

MEMORANDUM

Date: April 2, 2024
To: Michael Elabarger, Senior Planner, Town of Rolesville
From: Jacqueline Thompson, PE (Town Engineer, Bolton & Menk)
Subject: CID-24-01, 2nd Submittal -- The Point Phases 8 and 14 (aka Package 3)

This memo summarizes the review of the Construction Infrastructure Drawings submitted by McAdams, dated 03/01/2024. **All comments pertain to sheets within the "Part 1" of the overall plan set; see also the Mark-up comments on the Part 1 of 2 Plan Set..**

CID Plan set - Sheet C3.14

1. Label the new drainage easement.

CID Plan set - Sheet C3.17

2. Please clarify whether these contours are the same elevation. It is understood that a detailed finish grade plan will be provided to the contractor.
3. It appears the grading that extends to the south inside a TCE is steeper than a 3:1 slope. Please verify and adjust accordingly. 3:1 is the desired slopes for maintenance and mowability.
4. Please adjust the leader for the TCE.

CID Plan set - Sheet C3.18

5. Clean up/ adjust contours as needed.

CID Plan set - Sheet C5.07

6. Provide a minimum 18" ground cover above storm culverts crossing under greenway trails.
7. The Town of Rolesville would like greenways to be ADA compliant if possible. We recognize the existing slopes are steep in this area, but it appears there is quite a bit of fill for the greenway. For this specific greenway, the Town will not enforce complete ADA requirements with landings and railing but please strive to have 8% maximum grades for greenways.
 - a. The new Town Standards Manual calls for a 2' shoulder on all greenways and 3:1 max slopes. Please connect with Parks and the Town Engineer to discuss if this section is possible. If not, additional requirements may be needed for fall protection along the greenway.
 - b. This comment applies to all greenways on site.
8. Confirm how the greenway is tying into the existing ground. If it will be elevated with a drop off, a TCE may be required to grade a gradual slope. Consider barricades to be installed until future connection.
 - a. This comment applies to all greenways on site.
9. The shading on plan view has been removed; please confirm if this profile is connecting into existing or if there is a structural design for the tunnel mentioned in plan view.

Storm Drainage Calculations Report (see also Mark-up comments on this document)

1. Label drainage areas with correlating storm drainage structure.
2. A few drainage areas are labeled with "X.XX AC" as the area. These areas have been circled in red. Update these labels as needed.
3. Please clarify if the velocity dissipater calculation with the outlet number "Culvert" represents the culvert crossing under Quarry Road, between phase 5&8 or a different culvert. If it is for the culvert crossing Under Quarry Road, velocity dissipater calculations should be updated to reflect the pipe diameter used in the culvert design. In addition, the velocity dissipator dimension label on C3.14 should be updated to reflect updated calculations.