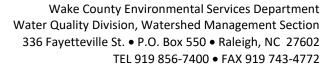
CD 22-05 V2 COMMENTS



Wake County Environmental Services Department Water Quality Division, Watershed Management Section 336 Fayetteville St. ● P.O. Box 550 ● Raleigh, NC 27602 TEL 919 856-7400 ● FAX 919 743-4772

| Project Na | me _ | The Pointe Phases 11-13 | Watershed | Lower Neuse | Jurisdiction | Rolesville |
|---|--|--|--|--|---|--|
| | | | Date | | | |
| | | | Processing | | Disturbed | |
| Date Recei | ved | 11/14/2022 | Initiated | 11/21/2022 | Acreage | 26.29 |
| | | | S&E | | | |
| S&E Per | - | | Plan Review | | S&E Permit | |
| Num | ber _ | SEC-092420-2022 | Fee _ | \$ 6572.00 PAID | Fee | \$ 6572.00 PENDING |
| | | | SW | | | |
| SW Per | | | Plan Review | | SW Permit | |
| Num | ber _ | SWF-092425-2022 | Fee _ | \$ 2500.00 PAID | Fee | \$ 2500.00 PENDING |
| | | | | | | |
| Applicant: | | | Engineer: | : | | |
| | | aleigh Residential LLC | Name: | Todd O'Daniel - N | | |
| | | lgefield Drive, Suite 335 | | 2905 Meridian Pa | • | |
| Address: | Raleigh | ı, NC 27609 | Address: | Durham, NC 2771 | 13 | |
| Phone: | 919-22 | 9-3238 | Phone: | 919-475-6439 | | |
| Email: | Raymo | nd.rinker@ashtonwoods.com | Email: | odaniel@mcadar | nsco.com | |
| Plan Date/Revision Date: 1/11/2022 PRELIMINARY | | | | | | |
| Plan Date/ | IVEAISI | on pate: 1/11/2022 PRELIMIN | ANI | | | |
| | | Construction Plan Not App | | plete (Items 1-4 re | quired to be a | complete submittal) |
| Review Star 1/24/202 | tus: | | proved and Incom | · | <u> </u> | complete submittal) |
| Review Star 1/24/202 | tus: | Construction Plan Not App | proved and Incom | · | <u> </u> | complete submittal) |
| Review Star 1/24/202 Constructio | tus: | Construction Plan Not App Construction Plan Not App Construction Plan Not App Review Comments | proved and Incom | es additional infor | mation | |
| Review Star 1/24/202 Constructio | tus: | Construction Plan Not App Construction Plan Not App Construction Plan Not App Review Comments an "X" were noted as either inst | proved and Incom proved and requir ufficient or not pr | es additional infor | mation | |
| Review Star 1/24/202 Constructio | n Plan | Construction Plan Not App Construction Plan Not App Construction Plan Not App Review Comments an "X" were noted as either insuments for construction plan appropriate to the construction plan approximate to the construction plan a | proved and Incomproved and require | es additional infor | mation omments are in | n RED and provide the |
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| \boxtimes | 3. | Notarized Wake County Financial Responsibility/Ownership Form (Required to initiate processing) -Notarized letter of consent required from Mitchell F Rabil Family Irrevocable Trust. LOD is in the property. -Provide signature authority for Raymond Rinker as he is not listed on the NC Secretary of State for Ashton Raleigh Residential LLC. - As previously requested, complete 2(b). -If Corporation Service Company is the registered agent as listed on the NC Secretary of State website, then provide account manager name and direct dial phone for CSC registered agent. | | | |
|-------------|-------------|--|---|--|--|
| \boxtimes | 4. | Oth | er documents: | | |
| | \boxtimes | a. | a. Documentation of construction plan approval from the municipality or permission to proceed with early grading prior to town approval_ | | |
| | | b. | 401/404 Documentation (Buffer determination letters, PCN application, comments, and approval) -Provide NCDEQ approvals for disturbances in the NRB -Provide 401/404 approvals -Show NRB zones 1 and 2 on all plan sheets. | | |
| | | c. | Encroachment agreement(s) completed, signed and notarized for all off-site construction | | |
| | 5. | NCD | OT Approval (provide documentation upon receipt for our records) | | |
| \boxtimes | 6. | Cover letter stating the purpose of the submission, describing site drainage, stormwater management objectives, and how the proposed stormwater management plan will meet the objectives and be implemented RESUBMITTALS: A letter detailing any changes, comments, proposed solutions to review comments, etc. | | | |
| | 7. | Copy of the USGS Quad Map with delineated project limits | | | |
| | 8. | Copy of the Wake County Soil Survey map with delineated project limits | | | |
| | 9. | Two (2) copies of a complete set of construction drawings for 1st submission, five (5) copies for approval | | | |
