

TOWN OF MIDDLETOWN
LINES & GRADES CHECKLIST
Sheet 1 of 3

Standard Submission Requirements

- ___ Completed checklist signed, sealed and certified by DE. P.E./P.L.S.
- ___ One copy of all necessary calculations signed, sealed and certified by a DE. P.E./P.L.S.
- ___ Two sets of plans: 24"x36", all signed, sealed and certified by a DE. P.E./P.L.S.
- ___ Review fee – checks payable to New Castle County, Re: N.C.C. Ordinance #92-143, adopted July 14, 1992

Index Sheet

- ___ Title block – hundred, county, and state
- ___ Owner/Developer – name, address, and phone number
- ___ Engineer – name, address, and phone number
- ___ Revision box
- ___ Index of sheets
- ___ Scale
- ___ Date
- ___ North arrow
- ___ Location map
- ___ Legend
- ___ Professional Engineer/Land Surveyor certification for accuracy of the topography and compliance with the applicable codes and standards.

All other sheets

- ___ North arrow
- ___ Title block – hundred, county, and state
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- ___ Scale
- ___ Date
- ___ Location map
- ___ Legend
- ___ Existing topo @ 2' intervals
- ___ Proposed topo @ 2' intervals
- ___ Spot shots: existing & proposed high and low points as necessary to illustrate drainage patterns
- ___ Flow arrows as necessary to illustrate proposed drainage patterns
- ___ Parcel boundaries
- ___ Proposed lots with lot numbers
- ___ Existing buildings and their use
- ___ Proposed buildings and their F.F. elevations, corner elevations, basement elevations.
(Indicate if basement is to be sewer)

- ___ Lowest sewered floor elevations must be at least 5' higher than the corresponding sewer lateral invert elevation.
- ___ Outside grade elevations at corners of all structures and at other locations as necessary to illustrate drainage patterns.
- ___ Sufficient demonstration of protective slopes around structures per BOCA Code and N.C.Co. Drainage Code.
- ___ Dimension building restriction lines
- ___ Delineate wetlands, floodplains, steep slopes, WRPA's and the extent of disturbance in these areas. (A buffer of an adequate width must be provided between the limits of grading and the extent of disturbance).
- ___ Delineate open space
- ___ Cross-sectional details of all proposed swales with construction specifications if not provided on stormwater management/drainage plans.
- ___ Limit of Construction
- ___ Match lines
- ___ Stabilized construction entrance(s)
- ___ Silt fence(s)
- ___ Proposed street R.O.W.S, width
- ___ Street center line stations
- ___ Street station and elevation at high and low points
- ___ Proposed curbing
- ___ Proposed sidewalks
- ___ Proposed driveways
- ___ Proposed entrances
- ___ Proposed easements
- ___ Existing easements
- ___ Proposed water service
- ___ Proposed sanitary sewer
- ___ Proposed sanitary sewer clean-outs: invert elevations at main sewer line and at clean out(s)
- ___ Proposed storm drains
- ___ Proposed manholes
- ___ Proposed catch basins
- ___ Proposed plugs and caps
- ___ Proposed laterals (all laterals shall be 6" PVC with cleanouts located just outside the right-of-way line)
- ___ Put directional arrows to show flow direction from high points for sewer lines
- ___ Details
- ___ Erosion and sediment control measures with locations and details where a separate erosion and sediment control plan is not submitted.
- ___ Full construction details and design calculations for grinder pump and forcemain for single home, if applicable

Required Notes

- ___ General Notes
- ___ Sanitary Sewer Lateral Data
- ___ Tax Parcel Numbers

— Note: All site improvements including landscaping, permanent site stabilization, and permanent stormwater management facilities shall be in place and approved prior to issuance of certification of occupancy.