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418 South Dawson Street
Raleigh, NC 27601

Phone: (919) 719-1800
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MEMORANDUM

Date: October 2, 2025
To: Michael Elabarger
From: Jacqueline Thompson, PE
Subject: Merritt Reserve
CID-25-02 | 3rd Submittal
Town of Rolesville, NC

This memo summarizes the review of Construction Infrastructure Drawings submitted by American Engineering, dated August 5, 2025 (received 9/8/2025).

Sheet CS-120:

1. Please include speed limit signage on the Pavement Marking & Signage Plan.

Sheet CS-200:

2. REPEAT: Is Fowler Road being constructed to the centerline of the existing roadway? Please end the profile where actual construction will start/stop.
 - a. NEW: Based on the alignment in plan view and the profile shown, the proposed grade starts at Station 10+00, which is the centerline of Rolesville Road.

Sheet CS-201:

3. Due to steep roads and therefore adjacent steep sidewalks, the Town implemented a new policy earlier this year. When sidewalk grades are between 5-8%, additional signage will be required. W7-3P signs shall be installed every 300 feet.
 - a. This comment applies to all locations where the street grade is greater than 5%.

Sheet CS-210:

4. REPEAT: Is Merritt Reserve Drive being constructed to the centerline of the existing roadway? Please end the profile where actual construction will start/stop.
 - a. NEW: Based on the alignment in plan view and the profile shown, the proposed grade starts at Station 10+00, which is the centerline of Rolesville Road.

Sheet CS-300:

5. There does not appear to be any details that specify the requirements for the 10' landing that is required. Per the Standards Manual, the 10' concrete landing shall not exceed 2% grade in any direction.
 - a. Please adjust the leader to prevent text overlap for legibility.

Sheet CS-503:

6. The 3 details for a greenway trail provides duplication. Please review and only include 1 detail that meets the Town of Rolesville requirements for greenways.



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Sheet CU-300:

7. All pipe outlets that have the HGL outside of the pipe shall have O-ring gaskets for those pipe segments. This is acceptable only at outlets where the SCM water levels may raise above the pipe. Please review the modeling and plans, and ensure that O-ring gaskets are clearly labeled.
8. It appears there is a conflict with the sanitary sewer and storm sewer crossing each other between CB 113 and CB 101.

Sheet CU-306:

9. The proposed grade at YI 407B does not provide adequate cover over the pipe.

Drainage Report:

10. All pipes shall have the HGL remain within the pipe for a 10-year storm condition. Please review and revise accordingly.
 - a. All pipe outlets that have the HGL outside of the pipe shall have O-ring gaskets for those pipe segments. This is acceptable only at outlets where the SCM water levels may raise above the pipe.