| \boxtimes | 10. | Two (2) copies of the Municipal Stormwater Design Tool; digital submittal and hardcopy (Site Data Sheet, Drainage Area Sheets, Site Summary Sheet, BMP Sheets, and BMP Summary sheet) The tool is located at http://www.wakegov.com/water/stormwater/management/program/Pages/default.aspx Design Tool was not found in submittal. Provide .pdf and Excel sheet. Each submittal is a standalone review. Muni Tool is on the submittal checklist. Submittal is incomplete until received. | | | |
| | 11. | Drainage Area Maps with stormwater discharge points and Tc flow paths (existing/post construction/post BMP) -Provide drainage area maps for sediment basins. No revised "Erosion Control Report" was found in the uploaded documents. | | | |
| \boxtimes | 12. | 2 sets of Stormwater and Erosion Control Calculations: | | | |
| | \boxtimes | Sediment basin design (See <u>website</u> for Wake County design criteria) -Skimmers are showing dewatering in less than 3 days by our calculations. Please revise to 3-5 days. No revised "Erosion Control Report" was found in the uploaded documents. | | | |
| | | b. | Ditches, swales, and channels: Q10/V10. Tractive force (shear stress), capacity and geometry. | | |
| | | c. | Dissipaters: Q10 velocities, stone size and dimensions. | | |
| | | d. Velocity calculations for stormwater runoff at points of discharge resulting from a 10-year storm after development were not provided or do not comply. | | | |



| | e. | Support data for all stormwater practice designs, such as inflow/outflow rates, stage/storage data, hydrographs, outlet designs, infiltration rates, water elevations, design output, summary, etc. |
|-------------|------|---|
| | f. | Other hydraulic and hydrologic computations critical to the plan/designs |
| | g. | Signature, Date and Professional Seal: for all Stormwater design management proposals, i.e., calculations, BMP designs, operations/maintenance/budget/as-built/inspections/manualsPlans marked "preliminary" will not be approved. Plans are not signed. Two courtesy reviews have been provided. Plans must be signed for further CD review. Plan set must match CD 22-05 plans submitted to the Town of Rolesville. |
| 13. | Draf | ft Stormwater Agreement, Draft Maintenance Agreement |
| 14. | Prop | posed Site Plan: |
| | a. | Location/Vicinity Map |
| | b. | North arrow, graphic scale, drafting version date, legend and professional seal |
| | c. | Existing and proposed contours: plan and profiles for roadways |
| \boxtimes | d. | Boundaries of tract: including project limits A portion of the site is missing from Area "A". Make all project limits/LOD visible on erosion control plan sheets. Entire LOD must be shown on all phases. |
| \boxtimes | e. | Show all Riparian Buffers [Article 9-21]; (Neuse: [15A NCAC 02B.0233 & 0242] -Delineate Zone 1 and Zone 2 on all sheets. |
| | f. | Delineation of current FEMA boundaries (floodway, flood fringe & future/0.2%) |
| | g. | Proposed improvements: roads, buildings, parking areas, grassed, landscaped, and natural areas. |
| \boxtimes | h. | Lot lines, lot numbers, road names, and impervious limit on each lot rounded to nearest whole number -This information is required on the Site Plan. The submitted set is missing the Site Plan sheets (C2.00, C2.01 and C2.02) |
| | i. | Utilities: community water and sewer, plan/profiles, easements and sediment controls. |
| | j. | Stormwater Network: inlets, culverts, swales, ditches, channels and drainage easements. |
| \boxtimes | k. | TEMPORARY SEDIMENT CONTROLS: locations and dimensions of gravel entrances, diversion ditches, silt fence, sediment basins, inlet protection, etc. -Include fence line removal in LOD. Fence removal is land disturbing activity. |
| \boxtimes | l. | Location and requirements for stockpiles (see website for Stockpile Requirements) -Please show location of any stockpile(s) when determined. |



|] m. | Wake County Construction Sequence (Provide project specific details as needed) Revise as necessary Stage 1: Install perimeter controls including sediment basins and diversions. Provide stage seeding and sediment control along project perimeter as part of the initial installation in the erosion control sequence. Provide note that area downstream of basins will be stabilized immediately upon construction. Call EC for COC inspection. Stage 2: This is where mass grading takes place. Stage 3: This is where fine grading takes place and when sediment basins are converted to SCMs. Provide note in the construction sequence to notify NCDEQ-DEMLR and Wake County E&SC Inspector, a minimum of 10 days prior to initiating basin dewatering/removal sequence, per NCG01 permit. |
