

Rezoning Transportation Analysis

Petition Number: 2021-159

General Location Identifier: 08705601

From: Brandon Brezeale, PE

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Reviewer:

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Revision Log:

Date	Description
11-21-21	First Review (TNM)

General Review Information

The petition is located between West Sugar Creek Road, a State-maintained major thoroughfare, Cushman Street, a City-maintained local street, and Rutgers Avenue, a City-maintained local street. The petition is located in the Northeast Wedge inside Route 4.

Active Projects Near the Site:

- N/A

CDOT's review of this rezoning petition is intended to provide consistency with council adopted policies, plans, standards and guidelines including, but not limited to, the [Transportation Action Plan \(TAP\)](#), [Vision Zero](#), [Urban Street Design Guidelines \(USDG\)](#), [Center, Corridor and Wedges](#), [Charlotte BIKES](#), [Traffic Impact Study Guidelines](#) and [Charlotte WALKS](#). With a commitment to design complete streets, this review is to ensure that the City's transportation network supports current and future land uses and includes streets that provide safe and comfortable mobility for motorists, pedestrians, bicyclists, and transit users.

This document is primarily for communication to Planning Department staff as part of the overall City staff analysis of the rezoning petition and includes an overall summary of the case from a transportation perspective, information on trip generation, and resolved or outstanding site plan concerns. Additional advisory information about the driveway permit process is provided for information only.

Based on our review of the petition, we offer the following information for your consideration.

Transportation Summary

The petition is located between West Sugar Creek Road, a State-maintained major thoroughfare, Cushman Street, a City-maintained local street, and Rutgers Avenue, a City-maintained local street. CDOT is coordinating with the petitioner to provide a 12-foot Multi-Use Path on W Sugar Creek Road, and 6-foot sidewalks along Cushman Street and Rutgers Avenue per Charlotte WALKS and Charlotte BIKES council-adopted policies.

Site plan revisions are needed to meet ordinance requirements and the outstanding items include, but are not limited to dimensioning the Right Of Way from the centerline of Cushman Street, Rutgers Avenue, and Sugar Creek Road, clarifying the ownership and standard of the site's internal roadways, specifying all driveways to be type II modified driveways, providing visitor parking, showing the trash collection location, and adding ADA compliant ramps. Further details are listed below.

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Trip Generation

Scenario	Land Use	Intensity	Trip Generation (vehicle trips/day)	Source
Existing Use	Single Family	1 Dwelling	10	Tax Record
Entitled Use	Single Family (R-4 1.25 acres)	5 Dwellings	70	General guidance from planning
Proposed Use	Townhomes	15 Units	75	Site Plan: 5/24/2021

Outstanding Issues

Strikethrough = Resolved

- Curblines:** The proposed zoning district has a setback measured from back of the existing or proposed future curblines.
 - West Sugar Creek Road:** the future location of curb and gutter is in its existing location.
 - Cushman Street:** This street currently does not have curb and gutter. Provide 2'-6" curb and gutter along the site's frontage.
 - Rutgers Avenue:** This street currently does not have curb and gutter. Provide 2'-6" curb and gutter along the site's frontage.

Label and dimension the curb and gutter from the centerline for each road on the site plan.

2. Traffic Study:

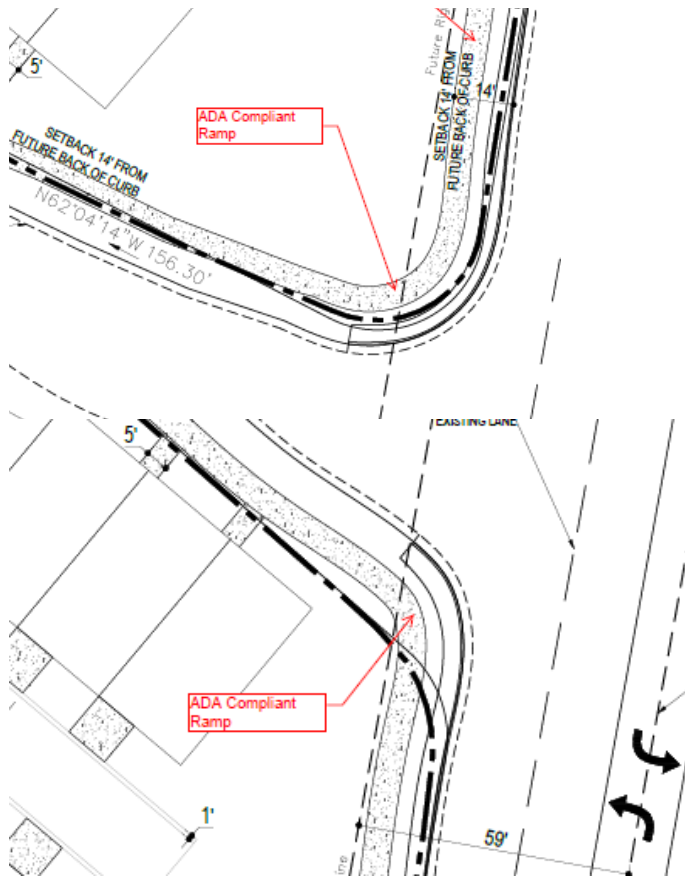
A Traffic Impact Study (TIS) is not necessary for the complete review of this petition due to the site generating less than 2,500 daily trips. If during the permitting process the site generates more than 2,500 daily trips, then a traffic study will be required.

