Anyone performing a regulated activity **MUST** complete the accompanying Stormwater Management Permit Application, and submit to the Township. Key definitions are provided below:

**Regulated Activities:** Actions or proposed actions including earth disturbance activities or any other activity that will have an impact on stormwater runoff and that are specified in **§ 127-104** of this chapter.

**Impervious Surface (Impervious Area):** Any surface material and/or development that prevents, substantially prevents and/or reduces the filtration, percolation or penetration of stormwater runoff into previously undeveloped land, which surfaces shall include, but may not necessarily be limited to, buildings, roofs, surfaced paved, graveled or compacted parking areas, streets, sidewalks, driveways, stone patios, and other similar vehicular and/or pedestrian access routes and travel ways. See also “GRAVEL” (crushed stone) for when gravel classifies as impervious.

**Gravel (Crushed Stone):** Considered to be impervious when the intended use of the stone is for transportation purposes, parking areas, construction areas, trails, or if the gravel is compacted at any time during or after its placement; landscaping stone is not considered as impervious area.

Depending on the amount of impervious area placed and the amount of earth disturbance to the project site, this chapter requires different levels of stormwater management, and correspondingly different levels of design and review.

**Level 1:** Proposed impervious area is two hundred fifty (250) square feet and less than one thousand (1,000) square feet, and total earth disturbance is between one thousand (1,000) square feet and less than five thousand (5,000) square feet [**Amended 2/13/2017 by Ord.No.247**]

**Stormwater Management Controls:** Ensure that adverse downstream impacts do not occur due to redirecting stormwater flows toward nearby structures.

**Submission:** Submit the Stormwater Management Permit Application and Project Sketch; the easiest mechanism is to include the application with Building Permits.

**Review:** Reviewing the application will not likely require a qualified professional.

**Level 2:** Proposed impervious area is between one thousand (1,000) square feet and five thousand (5,000) square feet or total earth disturbance is between five thousand(5,000) square feet and ten thousand (10,000) square feet.

**Stormwater Management Controls:** Utilize Disconnected Impervious Area (DIA) for stormwater controls as outlined in this Appendix C.1; if DIA cannot be achieved, utilize stormwater management controls for small projects as outlined in this Appendix E.

**Submission:** Submit the Stormwater Management Application and computations for DIA; the worksheet in this Appendix C.1 may be used and submitted as is, or may be modified as the Township sees fit. If DIA cannot be achieved, submit computations for Stormwater Management for small projects; the worksheet in this Appendix E may be used and submitted as is, or may be modified as the Township sees fit; the easiest mechanism is to include the application with Building Permits.

**Review:** Reviewing the application and computations may require a qualified professional if the person responsible for issuing Building Permits is not comfortable with performing the review.

**Level 3:** Proposed impervious area is between five thousand (5,000) square feet and ten thousand (10,000) square feet or the total earth disturbance is between ten thousand (10,000) square feet and twenty thousand (20,000) square feet.

**Stormwater Management Controls:** Capture and permanently remove the first two (2) inches of runoff over all proposed impervious areas; infiltrate at least the first five tenths (0.5) of an inch.

**Submission:** Submit the Stormwater Management Permit Application and computations for permanently removing the first two (2) inches of runoff over all proposed impervious areas; the worksheet in this Appendix D may be used and submitted as is, or may be modified as the Township sees fit

**Review:** Reviewing the application and computations will most likely require a qualified professional.

**Level 4:** Proposed impervious area is greater than ten thousand (10,000) square feet or total earth disturbance is greater than twenty thousand (20,000) square feet.

**Stormwater Management Controls:** All requirements of this chapter are applicable; including water quality and volume controls as found in Article III §§127-303 and 127-308.

**Submission:** Submit the Stormwater Management Permit Application and Stormwater Management (SWM) Site Plan as in Article IV of this chapter.

**Review:** Reviewing this application and SWM Site Plan requires a qualified professional

**Option – 1**

|  |  |  |
| --- | --- | --- |
| **Applicant and Applicant Address:** | **Nature of Activity (i.e driveway, single lot structure, parking lot, road, trail, subdivision, ect.):** | |
| **Total Proposed Impervious Area (I) (sq. ft.)**  **Total Proposed Earth Disturbance (ED) (sq.ft.)** | | |
| Level 1: (I) is less than 1,000 sq. ft. and (ED) is less than 5,000 sq. ft**.**  Level 2: (I) is between 1,000 sq. ft. and 5,000 sq. ft. or (ED) is between 5,000 sq. ft. and 10,000 sq. ft.  Complete and attach worksheet Is worksheet attached  contained in Appendix C.1 or E No  (or equivalent) Yes  Level 3: (I) is between 5,000 sq. ft. and 10,000 sq. ft. or (ED) is between 10,000 sq. ft. and 20,000 sq. ft.  Complete and attach worksheet Is worksheet attached  contained in Appendix D No  (or equivalent) Yes  Level 4: (I) is greater than 10,000 sq. ft. or (ED) is greater than 20,000 sq. ft.  Complete and submit SWM Site Is a SWM Site Plan included  Plan in accordance with Article IV No  Yes | | |
| |  | | --- | | Show on the accompanying sketch that adverse downstream stormwater impacts are not created or worsened, and that additional stormwater runoff will not discharge towards adjacent property owners | | |