|------|--|
|] n. | Wake County Basin Removal Sequence Wake County must grant permission to convert the sediment basin over to stormwater use prior to completing any related work (construction sequence or note elsewhere on the plan should indicate this). |
| o. | Wake County Construction Details -Please add SEC and SWF permit numbers to Wake Co signature block. |
| р. | Wake County Stabilization Guidelines |
| q. | DETAILED COMMENTS REGARDING TEMPORARY SEDIMENT CONTROLS: -Move temporary diversions closer to perimeter or provide additional sediment storage and silt fence calculations per Table 6.62a. Slope length exceeds that allowed for slope. Add sediment storage. Multiple rows of silt fence not adequate. Table 6.62a Maximum Slope Length and Slope Grade for Silt Fence Slope |
| r. | PERMANENT EROSION CONTROLS: locations and dimensions of dissipaters, ditch linings, armoring, level spreaders, retaining walls, etc. -Label dimensions of dissipaters on plan sheets- all stages |



| | | s. | DETAILED COMMENTS REGARDING PERMANENT SEDIMENT CONTROLS: |
|-------------------|-------------|--------------------------------------|--|
| | | t. | PERMANENT STORMWATER MANAGEMENT STRUCTURES: locations and types of all proposed stormwate management structures (grass swale, wet/dry detention basin, filtering/infiltration basin, bioretention, |
| | | ι. | etc.) -Provide cross-sections for SCMs. Cross-sections provided only show dam. Show entire SCM. (Further Review Required) |
| | \boxtimes | u. | DETAILED COMMENTS REGARDING PERMANENT STORMWATER MANAGEMENT: -Explain how access to SCMs will be provided. Show access easements with 10 ft minimum perimeter. 10 ft minimum perimeter must be off of slope. Use a font for line that is easier to distinguish. |
| | \boxtimes | v. | Table with impervious calculations - existing and proposed impervious surfaces: roads, well lots, recreation sites, single family residences, etc. (consistent with the Municipal Stormwater Design Tool inputs) -Revise impervious table to clarify where impervious is allocated. Specify amount to each lot. This should be on Site Plan. Site Plan sheets missing from submittal. Submittal must match those for CD 22-05 to Town of Rolesville |
| | | w. | Proposed stormwater easements, access lanes, and backwater easements -provide minimum of 10 ft perimeter around SCMs for maintenance (must be off slope)New Comment - Show 100 yr backwater 356.97' on plans. Backwater easement will be required for Mitchell F Rabil Family Irrevocable Trust. |
| | | x. | A note should be added to the recorded plat distinguishing areas of disconnected impervious |
| | \boxtimes | у. | RESIDENTIAL ONLY Perpetuity statement Maximum Impervious Area Square Footage on each Individual Lot will be Stringently Enforced with no Exceptions into Perpetuity. Plans approved with a maximum impervious surface of (insert) SF per lot. This note must be on the Site Plan. Site Plan sheets not in submittal |
| Star | ndards | and R | Requirements |
| <mark>revi</mark> | ew con | nmen | ith an "X" note relevant standards to be applied to the proposed development. Notes in RED provide ts and/or any required elements to comply with standard. ences are shown in brackets. |
| Stor | mwate | er Ma | nagement Requirements |
| | 15. | the a deve man exer sepa | mwater Review Required - All residential subdivision development must submit a plan to comply with applicable municipalities' stormwater ordinance. Office, institutional, commercial or industrial elopment that disturbs greater than 20,000 square feet is required to comply with the stormwater agement regulations. Development and redevelopment that disturb less than 20,000 square feet are not apply if such activities are part of a larger common plan of development or sale, even though multiple, that or distinct activities take place at different times on different schedules. Is ville [7.5.1(E)], Wendell [6.5(F)], Zebulon [151.05] |



