

A RESOLUTION SETTING A PUBLIC HEARING ON AN ORDINANCE AMENDING  
THE CARRBORO LAND USE ORDINANCE AS REQUIRED BY JORDAN LAKE NEW  
DEVELOPMENT STORMWATER RULE  
Resolution No. 157/2011-12

WHEREAS, the North Carolina General Assembly, Environmental Management Commission and Division of Water Quality have adopted and are implementing rules to limit nitrogen and phosphorus inputs to Jordan Lake, and

WHEREAS, these Rules adopted for Jordan Lake require local governments to develop and enforce local ordinances to limit phosphorus and nitrogen from new development, and

WHEREAS, the Carrboro Board of Aldermen seeks to provide ample opportunities for the public to consider modifications to existing policies and regulations;

NOW, THEREFORE BE IT RESOLVED that the Board of Aldermen calls a public hearing on June 26, 2012 to consider adopting "AN ORDINANCE AMENDING THE CARRBORO LAND USE ORDINANCE TO BRING THE ORDINANCE INTO COMPLIANCE WITH THE JORDAN RULES RELATING TO NEW DEVELOPMENT";

BE IT FURTHER RESOLVED that the draft ordinance is referred to Orange County for review per the Joint Planning Agreement and to the Town of Carrboro Planning Board for its recommendations.

BE IT FURTHER RESOLVED that the draft ordinance is also referred to the following advisory boards and commissions for consideration and recommendation prior to the specified public hearing date:

- |  |  |
|--|--|
| <input type="checkbox"/> Appearance Commission                   | <input type="checkbox"/> Recreation and Parks Commission             |
| <input type="checkbox"/> Transportation Advisory Board           | <input type="checkbox"/> Northern Transition Area Advisory Committee |
| <input checked="" type="checkbox"/> Environmental Advisory Board | <input type="checkbox"/> _____                                       |
| <input type="checkbox"/> Economic Sustainability Commission      | <input type="checkbox"/> _____                                       |

This is the 15<sup>th</sup> day of May in the year 2012.

AN ORDINANCE AMENDING THE CARRBORO LAND USE ORDINANCE TO BRING  
THE ORDINANCE INTO COMPLIANCE WITH THE JORDAN RULES RELATING TO  
NEW DEVELOPMENT

THE BOARD OF ALDERMEN OF THE TOWN OF CARRBORO ORDAINS:

Section 1. Section 15-263 of the Carrboro Land Use Ordinance, entitled "Management of Stormwater," is amended to read as follows:

- (a) The requirements of this section shall apply to developments to the extent provided in this subsection.
- (1) For purposes of this subsection, "impervious surface" means that portion of the development of a lot or tract that is covered by a surface or material that substantially or completely prevents rainwater from reaching and being absorbed into the underlying soil. Impervious surfaces include but are not limited to streets, driveways, sidewalks, parking lots, buildings, and other roofed, paved, or graveled areas. Wooden slatted decks and the water area of swimming pools are considered pervious, as are ponds.
  - (2) For purposes of this subsection, "net addition of impervious surface" shall be determined by subtracting the total square footage of impervious surface prior to commencement of construction authorized by a development permit from the total square footage of impervious that is proposed to be located on the development site when all construction authorized by the development permit (including all phases thereof) is completed. If the permit issuing authority reasonably concludes that a permit applicant is seeking or has sought separate permits (simultaneously or sequentially) for different components of what is demonstrably intended to be a single development in an attempt to stay below the impervious surface threshold that triggers the requirements set forth in this section, then the permit issuing authority shall treat such multiple applications as a single application for purposes of determining whether the requirements of this section are applicable.
  - (3) All unsubdivided developments that involve a net addition of more than 5,000 square feet of impervious surface shall be subject to the requirements of this section, except that these requirements shall not apply if the total of the net addition of impervious surface area plus the previously existing impervious surface area on the lot does not exceed (i) six percent (6%) of the lot area within a B-5 or WM-3 zoning district, or (ii) for lots in all other zoning districts, the amount of impervious surface area permissible on lots within the C or WR zoning districts under subsection 15-266(b) of this part.
  - (4) When land is subdivided, and the permit authorizing the subdivision does not itself authorize the net addition of more than 5,000 square feet of impervious surface to the tract to be subdivided, then the requirements of this section shall not be applicable to the subdivision. The applicability of the requirements of this section

to each of the individual lots so created shall then be determined as development permits are issued for each such lot.

