

Rezoning Transportation Analysis

Petition Number: 2012-074

General Location Identifier: 029-651-01

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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 site is along Mallard Creek Church Road, a major thoroughfare, adjacent to the I-85 interchange. The current site plan requires intersection reconfigurations at John Adams and Mallard Glen to provide access for development needs. In addition to offsite improvements identified in the traffic impact study, CDOT is requesting additional right of way reservation along Mallard Creek Church Road for future improvements, construction of the ultimate cross section and intersection at the realigned John Adams intersection, and accommodation for a connection to the adjacent development's private street if approved by the adjacent property owner.

General Description

The site is along Mallard Creek Church Rd. (MCC Rd), a major thoroughfare and is located within a corridor outside of Route 4.

A traffic impact study (TIS) was performed to identify offsite mitigations. This petition requests access management modifications along MCC Rd. to provide access for development needs. The widening of MCC Rd, realignment of John Adams Rd., a proposed traffic signal and a bi-directional left over are necessary traffic mitigation improvements identified by the 2016 Traffic Impact Study (TIS).

Trip Generation

Scenario	Land Use	Intensity	Trip Generation (vehicle trips/day)	Source
Existing Use	Single Family	1 dwelling	10	Tax Record
Entitlement with Current Zoning	Restaurant Daycare	30,000 sf 24,000 sf	5600	RZ 1999-040(C) Tract I
Proposed Zoning	Convenience Market w/ Gas Pumps Bank w/ Drive Thru Retail	20 pumps 5,000 sf 15,000 sf	13,570	Traffic Study

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Resolved Issues

N/A

Outstanding Issues

1. The petitioner should revise the site plan to add a conditional note listing construction of all transportation improvements identified in the 2016 TIS. This may require additional graphics showing offsite improvements. Raised medians will be required along MCC Rd.
2. The petitioner should revise the site plan to add a conditional note indicating that separate public outreach will be conducted prior to conversion of John Adams realignment / Mallard Glen intersections and potential connection to Mallard Highlands Drive. Notice of and minutes for public meeting should be transmitted to CDOT and NCDOT consistent with prior discussions between the petitioner and NCDOT.
3. In addition to the laneage identified in the 2016 TIS, the petitioner should revise the site plan to depict and label construction of the following cross section elements along the site's MCC Rd frontage:
 - 5' wide bike lanes
 - 8' planting strip
 - 6' sidewalk, including tie-in to existing sidewalk near the site's eastern property line
 - 2' buffer to right of way
4. The petitioner should revise the site plan to depict and label the future back of curbline on MCC Rd to include the following cross section elements while holding the existing centerline and median. Sidewalk construction, street tree location, and right-of-way dedication along the site's MCC Rd. frontage should be in the ultimate location as part of this petition.
 - Additional (third) through lane (at existing John Adams the right can be considered a future through-right)
 - 2030 left and right turn lanes as indicated by the 2016 TIS
 - 8' planting strip
 - 12' multiuse path
 - 2' buffer to right of way
5. The petitioner should revise the site plan to depict and label the maintenance or replacement of the two existing accesses across MCC Rd from the site (Deaton Lane and driveway directly across from existing John Adams serving tax parcel 04718104). CDOT recommends the petitioner coordinate with NCDOT.
6. The petitioner should revise the site plan to depict and label construction of the realignment of John Adams Rd. between MCC Rd. and the connection to the existing John Adams alignment including the 2030 build out street cross section (136') at the signalized intersection including
 - 11' travel lanes (as identified in the 2016 TIS)
 - 5' bike lanes
 - 12' raised median
 - 8' planting strip
 - 6' sidewalks
 - 2' buffer to right of way
7. The petitioner should revise the site plan to depict and label the public right of way along the western side of John Adams realignment to coincide with the property line between MCC Rd. and the east-west internal street intersection.
8. The petitioner should revise the site plan to remove the proposed driveway realigned John Adams Rd. between the internal east-west public street and MCC Rd. Driveway connections shall align with opposing driveways within the site and shall be located a minimum of 100' from intersecting streets.

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9. The petitioner should revise the site plan to the site plan to depict and label existing John Adams Rd. between MCC Rd. and the future John Adams realignment as follows:
 - a. Conforming to a Local Office/Commercial Wide street cross-section
 - b. Converting intersection with MCC Rd. to right-in/right-out traffic movements with internal protected stem from MCC to proposed east-west internal street and adjustment of curb returns.
10. The petitioner should revise the site plan to depict and label the proposed east-west internal street
 - a. As a public street and designed to Local Office/Commercial Narrow Street (see CLDSM U-04). On-street parking may be added if desired.
 - b. Stubbing to the site's eastern property line to accommodate a future connection to parcel no. 02965103.
 - c. Extending stub to Mallard Highlands Glen upon approval of adjacent property owner.
11. The petitioner should revise the site plan to include conditional transportation notes that identifies each transportation improvement as mutually agreed upon between the petitioner and the City.
12. The petitioner needs to revise the site plan to indicate the square footage for each proposed building as documented in the 2016 TIS.
13. 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. Sidewalks should be contained within a SUE if not within dedicated public street right of way.
14. The petitioner should revise the site plan to add a note specifying all transportation improvements will be constructed and approved before the site's first building certificate of occupancy is issued or phased per the site's development plan.

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.
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.

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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.

Revision Log

Date	Description	By
10-06-2016	First Review	RHG