

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

1ST READING MARCH 2, 2021

DATE TO MAYOR \_\_\_\_\_

2ND READING & PUBLIC HEARING MAR 16, 2021

DATE RESUBMITTED TO COUNCIL \_\_\_\_\_

WITHDRAWN \_\_\_\_\_ LOST \_\_\_\_\_

DATE EFFECTIVE \_\_\_\_\_

APPROVED AS TO FORM AND LEGALITY

FACTUAL CONTENTS CERTIFIED TO BY

\_\_\_\_\_  
TOWNSHIP ATTORNEY

\_\_\_\_\_  
TITLE

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

*Be It Ordained* by the Council of the Township of Hamilton, in the County of Mercer and State of New Jersey, that the *Code of the Township of Hamilton, New Jersey, Part III, Land Use Legislation, Chapter 577, Stormwater Control*, as amended and supplemented, be further amended and supplemented as follows:

**CHAPTER 577 – STORMWATER CONTROL**

**§ 577-1 Scope and purpose.**

- A. Policy statement. [Flood control, groundwater recharge and pollutant reduction through nonstructural or low-impact techniques shall be explored before relying on structural best management practices (BMPs). Structural BMPs should be integrated with nonstructural stormwater management strategies and proper maintenance plans. Nonstructural strategies include both environmentally sensitive site design and source controls that prevent pollutants from being placed on the site or from being exposed to stormwater. Source control plans should be developed based upon physical site conditions and the origin, nature and the anticipated quantity or amount of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity and groundwater recharge.] Flood control, groundwater recharge, and pollutant reduction shall be achieved through the use of stormwater management measures, including green infrastructure Best Management Practices (GI BMPs) and nonstructural stormwater management strategies. GI BMPs and low impact development (LID) should be utilized to meet the goal of maintaining natural hydrology to reduce stormwater runoff volume, reduce erosion, encourage infiltration and groundwater recharge, and reduce pollution. GI BMPs and LID should be developed based upon physical site conditions and the origin, nature and the anticipated quantity, or amount, of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge.
- B. Purpose. It is the purpose of this chapter to establish minimum stormwater management requirements and controls for "major development," as defined in § 577-2, and to:
- (1) Establish standards and regulations for the management and discharge of stormwater runoff from land development projects and other construction activities;
  - (2) Reduce artificially induced flood damage to public health, life and property;
  - (3) Minimize increased stormwater runoff rates and volumes;
  - (4) Minimize the deterioration of existing watercourses, culverts, bridges, dams and other

**EXPLANATION:** Matter underlined **thus** in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

structures that would result from increased rates of stormwater runoff;

- (5) Induce water recharge into the ground wherever suitable infiltration, soil permeability and favorable geological conditions exist;
- (6) Prevent an increase in nonpoint source pollution;
- (7) Maintain the integrity and stability of stream channels for their biological functions, as well as for drainage, the conveyance of floodwater, and other purposes;
- (8) Control and minimize soil erosion and the transport of sediment;
- (9) Reduce stormwater runoff rates and volumes, and nonpoint source pollution;
- (10) Minimize public safety hazards at any stormwater detention facility constructed pursuant to subdivision or site plan approval;
- (11) Maintain high water quality in all streams and other surface water bodies;
- (12) Protect all surface water resources from degradation; and
- (13) Protect groundwater resources from degradation.

C. Applicability.

- (1) This chapter shall be applicable to [all site plans and subdivisions for] the following major developments:
  - (a) Nonresidential major developments; and
  - (b) [Aspects of] All residential major developments [that are not preempted by the Residential Site Improvement Standards at N.J.A.C. 5:21].
  - (c) All redevelopment that satisfies the definition of major development.
- (2) This chapter shall also be applicable to all major developments undertaken by the Township of Hamilton [in Mercer County, New Jersey].

D. Compatibility with other permit and ordinance requirements. [Development approvals issued for subdivisions and site plans pursuant to this chapter are to be considered an integral part of development approvals under the subdivision and site plan review process and do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act or ordinance. In their interpretation and application, the provisions of this chapter shall be held to be the minimum requirements for the promotion of the public health, safety and general welfare.] Development approvals issued pursuant to this chapter are to be considered an integral part of development approvals and do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act, or ordinance. In their interpretation and application, the provisions of this ordinance shall be held to be the minimum requirements for the promotion of the public health, safety, and general welfare.

This chapter is not intended to interfere with, abrogate or annul any other ordinances, rule or regulation, statute or other provision of law, except that, where any provision of this chapter imposes restrictions different from those imposed by any other ordinance, rule or regulation, or

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

other provision of law, the more restrictive provisions or higher standards shall control.

**§ 577-2 Definitions.**

[Unless specifically defined below, words or phrases used in this chapter shall be interpreted so as to give them the meaning they have in common usage and to give this chapter its most reasonable application. The definitions below are the same as or based on the corresponding definitions in the stormwater management rules at N.J.A.C. 7:8-1.2.] For the purpose of this Chapter, the following terms, phrases, words and their derivations shall have the meanings stated herein unless their use in the text of this Chapter clearly demonstrates a different meaning. When not inconsistent with the context, words used in the present tense include the future, words used in the plural number include the singular number, and words used in the singular number include the plural number. The word "shall" is always mandatory and not merely directory. The definitions below are the same as or based on the corresponding definitions in the Stormwater Management Rules at N.J.A.C. 7:8-1.2.

**[CAFRA PLANNING MAP**

The geographic depiction of the boundaries for Coastal Planning Areas, CAFRA Centers, CAFRA Cores and CAFRA Nodes pursuant to N.J.A.C. 7:7-13.]

**[CAFRA CENTERS, CORES or NODES**

Those areas within boundaries accepted by the Department pursuant to N.J.A.C. 7:7-13.16.]

**COMMUNITY BASIN**

An infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond, established in accordance with N.J.A.C. 7:8-4.2(c)14, that is designed and constructed in accordance with the New Jersey Stormwater Best Management Practices Manual, or an alternate design, approved in accordance with N.J.A.C. 7:8-5.2(g), for an infiltration system, sand filter designed to infiltrate, standard constructed wetland, or wet pond and that complies with the requirements of this chapter.

**COMPACTION**

The increase in soil bulk density.

**CONTRIBUTORY DRAINAGE AREA**

The area from which stormwater runoff drains to a stormwater management measure, not including the area of the stormwater management measure itself.

**CORE**

A pedestrian-oriented area of commercial and civic uses serving the surrounding municipality, generally including housing and access to public transportation.

**COUNTY REVIEW AGENCY**

An agency designated by the [County Board of Chosen Freeholders] Board of County Commissioners to review municipal stormwater management plans and implementing ordinance(s). The county review agency may either be:

- A. A county planning agency; or
- B. A county water resource association created under N.J.S.A. 58:16A-55.5, if the ordinance or resolution delegates authority to approve, conditionally approve, or disapprove municipal stormwater management plans and implementing ordinances.

**DEPARTMENT**

The New Jersey Department of Environmental Protection.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

**DESIGNATED CENTER**

A state development and redevelopment plan center as designated by the State Planning Commission, such as urban, regional, town, village or hamlet.

**DESIGN ENGINEER**

A person professionally qualified and duly licensed in New Jersey to perform engineering services that may include, but not necessarily be limited to, development of project requirements, creation and development of project design and preparation of drawings and specifications.

**DEVELOPMENT**

The division of a parcel of land into two or more parcels, the construction, reconstruction, conversion, structural alteration, relocation or enlargement of any building or structure, any mining excavation or landfill, and any use or change in the use of any building or other structure, or land or extension of use of land, by any person, for which permission is required under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. In the case of development of agricultural lands, "development" means any activity that requires a state permit; any activity reviewed by the County Agricultural Board (CAB) and the State Agricultural Development Committee (SADC), and municipal review of any activity not exempted by the Right to Farm Act, N.J.S.A. 4:1C-1 et seq.

**DISTURBANCE**

The placement or reconstruction of impervious surface or motor vehicle surface, or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Milling and repaving is not considered disturbance for the purposes of this definition.

**DRAINAGE AREA**

A geographic area within which stormwater, sediments or dissolved materials drain to a particular receiving water body or to a particular point along a receiving water body.

**ENVIRONMENTAL CONSTRAINED AREA**

Areas where the physical alteration of the land is in some way restricted, either through regulation, easement, deed restriction or ownership such as: wetlands, floodplains, threatened and endangered species sites or designated habitats, and parks and preserves. Habitats of endangered or threatened species are identified using the Department's Landscape Project as approved by the Department's Endangered and Nongame Species Program.

**ENVIRONMENTALLY CRITICAL AREAS**

An area or feature which is of significant environmental value, including but not limited to stream corridors; natural heritage priority sites; habitat of endangered or threatened species; large areas of contiguous open space or upland forest; steep slopes; and wellhead protection and groundwater recharge areas. Habitats of endangered or threatened species are identified using the Department's Landscape Project as approved by the Department's Endangered and Nongame Species Program.

**EMPOWERMENT NEIGHBORHOOD**

A neighborhood designated by the Urban Coordinating Council in consultation and conjunction with the New Jersey Redevelopment Authority pursuant to N.J.S.A. 55:19-69.

**EROSION**

The detachment and movement of soil or rock fragments by water, wind, ice or gravity.

**GREEN INFRASTRUCTURE**

A stormwater management measure that manages stormwater close to its source by:

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

- A. Treating stormwater runoff through infiltration into subsoil
- B. Treating stormwater runoff through filtration by vegetation or soil
- C. Storing stormwater runoff for reuse.

**"HUC 14" or "HYDROLOGIC UNIT CODE 14"**

An area within which water drains to a particular receiving surface water body, also known as a subwatershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

**IMPERVIOUS SURFACE**

A surface that has been covered with a layer of material so that it is highly resistant to infiltration by water.

**INFILTRATION**

The process by which water seeps into the soil from precipitation.

**MAJOR DEVELOPMENT**

[Any development that provides for ultimately disturbing one or more acres of land or increases the impervious surface by 1/4 acre or more. "Disturbance" for the purpose of this chapter is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting or removing of vegetation.]

An individual "development," as well as multiple developments that individually or collectively result in:

- A. The disturbance of one acre or more of land since February 2, 2004
- B. The creation of 10,890 square feet or more of "regulated impervious surface" since February 2, 2004
- C. The creation of 10,890 square feet or more of "regulated motor vehicle surface" since March 2, 2021; or
- D. A combination of B and C above that totals an area of 10,890 square feet or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.

Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually meet any one or more of paragraphs A, B, C or D above. Projects undertaken by any government agency that otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered "major development."

**MOTOR VEHICLE**

Land vehicles propelled other than by muscular power, such as automobiles, motorcycles, auto cycles, and low speed vehicles. For the purposes of this definition, motor vehicle does not include farm equipment, snowmobiles, all-terrain vehicles, motorized wheelchairs, go-carts, gas buggies, golf carts, ski-slope grooming machines, or vehicles that run only on rails or tracks.

**MUNICIPALITY**

The Township of Hamilton in Mercer County, New Jersey.

**NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES (BMP) MANUAL or BMP MANUAL**

The manual maintained by the Department providing, in part, design specifications, removal

**EXPLANATION: Matter underlined thus in this legislation is new matter.**

**Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

rates, calculation methods, and soil testing procedures approved by the Department as being capable of contributing to the achievement of the stormwater management standards specified in this chapter. The BMP Manual is periodically amended by the Department as necessary to provide design specifications on additional best management practices and new information on already included practices reflecting the best available current information regarding the particular practice and the Department's determination as to the ability of that best management practice to contribute to compliance with the standards contained in this chapter. Alternative stormwater management measures, removal rates, or calculation methods may be utilized, subject to any limitations specified in this chapter, provided the design engineer demonstrates to the municipality, in accordance with Section IV.G. of this ordinance and N.J.A.C. 7:8-5.2(g), that the proposed measure and its design will contribute to achievement of the design and performance standards established by this chapter.

**NODE**

An area designated by the State Planning Commission concentrating facilities and activities which are not organized in a compact form.

**NUTRIENT**

A chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the development of organisms.

**PERSON**

Any individual, corporation, company, partnership, firm, association or political subdivision of this state [subject to municipal jurisdiction pursuant to the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq.] and any state, interstate or Federal agency.

**POLLUTANT**

Any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, medical wastes, radioactive substance [ [ ](except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. § 2011 et seq.) ) [ ] ], thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, industrial, municipal, agricultural, and construction waste or runoff, or other residue discharged directly or indirectly to the land, groundwaters or surface waters of the state, or to a domestic treatment works. "Pollutant" includes both hazardous and nonhazardous pollutants.

**RECHARGE**

The amount of water from precipitation that infiltrates into the ground and is not evapotranspired [or the replenishment of groundwater resources].

**REGULATED IMPERVIOUS SURFACE**

Any of the following, alone or in combination:

- A. A net increase of impervious surface
- B. The total area of impervious surface collected by a new stormwater conveyance system (for the purpose of this definition, a "new stormwater conveyance system" is a stormwater conveyance system that is constructed where one did not exist immediately prior to its construction or an existing system for which a new discharge location is created)
- C. The total area of impervious surface proposed to be newly collected by an existing stormwater conveyance system, and/or
- D. The total area of impervious surface collected by an existing stormwater conveyance system where the capacity of that conveyance system is increased.

**REGULATED MOTOR VEHICLE SURFACE**

**EXPLANATION:** Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

Any of the following, alone or in combination:

- A. The total area of motor vehicle surface that is currently receiving water
- B. A net increase in motor vehicle surface and/or quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant, where the water quality treatment will be modified or removed.

**SEDIMENT**

Solid material, mineral or organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water or gravity as a product of erosion.

**SITE**

The lot or lots upon which a major development is to occur or has occurred.

**SOIL**

All unconsolidated mineral and organic material of any origin.

**STATE DEVELOPMENT AND REDEVELOPMENT PLAN METROPOLITAN PLANNING AREA (PA1)**

An area delineated on the State Plan Policy Map and adopted by the State Planning Commission that is intended to be the focus for much of the state's future redevelopment and revitalization efforts.

**STATE PLAN POLICY MAP**

The geographic application of the State Development and Redevelopment Plan's goals and statewide policies, and the Official Map of these goals and policies.

**STORMWATER**

Water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, or is captured by separate storm sewers or other sewerage or drainage facilities, or conveyed by snow removal equipment.

**STORMWATER RUNOFF**

Water flow on the surface of the ground or in storm sewers, resulting from precipitation.

**[STORMWATER MANAGEMENT BASIN]**

[An excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management basin may either be normally dry (that is, a detention basin or infiltration basin), retain water in a permanent pool (a retention basin), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).]

**STORMWATER MANAGEMENT BMP**

An excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management BMP may either be normally dry (that is, a detention basin or infiltration system), retain water in a permanent pool (a retention basin), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

**STORMWATER MANAGEMENT MEASURE**

[Any structural or nonstructural strategy, practice, technology, process, program or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater, or to eliminate illicit or illegal nonstormwater discharges into stormwater conveyances.] Any practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances.

**STORMWATER RUNOFF**

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

Water flow on the surface of the ground or in storm sewers, resulting from precipitation.

**TIDAL FLOOD HAZARD AREA**

[A flood hazard area, which may be influenced by stormwater runoff from inland areas, but which is primarily caused by the Atlantic Ocean.] A flood hazard area in which the flood elevation resulting from the two-, 10-, or 100-year storm, as applicable, is governed by tidal flooding from the Atlantic Ocean. Flooding in a tidal flood hazard area may be contributed to, or influenced by, stormwater runoff from inland areas, but the depth of flooding generated by the tidal rise and fall of the Atlantic Ocean is greater than flooding from any fluvial sources. In some situations, depending upon the extent of the storm surge from a particular storm event, a flood hazard area may be tidal in the 100-year storm, but fluvial in more frequent storm events.

**TOWNSHIP**

The Township of Hamilton in Mercer County, New Jersey, or any of its administrative units exercising jurisdiction within the Township.

**URBAN COORDINATING COUNCIL EMPOWERMENT NEIGHBORHOOD**

A neighborhood given priority access to state resources through the New Jersey Redevelopment Authority.

**URBAN ENTERPRISE ZONES**

A zone designated by the New Jersey Enterprise Zone Authority pursuant to the New Jersey Urban Enterprise Zones Act, N.J.S.A. 52:27H-60 et seq.

**URBAN REDEVELOPMENT AREA**

Previously developed portions of areas:

- A. Delineated on the State Plan Policy Map (SPPM) as the metropolitan planning area (PA1), designated centers, cores or nodes;
- [B. Designated as CAFRA centers, cores or nodes;]
- [C.] B. Designated as Urban Enterprise Zones; and
- [D.] C. Designated as Urban Coordinating Council Empowerment Neighborhoods.

**WATER CONTROL STRUCTURE**

A structure within, or adjacent to, a water, which intentionally or coincidentally alters the hydraulic capacity, the flood elevation resulting from the two-, 10-, or 100-year storm, flood hazard area limit, and/or floodway limit of the water. Examples of a water control structure may include a bridge, culvert, dam, embankment, ford (if above grade), retaining wall, and weir.

**WATERS OF THE STATE**

The ocean and its estuaries, all springs, streams, wetlands and bodies of surface water or groundwater, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction.

**WETLANDS or WETLAND**

An area that is inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions, commonly known as hydrophytic vegetation.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

**§ 577-3 [General standards.] Design and performance standards for stormwater management measures.**

[Design and performance standards for stormwater management measures.]

- A. [Stormwater management measures for major development shall be developed to meet the erosion control, groundwater recharge, stormwater runoff quantity, and stormwater runoff quality standards in § 577-4. To the maximum extent practicable, these standards shall be met by incorporating nonstructural stormwater management strategies into the design. If these strategies alone are not sufficient to meet these standards, structural stormwater management measures necessary to meet these standards shall be incorporated into the design.] Stormwater management measures for major development shall be designed to provide erosion control, groundwater recharge, stormwater runoff quantity control, and stormwater runoff quality treatment as follows:
- (1) The minimum standards for erosion control are those established under the Soil and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules at N.J.A.C. 2:90.
  - (2) The minimum standards for groundwater recharge, stormwater quality, and stormwater runoff quantity shall be met by incorporating green infrastructure.
- B. [The standards in this chapter apply only to new major development and are intended to minimize the impact of stormwater runoff on water quality and water quantity in receiving water bodies and maintain groundwater recharge. The standards do not apply to new major development to the extent that alternative design and performance standards are applicable under a regional stormwater management plan or water quality management plan adopted in accordance with Department rules. ] The standards in this chapter apply to major development and are intended to avoid the impact of stormwater runoff on water quality and water quantity in receiving water bodies and maintain groundwater recharge. The standards do not apply to major development to the extent that alternative design and performance standards are applicable under a regional stormwater management plan or Water Quality Management Plan adopted in accordance with Department rules.

**§577-4 Stormwater management requirements for major development.**

- A. The development shall incorporate a maintenance plan for the stormwater management measures incorporated into the design of a major development in accordance with [§ 577-10] § 577-11.
- B. Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Department's Landscape Project or Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly *Helonias bullata* (swamp pink) and/or *Clemmys muhlenbergi* (bog turtle).
- C. The following linear development projects are exempt from the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity requirements of [Subsections F and G] § 577-4 M, N, O and P:
- (1) The construction of an underground utility line, [provided that the disturbed areas are revegetated upon completion;] 18 inches or under in diameter, provided that the disturbed areas are revegetated upon completion;
  - (2) The construction of an aboveground utility line provided that the existing conditions are maintained to the maximum extent practicable; and
  - (3) The construction of a public pedestrian access, such as a sidewalk or trail with a
- EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

maximum width of 14 feet, provided that the access is made of permeable material.

D. A waiver from strict compliance from the green infrastructure, groundwater recharge, stormwater runoff quantity, and stormwater runoff quality requirements of [Subsections F and G] § 577-4 M, N, O and P may be obtained for the enlargement of an existing public roadway or railroad or the construction or enlargement of a public pedestrian access, provided that the following conditions are met:

- (1) The applicant demonstrates that there is a public need for the project that cannot be accomplished by any other means;
- (2) The applicant demonstrates through an [alternatives] alternatives' analysis, that through the use of [nonstructural and structural] stormwater management measures, the option selected complies with the requirements of [Subsection F and G] § 577-4 M, N, O and P to the maximum extent practicable;
- (3) The applicant demonstrates that, in order to meet the requirements of [Subsections F and G] § 577-4 M, N, O and P, existing structures currently in use, such as homes and buildings, would need to be condemned; and
- (4) The applicant demonstrates that it does not own or have other rights to areas, including the potential to obtain through condemnation lands not falling under [Subsection D(3)] § 577-4 C (3) above within the upstream drainage area of the receiving stream, that would provide additional opportunities to mitigate the requirements of [Subsection F and G] § 577-4 M, N, O and P that were not achievable onsite; [; and]

[(5) In addition, the applicant may obtain a waiver if it agrees to undertake a suitable mitigation measure as identified in the Township's stormwater management plan.]

[E. Nonstructural stormwater management strategies.]

[(1) To the maximum extent practicable, the standards in Subsections **F** and **G** shall be met by incorporating nonstructural stormwater management strategies set forth at this Subsection **E** into the design. The applicant shall identify the nonstructural measures incorporated into the design of the project. If the applicant contends that it is not feasible for engineering, environmental or safety reasons to incorporate any nonstructural stormwater management measures identified in Subsection **E(2)** below into the design of a particular project, the applicant shall identify the strategy considered and provide a basis for the contention. The applicant shall also complete and submit the NJDEP Low Impact Development Model Checklist.]

