-compliance to the terms of the notice of violation empowers the county to revoke the Land Disturbing Permit or issue a Stop Work Order. In the event that the Land Disturbing Permit is revoked, all building permits will be revoked (Section 26-227a),

5. CERTIFICATE OF COMPLIANCE

Issued to the person conducting the land disturbing activity upon satisfactory project completion.
COUNTY OF BUNCOMBE

CHECKLIST AND GUIDELINES FOR THE PREPARATION OF
EROSION AND SEDIMENTATION CONTROL PLANS

 FOR ____________________________

(Name of Project)

THE FOLLOWING CHECKLIST IS TO BE COMPLETED AND SUBMITTED WITH ALL
EROSION AND SEDIMENTATION CONTROL PLANS:

In completing this checklist please refer to Section 26-228 (f)

Each blank must be checked or marked Not Applicable (N/A) or yes/no and dated. Inaccurate or
inadequate preparation of this form will result in, disapproval of the plan.

Date

_____ CD (PDF Format) Plan, Financial Responsibility Ownership Form (Application) signed and
notarized, checklist (signed) and calculations.

_____ Copy of the approved Stormwater plan, Approval letter and Permit.

_____ Completed Financial Responsibility and Ownership Form (Application)

_____ Plan Review Fee (Based on disturbed acreage)

Lots in Subdivisions Subject to Sec. 70-68, Hillside $400.00 for 0.25 to <1 acre
All Properties, One Acre or Greater Disturbance $525.00/acre, prorated
Example: 1.125 acres disturbed x$525.00 = 590.63

Plan review fees shall be double the normal fee if the land disturbing activities begin prior to obtaining a permit.

_____ Two copies of the Erosion and Sedimentation Control Plan, showing the following:

 Location Information

_____ Project location
____ Roads, street
____ North arrow
____ Scale
____ Adjoining lakes, streams or other major drainage
____ Adjoining property owners
General Site Features

- North arrow
- Scale
- Property Line
- Legend
- Existing contours
- Limit and acreage of disturbed area (clearly designated).
- Utilities (existing and purposed)
- Planned and existing road locations and elevations
- Lot and/or building numbers.
- Land use of surrounding areas
- Rock outcrops
- Seeps or springs
- Wetlands limits
- Easements
- Streams, lakes, ponds, drainage ways, dams
- Trout waters
- High Quality or Outstanding Resource Waters
- Boundaries of the total tract.
- Borrow and waste areas (If the same person conducts the land-disturbing activity and any related borrow or waste activity, the related borrow or waste activity shall constitute part of the land-disturbing activity unless the borrow or waste activity is regulated under the Mining Act of 1971, or is a landfill regulated by the Division of Solid Waste Management. If the land-disturbing activities are not conducted by the same person, they shall be considered separate land-disturbing activities.)
- Access and all roads
- Construction staging area
- Stockpiled topsoil or subsoil location
- Road / Street profiles

Site Drainage Features

- Existing and planned drainage patterns (include map of off-site areas that drain through project)
- Size of Area to be disturbed (Acreage)
- Size and location of culverts and sewers
- Soil information (type, special characteristics)
- Design calculations for peak discharges of runoff (including the construction phase and runoff coefficients of the site)
- Design calculations and construction details for culverts and storm sewers
- Design calculations cross-sections and method of stabilization of existing and planned channels (include temporary linings)
- Design calculations and construction details of energy dissipaters below culvert and storm sewer outlets (for rip-rap aprons, include stone sizes (diameter and apron dimensions) (detention may be necessary to meet velocity reduction requirements)
- Soil information below culvert storm outlets
- Design calculations and construction details to control ground-water, i.e., seeps, high
water tables, etc
_____ Names of receiving watercourse or name of municipal operator (only where storm water discharges are to occur)

**Erosion Control Measures**

_____ Legend
_____ Temporary and permanent Sedimentation and Erosion Control measures (locations and dimensions of gravel entrances, diversion ditches, silt fences, sediment traps (minimum volume 3600 cubic feet) sediment basins, velocity dissipaters, ditch lining, retaining walls, etc.)
_____ Detailed drawings (section, elevations, and perspectives of measures sufficient for construction.)
_____ Construction drawing and details for temporary and permanent measures
_____ Design calculations for sediment basin and other measures
_____ Maintenance requirements during construction
_____ Person responsible for maintenance during construction
_____ Maintenance requirements and responsible person(s) of permanent measures
_____ Construction sequence (permits, installation of measures, inspections and approvals, maintained of measures, ground cover, and removal of measures after stabilization)

