



MACON COUNTY GRADING SPECIFICATIONS

**Macon County
Erosion Control**
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ROAD BUILDING SPECIFICATIONS

(26.801B2) MANDATORY STANDARDS

- **Maximum sustained grades for roads should not exceed -**

--6% for natural soil and grass
--10% for gravel or crushed stone
--16% for paving (asphalt or concrete)

These grades may be increased up to 15% for crushed stone and 20% for pavement for reaches of 200 feet or less where no other alternative exists.

- **Culverts are required in natural drains on all roads. Culverts should be placed every 130-200 feet on all in-sloped roads. Roads should be sloped inward and ditched with check dams (rip-rap and #57 stone) every 20-50 ft depending on the steepness of the roadway. All culverts should have rip-rap inlet and outlet protection basins to slow stormwater flow.**

(26.801F) MANDATORY STANDARDS

- **Prevention of material deposited on public roadways:** Soil material shall be prevented from being deposited on public roadways by the use of mud mats, gravel traps, washing methods, etc.

CUT AND FILL SPECIFICATIONS

(26.801B1) MANDATORY STANDARDS

- The angle for graded slopes and fills shall be no greater than the angle which can be retained by vegetative cover or other adequate erosion control devices or structures.

(26.801B2) MANDATORY STANDARDS

- Generally, unless the following conditions can be met, an approved plan for erosion control and stabilization of the soil is required.
 - a.) All cut slopes will have a minimum finished grade of 1.5:1.
 - b.) All fill slopes will have a minimum finished grade of 2:1

GROUNDCOVER SPECIFICATIONS

(26.801B1) MANDATORY STANDARDS

- In any event, slopes left exposed will, within **21 calendar days** of completion of any phase of grading, be planted or otherwise provided with groundcover, devices, or structures sufficient to restrain erosion.

No matter what the season, groundcover is required within 21 calendar days of any phase of grading.

Adequate groundcover is the most effective way to deal with erosion. Groundcover can be provided in many ways. If you happen to be grading outside of the growing season for grass, place mulch or straw over the exposed areas. As the growing season approaches, remove cover and apply seed and re-apply straw. Below are suggested application rates for adequate groundcover.

1. Tall Fescue or Kentucky 31 – 100 lbs./acre
2. Straw – 80 bales/acre
3. Fertilizer - 1,000 lbs./acre
4. Lime – 4,000 lbs./acre

If you wish to seed in the winter, apply winter rye or crownvetch at 25 lbs./acre.

BUFFER REQUIREMENTS

(26.801A1) MANDATORY STANDARDS

- When operating around any natural watercourse, leave a vegetated buffer along the water to allow site runoff to be trapped and filtered before re-entering the protected watercourse.
- Any NC Trout Stream requires a 25 foot buffer as measured from the top of the bank.