All requirements of the ordinance have been met. Applicants Signature:

Date:

**Project Sketch**

|  |
| --- |
| * Show direction of proposed stormwater discharges * Show all structures within fifty (50) feet of site * If storm sewers are present, show approximate location of inlets |
|  |

**Option – 2**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Applicant Name and Address: | | | | | | | | |
| **What is the nature of your project? (*Check all that apply*)** | | | | | | | | |
|  |  | Single Family Dwelling |  |  | Paved Driveway |  |  | Deck (w/roof) |
|  |  | Addition to Home |  |  | Gravel Driveway |  |  | Earthwork (fill or excavation) |
|  |  | Garage |  |  | Outdoor Stone Patio |  |  | Subdivision/Land Development |
|  |  | Storage Shed |  |  | Deck (no roof) |  |  | Other (explain) |
| What is the total amount of disturbed area for the project? (Limits of fill placement, excavation, tree/shrub clearing)  Length (Feet)  Area = Length x Width Width (Feet) Area = (sq. ft.) | | | | | | | | |
| What is the total amount  of impervious area for the project? (asphalt, concrete, compacted gravel, stone, roofs)  Length (Feet)  Area = Length x Width Width (Feet) Area = (sq. ft.) | | | | | | | | |
| If the project involves roofing, are gutters and rainspouts used?  Yes  No (check one)  If rainspouts are used, select the sketch below that approximates where they are directed.   |  |  |  | | --- | --- | --- | | To back, front, and side lawns  Not directed to driveway | To Driveway and out to street  Driveway  House  Street | No driveway present  Directed to street or storm sewer  House  Street | | | | | | | | | |
| Indicate the slope of the site the project is located on by selecting one of the sketches below:   |  |  |  | | --- | --- | --- | | Mild slopes or flat | Perched project – slopes in all directions | Steep slope in one general direction |   **\*\*\* Include additional sketches and sheets as necessary \*\*\*** | | | | | | | | |
| Reviewer Signature: Date  Approved  Denied  APPENDIX C.1 | | | | | | | | |

When a regulated activity creates impervious areas between one thousand (1,000) sq. ft. and five thousand (5,000) sq. ft., or total earth disturbance between five thousand (5,000) and ten thousand (10,000) sq. ft., the stormwater management requirements follow **APPENDIX C.1 – Disconnected Impervious Areas (DIAs)** of this chapter. If site conditions prevent the requirements of **APPENDIX C.1** frombeing met, then the first one (1) inch of runoff shall be captured and controlled in a manner consistent with **APPENDIX E – Stormwater Management for Small Projects**, of this chapter.

When rooftop or pavement runoff is directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, the contributing rooftop or pavement area may qualify as a Disconnected Impervious Area (DIA). A rooftop or pavement area is considered to be a DIA if it meets the requirements listed below:

* The soil, in proximity of the discharge area, is not designated as hydrologic soil group “D” or equivalent**(see APPENDIX f.2. Hydrologic Soil Group Map);**
* The overland flow path (pervious area serving as BMP) from discharge area has a positive slope of ten percent (10%) or less;
* The length of overland flow path (pervious surface serving as BMP) is greater than or equal to the contributing rooftop or pavement length;
* The length of overland flow path(pervious area serving as BMP) is great than twenty-five (25) feet.

If the discharge is concentrated at one (1) or more discrete points, no more than one thousand (1,000) square feet of imperious area may discharge to any one point. In addition, a gravel strip or other spreading device is required for concentrated discharges. For non-concentrated discharges along the edge of pavement, this requirement is waived; however, there must be a provision for the establishment of vegetation along the pavement edge an temporary stabilization of the area until vegetation becomes stabilized.

If rainspouts are discharged underground to provide infiltration, the portion of the impervious area draining to those rainspouts is waived from the DIA discharge requirements. Rainspouts discharged underground which are directly connected to a storm sewer are not waived from the DIA requirements.

*APPENDIX C.1*

**Computations for DIA as a BMP must be submitted to the Township. This worksheet is provided as an example, or may be used for the computations.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Applicant Address | **Brief description of project:** | | | | |
| Nearest Waterbody: | **No more that 1,00 sq. ft. can discharge to one point on the surface:**  **Number of discharge points required:** | | | | |
| Total Proposed  Impervious Area (A):  Total Earth  Disturbance: | **Discharge Point 1** | **Discharge Point 2** | **Discharge Point 3** | **Discharge Point 4** | **Discharge Point 5** |
| **Area:** | **Area:** | **Area:** | **Area:** | **Area:** |
| Are rainspouts  Discharged underground  Yes  No  If yes, contributing impervious area (B): | **Impervious path length** | **Impervious path length** | **Impervious path length** | **Impervious path length** | **Impervious path length** |
| **Pervious path length** | **Pervious path length** | **Pervious path length** | **Pervious path length** | **Pervious path length** |
| Total impervious area discharged on surface (A) – (B): | **Pervious path slope <10% (Y/N)** | **Pervious path slope <10% (Y/N)** | **Pervious path slope <10% (Y/N)** | **Pervious path slope <10% (Y/N)** | **Pervious path slope <10% (Y/N)** |
| **HSG Soil Group from APPENDIX F.2 Hydrologic Soils Group Map (Cannot be “D” Soils)** | | | | | |
| **Project sketch:** | | | | | |