[(2) Nonstructural stormwater management strategies incorporated into site design shall:]

[(a) Protect areas that provide water quality benefits or areas particularly susceptible to erosion and sediment loss;]

[(b) Minimize impervious surfaces and break up or disconnect the flow of runoff over impervious surfaces;]

[(c) Maximize the protection of natural drainage features and vegetation;]

[(d) Minimize the decrease in the time of concentration from preconstruction to post construction. "Time of concentration" is defined as the time it takes for runoff to travel from the hydraulically most distant point of the watershed to the point of interest within a watershed;]

[(e) Minimize land disturbance, including clearing and grading;]

**EXPLANATION:** Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

- [(f) Minimize soil compaction;]
- [(g) Provide low-maintenance landscaping that encourages retention and planting of native vegetation and minimizes the use of lawns, fertilizers and pesticides;]
- [(h) Provide vegetated open-channel conveyance systems discharging into and through stable vegetated areas;]
- [(i) Provide other source controls to prevent or minimize the use or exposure of pollutants at the site, in order to prevent or minimize the release of those pollutants into stormwater runoff. Such source controls include, but are not limited to:]
  - [1. Site design features that help to prevent accumulation of trash and debris in drainage systems, including features that satisfy Subsection **E(3)** below;]
  - [2. Site design features that help to prevent discharge of trash and debris from drainage systems;]
  - [3. Site design features that help to prevent and/or contain spills or other harmful accumulations of pollutants at industrial or commercial developments; and]
  - [4. When establishing vegetation after land disturbance, applying fertilizer in accordance with the requirements established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules.]
- [(3) Site design features identified under Subsection E(2)(i)2. above shall comply with the following standard to control passage of solid and floatable materials through storm drain inlets. For purposes of this paragraph, "solid and floatable materials" means sediment, debris, trash, and other floating, suspended or settleable solids. For exemptions to this standard see Subsection **E(3)(c)** below.]
  - [(a) Grates.]
    - [1. Design engineers shall use either of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:]
      - [a. The New Jersey Department of Transportation (NJDOT) bicycle-safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (April 1996); or]
      - [b. A different grate, if each individual clear space in that grate has an area of no more than seven square inches or is no greater than 1/2 inch across the smallest dimension.]
    - [2. Examples of grates subject to this standard include grates in grate inlets, the grate portion (non-curb-opening portion) of combination inlets, grates on storm sewer manholes, ditch grates, trench grates, and grates of

**EXPLANATION:** Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors.]

[(b) Whenever design engineers use a curb-opening inlet, the clear space in that curb opening (or each individual clear space, if the curb opening has two or more clear spaces) shall have an area of no more than seven square inches, or be no greater than two inches across the smallest dimension.]

[(c) This standard does not apply:]

[1. Where the review agency determines that this standard would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets that meet these standards;]

[2. Where flows from the water quality design storm as specified in Subsection **G(1)** are conveyed through any device (e.g., end-of-pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:]

[a. A rectangular space 4 5/8 inches long and 1 1/2 inches wide (this option does not apply for outfall netting facilities); or]

[b. A bar screen having a bar spacing of 1/2 inch. ]

[3. Where flows are conveyed through a trash rack that has parallel bars with one-inch spacing between the bars to the elevation of the water quality design storm as specified in Subsection **G(1)**; or ]

[4. Where the New Jersey Department of Environmental Protection determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register-listed historic property.]

[(4) Any land area used as a nonstructural stormwater management measure to meet the performance standards in Subsections **F** and **G** shall be dedicated to a government agency, subjected to a conservation restriction filed with the appropriate county clerk's office, or subject to an approved equivalent restriction that ensures that measure or an equivalent stormwater management measure approved by the reviewing agency is maintained in perpetuity.]

[(5) Guidance for nonstructural stormwater management strategies is available in the New Jersey Stormwater Best Management Practices Manual. The BMP Manual may be obtained from the address identified in § **577-7** or found on the Department's website at [www.njstormwater.org](http://www.njstormwater.org).]

E. Tables 1 through 3 below summarize the ability of stormwater best management practices identified and described in the New Jersey Stormwater Best Management Practices Manual to

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

satisfy the green infrastructure, groundwater recharge, stormwater runoff quality and stormwater runoff quantity standards specified in § 577-4 M, N, O and P. When designed in accordance with the most current version of the New Jersey Stormwater Best Management Practices Manual, the stormwater management measures found at N.J.A.C. 7:8-5.2 (f) Tables 5-1, 5-2 and 5-3 and listed below in Tables 1, 2 and 3 are presumed to be capable of providing stormwater controls for the design and performance standards as outlined in the tables below. Upon amendments of the New Jersey Stormwater Best Management Practices to reflect additions or deletions of BMPs meeting these standards, or changes in the presumed performance of BMPs designed in accordance with the New Jersey Stormwater BMP Manual, the Department shall publish in the New Jersey Registers a notice of administrative change revising the applicable table.

The most current version of the BMP Manual can be found on the Department's website at: [https://njstormwater.org/bmp\\_manual2.htm](https://njstormwater.org/bmp_manual2.htm)

[F. Erosion control, groundwater recharge and runoff quantity standards.]

[(1) This subsection contains minimum design and performance standards to control erosion, encourage and control infiltration and groundwater recharge, and control stormwater runoff quantity impacts of major development.]

[(a) The minimum design and performance standards for erosion control are those established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules.]

[(b) The minimum design and performance standards for groundwater recharge are as follows:]

[1. The design engineer shall, using the assumptions and factors for stormwater runoff and groundwater recharge calculations at § **577-5**, either:]

[a. Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100% of the average annual preconstruction groundwater recharge volume for the site; or]

[b. Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from preconstruction to post construction for the two-year storm is infiltrated.]

[2. This groundwater recharge requirement does not apply to projects within the urban redevelopment area, or to projects subject to Subsection F(1)(b)3. below.]

[3. The following types of stormwater shall not be recharged:]

[a. Stormwater from areas of high pollutant loading. High pollutant loading areas are areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored or applied, areas where pesticides are loaded/unloaded or stored; areas where hazardous materials are expected to be present in greater than "reportable quantities," as defined by the United States Environmental Protection Agency

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

(EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with Department-approved remedial action work plan or landfill closure plan and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities; and]

[b. Industrial stormwater exposed to source material. "Source material" means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels; and lubricants, solvents and detergents that are related to process, manufacturing or other industrial activities that are exposed to stormwater. ]

[4. The design engineer shall assess the hydraulic impact on the groundwater table and design the site so as to avoid adverse hydraulic impacts. Potential adverse hydraulic impacts include, but are not limited to, exacerbating a naturally or seasonally high water table so as to cause surficial ponding, flooding of basements or interference with the proper operation of subsurface sewage disposal systems and other subsurface structures in the vicinity or downgradient of the groundwater recharge area.]

[(c) In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at § **577-5**, complete one of the following:]

[1. Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the two-, ten- and one-hundred-year storm events do not exceed, at any point in time, the preconstruction runoff hydrographs for the same storm events;]

[2. Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the preconstruction condition, in the peak runoff rates of stormwater leaving the site for the two-, ten- and one-hundred-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area; ]

[3. Design stormwater management measures so that the post-construction peak runoff rates leaving the site for the two-, ten- and one-hundred-year storm events are 50%, 75% and 80%, respectively, of the preconstruction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed. The percentages

**EXPLANATION: Matter underlined thus in this legislation is new matter. Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

shall not be applied to post-construction stormwater runoff into tidal flood hazard areas if the increased volume of stormwater runoff will not increase flood damages below the point of discharge; or]

[4. In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with Subsection F(1)(c)1., 2. and 3. above shall only be applied if the increased volume of stormwater runoff could increase flood damages below the point of discharge.]

[(2) Any application for a new agricultural development that meets the definition of a "major development" in § 577-2 shall be submitted to the appropriate soil conservation district for review and approval in accordance with the requirements of this section and any applicable soil conservation district guidelines for stormwater runoff quantity and erosion control. For the purposes of this section, "agricultural development" means land uses normally associated with the production of food, fiber and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacturing of agriculturally related products.]

F. Where the BMP tables in the NJ Stormwater Management Rule are more stringent than the tables in this ordinance the BMP Tables in the Stormwater Management rule at N.J.A.C. 7:8-5.2(f) shall take precedence.

[G. Stormwater runoff quality standards.]

[(1) Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff by 80% of the anticipated load from the developed site, expressed as an annual average. Stormwater management measures shall only be required for water quality control if an additional 1/4 acre of impervious surface is being proposed on a development site. The requirement to reduce TSS does not apply to any stormwater runoff in a discharge regulated under a numeric effluent limitation for TSS imposed under the New Jersey Pollution Discharge Elimination System (NJPDES) rules, N.J.A.C. 7:14A, or in a discharge specifically exempt under a NJPDES permit from this requirement. The water quality design storm is 1 1/4 inches of rainfall in two hours. Water quality calculations shall take into account the distribution of rain from the water quality design storm, as reflected in Table 1. The calculation of the volume of runoff may take into account the implementation of nonstructural and structural stormwater management measures.]

**[Table 1: Water Quality Design Storm Distribution**

Time	Cumulative Rainfall	Time	Cumulative Rainfall
(minutes)	(inches)	(minutes)	(inches)
0	0.0000	65	0.8917
5	0.0083	70	0.9917
10	0.0166	75	1.0500
15	0.0250	80	1.0840
20	0.0500	85	1.1170
25	0.0750	90	1.1500
30	0.1000	95	1.1750
35	0.1330	100	1.2000

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

[Table 1: Water Quality Design Storm Distribution

Time (minutes)	Cumulative Rainfall (inches)	Time (minutes)	Cumulative Rainfall (inches)
40	0.1660	105	1.2250
45	0.2000	110	1.2334
50	0.2583	115	1.2417
55	0.3583	120	1.2500
60	0.6250		]

[(2) For purposes of TSS reduction calculations, Table 2 below presents the presumed removal rates for certain BMPs designed in accordance with the New Jersey Stormwater Best Management Practices Manual. The BMP Manual may be found on the Department's website at [www.njstormwater.org](http://www.njstormwater.org). TSS reduction shall be calculated based on the removal rates for the BMPs in Table 2 below. Alternative removal rates and methods of calculating removal rates may be used if the design engineer provides documentation demonstrating the capability of these alternative rates and methods for review. A copy of any approved alternative rate or method of calculating the removal rate shall be provided to the Department at the following address: Division of Watershed Management, New Jersey Department of Environmental Protection, P.O. Box 418, Trenton, New Jersey, 08625-0418.]

[(3) If more than one BMP in series is necessary to achieve the required eighty-percent TSS reduction for a site, the applicant shall utilize the following formula to calculate TSS reduction:

$$R = A + B - (A \times B) / 100$$

Where:

- R = total TSS percent load removal from application of both BMPs
- A = the TSS percent removal rate applicable to the first BMP
- B = the TSS percent removal rate applicable to the second BMP

**Table 2: TSS Removal Rates for BMPs**

Best Management Practice	TSS Percent Removal Rate
Bioretention systems	90%
Constructed stormwater wetland	90%
Extended detention basin	40% to 60%
Infiltration structure	80%
Manufactured treatment device	See § 577-6C
Sand filter	80%
Vegetative filter strip	60% to 80%
Wet pond	50% to 90%]

[(4) If there is more than one on-site drainage area, the eighty-percent TSS removal rate shall apply to each drainage area, unless the runoff from the subareas converge on site, in which case the removal rate can be demonstrated through a calculation using a weighted average.]

