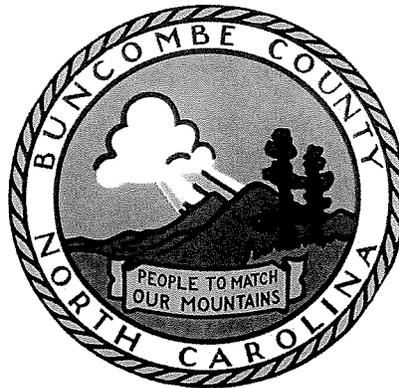


ADMINISTRATIVE PROCESS
FOR ARTICLE V. SOIL EROSION AND SEDIMENTATION CONTROL
OF CHAPTER 26 ENVIRONMENT
OF THE BUNCOMBE COUNTY CODE OF ORDINANCES



COUNTY OF BUNCOMBE
DEPARTMENT OF PLANNING AND DEVELOPMENT
EROSION CONTROL OFFICE
46 VALLEY STREET
ASHEVILLE, NC 28801
PHONE: (828) 250-4848
FAX: (828) 250-6086
July 1, 2013

Doug Sharp
Erosion Control Officer

Jason Guess
Erosion Control Technician

ADMINISTRATIVE PROCESS
FOR ARTICLE V. SOIL EROSION AND SEDIMENTATION CONTROL OF
CHAPTER 26 ENVIRONMENT OF THE BUNCOMBE COUNTY CODE OF
ORDINANCES

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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. REVOCAION 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 proposed)
- _____ 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 3600cubic 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.

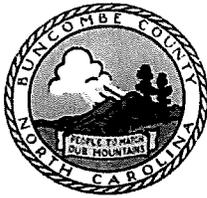
The Land Disturbing Permit will be issued once the Plan has been approved.

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.)



COUNTY OF BUNCOMBE

Department of Planning
Erosion Control Office
46 Valley Street
Asheville, NC 28801
(828) 250-4848

FOR OFFICE USE ONLY

Review Fee: _____
Permit No.: _____
Date Issued: _____
Date Paid: _____
Check No.: _____
Rec'd By: _____

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 thereby 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: _____

I, _____, a Notary Public for the County of _____,
State 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 _____ 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:

Up to and including one acre:	\$400.00
Greater than one acre, each additional acre:	

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.

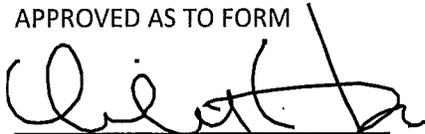
ATTEST

BOARD OF COMMISSIONERS FOR THE
COUNTY OF BUNCOMBE


Kathy Hughes, Clerk

BY 
David Gantt, Chairman

APPROVED AS TO FORM


Michael C. Frue, County Attorney

6.10

TEMPORARY SEEDING

TS

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 hydroseeding 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 disking, 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 6.10b
Temporary Seeding
Recommendations for
Summer**

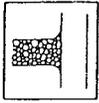
Seeding mixture	
Species	Rate (lb/acre)
German millet	40
<p>In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.</p>	
Seeding dates	
Mountains—May 15 - Aug. 15	
Piedmont—May 1 - Aug. 15	
Coastal Plain—Apr. 15 - Aug. 15	
Soil amendments	
Follow recommendations 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, refertilize and mulch immediately following erosion or other damage.	

Table 6.10c
Temporary Seeding
Recommendations for Fall

Seeding mixture	Rate (lb/acre)
Species Rye (grain)	120
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) lespedeza 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 exists 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.

