

## CITY OF GREENWOOD, ARKANSAS GRADING AND EROSION CONTROL REGULATIONS

### **Section I. Introduction / Purpose - Grading and Erosion Control Regulations**

- A. During construction and excavation processes, drainage patterns are often altered and soil is highly vulnerable to erosion by wind and water. Improper grading or excavation can concentrate or redirect drainage flow, negatively impacting neighborhoods and increasing soil erosion. Eroded soil endangers water resources by reducing water quality and causing the siltation of aquatic habitat for fish and other desirable species. Eroded soil also necessitates repair and cleaning of sewers, ditches, streams and ponds. In addition, clearing and grading during construction cause the loss of native vegetation necessary for terrestrial and aquatic habitat.
- B. As a result, the purpose of this local regulation is to safeguard persons, protect property, and prevent damage to the environment within the City of Greenwood. This ordinance will also promote the public welfare by guiding, regulating, and controlling the design, construction, use, and maintenance of any development or other activity that disturbs or breaks the topsoil, results in the movement of earth or impacts drainage flow on land in City of Greenwood.

### **Section II. Definitions**

**Department of Planning and Development** - The Department of Planning and Development for the City of Greenwood or its designated representative.

**Clearing** - Any activity that removes the vegetative surface cover.

**Drainage Way** - Any channel that conveys surface runoff throughout the site.

**Erosion Control** - A measure that prevents erosion.

**Erosion and Sediment Control Plan** - A set of plans indicating the specific measures and sequencing to be used to control sediment and erosion on a development site during and after construction.

**Grading** - Excavation or fill of material, including the resulting conditions thereof.

**Perimeter Control** - A barrier that prevents sediment from leaving a site by filtering sediment-laden runoff or diverting it to a sediment trap or basin.

**Phasing** - Clearing a parcel of land in distinct phases, with the stabilization of each phase completed before the clearing of the next.

**Sediment Control** - Measures that prevent eroded sediment from leaving the site.

**Site** - A parcel of land or a contiguous combination thereof, where grading work is performed as a single unified operation.

**Site Development** - A permit issued by the municipality for the construction or alteration of Permit ground improvements and structures for the control of erosion, runoff and grading.

**Stabilization** - The use of practices that prevent exposed soil from eroding.

**Start of Construction** - The first land-disturbing activity associated with a development, including land preparation such as clearing, grading, and filling; installation of streets and walkways; excavation for basements, footings, piers, or foundations; erection of temporary forms; and installation of accessory buildings such as garages.

**Watercourse** - Any body of water, including, but not limited to lakes, ponds, rivers, streams, and bodies of water delineated by the City of Greenwood.

**Waterway** A channel that directs surface runoff to a watercourse or to the public storm drain.

### **Section III. Permits**

- A. It shall be unlawful for any person, firm or corporation to remove any coal, mineral, stone, fill dirt, top soil, or other commercial product from within the corporate limits of the city. Any coal, mineral, fill dirt, top soil, or other commercial product removed from on location within the corporate limits of the City of Greenwood must be utilized at the same site it was removed from or at another site within the corporate limits of the City.
- B. No person shall conduct clearing or grading activity that would require the uncovering of one (1) acre or more without first obtaining a site development permit from the City of Greenwood.
- C. No site development permit is required for the following activities:
  1. Any emergency activity that is immediately necessary for the protection of life, property, or natural resources.
  2. Existing nursery and agricultural operations.
- D. Each application for a site development permit shall bear the name(s) and address of the owner or developer of the site, and the name and contact information of the applicant's authorized representative.
- E. Each application for a site development permit shall include an Erosion and Sediment Control Plan.

- F. A site development permit is required in association with all building permits for new construction. No person shall conduct clearing or grading activity until both the building permit and associated site development permit have been issued by the City of Greenwood. There shall be a \$25.00 Erosion and Sediment Control Plan review fee.

#### **Section IV. Review and approval**

- A. The Department of Planning and Development will receive and review each application for a site development permit to determine its conformance with the provisions of this regulation. Within 7 working days after receiving an application, Department of Planning and Development shall, in writing:
1. Approve the permit application;
  2. Approve the permit application subject to such reasonable conditions as may be necessary to secure substantially the objectives of this regulation, and issue the permit subject to these conditions; or
  3. Disapprove the permit application, indicating the reason(s) and procedure for submitting a revised application and/or submission.
- B. Failure of the Department of Planning and Development to act on an original or revised application within 30 days of receipt shall authorize the applicant to proceed in accordance with the plans as filed unless such time is extended by agreement between the applicant and Department of Planning and Development.