**Vegetative Stabilization**

_____ Areas and acreage to be vegetative stabilized
_____ Planned vegetation with details of plant, seed, mulch, and fertilizer
_____ Specifications for permanent and temporary vegetation
_____ Method of soil preparation

**Note:** Should include provision for ground cover on exposed slopes within (21) calendar days of completion of any phase of grading, permanent ground cover for all disturbed areas within (15) working days or (90) calendar days (whichever is shorter) following completion of construction or development.

**Other Requirements**

_____ Narrative describing construction sequence (as needed)
_____ Narrative describing the nature and purpose of the construction activity
_____ Bid specifications regarding erosion control
_____ Construction sequence related to sedimentation and erosion control (include installation of critical measures prior to initiation of the land-disturbing activity, and removal of measures after they serve have been permanently stabilized.)

_____ Corps of Engineers Permit
_____ Division of Water Quality contacted for regulated work
Flood Hazard areas located and contacted flood zone Administrator.

Division of Solid Waste contacted for regulated work

Watershed and watershed administrator contacted

Zoned and contacted Zoning Administrator

D.O.T permit, encroachment and culvert tie on (must reduce velocity prior to tie on.)

Statements (concerning approval to discharge stormwater or perform off-site construction work)

Dust Control, address

Underground Utilities. (Before you dig) call 1-800-632-4949 N.C. One Call

Wildlife comments and address on plan...

The approval of an erosion plan is conditioned on the applicant’s compliance with federal and state water quality laws, and rules. A copy of the erosion control plan for any land disturbing activity that involves the utilization of ditches for the purpose of dewatering and lowering the water table must be forwarded to the director of the division of water quality.

All design calculations shall be designed for the minimum twenty five year storm.

Plan designer must furnish a statement of an on site downstream evaluation for assessment of twenty-five year velocity impacts to adjoining property. Statement to include concerns, potential problems, possible solutions and additional measures temporary and permanent, your plan will address for downstream impact, and for a minimum one quarter mile (Be advised that the county is not requiring you to enter adjoining property without permission. Utilize all available resources possible to assess impacts)

A minimum of a 10’ undisturbed setback is required to adjoining property at all drainage outfalls.

Subdivision plan to include a 10’ easement per-section 70:66, geotechnical engineer per-section 70:68, and average slope determination.)

An NPDES Permit will be issued with the Land-Disturbing Permit. Remit copies of rain information to this office once each month. (Can be mailed, E-mail etc.) Include person responsible for maintaining and supplying this information.

The Land Disturbing Permit will be issued once the Plan has been approved.

SIGNATURE

DATE

Revised August 1, 2006

NOTE: Please do not call about reviews. Plans are reviewed on a first come first serve basis with a maximum of twenty (20) days to approve or disapprove. (Revised plan fifteen (15) days.)
APPLICATION FOR LAND DISTURBING PERMIT
Financial Responsibility / Ownership Form

INSTRUCTIONS: All sections must be completed. Please type or print information. Section 5 must be completed in the presence of a Notary Public.

1) Project Name: _____________________________
   Project Location: Highway/ Street ____________
   Latitude ___ Longitude ___
   Property Identification No. (PIN):
   Purpose of development (residential, commercial, industrial, etc.), ____________________________
   Total Area Disturbed (including offsite borrow and waste area): _______________________________
   Acres(s).
   Amount of fee enclosed: _______________________

2) Section 26-228(b) of the Buncombe County Soil Erosion and Sedimentation Control Ordinance: "Erosion control plans shall be accompanied by a notarized statement of financial responsibility and ownership". This statement shall be signed by the person financially responsible for the land disturbing activity or his attorney in fact. The undersigned states that he/she is the person financially responsible for land disturbing activity described in this application and acknowledges receipt of a copy of the County of Buncombe Soil Erosion and Sedimentation Control Ordinance and that he/she has hereby been advised of the requirements therein as well as the penalties and resources available to the County in the event of violation of the Ordinance, including revocation of the Land Disturbing Permit and all building permits issued in connection with the project covered by the application.