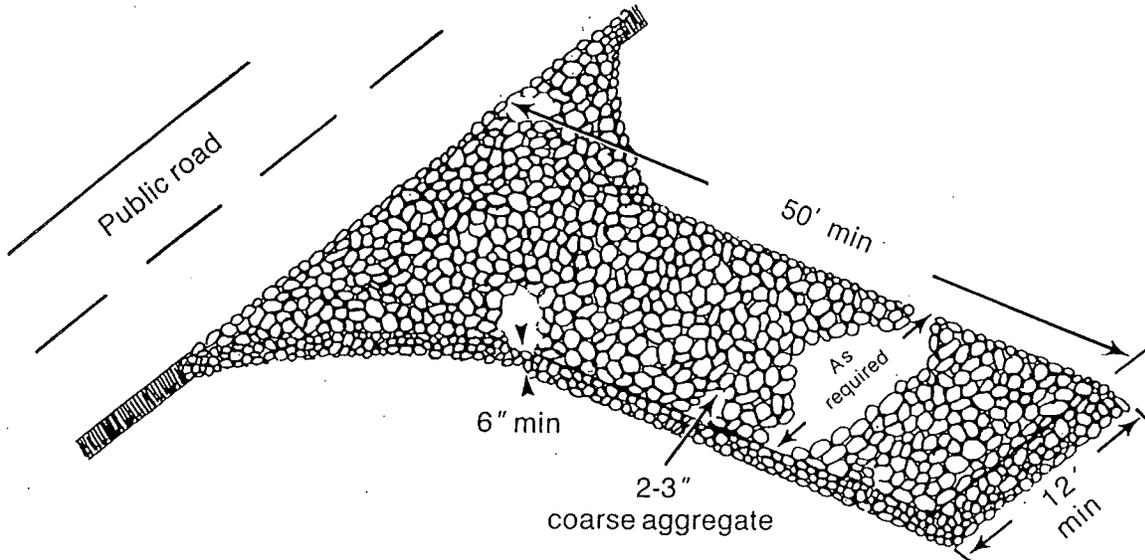
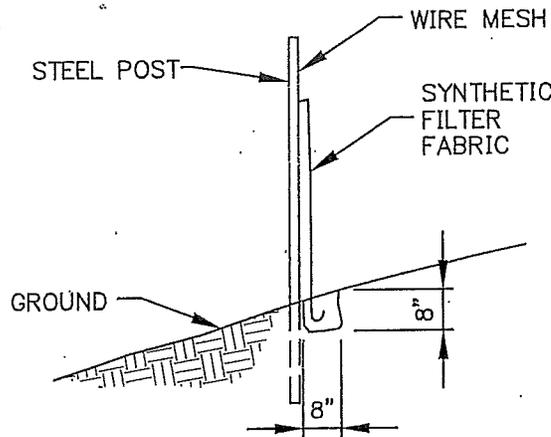
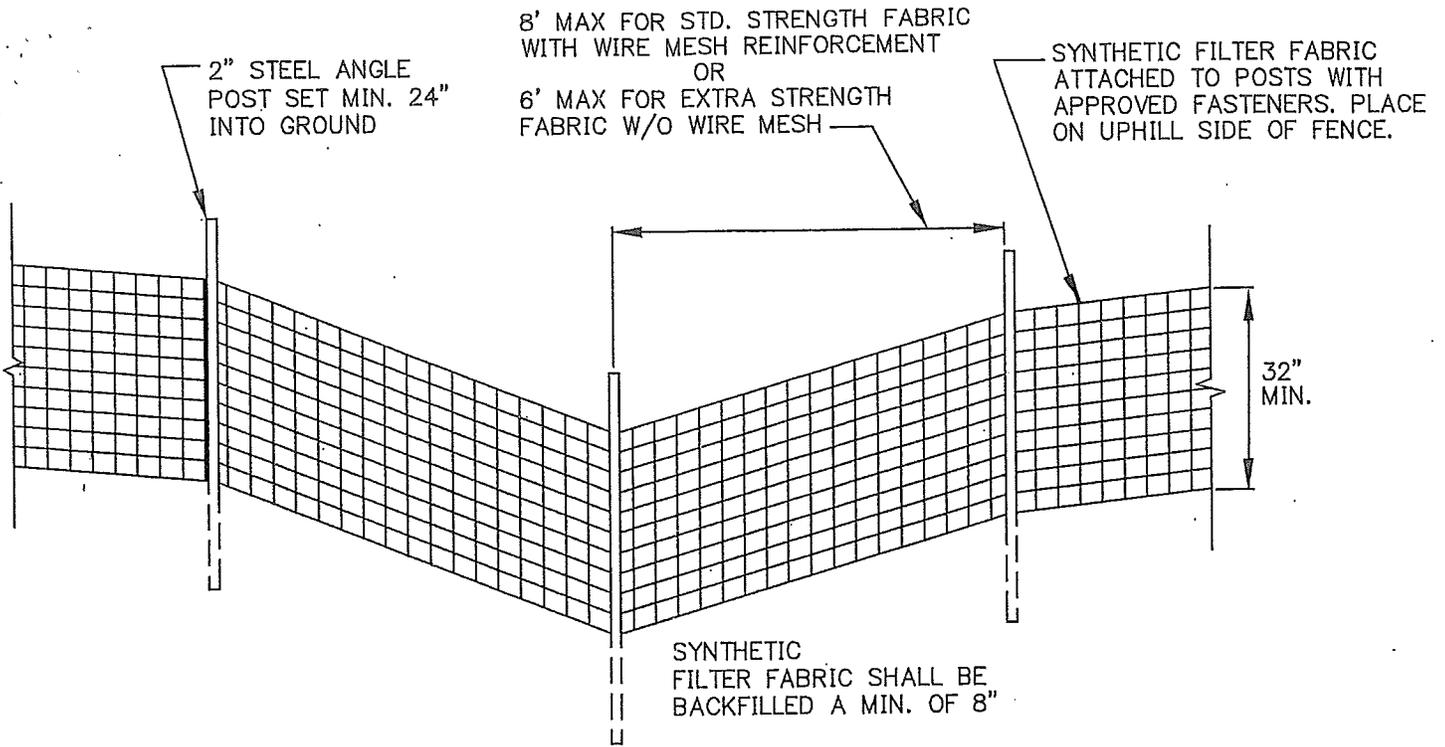