- Revise site plan and conditional note(s) to commit to dedicate 50 feet of right-of-way from the road centerline on West Sugar Creek Road. The site plan shall label and dimension the right-of-way from the road centerline.
- Revise site plan to show and dimension a 2-foot Sidewalk Utility Easement at the back of sidewalk if outside ROW along West Sugar Creek Road, Cushman Street and Rutgers Avenue.
- Revise site plan to show the driveways on Cushman Street and Rutgers Avenue as Type II Modified Driveways per CLDSM 10.25E.
- The proposed dwelling units exceeds 12 per acre. Per Chapter 20 Subdivision ordinance, site plan and conditional note(s) revisions are needed to commit to construct an 8-foot planting strip, and 12-foot multi-use path along West Sugar Creek Road. The wider path also meets the Charlotte WALKS Policy.
- Revise site plan to add visitor parking and the trash collection location for the site.
- Revise site plan to clarify the roads as Private and call out CLDSM detail of all internal roads on the site.
- Revise site plan to provide ADA compliant ramps at the corner of Sugar Creek and Rutgers and the corner of Sugar Creek and Cushman

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10. Add conditional note "All public roadway improvements will be subject to the standards and criteria of CDOT and NCDOT, as applicable, to the roadway improvements within their respective road system authority. It is understood that such improvements may be undertaken by the Petitioner on its own or in conjunction with other development or roadway projects taking place within the broad north eastern Mecklenburg area, by way of a private/public partnership effort or other public sector project support."

Advisory Information

The following are requirements of the developer that must be satisfied prior to driveway permit approval. These requirements shall be reflected on the rezoning plan, as appropriate.

1. The setback for this district is measured from the back of the existing or future curbline as determined by CDOT and Planning during the permitting process.
2. CDOT has the authority to regulate/approve all private street/driveway and public street connections to the right-of-way of a street under the regulatory jurisdiction of the City of Charlotte, per the City of Charlotte's Driveway Regulations.
3. Adequate sight triangles must be reserved at the existing/proposed street entrance(s). Two 35' x 35' sight triangles (and two 10' x 70' sight triangles on NCDOT-maintained streets) are required for the entrance(s) to meet requirements. All proposed trees, berms, walls, fences, and/or identification signs shall not interfere with sight distance at the entrance(s) and shall be identified on the site plan.
4. The proposed driveway connection(s) to public streets will require a driveway permit(s) to be submitted to CDOT (and NCDOT on NCDOT-maintained streets) for review and approval. The exact driveway location(s) and type/width of the driveway(s) will be determined by CDOT during the driveway permit process. The locations of the driveway(s) shown on the site plan are subject to change in order to align with driveway(s) on the opposite side of the street and comply with City Driveway Regulations and the City Tree Ordinance.

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5. All proposed commercial driveway connections to a future public street will require a driveway permit submitted to CDOT for review and approval.
6. Any fence or wall constructed along or adjacent to any sidewalk or street right-of-way requires a certificate issued by CDOT.
7. A Right-of-Way Encroachment Agreement is required for the installation of any non-standard item(s) (irrigation systems, decorative concrete pavement, brick pavers, etc.) within a proposed/existing City-maintained street right-of-way by a private individual, group, business, or homeowner's/business association. An encroachment agreement must be approved by CDOT prior to construction/installation. Contact CDOT for additional information concerning cost, submittal, and liability insurance coverage requirements.
8. The petitioner needs to complete and submit the [Right of way Abandonment Petition form](#) to CDOT for review. The decision of this rezoning petition does not correlate with the decision of the possible abandonment, as this decision is issued within the separate Right of Way Abandonment process that is controlled by North Carolina General Statutes.
9. To attain a street and pedestrian lighting recommendation, the petitioner should coordinate with Anthony Mendez, CDOT. Please visit the following link:
<https://charlottenc.gov/Transportation/Programs/Pages/StreetLighting.aspx>