[(5) Stormwater management measures shall also be designed to reduce, to the maximum extent feasible, the post-construction nutrient load of the anticipated load from the developed site in stormwater runoff generated from the water quality design storm. In

**EXPLANATION:** Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

achieving reduction of nutrients to the maximum extent feasible, the design of the site shall include nonstructural strategies and structural measures that optimize nutrient removal while still achieving the performance standards in Subsections **F** and **G**.]

- [(6) Additional information and examples are contained in the New Jersey Stormwater Best Management Practices Manual.]
- [(7) In accordance with the definition of FW1 at N.J.A.C. 7:9B-1.4, stormwater management measures shall be designed to prevent any increase in stormwater runoff to waters classified as FW1.]
- [(8) Special water resource protection areas shall be established along all waters designated Category One at N.J.A.C. 7:9B and perennial or intermittent streams that drain into or upstream of the Category One waters as shown on the USGS Quadrangle Maps or in the County Soil Surveys, within the associated HUC14 drainage area. These areas shall be established for the protection of water quality, aesthetic value, exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, and exceptional fisheries significance of those established Category One waters. These areas shall be designated and protected as follows:]
  - [(a) The applicant shall preserve and maintain a special water resource protection area in accordance with one of the following:]
    - [1. A three-hundred-foot special water resource protection area shall be provided on each side of the waterway, measured perpendicular to the waterway from the top of the bank outwards or from the center line of the waterway where the bank is not defined, consisting of existing vegetation or vegetation allowed to follow natural succession.]
    - [2. Encroachment within the designated special water resource protection area under Subsection G(8)(a)1. above shall only be allowed where previous development or disturbance has occurred (for example, active agricultural use, parking area or maintained lawn area). The encroachment shall only be allowed where an applicant demonstrates that the functional value and overall condition of the special water resource protection area will be maintained to the maximum extent practicable. In no case shall the remaining special water resource protection area be reduced to less than 150 feet as measured perpendicular to the top of bank of the waterway or center line of the waterway where the bank is undefined. All encroachments proposed under this subparagraph shall be subject to review and approval by the Department.]
  - (b) [All stormwater shall be discharged outside of and flow through the special water resource protection area and shall comply with the standard for off-site stability in the "Standards for Soil Erosion and Sediment Control in New Jersey," established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq.]
  - [(c) If stormwater discharged outside of and flowing through the special water resource protection area cannot comply with the standard for off-site stability in the "Standards for Soil Erosion and Sediment Control in New Jersey," established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., then the stabilization measures in accordance with the requirements of the above standards may be placed within the special water resource protection area, provided that:]

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

- [1. Stabilization measures shall not be placed within 150 feet of the Category One waterway;]
- [2. Stormwater associated with discharges allowed by this section shall achieve a ninety-five-percent TSS post-construction removal rate;]
- [3. Temperature shall be addressed to ensure no impact on the receiving waterway;]
- [4. The encroachment shall only be allowed where the applicant demonstrates that the functional value and overall condition of the special water resource protection area will be maintained to the maximum extent practicable;]
- [5. A conceptual project design meeting shall be held with the appropriate Department staff and Soil Conservation District staff to identify necessary stabilization measures; and]
- [6. All encroachments proposed under this section shall be subject to review and approval by the Department.]

[(d) A stream corridor protection plan may be developed by a regional stormwater management planning committee as an element of a regional stormwater management plan or by a municipality through an adopted municipal stormwater management plan. If a stream corridor protection plan for a waterway subject to Subsection **G(8)** has been approved by the Department of Environmental Protection, then the provisions of the plan shall be the applicable special water resource protection area requirements for that waterway. A stream corridor protection plan for a waterway subject to Subsection **G(8)** shall maintain or enhance the current functional value and overall condition of the special water resource protection area as defined in Subsection G(8)(a)1. above. In no case shall a stream corridor protection plan allow the reduction of the special water resource protection area to less than 150 feet as measured perpendicular to the waterway subject to this subsection.]

[(e) Subsection **G(8)** does not apply to the construction of one individual single-family dwelling that is not part of a larger development on a lot receiving preliminary or final subdivision approval on or before February 2, 2004, provided that the construction begins on or before February 2, 2009. ]

G. An alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate may be used if the design engineer demonstrates the capability of the proposed alternative stormwater management measure and/or the validity of the alternative rate or method to the municipality. A copy of any approved alternative stormwater management measure, alternative removal rate, and/or alternative method to calculate the removal rate shall be provided to the Department in accordance with § 577-6 B. Alternative stormwater management measures may be used to satisfy the requirements at § 577-4 M only if the measures meet the definition of green infrastructure at § 577-2 Alternative stormwater management measures that function in a similar manner to a BMP listed at § 577-2 M(2) are subject to the contributory drainage area limitation specified at § 577-2 M(2) for that similarly functioning BMP. Alternative stormwater management measures approved in accordance with this subsection that do not function in a similar manner to any BMP listed at § 577-2 M (2) shall have a contributory drainage area less than or equal to 2.5 acres, except for alternative stormwater management measures that function similarly to cisterns, grass swales, green roofs, standard constructed wetlands, vegetative filter strips, and wet ponds, which are not subject to a contributory drainage area limitation. Alternative measures that function similarly to standard constructed wetlands or wet ponds shall not be used for compliance with the stormwater runoff

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

quality standard unless a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with § 577-4 D is granted from § 577-4 M.

- H. Whenever the stormwater management design includes one or more BMPs that will infiltrate stormwater into subsoil, the design engineer shall assess the hydraulic impact on the groundwater table and design the site, so as to avoid adverse hydraulic impacts. Potential adverse hydraulic impacts include, but are not limited to, exacerbating a naturally or seasonally high water table, so as to cause surficial ponding, flooding of basements, or interference with the proper operation of subsurface sewage disposal systems or other subsurface structures within the zone of influence of the groundwater mound, or interference with the proper functioning of the stormwater management measure itself.

<b>Table 1 Green Infrastructure BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity</b>				
<b><u>Best Management Practice</u></b>	<b><u>Stormwater Runoff Quality TSS Removal Rate (percent)</u></b>	<b><u>Stormwater Runoff Quantity</u></b>	<b><u>Groundwater Recharge</u></b>	<b><u>Minimum Separation from Seasonal High Water Table (feet)</u></b>
<u>Cistern</u>	<u>0</u>	<u>Yes</u>	<u>No</u>	<u>--</u>
<u>Dry Well<sup>(a)</sup></u>	<u>0</u>	<u>No</u>	<u>Yes</u>	<u>2</u>
<u>Grass Swale</u>	<u>50 or less</u>	<u>No</u>	<u>No</u>	<u>2<sup>(e)</sup> 1<sup>(f)</sup></u>
<u>Green Roof</u>	<u>0</u>	<u>Yes</u>	<u>No</u>	<u>--</u>
<u>Manufactured Treatment Device<sup>(a), (g)</sup></u>	<u>50 or 80</u>	<u>No</u>	<u>No</u>	<u>Dependent upon the device</u>
<u>Pervious Paving System<sup>(a)</sup></u>	<u>80</u>	<u>Yes</u>	<u>Yes<sup>(b)</sup> No<sup>(c)</sup></u>	<u>2<sup>(b)</sup> 1<sup>(c)</sup></u>
<u>Small-Scale Bioretention Basin<sup>(a)</sup></u>	<u>80 or 90</u>	<u>Yes</u>	<u>Yes<sup>(b)</sup> No<sup>(c)</sup></u>	<u>2<sup>(b)</sup> 1<sup>(c)</sup></u>
<u>Small-Scale Infiltration Basin<sup>(a)</sup></u>	<u>80</u>	<u>Yes</u>	<u>Yes</u>	<u>2</u>
<u>Small-Scale Sand Filter</u>	<u>80</u>	<u>Yes</u>	<u>Yes</u>	<u>2</u>

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

<u>Vegetative Filter Strip</u>	<u>60-80</u>	<u>No</u>	<u>No</u>	<u>--</u>
--------------------------------	--------------	-----------	-----------	-----------

*(Notes corresponding to annotations <sup>(a)</sup> through <sup>(g)</sup> are found following Table 3)*

<b>Table 2 Green Infrastructure BMPs for Stormwater Runoff Quantity (or for Groundwater Recharge and/or Stormwater Runoff Quality with a Waiver or Variance from N.J.A.C. 7:8-5.3)</b>				
<u>Best Management Practice</u>	<u>Stormwater Runoff Quality TSS Removal Rate (percent)</u>	<u>Stormwater Runoff Quantity</u>	<u>Groundwater Recharge</u>	<u>Minimum Separation from Seasonal High Water Table (feet)</u>
<u>Bioretention System</u>	<u>80 or 90</u>	<u>Yes</u>	<u>Yes<sup>(b)</sup> No<sup>(c)</sup></u>	<u>2<sup>(b)</sup> 1<sup>(c)</sup></u>
<u>Infiltration Basin</u>	<u>80</u>	<u>Yes</u>	<u>Yes</u>	<u>2</u>
<u>Sand Filter<sup>(b)</sup></u>	<u>80</u>	<u>Yes</u>	<u>Yes</u>	<u>2</u>
<u>Standard Constructed Wetland</u>	<u>90</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>
<u>Wet Pond<sup>(d)</sup></u>	<u>50-90</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>

*(Notes corresponding to annotations <sup>(b)</sup> through <sup>(d)</sup> are found following Table 3)*

<b>Table 3 BMPs for Groundwater Recharge, Stormwater Runoff Quality, and/or Stormwater Runoff Quantity only with a Waiver or Variance from N.J.A.C. 7:8-5.3</b>				
<u>Best Management Practice</u>	<u>Stormwater Runoff Quality TSS Removal Rate (percent)</u>	<u>Stormwater Runoff Quantity</u>	<u>Groundwater Recharge</u>	<u>Minimum Separation from Seasonal High Water Table (feet)</u>
<u>Blue Roof</u>	<u>0</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>
<u>Extended Detention Basin</u>	<u>40-60</u>	<u>Yes</u>	<u>No</u>	<u>1</u>

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

<u>Manufactured Treatment Device<sup>(h)</sup></u>	<u>50 or 80</u>	<u>No</u>	<u>No</u>	<u>Dependent upon the device</u>
<u>Sand Filter<sup>(c)</sup></u>	<u>80</u>	<u>Yes</u>	<u>No</u>	<u>1</u>
<u>Subsurface Gravel Wetland</u>	<u>90</u>	<u>No</u>	<u>No</u>	<u>1</u>
<u>Wet Pond</u>	<u>50-90</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>

Notes to Tables 1, 2, and 3:

- (a) subject to the applicable contributory drainage area limitation specified at § 577-4 M (2);
- (b) designed to infiltrate into the subsoil;
- (c) designed with underdrains;
- (d) designed to maintain at least a 10-foot wide area of native vegetation along at least 50 percent of the shoreline and to include a stormwater runoff retention component designed to capture stormwater runoff for beneficial reuse, such as irrigation;
- (e) designed with a slope of less than two percent;
- (f) designed with a slope of equal to or greater than two percent;
- (g) manufactured treatment devices that meet the definition of green infrastructure at § 577-2;
- (h) manufactured treatment devices that do not meet the definition of green infrastructure at § 577-2.

