

# V6 - Response to V5 ENGINEERING Comments



November 1, 2024

Town of Rolesville  
502 Southtown Circle  
Rolesville, NC 27571  
919-554-6517

## Comment Response Letter Tidal Wave Auto Spa Industrial – SDP-23-08

The following are responses to **ENGINEERING** comments provided in the 5<sup>th</sup> site development plan review for the proposed Tidal Wave Auto Spa in Rolesville, NC.

### Sheet C5.1

1. Please include the NCDOT detail 1205.07 that is referenced for pedestrian crosswalks in the plans.  
**Response: NCDOT standard detail 1205.07 added to C8.7.**

### Sheet C6.1

2. Provide at least 0.1' of drop between invert in and invert out at structures. The previous submittal had the appropriate drops between pipes.  
**Response: A 0.1' minimum drop has been added between all pipe inverts.**
3. Repeat: There is a concern about how well the area near the driveway entrance from Grand Park Drive will drain as the slope appears to be <0.5%. Please review the design and ensure there is enough grade change to allow for positive drainage to storm structures. The response provided refers to drops at storm structures. Adjust grades and/or provide a response to how drainage will be handled with this flat area.  
**Response: The private access drive is crowned; additional spot elevations have been added for clarity. The RIM elevation shown on C5.0 references the back-of-curb elevation, see "Drainage Structure Legend & Definition of Rim Elevations" detail shown on C5.1. The actual gutter/flow line is approx. 0.5' below this elevation, therefore 1% slope is present.**
4. Repeat: All pedestrian ramps need to be ADA compliant. Please confirm longitudinal and cross slopes of pedestrian ramps. Based on the elevations and current layout, there doesn't appear to be a landing. Please clarify the design intent.  
**Response: Grades for the greenway have been adjusted to create a landing area where all cross slopes have a 2% min. This landing area caused the need to extend the greenway to tie back to existing grade at acceptable slopes. Slopes of the ADA ramps have been checked for ADA compliance. All ADA ramp slopes have NCDOT details referenced on C5.1. A landing area was also created on the proposed sidewalk at the ADA ramp with a all cross slopes having a 2% min slope.**

SEAMON, WHITESIDE & ASSOCIATES, INC.

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Director