

# TYPICAL FORMS

## Engineer/Surveyor Certification Drainage Plan, Major Subdivisions

(LETTERHEAD)

\_\_\_\_\_ Date

Pender County Planning Dept.  
805 S. Walker St.  
Burgaw NC 28425

Ref. Drainage Plan Required for \_\_\_\_\_  
Name and Section of Subdivision

**This will provide certification that the drainage plan prepared by me or under my supervision complies with the following requirements for the above referenced subdivision and section:**

1. The drainage plan includes and provides for storm water runoff of all portions of the development, including all lots and their area, open space, recreation areas, streets, access, parking, proposed or typical structures and other areas.
2. The drainage plan and drainage facilities will accommodate the storm water flow for the ten-year frequency storm for the above areas without flooding or substantial ponding of water in these areas.
3. The drainage plan and drainage facilities will accommodate the ten year frequency storm water discharge from all properties in upland portions of the drainage basin within which this development is located and other properties that drain to or through this development.
4. The drainage facilities downstream from the points of discharge from this development to the recipient perennial stream will accommodate the 10-year storm water discharge from this development and other areas upstream without over flowing their banks.
5. This development will not:
  - a. cause an increase in flooding upstream or downstream during the ten year frequency storm;
  - b. a hydrologic and hydraulic analysis has been completed, to determine the pre-developed 10-year peak discharge and associated water surface elevation where the storm water enters and/or leaves the property;
  - c. the increase in post development over pre-development peak discharge for the ten year frequency storm is less than 10%;
  - d. the post development peak discharge for the ten year frequency storm is less than 10% of the peak discharge of the receiving drainage way;
  - e. this development provides on-site detention of the ten year, 24-hour storm and there is no increase in the pre-developed peak discharge for the ten year 24-hour storm at the points of discharge;
  - f. this development provides on-site detention of the ten year, 24-hour storm and there is no increase in the pre-developed peak discharge for the ten year 24-hour storm at the points of discharge, and does not encroach on the drainage way floodplains; and
  - g. wet or dry detention ponds located on the site are designed to safely pass the 100-year, 24-hour storm without overtopping the top of the impoundment or dam.

**(Items # 1-4 are mandatory and all items in # 5 that apply should be included in the certification)**

This certification is provided this \_\_ day of \_\_\_\_\_, 200\_\_, to comply with the requirements of the Pender County Subdivision Ordinance, Subdivision Checklist and specifications contained therein.

\_\_\_\_\_  
Surveyor Signature  
(SEAL)

and/or

\_\_\_\_\_  
Engineer Signature  
(SEAL)

\_\_\_\_\_  
Surveyor Name

\_\_\_\_\_  
Engineer Name