- (5) When land is subdivided, and the permit authorizing the subdivision itself authorizes the net addition of more than 5,000 square feet of impervious surface to the tract to be subdivided (regardless of whether such impervious surface consists of a road or other facilities external to the lots so created, or buildings, parking lots, and other facilities constructed within the lots so created, or a combination of the two), then the subdivision shall comply with the requirements of this section. Furthermore, the stormwater management system that is installed to comply with the provisions of this section shall be required to take into account all the stormwater reasonably expected to be generated by the development (according to generally accepted engineering standards) when all subdivided lots five acres or less in size are fully developed. When such lots are subsequently developed, they shall be exempt from further review under the provisions of this section. However, any lot within such subdivision that is greater than five acres in size and that was not included in the stormwater calculations for purposes of designing a stormwater management system that satisfies the requirements of this section shall be required to comply with the requirements of this section at the time such lot is developed, if and to the extent required to do so under subsection (a)(3) of this section.
- (6) Notwithstanding the other provisions of this subsection, if (i) a lot is within a commercial district described in Section 15-136 or a manufacturing district described in 15-137, (ii) on the date that a development permit application is submitted and the fees paid the lot is already developed to the extent that the lot contains at least 10,000 square feet of impervious surface area, and (iii) the reasonably estimated cost of the redevelopment of the lot as proposed in the development permit application exceeds the greater of \$100,000, or fifty percent (50%) of the appraised value of the existing improvements on the lot, then the requirements of this section shall be applicable to such redevelopment. For purposes of this subdivision (a)(6), the terms "cost" and "appraised value" shall have the same meaning as provided in Subsection 15-125(c) of this chapter.
- (7) Notwithstanding the other provisions of this subsection, the requirements of this section shall apply to any development involving the reconstruction of a previously paved area comprising at least 10,000 square feet (repaving or resurfacing shall not be considered reconstruction).
- (8) Notwithstanding the other provisions of this subsection (but subject to the provisions of subsection (a)(8)f below), the requirements of this section shall apply to all proposed new development that cumulatively disturbs one acre or more for single family and duplex residential property and recreational facilities, and one-half acre for commercial, industrial, institutional, multifamily residential, or local government property. For purposes of this subsection (a)(8) only:

- a. Development means any land disturbing activity which adds to or changes the amount of impervious or partially impervious cover on a land area or which otherwise decreases the infiltration of precipitation into the soil.
- b. New development means any development project that does not meet the definition of existing development set forth immediately below.
- c. Existing development means development not otherwise exempted from the provisions of this section that meets one of the following criteria: (i) it either is built or has established a vested right based on statutory or common law grounds as of the effective date of this section, or (ii) it occurs after the effective date of this section but does not result in a net increase in impervious surface area and does not increase the infiltration of precipitation into the soil.
- d. Land disturbing activity means any use of the land that results in a change in the natural cover or topography that may cause or contribute to sedimentation.
- e. Larger common plan of development or sale means any area where multiple separate and distinct construction or land-disturbing activities will occur under one plan. A plan is any announcement or piece of documentation (including but not limited to a sign, public notice or hearing, sales pitch, advertisement, loan application, drawing, permit application, zoning request, or computer design) or physical demarcation (including but not limited to boundary signs, lot stakes, or surveyor markings) indicating that construction activities may occur on a specific plot.
- f. ***Redevelopment means any development on previously developed land.***

(b) Developments must install and maintain stormwater management systems that will control and treat runoff from the first one inch of rain as follows:

- (1) Draw down the treatment volume in accordance with the requirements of the North Carolina Division of Water Quality Best Management Practices (NC DWQ BMP Manual).
- (2) Achieve an eighty-five percent (85%) average annual removal rate for Total Suspended Solids.

(c) Subject to subsections (d) and (f), developments must install and maintain stormwater management systems that ensure that the nutrient load contributed by the development is limited to not more than 2.2 pounds per acre per year of nitrogen and 0.82 pounds per acre per year of phosphorus.

(d) Subject to subsection (f), developments that (i) would otherwise be required under subsection (a) to comply with the stormwater treatment standards set forth in subsection (c), and (ii) involve the replacement or expansion of existing structures or improvements, shall have the option of either satisfying the requirements of subsection (c) of this section or achieving a thirty-

five percent (35%) nitrogen and five percent (5%) phosphorous reduction in the loading rates for these nutrients when comparing the situation that exists on the date a completed application is submitted to the post redevelopment situation for the entire project site.

