Rezoning Transportation Analysis

Petition Number: 2024-018

General Location Identifier: 03149117, 03149118

From: Jake Carpenter, PE

Reviewer:

Isaiah Washington

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Revision Log:	Date Description				
	03-27-24	First Review (KC)			
	04-24-24	Second Review (KC)			

General Review Information

The petition is located adjacent to Mt Holly-Huntersville Road, a State-maintained major arterial and Harwood Lane, a State-maintained major collector. The petition is located in a northwest wedge outside of Route 4, within the Westside Strategy Plan Study Area.

Active Projects Near the Site:

 \circ There are no known transportation projects in the vicinity.

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 <u>Transportation Action Plan (TAP)</u>, <u>Vision</u> Zero, <u>Urban Street Design Guidelines (USDG)</u>, <u>Center, Corridor and Wedges</u>, <u>Charlotte BIKES</u>, <u>Traffic Impact Study Guidelines</u> and <u>Charlotte WALKS</u>. 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 adjacent to Mt Holly-Huntersville Road, a State-maintained major arterial and Harwood Lane, a State-maintained major collector. A Traffic Impact Study (TIS) is not required for the site due to the development generating site trips under ordinance thresholds and not meeting additional TIS triggers. Based on the 1,645 daily trips, the petitioner will be required to satisfy Tier 3 Multimodal and Transportation Demand Management (TDM) assessments. Site plan and/or conditional notes commits to dimensioning the right-of-way and curb lines and including the CDOT standard rezoning note(s). Site plan and/or conditional note(s) commits to providing an 8 foot planting strip and 8 foot sidewalk along Harwood Lane, and an 8 foot planting strip and 12 foot multi use path along Mt. Holly-Huntersville Road in accordance with the UDO. Site plan revisions are needed to update the CTR table on the rezoning plan. Further details are listed below.

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Trip Generation

			Trip Generation				
Scenario	Land Use	Intensity	Daily Trips	AM Peak Hour Trips	PM Peak Hour Trips	Source	
Existing Use	Single Family	1 Dwelling Unit	15	1	1	Tax Record	
Entitlement with Current Zoning	Single Family Large Childcare Center (N1-A & INST, 4.62 acres)	5 Dwelling Units 12,000 SF	635	137	139	General Guidance from Planning & RZP# 2005-103	
Proposed Zoning	Large Childcare Center or Medical Office Retail (NC, 4.62 acres)	12,000 SF 20,000 SF	1,645	177	260	Site Plan: 02-14-24	

Petitioner to provide responses to the staff comments below as well as specify other changes to the site plan.

Outstanding Issues

Strikethrough = Resolved

1. Curbline:

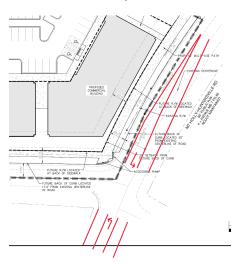
a. Mt Holly-Huntersville Rd: The future location of curb and gutter is 30' from centerline.

4+ Avenue, Shared Use Path per the Charlotte Streets Map

b. Harwood Lane: The future location of curb and gutter is 17.5' from centerline.

CLDSM standard Local Collector Street U-07B

Label and dimension the curb and gutter from the centerline for each road on the site plan. Show proposed striping layout for Mt Holly-Huntersville Road and commit to restriping for left turn lane on Mt Holly-Huntersville Road at Harwood Lane.



2. Comprehensive Transportation Review (CTR):

A Traffic Impact Study (TIS) is not required for the complete review of this petition due to the site generating site trips under ordinance thresholds found in the Charlotte Streets manual Table 3.1 and/or not triggering any other City TIS requirements.

The petition's zoning falls within the medium to high intensity development which based on the 1,645 daily trips will trigger Tier 3 (14 mitigation points) for multimodal assessment and Tier 3 (6 mitigation points) for transportation demand management assessment. The petitioner shall review and assess the publicly accessible pedestrian network within ¼ mile walking distance of the site to identify multimodal infrastructure to meet the Tier 3 (14 mitigation points) for multimodal assessment. Petitioner shall also provide transportation demand management strategies to meet Tier 3 (6 mitigation points) to reduce vehicle trips and encourage alternative modes of transportation.

See Table 3.3 Multimodal Assessment Mitigation Options in the Charlotte Streets Manual for guidance. Complete CTR summary table and include on the revised plan. CTR table link (use Site Data Table – CTR Summary tab): <u>https://www.charlottenc.gov/files/sharedassets/city/v/2/growth-and-development/documents/dev-center-fees/resources/udo-site-data-tables-curb-ramps-and-ctr.xlsx</u>

04-24-24 Outstanding Comment: Revise CTR summary table. The solid waste internal to the site is not by location and just 14 points for having it internal for the whole site. Additionally, we can only give credit for the SUP along Mt. Holly Huntersville. Looks like there is approximately about 215 feet of SUP along Mt. Holly Huntersville.

Frontage sidewalk that would be required by the ordinance otherwise does not count towards the multimodal mitigation points unless its physical improvements for bicycle or transit modes required by the UDO.

SITE DEVELOPMENT D	ATA - COMPREHEN	ISIVE TRANSPORTAT	ION REVIEW SUMM	ARY
Proposed Trip Generation				
Land Uses	Density	Daily Trips/Peak Hour Trips		
1) Daycare	12k SF	571/132/133		
2) Strip Retail	20k SF	1089/47/127		
3)				
4)				
5)				
		Total:	1660/179/260	
Mulitmodal Mitigation		Tie	r:	
		Required Point	s:	14
List of Mitigations:		215 8.6		
1) Construct missing or deficient sidewalks	or SUP (0.5 pts per 25LF) (6	60LF/25LF) * 0.5 = 13.2 poin	ts	
2) Loading and solid waste pickup within the	ne site (14 points) 2 location	5 x 14 points = 28 points	U 1	
3)			'pts	
- 1				

- 3. Revise site plan and conditional note(s) to commit to label and dimension the proposed dedication of 50 feet of right-of-way from the Mt Holly-Huntersville Road centerline.
- 4. Revise site plan and conditional note(s) to commit to construct bicycle facilities by installing a 12' multiuse path in accordance with the council-adopted Charlotte Streets Map. Multi-use paths maintained by the City shall meet ADA/PROWAG requirements.

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- 5. Add a conditional note specifying "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."
- 6. Add a conditional note specifying "the Petitioner shall dedicate and convey in fee simple all rights-ofway to the City before the site's first building certificate of occupancy is issued. CDOT requests rightsof-way set at 2' behind back of sidewalk where feasible."
- 7. Add a conditional note specifying "All transportation improvements will be approved and constructed before the site's first building certificate of occupancy is issued."

The petitioner may phase transportation improvements if said improvements and phasing are approved by CDOT and explicitly described in site plan notes.

8. Add conditional note specifying "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 western 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. 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 Unified Development Ordinance.
- 2. Adequate sight triangles must be reserved at the existing/proposed street entrance(s). Two 50' x 50' 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.
- 3. 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 to comply with City of Charlotte Unified Development Ordinance regulations.
- 4. All proposed commercial driveway connections to a future public street will require a driveway permit 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. To obtain a street and pedestrian lighting recommendation, the petitioner should visit the following link: <u>https://charlottenc.gov/Transportation/Programs/Pages/StreetLighting.aspx</u>