I. Any application for a new agricultural development that meets the definition of major development at § 577-2 shall be submitted to the Soil Conservation District for review and approval in accordance with the requirements at § 577-4 M, N, O and P and any applicable Soil Conservation District guidelines for stormwater runoff quantity and erosion control. For purposes of this subsection, "agricultural development" means land uses normally associated with the production of food, fiber, and livestock for sale. Such uses do not include the development of land for the processing or sale of food and the manufacture of agriculturally related products.

J. If there is more than one drainage area, the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 577-4 N, O and P shall be met in each drainage area, unless the runoff from the drainage areas converge onsite and no adverse environmental impact would occur as a result of compliance with any one or more of the individual standards being determined utilizing a weighted average of the results achieved for that individual standard across the affected drainage areas.

K. Any stormwater management measure authorized under the municipal stormwater management plan or ordinance shall be reflected in a deed notice recorded in the Office of the Mercer County Clerk in which the development, project, project site, or mitigation area containing the stormwater management measure is located, as appropriate to the municipality. A form of deed notice shall be submitted to the municipality for approval prior to filing. The deed notice shall contain a description of the stormwater management measure(s) used to meet the green infrastructure, groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 577-4 M, N, O and P and shall identify the location of the stormwater management measure(s) in NAD 1983 State Plane New Jersey FIPS 2900 US Feet or Latitude and Longitude in decimal degrees. The deed notice shall also reference the maintenance plan required to be recorded upon the deed pursuant to § 577-11 B (5). Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality. Proof that the required information has been recorded on the deed shall be in

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

the form of either a copy of the complete recorded document or a receipt from the clerk or other proof of recordation provided by the recording office. However, if the initial proof provided to the municipality is not a copy of the complete recorded document, a copy of the complete recorded document shall be provided to the municipality within 180 calendar days of the authorization granted by the municipality.

L. A stormwater management measure approved under the municipal stormwater management plan or ordinance may be altered or replaced with the approval of the municipality, if the municipality determines that the proposed alteration or replacement meets the design and performance standards pursuant to § 577-4 of this ordinance and provides the same level of stormwater management as the previously approved stormwater management measure that is being altered or replaced. If an alteration or replacement is approved, a revised deed notice shall be submitted to the municipality for approval and subsequently recorded with the Office of the Mercer County Clerk and shall contain a description and location of the stormwater management measure, as well as reference to the maintenance plan, in accordance with K above. Prior to the commencement of construction, proof that the above required deed notice has been filed shall be submitted to the municipality in accordance with K above.

M. Green Infrastructure Standards.

- (1) This subsection specifies the types of green infrastructure BMPs that may be used to satisfy the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards.
- (2) To satisfy the groundwater recharge and stormwater runoff quality standards at § 577-4 N and O, the design engineer shall utilize green infrastructure BMPs identified in Table 1 at § 577-4 F. and/or an alternative stormwater management measure approved in accordance with § 577-4 G. The following green infrastructure BMPs are subject to the following maximum contributory drainage area limitations:

<u>Best Management Practice</u>	<u>Maximum Contributory Drainage Area</u>
<u>Dry Well</u>	<u>1 acre</u>
<u>Manufactured Treatment Device</u>	<u>2.5 acres</u>
<u>Pervious Pavement Systems</u>	<u>Area of additional inflow cannot exceed three times the area occupied by the BMP</u>
<u>Small-scale Bioretention Systems</u>	<u>2.5 acres</u>
<u>Small-scale Infiltration Basin</u>	<u>2.5 acres</u>
<u>Small-scale Sand Filter</u>	<u>2.5 acres</u>

- (3) To satisfy the stormwater runoff quantity standards at § 577-4 N, the design engineer shall utilize BMPs from Table 1 or from Table 2 and/or an alternative stormwater management measure approved in accordance with § 577-4 G.
- (4) If a variance in accordance with N.J.A.C. 7:8-4.6 or a waiver from strict compliance in accordance with § 577-4 D is granted from the requirements of this subsection, then BMPs from Table 1, 2, or 3, and/or an alternative stormwater management measure approved in accordance with § 577-4 G may be used to meet the groundwater recharge, stormwater runoff quality, and stormwater runoff quantity standards at § 577-4 N, O and

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

P.

- (5) For separate or combined storm sewer improvement projects, such as sewer separation, undertaken by a government agency or public utility (for example, a sewerage company), the requirements of this subsection shall only apply to areas owned in fee simple by the government agency or utility, and areas within a right-of-way or easement held or controlled by the government agency or utility; the entity shall not be required to obtain additional property or property rights to fully satisfy the requirements of this subsection. Regardless of the amount of area of a separate or combined storm sewer improvement project subject to the green infrastructure requirements of this subsection, each project shall fully comply with the applicable groundwater recharge, stormwater runoff quality control, and stormwater runoff quantity standards at § 577-4 N, O and P, unless the project is granted a waiver from strict compliance in accordance with § 577-4 D.

N. Groundwater Recharge Standards.

- (1) This subsection contains the minimum design and performance standards for groundwater recharge as follows:
- (2) The design engineer shall, using the assumptions and factors for stormwater runoff and groundwater recharge calculations at § 577-5, use the following method that yields the largest volume:
- (a) Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100 percent of the average annual pre-construction groundwater recharge volume for the site, or
- (b) Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater runoff volume from pre-construction to post-construction for the 2-year storm is infiltrated.
- (3) This groundwater recharge requirement does not apply to projects within the “urban redevelopment area,” or to projects subject to 4 below.
- (4) The following types of stormwater shall not be recharged:
- (a) Stormwater from areas of high pollutant loading. High pollutant loading areas are areas in industrial and commercial developments where solvents and/or petroleum products are loaded/unloaded, stored, or applied, areas where pesticides are loaded/unloaded or stored; areas where hazardous materials are expected to be present in greater than “reportable quantities” as defined by the United States Environmental Protection Agency (EPA) at 40 CFR 302.4; areas where recharge would be inconsistent with Department approved remedial action work plan or landfill closure plan and areas with high risks for spills of toxic materials, such as gas stations and vehicle maintenance facilities; and
- (b) Industrial stormwater exposed to “source material.” “Source material” means any material(s) or machinery, located at an industrial facility, that is directly or indirectly related to process, manufacturing or other industrial activities, which could be a source of pollutants in any industrial stormwater discharge to groundwater. Source materials include, but are not limited to, raw materials; intermediate products; final products; waste materials; by-products; industrial machinery and fuels, and lubricants, solvents, and detergents that are related to process, manufacturing, or other industrial activities that are exposed to stormwater.

O. Stormwater Runoff Quality Standards.

- (1) This subsection contains the minimum design and performance standards to control stormwater runoff quality impacts of major development. Stormwater runoff quality standards are applicable when the major development results in an increase of 10,890 square feet or more of regulated motor vehicle surface.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

- (2) Stormwater management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm as follows:
- (a) Eighty percent TSS removal of the anticipated load, expressed as an annual average shall be achieved for the stormwater runoff from the net increase of motor vehicle surface.
- (b) If the surface is considered regulated motor vehicle surface because the water quality treatment for an area of motor vehicle surface that is currently receiving water quality treatment either by vegetation or soil, by an existing stormwater management measure, or by treatment at a wastewater treatment plant is to be modified or removed, the project shall maintain or increase the existing TSS removal of the anticipated load expressed as an annual average.
- (3) The requirement to reduce TSS does not apply to any stormwater runoff in a discharge regulated under a numeric effluent limitation for TSS imposed under the New Jersey Pollutant Discharge Elimination System (NJPDES) rules, N.J.A.C. 7:14A, or in a discharge specifically exempt under a NJPDES permit from this requirement. Every major development, including any that discharge into a combined sewer system, shall comply with 2 above, unless the major development is itself subject to a NJPDES permit with a numeric effluent limitation for TSS or the NJPDES permit to which the major development is subject exempts the development from a numeric effluent limitation for TSS.
- (4) The water quality design storm is 1.25 inches of rainfall in two hours. Water quality calculations shall take into account the distribution of rain from the water quality design storm, as reflected in Table 4, below. The calculation of the volume of runoff may take into account the implementation of stormwater management measures.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

**Table 4 - Water Quality Design Storm Distribution**

Time (Minutes)	Cumulative Rainfall (Inches)	Time (Minutes)	Cumulative Rainfall (Inches)	Time (Minutes)	Cumulative Rainfall (Inches)
1	0.00166	41	0.1728	81	1.0906
2	0.00332	42	0.1796	82	1.0972
3	0.00498	43	0.1864	83	1.1038
4	0.00664	44	0.1932	84	1.1104
5	0.00830	45	0.2000	85	1.1170
6	0.00996	46	0.2117	86	1.1236
7	0.01162	47	0.2233	87	1.1302
8	0.01328	48	0.2350	88	1.1368
9	0.01494	49	0.2466	89	1.1434
10	0.01660	50	0.2583	90	1.1500
11	0.01828	51	0.2783	91	1.1550
12	0.01996	52	0.2983	92	1.1600
13	0.02164	53	0.3183	93	1.1650
14	0.02332	54	0.3383	94	1.1700
15	0.02500	55	0.3583	95	1.1750
16	0.03000	56	0.4116	96	1.1800
17	0.03500	57	0.4650	97	1.1850
18	0.04000	58	0.5183	98	1.1900
19	0.04500	59	0.5717	99	1.1950
20	0.05000	60	0.6250	100	1.2000
21	0.05500	61	0.6783	101	1.2050
22	0.06000	62	0.7317	102	1.2100
23	0.06500	63	0.7850	103	1.2150
24	0.07000	64	0.8384	104	1.2200
25	0.07500	65	0.8917	105	1.2250
26	0.08000	66	0.9117	106	1.2267
27	0.08500	67	0.9317	107	1.2284
28	0.09000	68	0.9517	108	1.2300
29	0.09500	69	0.9717	109	1.2317
30	0.10000	70	0.9917	110	1.2334
31	0.10660	71	1.0034	111	1.2351
32	0.11320	72	1.0150	112	1.2367
33	0.11980	73	1.0267	113	1.2384
34	0.12640	74	1.0383	114	1.2400
35	0.13300	75	1.0500	115	1.2417
36	0.13960	76	1.0568	116	1.2434
37	0.14620	77	1.0636	117	1.2450
38	0.15280	78	1.0704	118	1.2467
39	0.15940	79	1.0772	119	1.2483
40	0.16600	80	1.0840	120	1.2500

- (5) If more than one BMP in series is necessary to achieve the required 80 percent TSS reduction for a site, the applicant shall utilize the following formula to calculate TSS reduction:

EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

$$R = A + B - (A \times B) / 100$$

Where

R = total TSS Percent Load Removal from application of both BMPs

A = the TSS Percent Removal Rate applicable to the first BMP

B = the TSS Percent Removal Rate applicable to the second BMP

- (6) Stormwater management measures shall also be designed to reduce, to the maximum extent feasible, the post-construction nutrient load of the anticipated load from the developed site in stormwater runoff generated from the water quality design storm. In achieving reduction of nutrients to the maximum extent feasible, the design of the site shall include green infrastructure BMPs that optimize nutrient removal while still achieving the performance standards in § 577-4 N, O and P.
- (7) In accordance with the definition of FW1 at N.J.A.C. 7:9B-1.4, stormwater management measures shall be designed to prevent any increase in stormwater runoff to waters classified as FW1.
- (8) The Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-4.1(c)1 establish 300-foot riparian zones along Category One waters, as designated in the Surface Water Quality Standards at N.J.A.C. 7:9B, and certain upstream tributaries to Category One waters. A person shall not undertake a major development that is located within or discharges into a 300-foot riparian zone without prior authorization from the Department under N.J.A.C. 7:13.
- (9) Pursuant to the Flood Hazard Area Control Act Rules at N.J.A.C. 7:13-11.2(j)3.i, runoff from the water quality design storm that is discharged within a 300-foot riparian zone shall be treated in accordance with this subsection to reduce the post-construction load of total suspended solids by 95 percent of the anticipated load from the developed site, expressed as an annual average.
- (10) This stormwater runoff quality standards do not apply to the construction of one individual single-family dwelling, provided that it is not part of a larger development or subdivision that has received preliminary or final site plan approval prior to December 3, 2018, and that the motor vehicle surfaces are made of permeable material(s) such as gravel, dirt, and/or shells

P. Stormwater Runoff Quantity Standards

- (1) This subsection contains the minimum design and performance standards to control stormwater runoff quantity impacts of major development.
- (2) In order to control stormwater runoff quantity impacts, the design engineer shall, using the assumptions and factors for stormwater runoff calculations at § 577-5, complete one of the following:
  - (a) Demonstrate through hydrologic and hydraulic analysis that for stormwater leaving the site, post-construction runoff hydrographs for the 2-, 10-, and 100-year storm events do not exceed, at any point in time, the pre-construction runoff hydrographs for the same storm events;
  - (b) Demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the 2-, 10- and 100-year storm events and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site. This analysis shall include the analysis of impacts of existing land uses and projected land uses assuming full development under existing zoning and land use ordinances in the drainage area;
  - (c) Design stormwater management measures so that the post-construction peak runoff rates for the 2-, 10- and 100-year storm events are 50, 75 and 80 percent,

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; or

- (d) In tidal flood hazard areas, stormwater runoff quantity analysis in accordance with 2.i, ii and iii above is required unless the design engineer demonstrates through hydrologic and hydraulic analysis that the increased volume, change in timing, or increased rate of the stormwater runoff, or any combination of the three will not result in additional flood damage below the point of discharge of the major development. No analysis is required if the stormwater is discharged directly into any ocean, bay, inlet, or the reach of any watercourse between its confluence with an ocean, bay, or inlet and downstream of the first water control structure.
- (3) The stormwater runoff quantity standards shall be applied at the site's boundary to each abutting lot, roadway, watercourse, or receiving storm sewer system.

**§ 577-5 Calculation of stormwater runoff and groundwater recharge.**

A. Stormwater runoff shall be calculated in accordance with the following:

- (1) The design engineer shall calculate runoff using one of the following methods:
- (a) [The USDA Natural Resources Conservation Service (NRCS) methodology, including the NRCS Runoff Equation and Dimensionless Unit Hydrograph, as described in the NRCS National Engineering Handbook Section 4 – Hydrology and Technical Release 55 – Urban Hydrology for Small Watersheds; or ] The 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/stelprdb1044171.pdf](https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf)
- or at United States Department of Agriculture Natural Resources Conservation Service, 220 Davison Avenue, Somerset, New Jersey 08873; or
- (b) 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, PO Box 330, Trenton, New Jersey 08625. The document is also available at:
- <https://www.nj.gov/agriculture/divisions/anr/pdf/2014NJSoilErosionControlStandardsComplete.pdf>
- (2) 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 [at Subsection **A(1)(a)** above at § 577-5 A(1)(a) and the Rational and Modified Rational Methods at [Subsection **A(1)(b)** § 577-5 A(1)(b). [A runoff
- EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

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 application. If more than one land cover have 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 the presumption that 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).

- (3) 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.
- (4) 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 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 and other methods may be employed.
- (5) 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.

B. Groundwater recharge may be calculated in accordance with the following:

- (1) The New Jersey Geological Survey Report GSR-32, A Method for Evaluating Ground-Water 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 <http://www.state.nj.us/dep/njgs/>; or] at the New Jersey Geological Survey website at: <https://www.nj.gov/dep/njgs/pricelst/greport/gsr32.pdf>  
or at New Jersey Geological and Water Survey, 29 Arctic Parkway, P.O. Box [427] 420 Mail Code 29-01, Trenton, New Jersey, [08625-0427] 08625-0420. [; (609) 984-6587.]
- [(2) Alternate groundwater recharge calculation methods may be submitted to the Township Engineer for review and approval.]

**§ 577-6 Standards for structural stormwater management measures.**

A. Standards for structural stormwater management measures are as follows:

- (1) Structural stormwater management measures shall be designed to take into account the existing site conditions, including, for example, environmentally critical areas, wetlands; floodprone areas; slopes; depth to seasonal high-water table; soil type, permeability and texture; drainage area and drainage patterns; and the presence of solution-prone carbonate rocks (limestone).
- (2) Structural stormwater management measures shall be designed to minimize  
**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

maintenance, facilitate maintenance and repairs, and ensure proper functioning. Trash racks shall be installed at the intake to the outlet structure as appropriate and shall have parallel bars with one-inch spacing between the bars to the elevation of the water quality design storm. For elevations higher than the water quality design storm, the parallel bars at the outlet structure shall be spaced no greater than 1/3 the width of the diameter of the orifice or 1/3 the width of the weir, with a minimum spacing between bars of one inch and a maximum spacing between bars of six inches. In addition, the design of trash racks must comply with the requirements of § **[577-8B] 577-9**.

- (3) Structural stormwater management measures shall be designed, constructed and installed to be strong, durable and corrosion-resistant. Measures that are consistent with the relevant portions of the Residential Site Improvement Standards at N.J.A.C. 5:21-7.3, 5:21-7.4 and 5:21-7.5 shall be deemed to meet this requirement.
- (4) At the intake to the outlet from the stormwater management basin, the orifice size shall be a minimum of 2 1/2 inches in diameter.
- (5) [Stormwater management basins shall be designed to meet the minimum safety standards for stormwater management basins at § **577-8**. ] At the intake to the outlet from the stormwater management basin, the orifice size shall be a minimum of 2 1/2 inches in diameter.
- (6) Stormwater management BMPs shall be designed to meet the minimum safety standards for stormwater management BMPs at § 577-9.

B. Stormwater management measure guidelines are available in the New Jersey Stormwater Best Management Practices Manual. Other stormwater management measures may be utilized, provided the design engineer demonstrates that the proposed measure and its design will accomplish the required water quantity, groundwater recharge and water quality design and performance standards established by § **577-4** of this chapter.

C. Manufactured treatment devices may be used to meet the requirements of § **577-4** of this chapter, provided the pollutant removal rates are verified by the New Jersey Corporation for Advanced Technology and certified by the Department. Manufactured treatment devices that do not meet the definition of green infrastructure at § 577-2 may be used only under the circumstances described at § 577-4 M (4).

**§ 577-7 Sources for technical guidance.**

A. Technical guidance for stormwater management measures can be found in the documents listed below, which are available [from Maps and Publications, New Jersey Department of Environmental Protection, 428 East State Street, P.O. Box 420, Trenton, New Jersey 08625; (609) 777-1038.] to download from the Department's website at:

[http://www.nj.gov/dep/stormwater/bmp\\_manual2.htm](http://www.nj.gov/dep/stormwater/bmp_manual2.htm).

- (1) Guidelines for stormwater management measures are contained in the New Jersey Stormwater Best Management Practices Manual, as amended and supplemented. Information is provided on stormwater management measures, such as [bioretention systems, constructed stormwater wetlands, dry wells, extended detention basins, infiltration structures, manufactured treatment devices, pervious paving, sand filters, vegetative filter strips, and wet ponds.] but not limited to, those listed in Tables 1, 2, and 3.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

- (2) [The New Jersey Department of Environmental Protection Stormwater Management Facilities Maintenance Manual, as amended.] Additional maintenance guidance is available on the Department's website at:

[https://www.njstormwater.org/maintenance\\_guidance.htm](https://www.njstormwater.org/maintenance_guidance.htm).

- B. Submissions required for review by the Department should be mailed to:

The Division of Water Quality, New Jersey Department of Environmental Protection, Mail Code 401-02B, PO Box 420, Trenton, New Jersey 08625-0420.

- [B]C. Additional technical guidance for stormwater management measures can be obtained from the following:

- (1) The "Standards for Soil Erosion and Sediment Control in New Jersey" promulgated by the State Soil Conservation Committee and incorporated into N.J.A.C. 2:90. Copies of these standards may be obtained by contacting the State Soil Conservation Committee, or any of the soil conservation districts listed in N.J.A.C. 2:90-1.3(a)3. The location, address and telephone number of each soil conservation district may be obtained from the State Soil Conservation Committee, P.O. Box 330, Trenton, New Jersey 08625; (609) 292-5540;
- (2) The Rutgers Cooperative Extension Service, (732) 932-9306; and
- (3) The soil conservation districts listed in N.J.A.C. 2:90-1.3(a)3. The location, address and telephone number of each soil conservation district may be obtained from the State Soil Conservation Committee, P.O. Box 330, Trenton, New Jersey 08625; (609) 292-5540.

**§ 577- 8 [Standards for stormwater management basins] Solids and floatable materials control standards.**

- A. Site design features identified under § 577-4 F above, or alternative designs in accordance with § 577-4 G above, to prevent discharge of trash and debris from drainage systems shall comply with the following standard to control passage of solid and floatable materials through storm drain inlets. For purposes of this paragraph, "solid and floatable materials" means sediment, debris, trash, and other floating, suspended, or settle able solids. For exemptions to this standard see § 577-8 A (2) below.

- (1) Design engineers shall use one of the following grates whenever they use a grate in pavement or another ground surface to collect stormwater from that surface into a storm drain or surface water body under that grate:
- (a) The New Jersey Department of Transportation (NJDOT) bicycle safe grate, which is described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines; or
- (b) A different grate, if each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is no greater than 0.5 inches across the smallest dimension.