| \boxtimes | 16. | Stormwater Permit – is required for all development and redevelopment unless exempt pursuant to the Code of Ordinances. A permit may only be issued subsequent to a properly submitted, reviewed and approved stormwater management plan and permit application. Rolesville [7.5.1(E)(3)], Wendell [6.5(F)(3)], Zebulon [151.21(A)] Note: A permit may not be required if there are no post-construction requirements (i.e. SCMs). |
|-------------|-----|--|
| \boxtimes | 17. | SCMs - For projects requiring stormwater treatment for quality and/or quantity control, the applicant must 1) comply with the NC BMP Manual Rolesville [7.5.1(G)], Wendell [6.5(H)], Zebulon [151.07] 2) as well as Completion of Improvements and Maintenance, prior to issuance of a certificate of compliance or occupancy. Rolesville [7.5.5], Wendell [6.5(O)], Zebulon [151.50 – 151.56] |
| \boxtimes | 18. | Standards Based on Project Density- In accordance with the definitions, projects are identified as Ultra Low-Density (15% or less Built-Upon Area, referred to as BUA, and less than one dwelling unit per acre), Low-Density (more than 15% BUA and no more than 24% BUA), and High-Density (24% or more BUA). Rolesville [7.5.4], Wendell [6.5(M)], Zebulon [151.35] |
| | | Standards for Ultra-Low and Low-Density Projects: Use of vegetated conveyances to maximum extent practicable Location of development and redevelopment outside Riparian Buffer and Flood Protection Zones Recorded deed restrictions or protective covenants to ensure future development maintains consistency with approved project plans Permanent SCMs (Stormwater Control Measures) are to be designed in accordance with and as specified in the North Carolina Department of Environmental Quality's Design Manual. For Low-Density only, no net increase in peak flow leaving the site from the pre- development conditions for the 1 yr-24hr storm. Runoff volume drawdown time shall be a minimum of 48 hours, but not more than 120 hours. Residential runoff after development must not exceed the Target Curve Numbers listed in the chart "Maximum Composite Curve Number, by Soil Group". Ultra-Low and Low-Density projects may be eligible for target curve number credits. Wendell Only: Nitrogen export limited to 3.6 pounds per acre per year unless project achieves classification as an LID Project. Rolesville [7.5.4(A)(1-3)], Wendell [6.5(M)(1-3)], Zebulon [151.35(A-C)] |



| | \boxtimes | Standards for High-Density Projects: Measures shall control and treat runoff from the first inch of rain. Runoff volume drawdown time shall be a minimum of 48 hours, but not more than 120 hours. Structural measures shall be designed to have a minimum of 85 % average annual removal for Total Suspended Solids (TSS) Permanent SCMs (Stormwater Control Measures) are to be designed in accordance with and as specified in the North Carolina Department of Environmental Quality's Design Manual. No net increase in peak flow leaving the site from the pre -development conditions for the 1 yr-24hr storm. Runoff volume drawdown time shall be a minimum of 48 hours, but not more than 120 hours. Location of development and redevelopment outside Riparian Buffer and Flood Protection Zones Wendell Only: Nitrogen export limited to 3.6 pounds per acre per year unless project achieves classification as an LID Project. Rolesville [7.5.4(A)(4)], Wendell [6.5(M)(4)], Zebulon [151.35(D)] |
|-------------|-------------|---|
| | \boxtimes | General Standards: • Downstream Impact Analysis – DIA must be performed in accordance with the "10% rule", and a copy provided with the application. -DIA is required by code and must be submitted. Rolesville [7.5.4(B)(1)], Wendell [6.5(N)(1)], Zebulon [151.36(A)] |
| | | Low Impact Development (LID) Classification: All development or redevelopment may be submitted for LID classification Development must mimic the pre-developed hydrologic conditions of the site, as defined as "woods in good condition" for the 2-yr, 24 hr storm, within 10%. Techniques required to achieve LID classification |
| | | nty UDO Article 10 - Erosion and Sedimentation Control Requirements Rolesville, Wendell and Zebulon) |
| | 19. | Erosion Control: This project will require a Land Disturbance Permit if it involves greater than one acre of disturbance. See website for details. |
| \boxtimes | 20. | 10-20-1 Minimum Standards - All soil erosion and sedimentation control plans and measures must conform to the minimum applicable standards specified in <i>North Carolina's Erosion and Sediment Control Planning and Design Manual</i> and the <i>Wake County Sedimentation and Erosion Control Plan Review Manual</i> . Erosion control devices must be installed to prevent any offsite sedimentation for any construction site regardless of the size of the land disturbance. |