(e) The need for engineered stormwater controls to meet the nutrient loading rate standards set forth in subsections (c) and (d) shall be determined by using the loading calculation methods and other standards established by the Division of Water Quality as set forth in Sub-Item (4)(a) of 15A NCAC 2B.0265, including the current version of the Stormwater Best Management Practices Manual published by the Division.

(f) Developers shall have the option of offsetting part of their nitrogen and phosphorus loads by implementing or funding offsite management measures as follows:

- (1) Before using offsite offset options, a development shall attain a maximum nitrogen loading rate on-site of six pounds per acre per year for single-family detached and duplex residential development and ten pounds per acre per year for other development, including multi-family residential, commercial and industrial, and shall meet any requirement for engineered stormwater controls required by this Article.
- (2) Offsite offsetting measures shall achieve at least equivalent reductions in nitrogen and phosphorus loading to the remaining reduction needed onsite to comply with the loading rate standards set forth in subsection (c) of this section.
- (3) A developer may make offset payments to the N.C. Ecosystem Enhancement Program contingent upon acceptance of payments by that Program. A developer may use an offset option provided by the Town of Carrboro, or may propose other offset measures including providing the developer's own offsite offset or utilizing a private seller. All offset measures shall meet the requirements of 15A NCAC 02B.0273(2) through (4) and 15A NCAC 02B.0240.

(g) Developments shall be constructed and maintained so that their stormwater management systems meet the following minimum standards:

(1) The post-development discharge rates shall be less than or equal to the pre-development discharge rates for the 1-, 2-, 5-, 10-, and 25-year 24-hour design storms.

(2) For upstream properties, the 1% chance flood elevation may not be increased.

(h) The presumption established by this section is that, to satisfy the standards set forth herein, the applicant shall design and construct all stormwater management systems required by this section in accordance with the guidelines set forth in the Town of Carrboro Storm Drainage Design Manual (Appendix I to this chapter). However, the permit issuing authority may establish different requirements when it concludes, based upon (i) the information it receives in the consideration of the specific development proposal, and (ii) the recommendations of the public works director or the town engineer, that such deviations from the presumptive guidelines are necessary to satisfy the standards set forth in this section, or that the standards can still be met with such deviations and the deviations are otherwise warranted.

(i) Approval by the town of an applicant's stormwater management plans, and construction by the applicant of the stormwater management systems as shown in such plans, shall not relieve the applicant of the responsibility of complying with the standards set forth in this section. If at any time prior to two years following the issuance of a certificate of occupancy, for an unsubdivided development, or the approval of a final plat, for a subdivision, the town determines that the stormwater management systems planned to be installed or actually installed to meet the requirements of this section do not achieve that objective, the town may require the submission of revised plans and the installation of new, altered, or additional facilities to bring the development into compliance. Prior to issuance of a certificate of occupancy or approval of a final plat, the town may require the applicant to post a performance bond or other sufficient surety to guarantee compliance with this section.

(j) Upon completion of construction of the stormwater management facilities, the permit recipient shall submit to the town "as built" plans for all such facilities in the form required by the town. Compliance with this requirement must occur prior to issuance of a certificate of occupancy, or prior to final plat approval (if applicable), unless adequate security is otherwise provided in accordance with the provisions of Sections 15-53 or 15-60.

(k) Proposed new development undertaken by the Town solely as a public road project shall be deemed compliant with the provisions of this section if it meets the buffer protection requirements of Part III of this Article. All other developments shall comply with both the requirements of this section and the provisions of Part III of this Article.

(l) Variances from the provisions of this section may only be granted in accordance with the requirements of Section 15-92, including subsection (l) of that section.

Section 2. Section 15-92 of the Land Use Ordinance is amended by adding a new subsection (l) to read as follows:

(l) If the board votes to grant a major variance from the provisions of Section 15-263, the board shall then prepare a preliminary record of the hearing and submit it to the Environmental Management Commission for review and approval. If the Commission approves the major variance or approves with conditions or stipulations added, then the Commission shall

prepare a Commission decision which authorizes the board to issue a final decision which would include any conditions or stipulations added by the Commission. If the Commission denies the major variance, then the Commission shall prepare a Commission decision to be sent to the board. The board shall prepare a final decision denying the major variance. For all proposed major and minor variances from the provisions of Section 15-263, the town shall notify and allow a reasonable comment period for all other local governments having jurisdiction within the Jordan Lake Watershed Area and any local governments using Jordan Lake as a water supply for consumption. Appeals from a board decision on a major or minor variance request are made on certiorari to the local Superior Court. Appeals from the Commission decision on a major variance request are made on judicial review to Superior Court. For purposes of this subsection, a major variance is one that authorizes a relaxation by more than five percent of any requirement set forth in Section 15-263.