Examples of grates subject to this standard include grates in grate inlets, the grate portion (non-curb-opening portion) of combination inlets, grates on storm sewer manholes, ditch grates, trench grates, and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater system floors used to collect stormwater from the surface into a storm drain or surface water body.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

- (c) For curb-opening inlets, including curb-opening inlets in combination inlets, the clear space in that curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches, or be no greater than two (2.0) inches across the smallest dimension.
- (2) The standard in A (1). above does not apply:
- (a) Where each individual clear space in the curb opening in existing curb-opening inlet does not have an area of more than nine (9.0) square inches
- (b) Where the municipality agrees that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets
- (c) Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:
1. A rectangular space four and five-eighths (4.625) inches long and one and one-half (1.5) inches wide (this option does not apply for outfall netting facilities); or
  2. A bar screen having a bar spacing of 0.5 inches.
- Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).
- (d) Where flows are conveyed through a trash rack that has parallel bars with one-inch (1 inch) spacing between the bars, to the elevation of the Water Quality Design Storm as specified in N.J.A.C. 7:8; or
- (e) Where the New Jersey Department of Environmental Protection determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet this standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

**§ 577-[8]9 Safety Standards for stormwater management basins.**

- A. This section sets forth requirements to protect public safety through the proper design and operation of stormwater management [basins] BMPs. This section applies to any new stormwater management [basin] BMPs.
- B. The provisions of this section are not intended to preempt more stringent municipal or county safety requirements for new or existing stormwater management BMPs. Municipal and county stormwater management plans and ordinances may, pursuant to their authority, require existing stormwater management BMPs to be retrofitted to meet one or more of the safety standards in § 577-9 C(1), § 577-9 C(2), and § 577-9 C(3), for trash racks, overflow grates, and escape provisions at outlet structures.

[B.]C. Requirements for trash racks, overflow grates and escape provisions.

- (1) A trash rack is a device designed to catch trash and debris and prevent the clogging of outlet structures. Trash racks shall be installed at the intake to the outlet from the stormwater management [basin] BMP to ensure proper functioning of the [basin] BMP

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

outlets in accordance with the following:

- (a) The trash rack shall have parallel bars, with no greater than six-inch spacing between the bars.
  - (b) The trash rack shall be designed so as not to adversely affect the hydraulic performance of the outlet pipe or structure.
  - (c) The average velocity of flow through a clean trash rack is not to exceed 2 1/2 feet per second under the full range of stage and discharge. Velocity is to be computed on the basis of the net area of opening through the rack.
  - (d) The trash rack shall be constructed [and installed to be] of rigid, durable and corrosion-resistant, and shall be designed to withstand a perpendicular live loading of 300 pounds per square foot.
- (2) An overflow grate is designed to prevent obstruction of the overflow structure. If an outlet structure has an overflow grate, such grate shall meet the following requirements:
- (a) The overflow grate shall be secured to the outlet structure but removable for emergencies and maintenance.
  - (b) The overflow grate spacing shall be no less than two inches across the smallest dimension.
  - (c) The overflow grate shall be constructed and installed to be rigid, durable and corrosion-resistant and shall be designed to withstand a perpendicular live loading of 300 pounds per square foot.
- (3) [For purposes of this subparagraph, "escape provisions" means the permanent installation of ladders, steps, rungs or other features that provide easily accessible means of egress from stormwater management basins. Stormwater management basins shall include escape provisions, as follows:] Stormwater management BMPs shall include escape provisions as follows:
- (a) If a stormwater management [basin] BMP has an outlet structure, escape provisions shall be incorporated in or on the structure. [With the prior approval of the reviewing agency identified in Subsection **C**, a freestanding outlet structure may be exempted from this requirement. ] Escape provisions include the installation of permanent ladders, steps, rungs, or other features that provide easily accessible means of egress from stormwater management BMPs. With the prior approval of the municipality pursuant to § 577-9 C a free-standing outlet structure may be exempted from this requirement;
  - (b) Safety ledges shall be constructed on the slopes of all new stormwater management [basins] BMPs having a permanent pool of water deeper than 2 1/2 feet. Such safety ledges shall be comprised of two steps. Each step shall be four to six feet in width. One step shall be located approximately 2 1/2 feet below the permanent water surface, and the second step shall be located one to 1 1/2 feet above the permanent water surface. [See Subsection **D** for an illustration of safety ledges in a stormwater management basin.] See § 577-9E for an illustration of safety ledges in a stormwater management BMP; and

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

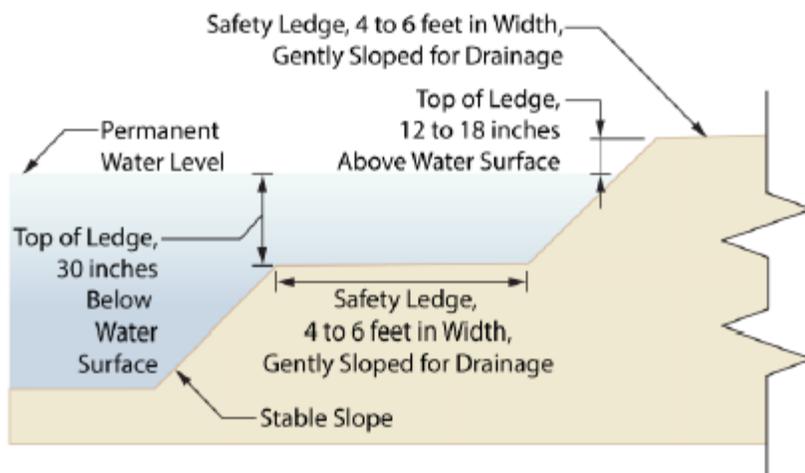
No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

- (c) In new stormwater management [basins] BMPs, the maximum interior slope for an earthen dam, embankment or berm shall not be steeper than three horizontal to one vertical.

[C] D. Variance or exemption from safety standards. A variance or exemption from the safety standards for stormwater management [basins] BMPs may be granted only upon a written finding by the [appropriate reviewing agency of the Township] Municipality that the variance or exemption will not constitute a threat to public safety.

[D] E. [Illustration of safety ledges in a new stormwater management basin.] Safety Ledge Illustration



NOTE:  
Only For Basins with Permanent Pool of Water

Not to Scale

Elevation View –Basin Safety Ledge Configuration

**§ 577-[9]10 Requirements for site development stormwater plan.**

- A. Submission of site development stormwater plan.
- (1) Whenever an applicant seeks municipal approval of a development subject to this chapter, the applicant shall submit all of the required components of the checklist for the site development stormwater plan at [Subsection C] § 577-10 C below as part of the submission of the applicant's application for [subdivision or site plan] approval.
  - (2) The applicant shall demonstrate that the project meets the standards set forth in this chapter.
  - (3) The applicant shall submit five copies of the materials listed in the checklist for site development stormwater plans in accordance with [Subsection C] § 577-10 C of this chapter.
- B. Site development stormwater plan approval. The applicant's site development project shall be reviewed as a part of the [subdivision or site plan] review process by the municipal board or official from which municipal approval is sought. That municipal board or official shall consult the Township Engineer to determine if all of the checklist requirements have been satisfied and to determine if the project meets the standards set forth in this chapter.

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

- C. [Checklist requirements.] Submission of Site Development Stormwater Plan. The following information shall be required:
- (1) Topographic base map. The [reviewing] design engineer [may require] shall provide upstream tributary drainage system information as necessary. It is recommended that the topographic base map of the site be submitted which extends a minimum of 200 feet beyond the limits of the proposed development, at a scale of one inch equals 200 feet (1" = 200') or greater, showing two-foot contour intervals. The map, as appropriate, may indicate the following: existing surface water drainage, shorelines, steep slopes, soils, erodible soils, [all] perennial or intermittent streams, [including those that drain into or upstream of the Category One waters, and other water bodies,] wetlands and floodplains along with their appropriate buffer strips, marshlands and other wetlands, pervious or vegetative surfaces, existing man-made structures, roads, bearing and distances of property lines, and significant natural and man-made features not otherwise shown.
  - (2) Environmental site analysis: a written and graphic description of the natural and man-made features of the site and its [environs] surroundings should be submitted. This description should include a discussion of soil conditions, slopes, wetlands, waterways and vegetation on the site. Particular attention should be given to unique, unusual or environmentally sensitive features and to those that provide particular opportunities or constraints for development. The map shall indicate the following: existing surface water drainage, shorelines, steep slopes, soils, erodible soils, springs, seeps, intermittent or perennial streams, wetlands and flood plains along with their appropriate buffer strips, marshlands and other wetlands, forests and core forests, pervious or vegetative surfaces, existing man-made structures, roads, bearing and distances of property lines, and significant natural and manmade features not otherwise shown.
  - (3) Project description and site plan(s): a map (or maps) at the scale of the topographical base map, indicating the location of existing and proposed buildings, roads, parking areas, utilities, structural facilities for stormwater management and sediment control, and other permanent structures. The map(s) shall also clearly show areas where alterations occur in the natural terrain and cover, including lawns and other landscaping, and seasonal high groundwater elevations. A written description of the site plan and justification of proposed changes in natural conditions may also be provided.
  - (4) Land use planning and source control plan. This plan shall provide a demonstration of how the goals and standards of §§ **577-3** through **577-~~6~~5** are being met. The focus of this plan shall be to describe how the site is being developed to meet the objective of controlling groundwater recharge, stormwater quality and stormwater quantity problems at the source by land management and source controls whenever possible.
  - (5) Stormwater management facilities map. The following information, illustrated on a map of the same scale as the topographic base map, shall be included:
    - (a) Total area to be disturbed, paved or built upon, proposed surface contours, land area to be occupied by the stormwater management facilities and the type of vegetation thereon, and details of the proposed plan to control and dispose of stormwater.
    - (b) Details of all stormwater management facility designs, during and after construction, including discharge provisions, discharge capacity for each outlet at different levels of detention and emergency spillway provisions with maximum

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

discharge capacity of each spillway.

- (6) Calculations.
  - (a) Comprehensive hydrologic and hydraulic design calculations for the predevelopment and post-development conditions for the design storms specified in § 577-4 of this chapter.
  - (b) When the proposed stormwater management control measures [(e.g., infiltration basins) ] depend on the hydrologic properties of soils or require certain separation from the seasonal high water table, then a soils report shall be submitted. The soils report shall be based on on-site boring logs or soil pit profiles. The number and location of required soil borings or soil pits shall be determined based on what is needed to determine the suitability and distribution of soils present at the location of the control measure.
- (7) Maintenance and repair plan. The design and planning of the stormwater management facility shall meet the maintenance requirements of § 577-~~[10]~~ 11.
- (8) Waiver from submission requirements. The municipal official or board reviewing an application under this chapter may, in consultation with the municipal review Engineer, waive submission of any of the requirements in [Subsection] § 577-~~10C(1)~~ through ~~(6)~~ of this chapter when it can be demonstrated that the information requested is impossible to obtain or it would create a hardship on the applicant to obtain, and its absence will not materially affect the review process.