   Name of Business: _____________________________
   Name of Applicant: ____________________________
   Date: ____________________
   Mailing Address: ______________________________
   Street address: ________________________________
   E-mail address: ________________________________
   Telephone No.: ________________________________
   Cell No.: ________________________________
   Fax no.: ________________________________
   Signature: ________________________________

3) Landowner(s) of Record:
   Name: ___________________ ______________________
   Mailing Address: ______________________________
   Recorded in Deed Book No. __________ Page: ______

4) Section 26-228(b) of the Buncombe County Soil Erosion and Sedimentation Control Ordinance: "If the person financially responsible is not a resident of North Carolina, a North Carolina agent must be designated in the statement for the purpose of receiving notice of compliance or non-compliance with the plan, the Act, this ordinance, or rules or orders adopted or issued pursuant to this ordinance." The person noted below is the designated North Carolina agent and is duly authorized by the financially responsible person to accept and convey correspondence regarding the aforementioned project.

   Name of Agent: ___________________________
   Mailing Address: ____________________________
   E-mail Address: ____________________________
   Telephone Number ( ) __________________ Cell No. __________________ Fax No. __________________
   Signature: _____________________________

5) The above information is true and correct to the best of my knowledge and belief and was provided by me while under oath. (If the financially responsible person is an individual, this form must be signed by the individual or his attorney-in-fact; if the financially responsible person is not an individual, this form must be signed by an officer, director, partner, or registered agent with authority to executed instruments for the financially responsible person.)

   Name: ____________________________ Date: ______
   Title: ____________________________
   Signature: ____________________________

   ____________________________, a Notary Public for the County of ____________________________, hereby certify that ____________________________, personally appeared before me this day and under oath acknowledged that the above form was executed by him and is correct to the best of his knowledge and belief.

   Witness my hand and seal, this ____________________________, 20________ day of ____________________________, 20________.

   __________________________________________________________
   Notary

   My Commission Expires ____________________________

The County of Buncombe does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities. Requests for appropriate auxiliary aids and services, when necessary to offer a person with a disability an equal opportunity to participate in or enjoy the benefits of County services, programs, or activities, may be made by contacting Buncombe County Erosion Control, (828) 250-4848. Buncombe County's TDD number is (828) 250-4001.
ORDINANCE NO.11-06-03

ORDINANCE AMENDING CHAPTER 26, ARTICLE V OF THE BUNCOMBE COUNTY CODE OF ORDINANCES,
SOIL EROSION AND SEDIMENTATION CONTROL

WHEREAS, pursuant to N.C. Gen. Stat. § 153A-121, the County may adopt an ordinance to regulate
conditions detrimental to the health, safety, or welfare of its citizens; and

WHEREAS, pursuant to N.C. Gen. Stat. § 153A-102, the Board of Commissioners may fix the fees
and commissions charged by county officers and employees for performing services or
duties permitted or required by law; and

WHEREAS, it is the Board’s desire to amend these fees through the annual budget ordinance.

NOW, THEREFORE, BE IT ORDAINED BY the Board of Commissioners for the County of Buncombe as
follows:

Section 1. The Buncombe County Code of Ordinances is hereby amended as follows:

Amend Sec. 26-226(d) as follows:
Fees. The county may establish fees as considered necessary to defray costs of administering this
article. Plan review fees shall be double the normal fee amount when land disturbing activity
begins before a land disturbing permit is obtained from the county.

An applicant shall be entitled to two plan reviews of any application without payments of an
additional plan review fee. This shall be construed to mean review of the original application
and review of the re-submittal of that application with or without revisions. Any re-submittal by
the applicant thereafter shall be treated as a new application and must be accompanied by
payment of the full plan review fee.

The county board of commissioners shall establish plan review fees, and may amend and update
the fees annually during the budget process. The plan review fee charge is:

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to and including one acre</td>
<td>$400.00</td>
</tr>
<tr>
<td>Greater than one acre, each additional acre</td>
<td></td>
</tr>
</tbody>
</table>

Section 2. If any section, subsection, sentence, clause, or phrase of this ordinance is, for any
reason, held to be invalid, such decision shall not affect the validity of the remaining portions of this
ordinance. The Board of Commissioners hereby declare that it would have passed this ordinance, and
each section, subsection, sentence, clause, or phrase thereof irrespective of the fact that any one or
more sections, subsections, sentences, clauses, or phrases be declared invalid.
Section 3. All ordinances or parts of ordinances in conflict herewith are hereby repealed to the extent of such conflict.

