

Stormwater Plan Final Design Checklist for Residential and Commercial Developments.

REVISED 08/24/16

Please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, please put N/A. Beaufort County reserves the right to modify this checklist at any time. For stormwater questions please contact Public Works Stormwater Division at 843-255-2805.

Project Name: _____

Checklist Completed by _____

Printed Name: _____

Signature: _____

Date: _____

1. CURRENT COMPLETED APPLICATION FORM/DHEC NOI

- All items in the checklist should be submitted inserted in your final permit plans

2. VICINITY MAP

- Include North arrow and scale
- Outlined project location
- Road names
- Public or private Right of Way
- Location Map

3. COVER SHEET

- Project Name
- Engineer's Contact Information (name, mailing address, telephone, fax, email)
- Developer's Contact Information (name, mailing address, telephone, fax, email)
- Contractor's Contact Information (name, mailing address, telephone, fax, email)

4. SITE PLAN CHECKLIST

- Size of plans should be 24" x 36"
- Engineer stamp and signature in blue ink.
- Plans to Scale and North Arrow
- Contours are to be tied to a known datum, no **assumed** elevations,
- Lot Layout
- Property lines, adjacent landowners' names
- Existing and proposed contours for entire parcel.
- Limits of disturbed area outlined on the plans.
- Road and Ditch profiles with existing and proposed ground elevations (if no contours are shown on the plans).
- Construction entrance/exit
- Standard notes (See Item #15 of this checklist)
- Individual lot erosion control plan and contours (unless exempt)

5. USGS TOPOGRAPHIC MAP

- Project boundary outlined
- Route of runoff from site to nearest waterbody shown
- Critical areas downstream of site indicated

6. SOILS INFORMATION

- Predominate soil types found at the site identified on the plans or on a separate map

7. FLOODWAY MAPS/FEMA FLOOD INSURANCE MAP

- Project boundary outlined, if in close proximity of floodplain/floodway

8. WETLANDS/WATERS-OF-THE-STATE (WOS)

- Delineation of all waters of the State (WoS), including wetlands, shown and labeled on plans
(Delineation not required if a 100-ft buffer can be maintained between the WoS and all land disturbing activities)
- Additional, separate plan sheet that shows all WoS, on the site and the impacted areas with a description of the activity(s), whether it is permanently or temporary, and any other relevant

9. PERMANENT STORMWATER MANAGEMENT STRUCTURE MAINTENANCE PLAN

- Signed Maintenance Agreement from a responsible party accepting ownership and maintenance of the structure or BMP. This document needs to be recorded with the Beaufort County Register of Deeds.

10. TMDL/ 303d IMPAIRED WATERBODIES

- List the nearest SCDHEC Water Quality Monitoring Station (WQMS) that the site's stormwater discharges drain to and the waterbody on which it is located.

11. NAVIGABLE WATERS

- Extra plan sheet showing impacts to navigable water and description of activity included if S.C. Navigable Waters (SCNW) crossing and separate SCNW permit has not been obtained for all activities

12. DRAINAGE AREA MAPS & REPORT

- Provide drainage area map outlining the area draining to all erosion and sediment control BMPs on site. Show existing and proposed contours for the road layout and BMP placement.
- Place calculated design flows on each pipe and BMPs
- Time of concentrations
- Curve numbers for each drainage area.
- Routing hydrographs for the 2,5,10,25, and 100-year storm event
- Pipe capacities for the design storm
- Basin stage/storage and stage discharge calculations
- Pre drainage area map (site without proposed development)
- Post drainage area map (with proposed development)
- Include off-site drainage areas
- Label watershed areas within the drainage area map with (watershed identifier, CN, area, length, slope)

13. AS-BUILTS

- Submit 2 original asbuilt hard copies, signed and sealed by a South Carolina Licensed Land Survey or Engineer. Submit one digital copy of asbulits in GIS format .lyr, shp or gdb file with the coordinate system being state plane NAD_1983_StatePlane_South_Carolina_FIPS_3900_Feet_Intl

14. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

- Cover and title page
- Project and SWPPP contact information
- Site and activity description including site map
- Identification of potential pollution sources including but not limited to: trash, paint and concrete washout, vehicle maintenance practices, etc.
- Description of controls to reduce pollutants
- Construction sequence
- Time schedule for each activity on the construction sequence
- Maintenance and inspection procedures
- Records of maintenance activities and inspections
- SWPPP amendments
- SWPPP certifications

15. STANDARD NOTES:

1. If necessary, slopes which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction.
2. Temporary berms may be needed until the slope is brought to grade.
3. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
4. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
5. Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.
6. All sediment and erosion control devices shall be inspected every seven (7) days. Damaged or ineffective devices shall be repaired or replaced, as necessary. OR
All sediment and erosion control devices shall be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. Damaged or ineffective devices shall be repaired or replaced, as necessary.
7. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the State.
8. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during

construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.

9. The contractor must take necessary action to minimize the tracking of mud onto the paved roadway construction areas. The contractor shall daily remove mud/soil from pavement, as may be required.
10. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
11. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in stormwater discharges.
12. Provide written proof that all off-site easements have been obtained. (include implementation of all stormwater and sediment controls in the first phase of construction).

16. APPLICANT AND DEVELOPER CERTIFICATIONS

- The following certifications must be signed on all final sets of plans

Applicant's Certification

I (We) hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and I (we) are responsible for the land disturbance and related maintenance thereof. Beaufort County authorities will be allowed to enter the project site for the purposed of on-site inspections.

Date Owner/Person Financially Responsible

Print Name of Owner/Person Financially Responsible

Designer's Certification

"I hereby certify that this plan is designed to contain soil on the property concerned to the maximum extent, to provide for the protection of the property and the proposed improvements thereon from the effects of flooding, to provide for the control of the runoff from the property, and that all the provisions for sediment control and storm drainage are in accordance with the Stormwater Best Management Practices and Stormwater Ordinance for Beaufort County, South Carolina."

Date Designer's Signature and Certification

Print Name of Designer