



Forsyth County Department of Engineering

CLEARING AND GRADING PLAN CHECKLIST

PROJECT NAME _____
PERMIT/PROJECT # _____ **REVIEW DATE** _____
REVIEWED BY _____

Please address all items marked with an "X" below, as well as any additional comments on this checklist or on the redlined plans. Please return this checklist and the redlined plans when resubmitting in order to speed up the revised plan review.

GENERAL INFORMATION:

1. _____ Provide name of Developer and/or Owner with their address and telephone number.
2. _____ Add note: "All improvements to conform with Forsyth County Construction Standards and Specifications, latest edition."
3. _____ Add note: "No structures, fences or other obstructions may be located within a drainage or access easement without prior approval by the Forsyth County Department of Engineering."
4. _____ Add note: "Approval of these plans does not constitute approval by Forsyth County of any land disturbing activities within wetland areas. It is the responsibility of the property owner to contact the appropriate regulatory agency for approval of any wetland area disturbance."
5. _____ Provide a note stating the disposition of the property with regard to the flood plain. State the source (FIRM Panel Number with date of map or flood study) and show flood elevations and boundaries if applicable.
6. _____ Add Note on all sheets: "Notify Forsyth County Inspector 24 hours before the beginning phase of construction. (770) 781-2165."
7. _____ Add Note: "Approval of these plans by Forsyth County is subject to, and contingent upon the applicant obtaining any and all necessary approvals from any and all applicable agencies including, but not limited to the United States Army Corps of Engineers, the United States Environmental Protection Agency, the USDA-NRCS, Georgia Department of Natural Resources, Georgia Environmental Protection Division, and the Georgia Soil and Water Conservation Commission."
8. _____ Add note: Maximum cut slopes shall be 2 horizontal to 1 vertical. Continuous fill slopes ten (10) feet in height or less may be 2 horizontal to 1 vertical. All continuous fill slopes that exceed ten (10) feet in height must be 3 horizontal to 1 vertical unless: (a) a mechanically engineered stabilized slope is approved by the Forsyth County Director of Engineering; or (b) the designed and constructed slopes are certified by a registered engineer experienced in geotechnical engineering and licensed in the State of Georgia.
9. _____ Vicinity map.
10. _____ North arrow.

11. _____ Seal and signature of registered professional engineer or registered land surveyor on all sheets.
12. _____ Topographic map with all elevations referenced to mean sea level and a contour interval equal to 2 feet and all finish contours.
13. _____ Graphic scale.
14. _____ Benchmark used. Show location and elevation on plans.
15. _____ Origin of survey.
16. _____ All boundaries with bearing and distances shown.
17. _____ Provide encroachment agreement for offsite work.
18. _____ Add Note: All undisturbed buffers shall be identified with orange, four-foot tree-save fencing prior to any land disturbance (UDC Sec. 18-10.1).
19. _____ Provide on plans a copy of the text from NPDES Permit GAR10001, GAR100002 or GAR100003 (as applicable), **Part IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, Inspections, Primary Permittee**, paragraphs (1) thru (6). Also provide a copy of the NOI.
20. _____ Provide a performance bond for land disturbance activity as per **Forsyth County Ordinance #73**, Section V: APPLICATIONS/PERMIT PROCESS, *Subsection B. Application Requirements*, paragraph 7(b). The bond amount is \$3,000.00 per acre or fraction thereof of the proposed land disturbance activity. Bond approval is required prior to scheduling a pre-construction meeting.

ENTRANCE(S):

21. _____ Proposed entrance/construction exit location and details must be approved by the Georgia Department of Transportation, Gainesville District prior to the issuance of a land disturbance permit.

DRAINAGE:

22. _____ Submit Stormwater Management Report.
23. _____ **Stormwater Management Report must be approved prior to scheduling a plan sign-off. Contact Renee Hoge at rphoge@forsythco.com for comments. Schedule an appointment with Renee Hoge to review hydrology report comments.**
24. _____ Acreage of all off-site drainage areas contributing to flow thru the project. Show on plans or note if no off-site drainage.
25. _____ Provide a post-developed drainage basin area map in clearing/grading plans.
26. _____ Plan and profile of all pipes including grade, type of pipe, 100 year HGL, elevations, proposed cover, manholes and headwalls.
27. _____ Minimum of 12" of compacted fill material required over all pipes. Minimum 2.8 feet – top of pipe to top of finish pavement - required over pipes under roadway.
28. _____ Storm sewer slopes must be greater than or equal to 1%.
29. _____ All storm drain pipes will be a minimum of 18" in diameter
30. _____ All storm drain pipe must be concrete under pavement within right of way.
31. _____ All storm drain pipes with > fifteen (15) feet cover shall be concrete. > 15' to < 20' cover shall be Class IV. > 20' cover shall be Class V.

- 32. _____ 100-Year upstream headwater elevation at pipes to be shown by labeling elevation and outlining contour at that elevation. This contour will be the drainage easement if it extends outside of the 20' drainage easement.
- 33. _____ Show details for all proposed storm drainage structures per Forsyth County Standards.
- 34. _____ Stormwater N.P.D.E.S. comments must be satisfactorily addressed prior to plan approval. Schedule an appointment with Simon Wilkes, CPESC, smwilkes@forsythco.com for N.P.D.E.S. approval.
- 35. _____ Pipe to discharge into natural draw or graded ditch with rip-rap ditch checks. Size rip rap aprons and provide dimensions on plans, including apron depth.
- 36. _____ Provide channel protection and/or permanent energy dissipation (in addition to rip-rap) at all outlets having a discharge velocity greater than 5 fps or a Froude Number greater than 2.5.
- 37. _____ Provide complete pipe chart including pipe size, pipe gauge or class, time of concentration, runoff coefficient, rainfall intensity, drainage area, and outlet velocity. Design for 25-year storm. The 100 year storm shall be used on live streams, cross drains serving 20 acres or larger, and any pipe receiving off-site drainage.
- 38. _____ Minimum 20' storm drainage easement on all storm drain pipes, drainage swales and water courses receiving off-site drainage.
- 39. _____ Minimum 20' drainage/access easement from public right-of-way required for all stormwater facilities.
- 40. _____ Add Note: Modular retaining wall design must be submitted to the Forsyth County Department of Engineering for approval prior to construction plan approval. Wall design must include details and specifications that are site specific and must be signed and sealed by a registered professional engineer in the State of Georgia. All walls greater than thirty (30) inches in height shall include a fence or handrail along the top. □ Provide spot top and bottom wall elevations on grading plan.

ADDITIONAL COMMENTS:
