

Rezoning Transportation Analysis

Petition Number: 2020-088

General Location Identifier: Tax ID 02932106A

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Revision Log:

Date	Description
07-23-2020	First Review
09-22-2020	Second Review
10-19-2020	Third Review

General Review Information

The site is on Johnston Oehler Road (minor thoroughfare, city maintained) and Prosperity Church Road (major thoroughfare, city maintained) and is in a wedge outside Route 4. The site is within the limits of the Prosperity Hucks Area Plan.

Active Projects Near the Site:

- Project Name
 - There are no active projects within the immediate project area.

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 site is located on two thoroughfare roads: Prosperity Church Road (city-maintained) and Johnston Oehler Road (city-maintained). The TIS has not been submitted, as an addendum was needed to account for development areas included within the 8-28-2020 revised site plan; the adjusted TIS scope was approved 10-13-2020. CDOT is continuing to request clarification on commitments to constructing the curb line along Johnson Oehler Drive and Prosperity Church Road, in accordance with the Prosperity Hucks Area Plan. The petitioner has committed to construct Prosperity Ridge Road Extension, which is a thoroughfare identified within the Comprehensive Transportation Plan (CTP); road design for this extension still needs clarification. The petitioner will construct bike lanes, in accordance with Charlotte BIKES, within the Prosperity Ridge Road Extension. The petitioner shall update the conditional site plan to address the following outstanding issues below:

Rezoning Transportation Analysis

Petition Number: 2020-088

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Trip Generation

Scenario	Land Use	Intensity	Trip Generation (vehicle trips/day)	Source
Existing Use	Single Family	3 dwellings	30	Tax Record
Entitlement with Current Zoning	Single Family	260 dwellings	2,500	General Guidance from Planning and RZ 2006-126
Proposed Zoning	Shopping Center	26,900 sf	2,462	Traffic Study submitted: 8-10-20
	High-Turnover Sit-Down Restaurant	5,300 sf	595	
	Fast Food Restaurant with Drive-Thru Window	2,500 sf	1,177	
	Gasoline with Convenience Market	14 vfp	2,875	
	Medical-Dental Office Building	10,000 sf	348	
	General Office Building	10,000 sf	114	
	Health/Fitness Club	70,000 sf	3,340	
	Day Care Center	5,300 sf	252	
	Multifamily Housing Mid-Rise (Apartments)	320 du	1,742	
	Multifamily Housing Low-Rise (Townhomes)	107 du	768	
Proposed Zoning	Shopping Center	26,900 sf	2,462	Site Plan: 8-25-20
	High-Turnover Sit-Down Restaurant	5,300 sf	595	
	Fast Food Restaurant with Drive-Thru Window	2,500 sf	1,177	
	Gasoline with Convenience Market	14 vfp	2,875	
	Medical-Dental Office Building	10,000 sf	348	
	General Office Building	10,000 sf	114	
	Health/Fitness Club	70,000 sf	3,340	
	Day Care Center	5,300 sf	252	
	Multifamily Housing Mid-Rise (Apartments)	300 du	1,633	
	Multifamily Housing Low-Rise (Townhomes)	132 du	957	

Rezoning Transportation Analysis

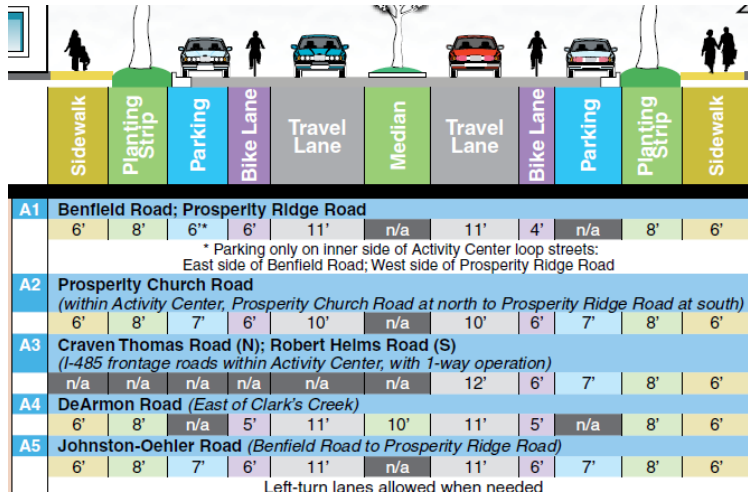
Petition Number: 2020-088

General Location Identifier: Tax ID 02932106A

Please provide responses to our comments.

Outstanding Issues ~~Strikeout~~ = Not an outstanding issue

1. **Outstanding (site plan dated 10-14-2020) Curblines** The proposed zoning district has a setback measured from back of the existing or proposed future curblines.
 - a. **Johnston Oehler Drive:** Location of curb and gutter should be placed per A5 below.
 - b. **Prosperity Church Road:** Location of curb and gutter should be placed per A1 below.



The site plan should show the curb and gutter labeled and dimensioned from the centerline for each road.

2. **Traffic Study** A Traffic Impact Study is necessary for the complete review of this petition due to the site generating more than 2,500 daily trips.

Staff has received the TIS submittal and will continue to review prior to scheduling the public hearing. This will allow for the minimum time necessary for CDOT to review and approve the study and reach agreement with the petitioner on the required transportation commitments, and have them included on the last site plan submitted no fewer than 4 weeks prior to the public hearing. Therefore, additional traffic mitigation comments may be forthcoming once the TIS is approved by CDOT and NCDOT.

- a. **Outstanding comment (site plan submitted 08-28-2020):** The petitioner should revise the TIS to include adjusted development levels that have been included within the revised site plan.
3. ~~In accordance with the Prosperity Hucks Area Plan road cross sections, the petitioner should revise the site plan and conditional note(s) to commit to dedicate right-of-way from the Johnston Oehler Drive and Prosperity Church Road centerline. The site plan should label and dimension the right-of-way from the road centerline. Please provide 2 feet of right-of-way from back of sidewalk where feasible.~~
 4. ~~The petitioner should revise the site plan and conditional note(s) to clarify which internal streets are proposed as public or private streets.~~

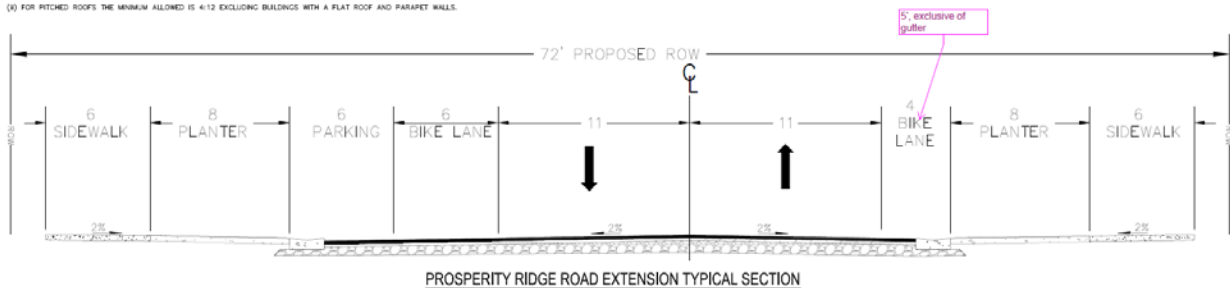
Rezoning Transportation Analysis

Petition Number: 2020-088

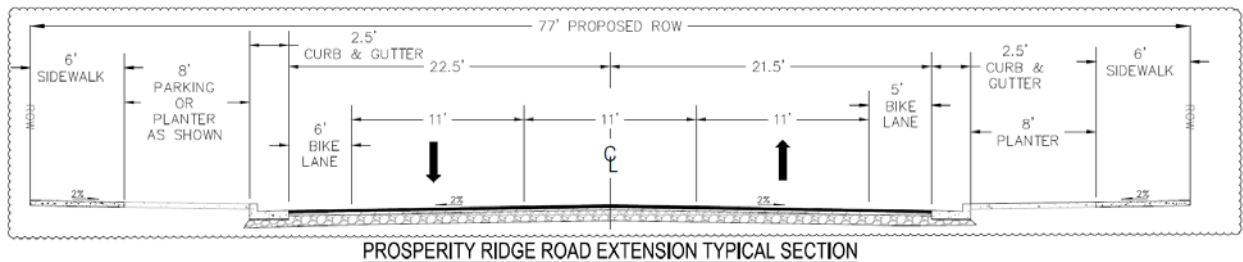
General Location Identifier: Tax ID 02932106A

- ~~The petitioner should revise the site plan and conditional note(s) to clarify which USDG street sections are proposed on each internal street.~~
- ~~The petitioner should revise the site plan and conditional notes (Section 3.C. and 5.D.) to include either a planting strip or amenity zone adjacent to on-street parking, in conformance with the Prosperity Hucks Area Plan cross sections.~~
- Outstanding** Increase the width of the bike lanes to 5 ft, in accordance with Charlotte BIKES. The petitioner should revise the site plan and conditional note(s) to revise the Prosperity Ride Road Extension to replace the proposed 4-foot bike lane with a 5-foot bike lane. Please revise the proposed valley gutter shown to a 2.5-foot curb and gutter.

(9) FOR PITCHED ROOFS THE MINIMUM ALLOWED IS 4:12 EXCLUDING BUILDINGS WITH A FLAT ROOF AND PARAPET WALLS.



- ~~**Outstanding** Revise the site plan and conditional note(s) to include the recommended improvements, as included within the TIS.~~
- Outstanding** Revise the site plan and conditional note (Section 3.E.) specifying all transportation improvements will be approved and constructed before the site's first building certificate of occupancy is issued. Alternatively, the petitioner may phase transportation improvements if said improvements and phasing are explicitly described in site plan notes or as listed within the approved TIS.
- New comment (site plan dated 10-14-2020):** The petitioner should revise the updated Prosperity Ridge Road Extension cross section to include two separate cross sections with and without on-street parking. The proposed typical cross section places the curb and gutter at the incorrect location, if on-street parking is provided.



- ~~**Resolved** Sample format for comment that is resolved~~

Advisory Information

The following are requirements of the developer that must be satisfied prior to driveway permit approval. We recommend that the petitioner reflect these on the rezoning plan as appropriate.

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1. According to the City of Charlotte's Driveway Regulations, 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.
2. 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 North Carolina Department of Transportation on NCDOT maintained streets) are required for the entrance(s) to meet requirements. All proposed trees, berms, walls, fences, and/or identification signs must not interfere with sight distance at the entrance(s). Such items should be identified on the site plan.
3. The proposed driveway connection(s) to public streets will require a driveway permit(s) to be submitted to CDOT (and the North Carolina Department of Transportation 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.
4. All proposed commercial driveway connections to a future public street will require a driveway permit to be submitted to CDOT for review and approval.
5. Any fence or wall constructed along or adjacent to any sidewalk or street right-of-way requires a certificate issued by CDOT.
6. 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 the construction/installation of the non-standard item(s). Contact CDOT for additional information concerning cost, submittal, and liability insurance coverage requirements.