| | | 10-20-3 Operation in Lakes or Natural Watercourses -Land disturbing activity in connection with | | | | | |
|---------|-------------------------------------|--|--|--|--|--|--|
| | 21. | construction in, on, over, or under a lake of natural watercourse must minimize the extent and duration of | | | | | |
| | | disruption of the stream channel. Where relocation of a stream forms an essential part of the proposed | | | | | |
| | | activity, the relocation must minimize unnecessary changes in the stream flow characteristics. | | | | | |
| | 22. | 10-20-10 Standards for High Quality Water (HQW) Zones | | | | | |
| | -2. | Land | l-disturbing activities to be conducted in High Quality Water Zones must be designed as follows: | | | | |
| lг | $\neg \bot$ | a. | Uncovered areas in High Quality Water (HQW) zones must be limited at any time to a maximum total | | | | |
| | | ű. | area of 20 acres within the boundaries of the tract. | | | | |
| | _ | | Maximum Peak Rate of Runoff - Erosion and sedimentation control measures, structures, and devices | | | | |
| L | _ | b. | within HQW zones must be planned, designed and constructed to provide protection from the runoff of | | | | |
| | | | the 25-year storm. | | | | |
| | | | Settling Efficiency - Sediment basins within HQW zones must be designed and constructed so that the | | | | |
| | $\neg \bot$ | c. | basin will have a settling efficiency of at least 70% for the 40 micron (0.04mm) size soil particle | | | | |
| - | _ | ٠. | transported into the basin by the runoff of that 2-year storm which produces the maximum peak rate | | | | |
| | | | of runoff. | | | | |
| | | | Grade - The angle for side slopes must be sufficient to restrain accelerated erosion (side slopes no | | | | |
| lг | $\neg \bot$ | d. | steeper than 2 horizontal to 1 vertical if a vegetative cover is used for stabilization unless soil conditions | | | | |
| - | _ | | permit a steeper slope or where the slopes are stabilized by using mechanical devices, structural | | | | |
| | | | devices or other acceptable ditch liners) | | | | |
| □ 2 | 23. | | te Bill 1020; "SECTION 3.(h) Additional standards for land-disturbing activities in the water supply | | | | |
| | | wate | ershed": | | | | |
| | | a. | Erosion and sedimentation control measures, structures, and devices shall be planned, designed, and | | | | |
| | | | constructed to provide protection from the runoff of the 25-year storm | | | | |
| - | $\neg \mid$ | | Sediment basins shall be planned, designed, and constructed so that the basin will have a settling | | | | |
| | - □ | b. | efficiency of at least seventy percent (70%) for the 40-micron size soil particle transported into the | | | | |
| | | | basin by the runoff of the two-year storm that produces the maximum peak rate of runoff | | | | |
| | | | Newly constructed open channels shall be planned, designed, and constructed with side slopes no | | | | |
| | | c. | steeper than two horizontal to one vertical if a vegetative cover is used for stabilization unless soil | | | | |
| | | | conditions permit steeper slopes or where the slopes are stabilized by using mechanical devices, | | | | |
| | | | structural devices, or other acceptable ditch liners. | | | | |
| Neuse | Ripa | rian | Buffer Rules | | | | |
| | | | to the leasting of this position in the bould be used that a pole to position and assistation within buffing | | | | |
| | | | Due to the location of this project, it should be noted that a rule to protect and maintain existing buffers | | | | |
| | | | along watercourses in the Neuse River Basin became effective on July 22, 1997. The Neuse River Riparian Area Protection and Maintenance Rule (15A NCAC 2B.0233) applies to all perennial and intermittent | | | | |
| | 24. | , , , , , , | | | | | |
| | | | streams, lakes, ponds and estuaries in the Neuse River Basin with forest vegetation on the adjacent land or "riparian area". | | | | |
| | | 1116 | arian area . | | | | |
| | | | A 1 5 Rouge | | | | |
| Wake (| Coup | tv DE | Contact Info: ignot house Qualiform | | | | |
| -vane (| Court | cy i L | Contact Info: janet.boyer@wakegov.com Janet Boyer, PE, CFM 919-856-7422 | | | | |
| | Janet Boyer, PE, Crivi 919-036-7422 | | | | | | |