

**CHAPTER 13.12**  
**GRADING AND SURFACE WATER MANAGEMENT**  
**Checklist**

Unless specifically requested by the Township Engineer, GSWMP plans for *Additions to Existing Structures or New Accessory Structures with a total area of disturbance less than 1,500 square feet* are exempt from the checklist submittal. All other projects shall complete this checklist.

**Provided/N/A/Waiver**

- Project description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
- Plan prepared by a professional engineer licensed in the State of New Jersey.
- Key Map based on the Official Tax Map of the Township of Tewksbury.
- Highlands Applicability Determination (HAD) – NJDEP determination if the project is a Major Highlands Development, and thus regulated, or qualifies for an exemption from the Highlands Act.
- Alternatively, notes on plan shall indicate Highlands Act applicability, and, if the design engineer can conclude that the project is not a Major Highlands Development or is exempt from the Highlands Act, notes on plan shall be provided to indicate the citation of the exemption in the Highlands Act. Proper documentation for the exemption must be provided along with a cover letter.
- Note on plan to indicate if project is a “major development” or a “major highlands development.”
- Applicant Engineer’s Certification that Stormwater Management Rules apply or project is exempt, with citation of the exemption in the Stormwater management Rules and proper documentation.
- Note on plan to indicate any environmental constraints existing on site, and any environmental permits required for the project.
- A topographic map of the subject lot and adjoining street with 2-foot contour intervals, based upon a field survey, and not USGS maps, for the area to be disturbed and 200 feet beyond.
- The location of any existing
  - o streams,
  - o watercourses,
  - o ponds,
  - o storm sewers,

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- delineated wetlands,
  - delineated wetland transition areas,
  - flood plain,
  - storm water management facilities,
  - and extent of slopes greater than 15% (based upon 2 ft. contour intervals) within the proposed area of disturbance and 200 feet beyond.
- The location of fences and of all existing and proposed new structures, including, but not limited to, buildings, swimming pools, tennis courts, garages, sheds, retaining walls, decks, patios, walkways, stairs, riding rings, or any other impervious surface within the entire property boundary.
- All existing and proposed easements within the entire property boundary.
- A calculation of the area of disturbance. (Note that "major development" projects must comply with the requirements in Tewksbury Township Development Regulation Ordinance – Article VI – Sections 625 and 626, and with New Jersey Department of Environmental Protection Stormwater regulations, N.J.A.C. 7:8, must receive a Request For Authorization (RFA) to discharge stormwater from the Hunterdon County Soil Conservation District, and must obtain approval if required under the Highlands Water Protection and Planning Act, if the property is within the Highlands Preservation Area.)
- The location, alignment, dimensions and construction details for any existing or proposed driveways, parking and turnaround areas. Driveways shall be designed in accordance with Chapter 12.08 of the Code of the Township of Tewksbury.
- A driveway profile shall be submitted for each proposed driveway.
- The elevation of the finished garage floor, first floor and lowest floor of the proposed structures.
- Measures to mitigate the increase in runoff from impervious surfaces in accordance with the New Jersey Department of Environmental Protection Best Management Practices, such as swales, natural retention areas and dry wells. (When used, drywells shall be constructed of precast concrete and typically sized to store three (3) inches of rainfall over the area of the structure, shall be equipped with 6" PVC overflow piping with riprap protection where it daylights, shall be backfilled on all sides and bottom with min. 12" of 1-1/2" to 2-1/2" washed gravel, be surrounded with filter fabric and connected to the dwelling with 6" PVC. All drainage piping associated with dry wells is to be no less than 6" PVC, minimum Schedule 40. Permanent markers shall be provided for all drywells; Minimum 2 feet separation between bottom of the drywell excavation and seasonal groundwater table or bedrock shall be provided.)
- Soil testing at the exact location of the proposed stormwater management measure infiltration area. All soil profile pits, soil borings, and soil permeability tests and associated documentation shall be conducted under the direct supervision of a licensed New Jersey professional engineer; all documentation shall be provided for the file, along with the Engineer's

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certification that the soils are suitable for the stormwater management structures proposed.

- The location of:
  - all roof leader drains,
  - dry wells,
  - water supply wells,
  - overhead and underground utility lines,
  - and any individual subsurface sewage disposal systems with the minimum required separation distances (NJAC7:9A – Standards for Individual Subsurface Sewage Disposal System).
  - or a note to indicate the absence of any of the above on the site.
- Proposed grading at 2-foot contour intervals.
- Required building setback lines showing the building envelope and required buffers from environmentally sensitive areas.
- Proposed retaining walls accompanied by top and bottom of wall elevations and construction details with a note stating that the maximum exposed wall height is 4 feet. Walls with heights exceeding 4 feet shall be accompanied by stability calculations performed by a New Jersey licensed engineer.
- Proposed soil erosion and sediment control measures in conformance with "Standards and Specifications for Soil Erosion and Sediment Control in New Jersey," adopted by the Hunterdon County Soil Conservation District, latest edition.
- Drainage swales uphill of all structures and sewage disposal systems to divert runoff away from these features.
- A detailed list and calculation of the existing and proposed impervious coverage, and a statement indicating whether the impervious coverage meets the requirements set forth in the Subdivision and Zoning ordinance.
- A table showing the actual and proposed distances of existing and proposed development from property lines, and listing the bulk zoning requirements (minimum yards, setbacks, and the like) in the Zoning ordinance which are applicable to the involved lot, and demonstrating that there will be no violation of the Zoning ordinance by the proposed development. A footnote shall list all impervious areas (with the square foot indicated) constructed within 3 years prior to the application for the GSWMP approval.
- A calculation of the Floor Area Ratio (FAR) as required by the Zoning ordinance.
- Schedule of sequence of installation/construction; notification of start of construction.

Failure or inability to comply with any of the above standards or submission requirements shall be grounds for denial of the grading and surface water management plan.

Waivers requests shall be submitted with adequate justification on separate sheet.