CRANBURY TOWNSHIP ORDINANCE NO. 02-24-04

AN ORDINANCE OF THE TOWNSHIP OF CRANBURY AMENDING AND SUPPLEMENTING THE SITE PLAN AND SUBDIVISION STANDARDS CONTAINED IN ARTICLE V OF CHAPTER 150 ENTITLED "LAND DEVELOPMENT ORDINANCE OF CRANBURY TOWNSHIP" OF THE CODE OF THE TOWNSHIP OF CRANBURY RELATING TO SEC. 150-61 STORMWATER MANAGEMENT

BE IT ORDAINED by the Township Committee of the Township of Cranbury in the County of Middlesex, State of New Jersey that the following amendments shall be made to Chapter 150 of the Land Development Ordinance of the Township of Cranbury to amend certain provisions of the stormwater management standards, specifically, Section 150-61E "Calculation of stormwater runoff and groundwater recharge", as follows (language marked ~~thus~~ signifies deletions and language marked <u>thus</u> is new language):

SECTION 1. Section 150-61E Calculation of stormwater runoff and groundwater recharge.

(1) Stormwater runoff shall be calculated in accordance with the following:

(a) The design engineer shall calculate runoff using one of the following methods:

[1] USDA Natural Resources Conservation Service (NRCS) methodology, including the NRCS Runoff Equation and Dimensionless Unit Hydrograph, as described in Chapters 7, 9, 10,15 and 16, Part 630, Hydrology National Engineering Handbook, incorporated herein by reference as amended and supplemented. This methodology is additionally described in Technical Release 55-Urban Hydrology for Small Watersheds (TR-55), dated June 1986, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from the Natural Resources Conservation Service website at https://www.nrcs.usda.gov/Internet /FSE_DOCUMENTS/stelprb10441 71.pdf; or, at United States Department of Agriculture Natural Resources Conservation Service, 220 Davison Avenue, Somerset, New Jersey 08873; or

[2] The Rational Method for peak flow and the Modified Rational Method for hydrograph computations. The rational and modified rational methods are described in "Appendix A-9 Modified Rational Method" in the Standards for Soil Erosion and Sediment Control in New Jersey, January 2014. This document is available from the State Soil Conservation Committee or any of the Soil Conservation Districts listed at N.J.A.C. 2:90-1.3(a)3. The location, address, and telephone number for each Soil Conservation District is available from the State Soil Conservation Committee, P.O Box 330, Trenton, New Jersey 08625. The document is also available at http://www.nj.gov/agriculture/divisions/anr/pdf/2014NJSoilErosionControlStandardsComplete.pdf.

(b) For the purpose of calculating runoff coefficients and groundwater recharge, there is a presumption that the preconstruction condition of a site or portion thereof is a wooded land use with good hydrologic condition. The term "runoff coefficient" applies to both the NRCS methodology above at Subsection **E(1)(a)[1]** and the Rational and Modified Rational Methods at Subsection **E(1)(a)[2].** ~~A runoff coefficient or a groundwater recharge land cover for an existing condition may be used on all or a portion of the site if the design engineer verifies that the hydrologic condition has existed on the site or portion of the site for at least five years without interruption prior to the time of the application. If more than one land cover has existed on the site during the five years immediately prior to the time of application, the land cover with the lowest runoff potential shall be used for the computations~~. In addition, there is presumptionthat the site is in good hydrologic condition (if the land use type is pasture, lawn, or park), with good cover (if the land use type is woods), or with good hydrologic condition and conservation treatment (if the land use type is cultivation).

(c) In computing preconstruction stormwater runoff , the design engineer shall account for all significant land features and structures, such as ponds, wetlands, depressions, hedgerows, or culverts, that may reduce preconstruction stormwater runoff rates and volumes.

(d) In computing stormwater runoff from all design storms, the design engineer shall consider the relative stormwater runoff rates and/or volumes of pervious and impervious surfaces separately to accurately to compute the rates and volume of stormwater runoff from the site. To calculate runoff from unconnected impervious cover, urban impervious area modifications as described in the NRCS Technical Release 55 - Urban Hydrology for Small Watersheds or other methods may be employed.

(e) If the invert of the outlet structure of a stormwater management measure is below the flood hazard design flood elevation as defined at N.J.A.C. 7:13, the design engineer shall take into account the effects of tailwater in the design of structural stormwater management measures.

(2) Groundwater recharge may be calculated in accordance with the following:

(a) The New Jersey Geological Survey Report GSR-32, A Method for Evaluating Groundater-Recharge Areas in New Jersey, incorporated herein by reference as amended and supplemented. Information regarding the methodology is available from the New Jersey Stormwater Best Management Practices Manual; at the New Jersey Geological Survey Website at https://www.nj.gov/dep/njgs/pricelst/gsreport/gsr32.pdf; or at New Jersey Geological and Water Survey, 29 Arctic Parkway, PO Box 420 Mail Code 29-01, Trenton, New Jersey 08625-0420.

SECTION 2. All other language not specifically changed by this ordinance amendment shall remain in full force and effect.

SECTION 3. All ordinances or parts of ordinances inconsistent with this Ordinance are hereby repealed to the extent of such inconsistency.

SECTION 4. If the provision of any article, section, subsection, paragraph, subdivision or clause of this ordinance shall be adjudged by a court of competent jurisdiction to be invalid, such order or judgment shall not affect, impair or invalidate the remainder of any such article, section, subsection, paragraph, subdivision or clause and, to this end, the provisions of this ordinance are hereby declared to be severable.

SECTION 5. This ordinance shall take effect immediately upon final passage and publication in accordance with law and upon filing with the Middlesex County Planning Board.

The ordinance published herewith was introduced and passed upon first reading at a meeting of the governing body of the Township of Cranbury, in the County of Middlesex, State of New Jersey, held on February 26, 2024. It will be further considered for final passage, after public hearing thereon, at a meeting of the governing body to be held in the meeting room of Town Hall, 23-A North Main Street, in the Township of Cranbury on March 11, 2024 at 7:00 P.M., and during the week prior to and up to and including the date of such meeting, copies of said ordinance will be made available at the Clerk's Office to the members of the general public who shall request the same.

Debra A Rubin
Debra A Rubin, RMC
Township Clerk