Section 4. This resolution is effective July 1, 2011.

Read, approved and adopted this 7th day of June, 2011.

ATTEST

Kathy Hughes
Clerk

BOARD OF COMMISSIONERS FOR THE COUNTY OF BUNCOMBE

BY
David Gantt, Chairman

APPROVED AS TO FORM

Michael C. Frue, County Attorney
Definition
Planting rapid-growing annual grasses, small grains, or legumes to provide initial, temporary cover for erosion control on disturbed areas.

Purpose
To temporarily stabilize denuded areas that will not be brought to final grade for a period of more than 21 calendar days.
Temporary seeding controls runoff and erosion until permanent vegetation or other erosion control measures can be established. In addition, it provides residue for soil protection and seedbed preparation, and reduces problems of mud and dust production from bare soil surfaces during construction.

Conditions Where Practice Applies
On any cleared, unvegetated, or sparsely vegetated soil surface where vegetative cover is needed for less than 1 year. Applications of this practice include diversions, dams, temporary sediment basins, temporary road banks, and topsoil stockpiles.

Planning Considerations
Annual plants, which sprout and grow rapidly and survive for only one season, are suitable for establishing initial or temporary vegetative cover. Temporary seeding preserves the integrity of earthen sediment control structures such as dikes, diversions, and the banks of dams and sediment basins. It can also reduce the amount of maintenance associated with these devices. For example, the frequency of sediment basin cleanouts will be reduced if watershed areas, outside the active construction zone, are stabilized.
Proper seedbed preparation, selection of appropriate species, and use of quality seed are as important in this Practice as in Practice 6.11, Permanent Seeding. Failure to follow established guidelines and recommendations carefully may result in an inadequate or short-lived stand of vegetation that will not control erosion.
Temporary seeding provides protection for no more than 1 year, during which time permanent stabilization should be initiated.

Specifications
Complete grading before preparing seedbeds, and install all necessary erosion control practices such as, dikes, waterways, and basins. Minimize steep slopes because they make seedbed preparation difficult and increase the erosion hazard. If soils become compacted during grading, loosen them to a depth of 6-8 inches using a ripper, harrow, or chisel plow.

SEEDBED PREPARATION
Good seedbed preparation is essential to successful plant establishment. A good seedbed is well-pulverized, loose, and uniform. Where hydrosowing methods are used, the surface may be left with a more irregular surface of large clods and stones.
Liming—Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the
rate of 1 to 1 1/2 tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

Fertilizer—Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

Surface roughening—If recent tillage operations have resulted in a loose surface, additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by diskng, raking, harrowing, or other suitable methods. Groove or furrow slopes steeper than 3:1 on the contour before seeding (Practice 6.03, *Surface Roughening*).

**PLANT SELECTION**

Select an appropriate species or species mixture from Table 6.10a for seeding in late winter and early spring, Table 6.10b for summer, and Table 6.10c for fall.

In the Mountains; December and January seedings have poor chances of success. When it is necessary to plant at these times, use recommendations for fall and a securely tacked mulch.

**SEEDING**

Evenly apply seed using a cyclone seeder (broadcast), drill, cultipacker seeder, or hydroseeder. Use seeding rates given in Tables 6.10a-6.10c. Broadcast seeding and hydroseeding are appropriate for steep slopes where equipment cannot be driven. Hand broadcasting is not recommended because of the difficulty in achieving a uniform distribution.

Small grains should be planted no more than 1 inch deep, and grasses and legumes no more than 1/2 inch. Broadcast seed must be covered by raking or chain dragging, and then lightly firmed with a roller or cultipacker. Hydroseeded mixtures should include a wood fiber (cellulose) mulch.

**MULCHING**

The use of an appropriate mulch will help ensure establishment under normal conditions, and is essential to seeding success under harsh site conditions (Practice 6.14, *Mulching*). Harsh site conditions include:

- seeding in fall for winter cover (wood fiber mulches are not considered adequate for this use),
- slopes steeper than 3:1,
- excessively hot or dry weather,
- adverse soils (shallow, rocky, or high in clay or sand), and
- areas receiving concentrated flow.