Figure 6.06a Gravel entrance/exit keeps sediment from leaving the construction site (modified from Va SWCC).



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

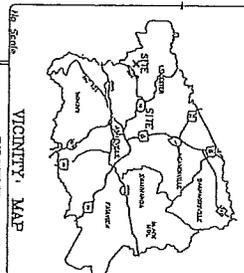
EXAMPLE OF SINGLE FAMILY HOME SITE

(NOT TYPICAL)

WITH TOPOGRAPHY

TRACT 2
P.B. 60 Pg. 69

Line	Bearing	Distance
1	S 14° 17' 00" E	52.05'
2	S 47° 34' 55" E	94.57'
3	S 55° 25' 40" E	74.30'



LEGEND:

- ▲ 1/4" - SURVEY MARK SET OR FOUND
- 1/4" - REAR OR SOLID IRON SET
- 1/4" - EXISTING CONCRETE ANCHOR SET
- 1/4" - CONTROL POINT
- 1/4" - UTILITY POLE
- 1/4" - R.R. - ALL-Road SPINE
- 1/4" - STEEL MARKER
- 1/4" - POINT NOT SET
- 1/4" - FENCE VALVE
- 1/4" - UNDERGROUND POWER TRANSDUCERS
- 1/4" - TELEPHONE FEEDS
- 1/4" - AREA URBAN
- 1/4" - FINE TRIBUTARY
- 1/4" - CREEK OR STREAM
- 1/4" - ROAD
- 1/4" - P.B. 52 P. 63 1398
- 1/4" - P.B. 158 P. 198

TOTAL ACRES: 4.00 AC.

NOTES:

Existing property lines and easements were determined by a survey of the subject property and are shown on this information. This property is not located in a special flood hazard area as determined by FEMA. This survey is subject to any easements, restrictions, rights or other interests which may be shown on any other records filed in the public records of this county and are not shown on this information. Fences shown along boundary lines are shown along with property lines and are not shown on this information. Fences unless otherwise noted.

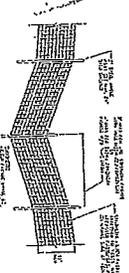
PROPOSED EROSION CONTROL

PIN NUMBER: [REDACTED]
ZONING: OU
6899-08-3484

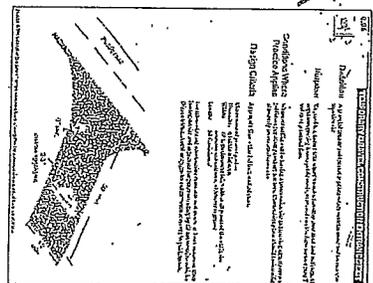
LEICESTER TOWNSHIP
BUNCOMBE COUNTY, N.C.
SCALE: 1" = 150'
DECEMBER 18, 2016

Chipart, Tragle, Aydtors & Associates Inc.
Land Planning
37 N. MARKET ST.
ASHEVILLE, NC
SKYVIEW@CYS
(828) 258-0297

NOTE: ALL ITEMS RELATED TO EROSION CONTROL ARE PROPOSED AND LOCATIONS WERE FURNISHED BY THE OWNER.



Structure	Material	Height	Width	Notes
1	Concrete	4'-0"	12'-0"	...
2	Concrete	4'-0"	12'-0"	...
3	Concrete	4'-0"	12'-0"	...