**§ 577-~~[10]~~11 Maintenance and repair.**

- A. Applicability. Projects subject to review as provided in § 577-~~1C~~ of this chapter shall comply with the requirements of [Subsections] § 577-~~11~~ B and C [ of this section].
  - B. General maintenance.
    - (1) The design engineer shall prepare a maintenance plan for the stormwater management measures incorporated into the design of a major development.
    - (2) The maintenance plan shall contain specific preventative maintenance tasks and schedules; cost estimates, including estimated cost of sediment, debris or trash removal; and the name, address and telephone number of the person or persons responsible for preventative and corrective maintenance (including replacement). [Maintenance guidelines for stormwater management measures are available in the New Jersey Stormwater Best Management Practices Manual. If the maintenance plan identifies a person other than the developer (for example, a public agency or homeowners' association) as having the responsibility for maintenance, the plan shall include documentation of such person's agreement to assume this responsibility or of the developer's obligation to dedicate a stormwater management facility to such person under an applicable ordinance or regulation. ] The plan shall contain information on BMP location, design, ownership, maintenance tasks and frequencies, and other details as specified in Chapter 8 of the NJ BMP Manual, as well as the tasks specific to the type of BMP, as described in the applicable chapter containing design specifics.
    - (3) [Responsibility for maintenance shall not be assigned or transferred to the owner or tenant of an individual property in a residential development or project unless such owner
- EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

or tenant owns or leases the entire residential development or project.] If the maintenance plan identifies a person other than the property owner (for example, a developer, a public agency or homeowners' association) as having the responsibility for maintenance, the plan shall include documentation of such person's or entity's agreement to assume this responsibility, or of the owner's obligation to dedicate a stormwater management facility to such person under an applicable ordinance or regulation.

- (4) [If the person responsible for maintenance identified under Subsection B(2) above is not a public agency, the maintenance plan and any future revisions based on Subsection B(7) below shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken. Responsibility for maintenance shall not be assigned or transferred to the owner or tenant of an individual property in a residential development or project unless such owner or tenant owns or leases the entire residential development or project. The individual property owner may be assigned incidental tasks, such as weeding of a green infrastructure BMP, provided the individual agrees to assume these tasks; however, the individual cannot be legally responsible for all of the maintenance required.
- (5) [Preventative and corrective maintenance shall be performed to maintain the function of the stormwater management measure, including repairs or replacement to the structure; removal of sediment, debris or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of nonvegetated linings.] If the person responsible for maintenance identified under § 577-11 B (3) above is not a public agency, the maintenance plan and any future revisions based on § 577-11 B (7) below shall be recorded upon the deed of record for each property on which the maintenance described in the maintenance plan must be undertaken.
- (6) [The person responsible for maintenance identified under Subsection B(2) above shall maintain a detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspections and copies of all maintenance-related work orders.] Preventative and corrective maintenance shall be performed to maintain the [function of the stormwater management measure, including repairs or replacement to the structure; removal of sediment, debris or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of nonvegetated linings.] functional parameters (storage volume, infiltration rates, inflow/outflow capacity, etc.) of the stormwater management measure, including, but not limited to, repairs or replacement to the structure; removal of sediment, debris, or trash; restoration of eroded areas; snow and ice removal; fence repair or replacement; restoration of vegetation; and repair or replacement of non-vegetated linings.
- (7) The person responsible for maintenance identified under [Subsection B(2)] § 577-11 B (3) above shall perform all of the following requirements:
- (a) Maintain a detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspections and copies of all maintenance-related work orders;
- (b) Evaluate the effectiveness of the maintenance plan at least once per year and

**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL**

adjust the plan and deed as needed;

- (c) Obtain a Stormwater Maintenance Permit from the Municipal Engineering Division by June 30<sup>th</sup> of each year;
  - (d) On an annual basis submit to the Municipal Engineering Division a maintenance and inspection report and certification on a form approved by the Department with all required maintenance logs; and
  - (e) Retain and make available, upon request by any public entity with administrative, health, environmental, or safety authority over the site, the maintenance plan and the documentation required by § 577-11 B (6) and B (7) above.
- [(8) The person responsible for maintenance identified under Subsection **B(2)** above shall evaluate the effectiveness of the maintenance plan at least once per year and adjust the plan and the deed as needed. The person responsible for maintenance identified under Subsection **B(2)** above shall submit an annual inspection report prepared by a professional engineer licensed in New Jersey or a New Jersey certified stormwater inspector to the Township of Hamilton Department of Community Planning and Compliance, Division of Engineering, by June 30 of each year. The inspection report and log shall include and not be limited to:]
- [(a) Detention basin outflow structures, escape provision as outlined in R.S.I.S. 7:8-6.2 and all components;]
  - [(b) Vegetation;]
  - [(c) Trash racks and overflow grates;]
  - [(d) Embankment erosion; and]
  - [(e) Sediment removal and pond maintenance.]
- (8) The requirements of § 577-11 B (3) and B (4) do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another governmental agency, subject to all applicable municipal stormwater general permit conditions, as issued by the Department.
- (9) [The owner of the stormwater management measure shall complete minor repairs of facility within 14 days from notice of maintenance issues.] In the event that the stormwater management facility becomes a danger to public safety or public health, or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have fourteen (14) days to effect maintenance and repair of the facility in a manner that is approved by the municipal engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality or County may immediately proceed to do so and shall bill the cost thereof to the responsible person. Nonpayment of such bill may result in a lien on the property.
- (10) [Each act or violation, and every day upon which any violation shall occur or continues to occur, shall constitute a separate offense.] The person responsible for maintenance identified under § 577-11 B (2) above shall submit an annual inspection report prepared by a professional engineer licensed in New Jersey or a New Jersey certified stormwater

**EXPLANATION: Matter underlined thus in this legislation is new matter.**

**Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

inspector to the Township of Hamilton Department of Community and Economic Development, Division of Engineering, by June 30 of each year. The inspection report and log shall include and not be limited to:

- (a) Detention basin outflow structures, escape provision as outline in R.S.I.S. 7:8-6.2 and all components;
  - (b) Vegetation;
  - (c) Trash racks and overflow grates;
  - (d) Embankment erosion; and
  - (e) Sediment removal and pond maintenance.
- (11) [Failure to provide annual maintenance records: \$100.] The owner of the stormwater management measure shall complete minor repairs of facility within 14 days from notice of maintenance issues.
- (12) [Notwithstanding the penalties set forth in § 577-11, any person who has not complied with this section and who, after notice, refuses to implement and maintain soil erosion control and stormwater runoff control measures and facilities in conformance with these regulations shall be subject to a fine of not more than \$1,000 or 90 days in jail, or both, plus the cost of prosecution. ] Each act or violation, and every day upon which any violation shall occur or continues to occur, shall constitute a separate offense.
- (13) [The requirements of Subsection **B(3)** and **(4)** do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another governmental agency. In all other cases where the Township does not take responsibility for repair and maintenance of any stormwater management resources, the applicant shall post a two-year maintenance guarantee in accordance with N.J.S.A. 40:55D-53.] Failure to provide annual maintenance records: \$100.
- (14) [In the event that the stormwater management facility becomes a danger to public safety or public health or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have 14 days to effect maintenance and repair of the facility in a manner that is approved by the municipal Engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality may immediately proceed to do so and shall bill the cost thereof to the responsible person. ] Notwithstanding the penalties set forth in § 577-12, any person who has not complied with this section and who, after notice, refuses to implement and maintain soil erosion control and stormwater runoff control measures and facilities in conformance with these regulations shall be subject to a fine of not more than \$1,000 or 90 days in jail, or both, plus the cost of prosecution.
- (15) The requirements of § 577-11B(3) and (4) do not apply to stormwater management facilities that are dedicated to and accepted by the municipality or another governmental agency. In all other cases where the Township does not take responsibility for repair and maintenance of any stormwater management resources, the applicant shall post a two-year maintenance guarantee in accordance with N.J.S.A. 40:55D-53.
- (16) In the event that the stormwater management facility becomes a danger to public safety  
**EXPLANATION: Matter underlined thus in this legislation is new matter.  
Matter contained in brackets [thus] is to be omitted from the law.**

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

or public health or if it is in need of maintenance or repair, the municipality shall so notify the responsible person in writing. Upon receipt of that notice, the responsible person shall have 14 days to effect maintenance and repair of the facility in a manner that is approved by the municipal Engineer or his designee. The municipality, in its discretion, may extend the time allowed for effecting maintenance and repair for good cause. If the responsible person fails or refuses to perform such maintenance and repair, the municipality may immediately proceed to do so and shall bill the cost thereof to the responsible person.

- C. Nothing in this section shall preclude the Township from requiring the posting of a performance or maintenance guarantee in accordance with N.J.S.A. 40:55D-53.

**§ 577-[11]12 Violations and penalties.**

Any person who erects, constructs, alters, repairs, converts, maintains or uses any building, structure or land in violation of this chapter shall be subject to penalties prescribed by the Township with consideration to this chapter, including any penalties contained in the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq.; the Stormwater Management Rules, N.J.A.C. 7:8-1.1 et seq.; and/or Chapter 1, General Provisions, § 1-2, Violations; penalties, of the Code of the Township of Hamilton.

**[§ 577-12 Effective date. ]**

[This chapter shall take effect immediately upon approval by the Mercer County Review Agency or 60 days from the receipt of this chapter by the Mercer County Review Agency, if that agency should fail to act.]

**§ 577-13 Severability.**

Each section, subsection, sentence, clause and phrase of this chapter is declared to be an independent section, subsection, sentence, clause and phrase, and the finding or holding of any such portion of this chapter to be unconstitutional, void, or ineffective for any cause, or reason, shall not affect any other portion of this chapter.

**§ 577-14 Effective date.**

This chapter shall take effect immediately upon approval by the Mercer County Review Agency or 60 days from the receipt of this chapter by the Mercer County Review Agency, if that agency should fail to act.

**TOWNSHIP OF HAMILTON  
COUNTY OF MERCER, NEW JERSEY**

**ORDINANCE**

No. **21-013**

**ORDINANCE AMENDING AND SUPPLEMENTING THE *CODE OF THE TOWNSHIP OF HAMILTON, NEW JERSEY, PART III, LAND USE LEGISLATION, CHAPTER 577, STORMWATER CONTROL***

\_\_\_\_\_  
PRESIDENT

\_\_\_\_\_  
MUNICIPAL CLERK

<b>RECORD OF VOTE</b>													
First Reading							Second Reading						
COUNCIL	AYE	NAY	NV	AB	ORD	SEC	COUNCIL	AYE	NAY	NV	AB	ORD	SEC
ANTHONY P. CARABELLI, JR.							ANTHONY P. CARABELLI, JR.						
RICHARD L. TIGHE, JR.							RICHARD L. TIGHE, JR.						
CHARLES F. WHALEN							CHARLES F. WHALEN						
NANCY PHILLIPS							NANCY PHILLIPS						
PASQUALE "PAT" PAPERIO, JR.							PASQUALE "PAT" PAPERIO, JR.						

X - Indicates Vote    A.B. - Absent    N.V. - Not Voting    RES. - Moved    SEC. - Seconded

REJECTED \_\_\_\_\_

\_\_\_\_\_  
JEFFREY S. MARTIN, MAYOR

\_\_\_\_\_  
DATE

APPROVED \_\_\_\_\_

RECONSIDERED BY COUNCIL \_\_\_\_\_    OVERRIDE VOTE    AYE \_\_\_\_\_    NAY \_\_\_\_\_