

# Rezoning Transportation Analysis

Petition Number: 2019-064

General Location Identifier: 03304618

From: Felix Obregon, PE

[fobregon@charlottenc.gov](mailto:fobregon@charlottenc.gov)

704-432-5729

Reviewer:

Rick Grochoske, PE

[rgrochoske@charlottenc.gov](mailto:rgrochoske@charlottenc.gov)

704-432-1556

## Revision Log:

Date	Description
05-16-2019	First Review

## General Review Information

The site is on Mt Holly-Huntersville Road (major thoroughfare) near the signalized intersection with Brookshire Boulevard (Class 2 Expressway). Mt. Holly-Huntersville Road is a state maintained road. The site is in a center outside Route 4.

---

*CDOT's review of this rezoning petition is intended to ensure consistency with the Transportation Action Plan (TAP) which seeks 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 proposed site access is provided by existing private streets constructed by the master Riverbend Developer. The master developer is required to complete all Phase 1 transportation improvements as specified in Rezoning Petition 2016-128 prior to the subject rezoning's first building certificate of occupancy is issued. The proposed mixed-use Riverbend Development has a robust street and pedestrian sidewalk/path network and is considered a "walkable" community. Several required major transportation improvements are under construction, including a "continuous flow intersection" located at Brookshire Blvd. (NC 16) / Mt. Holly-Huntersville Rd. intersection.

The land use is switching from apartments to a hospital use having an increase in vehicular trips; however, the additional trips fall within the allotted trips approved under Rezoning Petition 2016-128.

## Trip Generation

Scenario	Land Use	Intensity	Trip Generation (vehicle trips/day)	Source
Existing Use	Vacant	NA	0	Tax Record
"Parcel" Entitlement with Current Zoning	Apartments	234 dwellings	1,270	RZ 2016-128
"Parcel" Proposed Zoning	Hospital Medical-Dental Office	160,000 sf 50,000 sf	5,410	Petitioner



# Rezoning Transportation Analysis

Petition Number: 2019-064

General Location Identifier: 03304618

- a. Name/type of development project, parcel and/or development area, land-use, and density (i.e. square footage, room count, seats, etc.)
- b. Trip Generation of each development project
- c. Maximum square footage per Rezoning Petition 2016-128
- d. Identify all Phase 1 and 2 Transportation Improvements necessary to be substantially completed and approved by the City as documented in Rezoning Petition 2016-128.
- e. The Maximum Overall Trip Generation per Rezoning Petition 2016-128 (see Transportation Conditional Note 4.II.2.i. attached below)

i. The transportation improvements described in this document adequately mitigate the traffic for land uses and intensities as described in Note 4 “Transportation Improvements and Access” Phase 1 and Phase 2 development allowances. The developer shall submit a supplemental traffic impact analysis, including trip generation and additional transportation mitigations for any entitlements, conversions, or other revisions to proposed land uses that may be recognized in this zoning document but that exceed any of the trip thresholds in the table below that informed the final traffic impact study (*trip generation for the uses to be determined based on Institute of Transportation Engineers (ITE) 9th Edition Trip Generation Manual*).

<i>Daily</i>	<i>AM Peak Entering</i>	<i>AP Peak Exiting</i>	<i>PM Peak Entering</i>	<i>PM Peak Exiting</i>
<i>37,218</i>	<i>1,116</i>	<i>444</i>	<i>804</i>	<i>1,208</i>

5. The petitioner should revise the site plan and conditional note(s) to provide a detail table identifying all Phase 1 Transportation Improvements necessary to be substantially completed and approved by the City as documented in Rezoning Petition 2016-128. This table needs to document if all required Phase 1 transportation improvements are completed and/or their status of completion, including expected construction completion dates.
6. The petitioner should revise the site plan and conditional Access and Transportation note 3.c. to read: *All required Phase 1 Transportation Improvements as required and documented in Rezoning Petition 2016-128 shall be completed by the petitioner and/or master developer and approved by City prior to the issuance of the site's first building. The petitioner may phase and/or bond transportation improvements if said improvements and phasing are explicitly described in Rezoning Petition's 2016-128 site plan notes.*
7. The petitioner should revise the site plan to add a note specifying dedication and fee simple conveyance of all rights of way to the City before the site's first building certificate of occupancy is issued. CDOT requests right of way set at 2' behind back of sidewalk where feasible.

## 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.

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.

# **Rezoning Transportation Analysis**

**Petition Number: 2019-064**

*General Location Identifier: 03304618*

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.