PROF. SEAL
NORTH CAROLINA
L-3016
M. D. [REDACTED]
Professional Land Surveyor

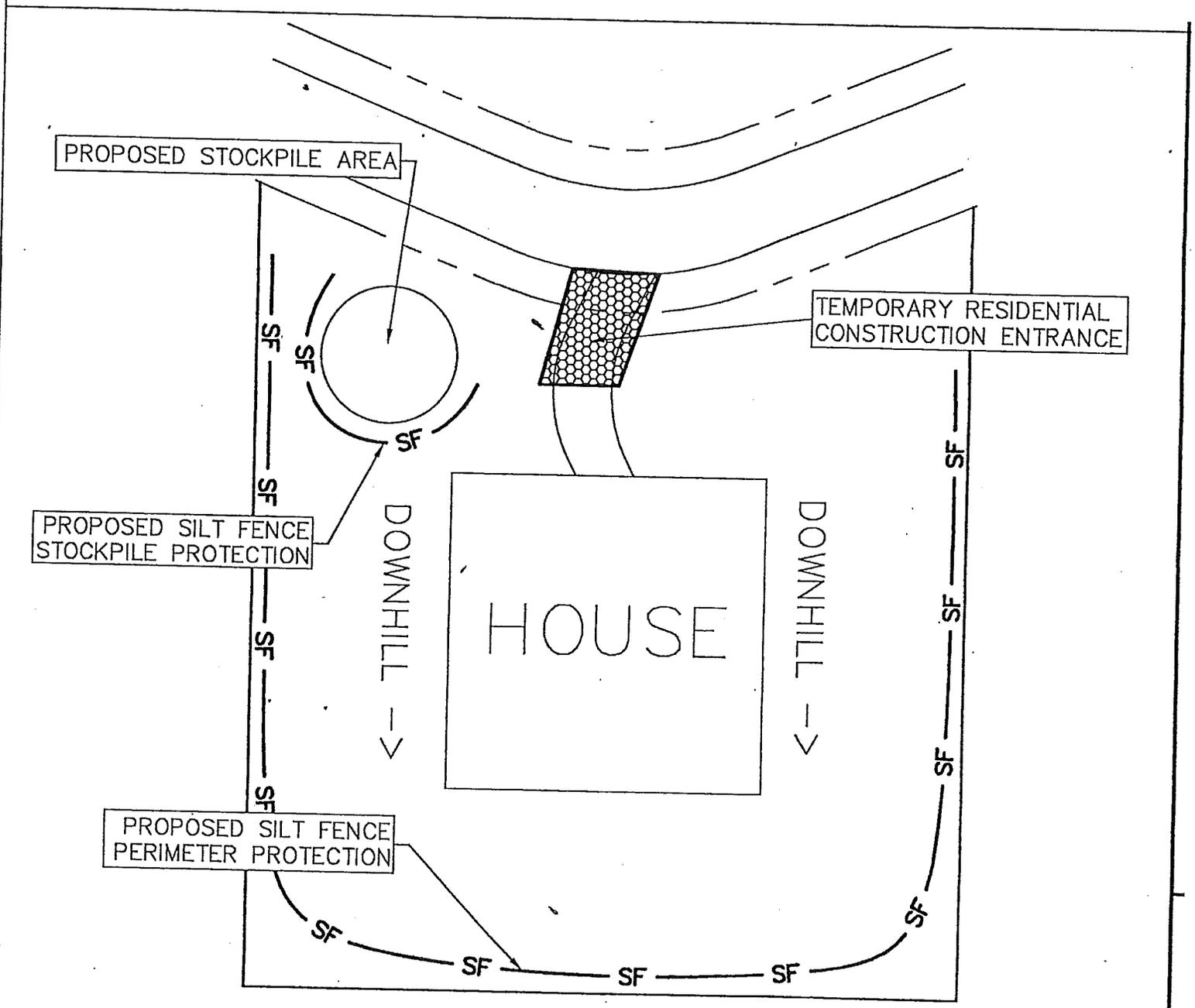
REVISIONS:

Date	Revisions Made	By

JOB # 8886

PROJECT: PROPOSED EROSION CONTROL

The Data Clerk certifies that this plan was drawn under my supervision from an actual survey made and recorded in Book 60 Page 122; that the data from information found in Book 60 Page 122 does not affect the area of production or calculated area of the tract shown on this plan. I have reviewed this plan and certify that it is a true and correct representation of the original survey and that I have signed and registered this plan in accordance with G.S. 87-30 as amended and seal of the State of North Carolina, December 18, 2016.



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TYPICAL HOUSE CONSTRUCTION EROSION CONTROL PLAN

SCALE=