

APPENDIX K

DRAINAGE REVIEW REQUIREMENTS	
	Minimum culvert size shall be 18 inches, and maximum velocity shall be 15 feet per second.
	Locate catch basins with 600 feet maximum spacing, designed for the 25-year storm event. Maximum allowable gutter spread is 8 feet for collector or arterial streets, and 10 feet for local streets.
	Show nearest existing catch basin and/or drop inlets that receive water from this development.
	Provide design calculations for all storm drainage structures, pipes, and channels: <ul style="list-style-type: none"> a. Longitudinal culverts and storm sewer pipes (i.e. those that run along the roadway) shall be designed for the 25-year storm event. The 25-year hydraulic grade line (HGL) must be contained within the pipe. b. Transverse culverts and storm sewer pipes (i.e. those that cross under the roadway) shall be designed for the 100-year storm event. The 100-year HGL must be at least 12 inches below the lowest pavement elevation. c. Channels shall be designed for the 25-year storm event, at minimum.
	Show backwater caused by flow constriction at inlets, culverts, channels, etc. Limit backwater to within the property.
Storm Drainage / Grading Plan	
	a. Show existing and proposed contours, clearly distinguishable. Identify drainage structures as existing or proposed.
	b. Show drainage easements drawn with width dimensions specified. Provide easements with widths in accordance with Table 12.6.1 Section 113-146. In general, pipes over 8 feet in depth require easements wider than 20 feet. Minimum drainage easement width is 20 feet.
	c. Delineate and label any flood zone within the site.
	d. Label roadway highpoints on the center line of the roadway.
	e. Show the limits of proposed construction to be permitted.
	f. Clearly note this statement on plans: Call Before You Dig 811 or (800) 282-7411
	g. Profile all existing/proposed storm pipes above which land disturbance will occur and provide pipe chart with at minimum showing inverts, flow rate, velocity, pipe material and size. Provide storm structure numbers. Provide a separate storm structure chart with structure numbers, type of structure, and 25-year gutter spread.
	h. Reference all storm drainage structures (e.g. catch basins, drop inlets, headwalls, etc.) to Fayetteville or other standard (GDOT, etc.) or provide complete detail(s) if not a public standard.
	i. Storm drainage structures are not allowed within the radius of a curb.
	j. Provide outlet velocity at outlet structures (i.e. storm pipe chart, riprap design).
	k. Storm drainage structures shall discharge into natural draws or drainage channels/swales.
	l. Provide adequate drainage near entrance driveways.
	m. For all permit revisions, submit a letter stating the proposed changes. These changes should be highlighted on all sheets affected.
	n. Show Rational Coefficient, Time of Concentration, and drainage area delineated and labeled for each proposed inlet structure.