If the area to be mulched is subject to concentrated waterflow, as in channels, anchor mulch with netting (Practice 6.14, *Mulching*).
Maintenance

Reseed and mulch areas where seedling emergence is poor, or where erosion occurs, as soon as possible. Do not mow. Protect from traffic as much as possible.

References

Site Preparation
6.03, Surface Roughening
6.04, Topsoiling

Surface Stabilization
6.11, Permanent Seeding
6.14, Mulching

Appendix
8.02, Vegetation Tables
### Table 6.10a

**Temporary Seeding Recommendations for Late Winter and Early Spring**

<table>
<thead>
<tr>
<th>Species</th>
<th>Rate (lb/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rye (grain)</td>
<td>120</td>
</tr>
<tr>
<td>Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)</td>
<td>50</td>
</tr>
</tbody>
</table>

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

**Seeding dates**
- Mountains—Above 2500 feet: Feb. 15 - May 15
- Below 2500 feet: Feb. 1 - May 1
- Piedmont—Jan. 1 - May 1
- Coastal Plain—Dec. 1 - Apr. 15

**Soil amendments**
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

**Mulch**
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

**Maintenance**
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.
<table>
<thead>
<tr>
<th>Seeding mixture</th>
<th>Species</th>
<th>Rate (lb/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>German millet</td>
<td></td>
<td>40</td>
</tr>
</tbody>
</table>

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

**Seeding dates**
- Mountains—May 15 - Aug. 15
- Piedmont—May 1 - Aug. 15
- Coastal Plain—Apr. 15 - Aug. 15

**Soil amendments**
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

**Mulch**
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

**Maintenance**
Refertilize if growth is not fully adequate. Reseed, reapply fertilizer and mulch immediately following erosion or other damage.
### Table 6.10c
Temporary Seeding Recommendations for Fall

<table>
<thead>
<tr>
<th>Species</th>
<th>Rate (lb/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rye (grain)</td>
<td>120</td>
</tr>
</tbody>
</table>

#### Seeding dates
Mountains—Aug. 15 - Dec. 15  
Coastal Plain and Piedmont—Aug. 15 - Dec. 30

#### Soil amendments
Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

#### Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

#### Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedea in late February or early March.
6.06 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

Definition
A graveled area or pad located at points where vehicles enter and leave a construction site.

Purpose
To provide a buffer area where vehicles can drop their mud and sediment to avoid transporting it onto public roads, to control erosion from surface runoff, and to help control dust.

Conditions Where Practice Applies
Wherever traffic will be 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.

Design Criteria
Aggregate Size—Use 2-3 inch washed stone.

Dimensions of gravel pad—
Thickness: 6 inches minimum
Width: 12-ft minimum or full width at all points of the vehicular entrance and exit area, whichever is greater
Length: 50-ft minimum

Location—Locate construction entrances and exits to limit sediment from leaving the site and to provide for maximum utility by all construction vehicles (Figure 6.06a). Avoid steep grades and entrances at curves in public roads.

Figure 6.06a Gravel entrance/exit keeps sediment from leaving the construction site (modified from Va SWCC).
8' MAX FOR STD. STRENGTH FABRIC WITH WIRE MESH REINFORCEMENT OR 6' MAX FOR EXTRA STRENGTH FABRIC W/O WIRE MESH

SYNTHETIC FILTER FABRIC ATTACHED TO POSTS WITH APPROVED FASTENERS. PLACE ON UPHILL SIDE OF FENCE.

2" STEEL ANGLE POST SET MIN. 24" INTO GROUND

SYNTHETIC FILTER FABRIC SHALL BE BACKFILLED A MIN. OF 8"

WIRE MESH

STEEL POST

SYNTHETIC FILTER FABRIC

GROUND

32" MIN.

EXCAVATE 8"x8" TRENCH UPSLOPE ALONG LINE OF POSTS. EXTEND FILTER FABRIC INTO TRENCH, A MINIMUM OF 8" DOWN AND 8" FORWARD ALONG THE TRENCH. BACKFILL TRENCH A MINIMUM OF 8" AND COMPACT SOIL.

NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. REPAIR SHALL BE MADE AS NECESSARY.

2. FABRIC SHALL BE REPLACED PROMPTLY IF FOUND TO BE IN DISREPAIR.

3. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

4. FOR REPAIR OF FAILURES, USE WASHED STONE.

SILT FENCE

NOT TO SCALE
EXAMPLE OF SINGLE FAMILY HOME SITE

(NOT TYPICAL)