#### **Section V. Erosion and Sediment Control Plan**

- A. The Erosion and Sediment Control Plan shall include the following:
1. A site map at a scale no smaller than 1"=100' showing erosion and sediment control proposed for the site.
  2. A sequence of clearing and grading activities anticipated for construction of the development site. Sequencing shall include the anticipated dates for the start of construction, installation of temporary erosion and sediment control measures, and establishment of permanent vegetation.
  3. Erosion and sediment control measures necessary to meet the objectives of this ordinance that will remain installed and functioning throughout all phases of construction and after completion of development of the site until soil stabilization with permanent vegetation.
  4. Proposed seeding mixtures and rates, types of sod, method of seedbed preparation, expected seeding dates, kind and quantity of mulching for both temporary erosion control and permanent vegetative stabilization.
  5. Provisions for maintenance of control facilities until the site soils are stabilized with permanent vegetation.
- B. Modifications to the plan shall be processed and approved or disapproved in the same manner as Section IV of this ordinance.

#### **Section VI. Design Requirements**

- A. Grading, erosion control practices, sediment control practices, and waterway crossings shall meet the Best Management Practices (BMP) identified by the U.S. Environmental Protection Agency, and shall be adequate to prevent transportation of sediment from

the site to the satisfaction of Department of Planning and Development. Cut and fill slopes shall be no greater than 2:1, except as approved by Department of Planning and Development to meet other community or environmental objectives.

- B. Clearing and grading of natural resources, such as forests and wetlands, shall not be permitted, except when in compliance with this ordinance, state and federal law. Site grading must meet the following requirements:
  - 1. The site must drain away from all buildings and toward the city's street or a dedicated drainage ditch.
  - 2. The site should be graded to provide a minimum of 6" of fall in 10 feet away from building foundations.
  - 3. Drainage should be directed away from adjacent lots to the maximum extent possible.
  
- C. Clearing, except that necessary to establish sediment control devices, shall not begin until all sediment control measures have been installed in accordance with the requirements of the site development permit.
  
- D. Phasing shall be required on all sites disturbing greater than 30 acres, with the size of each phase to be established at plan review and as approved by Department of Planning and Development.
  
- E. Erosion control requirements shall include the following:
  - 1. Soil stabilization shall be completed within one week of clearing or inactivity in construction.
  - 2. If seeding or other vegetative erosion control method is used, it shall become established within two weeks or the Department of Planning and Development may require that the site to be reseeded and / or mulch to stabilize the site.
  - 3. Special techniques that meet the BMP on steep slopes or in drainage ways shall be used to ensure stabilization.
  - 4. Soil stockpiles must be stabilized when inactive for periods longer than 2 weeks.
  - 5. The entire site must be stabilized by seeding and mulching when site grading is complete. The Department of Planning and Development may require stabilization of any part of the site that will remain inactive for longer than 2 weeks or when an erosion problem is identified.
  - 6. Techniques that divert upland runoff past disturbed slopes shall be employed.
  
- F. Sediment controls requirements shall include:
  - 1. Settling basins, sediment traps, and perimeter controls.
  - 2. Settling basins that are designed in a manner that allows adaptation to provide long-term storm water management, if required by Department of Planning and Development.
  - 3. Protection for adjacent properties by the use of a vegetated buffer strip in combination with perimeter controls.
  
- G. Waterway and watercourse protection requirements shall include:
  - 1. A temporary stream crossing if a wet watercourse will be crossed regularly during construction.
  - 2. Stabilization of the watercourse channel after any in-channel work

3. All on-site storm water conveyance channels must be designed in accordance with the Greenwood Minimum Drainage Standards.
  4. Stabilization adequate to prevent erosion located at the outlets of all pipes and paved channels.
- H. Construction site access requirements shall include:
1. A temporary access road provided at all sites.
  2. Other measures required by Department of Planning and Development in order to ensure that sediment is not washed into storm drains and construction vehicles do not track sediment onto public streets.

### **Section VII. Inspection**

- A. Department of Planning and Development shall have full access to the site for inspections to insure compliance with the approved Erosion and Sediment Control Plan.
- B. A copy of the site development permit and approved Erosion and Sediment Control Plan shall be maintained at the site throughout site development.
- C. The permit holder or his/her representative shall make regular inspections of all control measures to insure compliance with the approved Erosion and Sediment Control Plan(s). The purpose of such inspections will be to determine the overall effectiveness of the control plan and the need for additional control measures. All inspections and inspection dates shall be documented in written form and available on site for review by the Department of Planning and Development.

### **Section VIII. Enforcement**

- A. Stop-Work Order; Revocation of Permit  
In the event that any person holding a site development permit pursuant to this ordinance violates the terms of the permit or this ordinance the Department of Planning and Development may suspend or revoke the site development permit and any associated building or development permits.
- B. Violation and Penalties  
No person shall construct, enlarge, alter, repair, or maintain any grading, excavation, or fill, or cause the same to be done, contrary to or in violation of any terms of this ordinance. Any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and each day during which any violation of any of the provisions of this ordinance is committed, continued, or permitted, shall constitute a separate offense. Upon conviction of any such violation, such person, partnership, or corporation shall be punished by a fine of not more than \$250.00 for each offense. In addition to any other penalty authorized by this section, any person, partnership, or corporation convicted of violating any of the provisions of this ordinance shall be required to bear the expense of such restoration.

### **Section IX. Separability**

- C. The provisions and sections of this ordinance shall be deemed to be separable, and the invalidity of any portion of this ordinance shall not affect the validity of the remainder.