

Example SITE PLAN REVIEW CHECKLISTS

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EXAMPLE Site Plan Review Checklists

1.0. INTRODUCTION

Site design and plan review checklists provide general guidance for both the designer and plan reviewer. Many items listed on the checklists may not apply to any given design and it is therefore up to the designer to indicate items as “*not applicable*” or “*NA*” as appropriate. Similarly, the reviewer must be able to distinguish which items are required based on the local conditions or requirements and verify the status of those items. These checklists serve as a tool for providing the designer with the necessary information needed to develop an approvable plan, as well as for providing the program authority with a consistent plan review procedure.

2.0. EXAMPLE CHECKLIST FOR AN *PRELIMINARY* STORMWATER MANAGEMENT SITE PLAN PREPARATION AND REVIEW

1. Applicant Information

Initial/Preliminary Plan Submission Date _____
Project Name _____
Site Plan/Permit Number _____
Site Address _____
Applicant _____ Phone Number _____
Applicant Legal Address _____
Owner _____ Phone Number _____
Principal Designer _____ Phone Number _____
General Contractor _____ Phone Number _____

2. Plan Status

_____ Approved
_____ Not Approved

Legend: ☐ - Complete
 Inc. - Incomplete/Incorrect
 N/A - Not Applicable

3. _____ Common address (with latitude and longitude coordinates or GPS position) and legal description of the site, including the tax reference number(s) and parcel number(s) of the property or properties affected.

4. Existing and proposed mapping and plans (recommended scale of 1" = 50', or greater detail), which illustrates the following at a minimum:

_____ North arrow
_____ Legend
_____ Vicinity map
_____ Existing and proposed topography (minimum of 2-foot contours recommended)
_____ Property lines
_____ Perennial and intermittent streams
_____ Mapping of predominant soils from USDA soils surveys
_____ Boundaries of existing predominant vegetation, areas of the site to be protected from disturbance, and proposed limits of clearing and grading

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- _____ Location and boundaries of natural feature protection and conservation areas, such as wetlands, lakes, ponds, aquifers, public drinking water supplies, and applicable setbacks, etc.)
- _____ Identification of any on-site or adjacent water bodies included on the Virginia 303(d) list of impaired waters
- _____ Current and proposed land use and location of existing and proposed roads, buildings, parking lots and other impervious areas
- _____ Location and description of any planned demolition of existing structures, roads, etc.
- _____ Location of existing and proposed utilities [e.g., water (including wells), sewer (including septic systems), gas, electric, telecommunications, cable TV, etc.] and drainage and other easements
- _____ Preliminary estimates of unified stormwater sizing criteria requirements
- _____ Preliminary identification and calculation of stormwater site design credits, if any apply
- _____ Preliminary selection and location of stormwater control measures
- _____ Location of existing and proposed conveyance systems, such as storm drains, inlets, catch basins, channels, swales, and areas of overland flow
- _____ Flow paths
- _____ Location of floodplain/floodway limits and relationship of site to upstream and downstream properties and drainages
- _____ Preliminary location of all contributing drainage areas and points of stormwater discharge, receiving surface waters or karst features into which stormwater discharges, the pre-development and post-development conditions for drainage areas, and the potential impacts of site stormwater on adjoining parcels
- _____ Note all critical areas on the plan, such as critical slopes.

5. Hydrologic and hydraulic analysis, including the following:

- _____ A hydrologic analysis for the existing (pre-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
- _____ A hydrologic analysis for the proposed (post-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
- _____ Hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms
- _____ Preliminary sizing calculations for stormwater control measures, including contributing drainage areas, storage, and outlet configurations
- _____ Preliminary analysis of the potential downstream impacts/effects of the project, where necessary

6. _____ Preliminary erosion and sediment control plan that, at a minimum, meets the requirements outlined in the Virginia Erosion and Sediment Control Regulations and Handbook

7. _____ Preliminary landscaping plans for stormwater control measures and any site reforestation or revegetation

8. _____ Preliminary identification of waiver/exception requests

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**3.0. EXAMPLE CHECKLIST FOR A FINAL STORMWATER MANAGEMENT
SITE PLAN PREPARATION AND REVIEW**

1. Applicant Information

Final Plan Submission Date _____
Project Name _____
Site Plan/Permit Number _____
Site Address _____
Applicant _____ Phone Number _____
Applicant Legal Address _____
Owner _____ Phone Number _____
Principal Designer _____ Phone Number _____
General Contractor _____ Phone Number _____

**2. _____ Signature and stamp of licensed professional consultant and owner
certification**

3. Plan Status

_____ Approved

_____ Not Approved

Legend:

☐ _____ - Complete

Inc. - Incomplete/Incorrect

N/A - Not Applicable

**4. _____ Common address and legal description of the site, including the tax reference
number(s) and parcel number(s) of the property or properties affected.**

**5. _____ A narrative that includes a description of current site conditions and
proposed development and final site conditions, including proposed use of
environmental site design techniques and practices, stormwater control measures,
relevant information pertaining to long-term maintenance of these measures (see item
#12 below), and a construction schedule.**