Section 3. Article XI of the Carrboro Land Use Ordinance is amended by adding Section 15-179.1 to read as follows (the substance of this section is transferred from pre-existing Subsection 15-263(b)(3)):

**Section 15-179.1 Day Care Uses Within Village Mixed Use Developments.**

All 22.000 (Day Care) uses that are located within the single family residential use areas of a village mixed use development shall install and maintain site development and/or building features to ensure that the environmental impact, including but not limited to storm water volume, nutrient loading, water use or greenhouse gas emissions, contributed by the development activity is managed and/or reduced through a combination of features and practices that will result in an overall reduction in environmental impact from that which otherwise could reasonably be expected to occur in association with development of the 22.000 use. Specific performance measures that will be evaluated to determine whether the intent of this subsection has been met are as follows:

- (1) Open space, if practicable, is dedicated to either the homeowners association or the town, and
- (2) Storm water best management practices (BMPs) and associated grading and stabilization occur outside any primary conservation areas, and all runoff from the BMPs is discharged in a diffuse manner that insures that erosional rills will not be created as runoff enters and flows through conservation areas; and
- (3) Roof drainage is captured in sufficient quantity and in appropriately sized and sited devices to provide at a minimum for all on-site plantings, including but not be limited to screenings, vehicle accommodation areas, foundation plantings, garden beds, trees, shrubs, flowers, groundcover, and turf, and
- (4) Nutrient load requirements may be met (i) by storm water management structures or devices on the development site itself and/or (ii) the retrofitting of existing or construction of new BMPs elsewhere in the VMU development, and
- (5) Educational materials including, but not limited to on-site signage, brochures, and web postings on stormwater management practices are prepared and/or installed, and

- (6) Low Impact Development techniques are used to the extent practicable

Section 4. Section 15-2 (Authority) of the Carrboro Land Use Ordinance is amended to read as follows:

This chapter is adopted pursuant to the authority contained in Article 19 of G.S. Chapter 160A; Article 21 (Part 6) of G.S. Chapter 143; G.S. 143-215.6A; G.S. 143-214.5; Article 4 of G.S. Chapter 113A; as well as Chapter 527 of the Session Laws of 1953; Chapters 122 and 136 of the Session Laws of 1963; Chapter 260 of the Session Laws of 1977; Chapter 753 of the Session Laws of 1979; Chapters 233 and 476 of the 1987 Session Laws; Chapters 216 and 484 of the 2009 Session Laws; and other state and local laws.

Section 5. Chapter 1 of the Carrboro Land Use Ordinance is amended by adding a new Section 15-9 to read as follows:

**Section 15-9 Stricter Regulation Controls**

The requirements of this chapter are in addition to the requirements of any other ordinance, rule, regulation or other provision of law. Where any provision of this chapter imposes restrictions different from those imposed by any other ordinance, rule, regulation or other provision of law, whichever provision is more restrictive or imposes higher protective standards for human or environmental health, safety, and welfare shall control.

Section 6. Section 15-263.1 of the Carrboro Land Use Ordinance (Maintenance of Structural BMPs) is amended by adding new subsections (g) and (h) as follows:

(g) If a structural BMP is located within a subdivision, then the recorded plat of such subdivision shall include a reference to the book and page number where the Operation and Maintenance Agreement is recorded.

(h) Where appropriate in the determination of the Administrator to assure compliance with this section, structural BMPs shall be posted with a conspicuous sign stating who is responsible for required maintenance and annual inspection. The sign shall be maintained so as to remain visible and legible.

Section 7. Section 15-272 of the Carrboro Land Use Ordinance (Signs Excluded from Regulation) is amended by adding a new subsection (12) as follows:

(12) Signs posted near structural BMPs to comply with Subsection 15-263.1(h) that do not exceed four square feet.

Section 7. All provisions of any town ordinance in conflict with this ordinance are repealed.