## STORM WATER MANAGEMENT PERMIT CHECKLIST FOR APPLICANT

Below are some basic points we are looking for in a storm water management permit application.

It is not an all-inclusive list and the applicant needs to consult the City of West Bend Storm Water Management Ordinance for information about what more is needed for storm water management plan application.

- 1. Completed application form with date and signature
- 2. Application fee of \$50.00
- 3. Legal description of property
- 4. One (1) copy of a report with hydraulic computations using Soils Conservation Service TR-55 dated June 1986, showing how the property development complies with the City of West Bend Storm Water Management Ordinance in the design storms for 2-year, 10-year and 100-year events (see section 23.03) with the following elements:
  - 24hr rainfalls values used by the City for the design storms are 2.70 inches in the two-year storm, 3.9 inches in the ten-year storm, 5.6 inches in the one-hundred-year storm.
  - In curve number tables, the report must indicate for each watershed: the areas <u>in square-feet</u> (acres and square-miles can also be displayed), the soils types, series names, hydrologic soils groups, cover description, and corresponding curve numbers.
  - If public storm sewer is proposed, storm sewer analysis showing the details (flow coming to pipe vs pipe capacity) for the 10-year and the 100-year events, including at each catch basin structure: inlet capacity and amount of water left flowing on the surface.
  - For all ditches and storm outfalls: velocity in ditches and at outfalls with specific proposed cross-section, and stabilization based on velocity. Also show pipe materials, diameters, lengths and invert elevations at each end on the plans.
  - When applicable, storage basin table indicating surface in square-feet for chosen elevations within the basin.
  - As indicated in the City's Storm Water Management (SWM) Ordinance §23.03(2),
    Storm Water Management facilities shall be consistent with the "Storm Water
    Management System Plan For The City Of West Bend, Washington County,
    Wisconsin", developed by the Southern Wisconsin Regional Planning Commission
    (SEWRPC) within their community assistance program (Planning Report No. 173).
    See the full text in the SWM Ordinance for further details.

The SWM Ordinance can be found online on the City Website as Chapter 23 of the Municipal code, or by following one of the links below and clicking on "Chapter 23":

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http://www.ci.west-

bend.wi.us/Departments/Engineering/StormWaterManagementPermit.htm

## http://www.ci.west-bend.wi.us/Municipal%20Code/municipal\_code.htm

- 5. Plans: see section 23.04 of Municipal Code.
- 6. One (1) copy of a topographic map of the site in the <u>pre-developed</u> conditions, with a minimum scale of 1"=100', showing watershed delineations, soils types, existing contours and the path chosen for the time of concentration (Tc). Indicate elevations at the beginning and end of each segment of the travel time (Tt) path.
- 7. One (1) copy of a topographic map of the site in the <u>post-developed</u> conditions, with a minimum scale of 1"=100', showing watershed delineations, soils types, proposed contours and the path chosen for the time of concentration (Tc). Indicate elevations at the beginning and end of each segment for all Tt paths.
- 8. Proposed grading plan with a minimum scale of 1"=100', showing both pre-developed and post-developed contours (2 copies), proposed storm sewer (if applicable) with structures numbered, all ditch designs (cross-section and proposed stabilization), and pond details (contours, inlet and outlet structures, outfall capacities, normal water surface elevation, emergency spillway design, infiltration areas, etc...).

In addition to the above, the project may also be subject to permit requirements from other Agencies, for example:

- Wisconsin Department of Natural Resources (Chapter 30 permit; NR 216; NR 151 etc...)
- Army Corps of Engineers
- Wisconsin Department of Commerce

The applicant shall be responsible for checking with all appropriate Agencies.

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