**6. Existing and proposed mapping and plans (recommended scale of 1" = 50', or greater
detail), which illustrates the following at a minimum:**

_____ North arrow

_____ Legend

_____ Vicinity map

_____ Existing and proposed topography (minimum of 2-foot contours recommended)

_____ Property lines

_____ Perennial and intermittent streams

_____ Mapping of predominant soils from USDA soils surveys as well as the location of any
site-specific test bore hole investigations that may have been conducted and information
identifying the hydrologic characteristics and structural properties of soils used in the
installation of stormwater management facilities

Boundaries of existing predominant vegetation and proposed limits of clearing and
grading

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- _____ Location and boundaries of natural feature protection and conservation areas (e.g., wetlands, lakes, ponds, aquifers, public drinking water supplies, etc.) and applicable setbacks (e.g., stream buffers, drinking water well setbacks, septic drainfield setbacks, building setbacks, etc.)
- _____ Identification of any on-site or adjacent water bodies included on the Virginia 303(d) list of impaired waters
- _____ Current land use and location of existing and proposed roads, buildings, parking lots and other impervious areas
- _____ Location and description of any planned demolition of existing structures, roads, etc.
- _____ Proposed land use(s) with a tabulation of the percentage of surface area to be adapted to various uses, including but not limited to planned locations of utilities, roads, parking lots, stormwater management facilities, and easements
- _____ Location of existing and proposed utilities [e.g., water (including wells), sewer (including septic systems), gas, electric, telecommunications, cable TV, etc.] and easements
- _____ Earthwork specifications
- _____ Selection, location and design of both structural and non-structural stormwater control measures, including maintenance access and limits of disturbance
- _____ Storm drainage plans for site areas *not* draining to any BMP(s)
- _____ Location of existing and proposed conveyance systems, such as storm drains, inlets, catch basins, channels, swales, and areas of overland flow, including grades, dimensions, and direction of flow
- _____ Final drainage patterns and flow paths
- _____ Location of floodplain/floodway limits and relationship of site to upstream and downstream properties and drainage systems
- _____ Location of all contributing drainage areas and points of stormwater discharge, receiving surface waters or karst features into which stormwater discharges, the pre-development and post-development conditions for drainage areas, and the potential impacts of site stormwater on adjoining parcels
- _____ Location and dimensions of proposed channel modifications, such as bridge or culvert crossings
- _____ Final stabilization and landscaping plans

7. Hydrologic and hydraulic analysis, including the following:

- _____ Site map with locations of design points and drainage areas (size in acres) for runoff calculations
- _____ Identification and calculation of stormwater site design credits, if any apply
- _____ Estimates of unified stormwater sizing criteria requirements
- _____ Time of concentration (and associated flow paths)
- _____ Imperviousness of the entire site and each drainage area
- _____ NRCS runoff curve numbers or volumetric runoff coefficients
- _____ A hydrologic analysis for the existing (pre-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
- _____ A hydrologic analysis for the proposed (post-development) conditions, including runoff rates, volumes, and velocities, showing the methodologies used and supporting calculations
- _____ Hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms
- _____ Pollution load and load reduction requirements and calculations

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- _____ Final good engineering and sizing calculations for stormwater control measures, including contributing drainage areas, storage, and outlet configurations, verifying compliance with the water quality and water quantity requirements of the regulations
- _____ Stage-discharge or outlet rating curves and inflow and outflow hydrographs for storage facilities
- _____ Final analysis of the potential downstream impacts/effects of the project, where necessary
- _____ Downstream analysis, where detention is proposed
- _____ Dam safety and breach analysis, where necessary

8. Representative cross-section and profile drawings and details of stormwater control measures and conveyances which include the following:

- _____ Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.)
- _____ Design water surface elevations
- _____ Structural details of BMP designs, outlet structures, embankments, spillways, grade control structures, conveyance channels, etc.

9. _____ Applicable construction and material specifications, including references to applicable material and construction standards (ASTM, etc.)

10. _____ Erosion and sediment control plan that, at a minimum, meets the requirements outlined in the Virginia Erosion and Sediment Control Regulations and Handbook

11. _____ Landscaping plans for stormwater control measures and any site reforestation or revegetation

12. Operations and maintenance plan/agreement that includes the following:

- _____ Name, legal address and phone number of the party or parties responsible for long-term maintenance activities
- _____ Description and schedule of maintenance tasks
- _____ Identification/description of the source of funding to support maintenance activities
- _____ Description of access and safety issues
- _____ Procedures for testing and disposal of sediments, if required
- _____ Right-of-entry authorization for local government inspections/repairs, as needed

13. _____ Evidence of acquisition of all applicable local and non-local permits

14. _____ Waiver/exception requests

15. _____ Evidence of acquisition of all necessary legal agreements (e.g., easements, covenants, land trusts, etc.)

16. _____ Applicable supporting documents and studies (e.g., infiltration tests, geotechnical investigations, TMDLs, flood studies, etc.)

17. _____ Other required permits