



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

July 21, 2021

Chatham County

**Hobby Farm Subdivision
NCDOT Preliminary Review**

Chad E. Abbott, P.E.
C3 Design & Engineering
2537 E. Lyon Station Rd., Ste 102
Creedmoor, North Carolina 27522
chad@c3designeng.com

Mr. Abbott

As requested, an on-site preliminary review of the above subject road has been conducted to determine compliance with NCDOT standards. The following noncompliant items were found during the review, and is offered for your information along with attached pictures that partially illustrate some of the findings:

General

1. Shoulders, ditches have not been compacted, graded, and established per approved typical and NCDOT Standards
2. Utility vaults, pedestals, etc. obstructing where the shoulder and ditch should be established
3. Drainage pipes full of silt and debris

4. Observed sediment deposits off site
5. Erosion control devices do not appear to be adequate or maintained properly
6. Vegetation needs to be established to prevent further erosion and sediment loss.
7. Pipe joint separation
8. Mail Kiosk turn out dimensions does not meet specifications
9. Erosion around sediment pond discharge pipe
 - a. Insufficient stabilization, Rip Rap should extend to highway drainage pipe
10. Rip Rap needed on spillway to highway drainage pipe

Test Results

1. Pavement mix differs from the mix on approved plans (S9.5B)
2. Pavement does not meet minimum depth
3. Pavement does not meet minimum density
4. A density test was not performed on subgrade
5. Minimum weight per axle was not met on subgrade Proof Roll

Note: Since these minimum criteria were not met, there would have to be an acceptable repair and/or mitigation before consideration can be given for addition to the State Maintained Roadway System. The required repair/mitigation will be determined after minimum housing density is met and an official petition for addition is received by this office. However, you may expect as a minimum but not limited to the requirement of 1.5” S9.5B overlay.

Misc.

6. A Professional Engineer's Certification or Minimum Standards Letter issued by a licensed North Carolina Professional Engineer should be submitted to this office. This certification states that all asphalt, subgrades, typical sections, vertical & horizontal alignments, and drainage items were constructed according to the approved subdivision road plans and meets or exceed all NCDOT specifications.
7. A 16.1 Encroachment Agreement application should be submitted to this office for each utility on the project (i.e. power, water, sewer, communications, cable, gas, etc.).
8. A completed Verification of Environmental Compliance form must be completed by a licensed North Carolina Professional Engineer. This form confirms that all applicable environmental permits have been acquired and that all applicable sedimentation and erosion control regulations have been adhered to.

This review shall be considered preliminary and in no way should be considered as a final inspection for road future road addition or NCDOT Built to Standards approval. Future inspections may result in additional items that was not listed in this review, in which it will be the responsibility of the developer to bring into compliance before acceptance for addition to NCDOT roadway system.

Sincerely,

DocuSigned by:
Mickey Pate
8121EE529CA1445...

Mickey Pate
Assistant District Supervisor

Attachments

cc: R. J. Monroe, District Supervisor
Justin Bullock, P.E., County Maintenance Engineer



