

Rezoning Transportation Analysis

Petition Number: 2023-039

General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105, 18736106, 18736110, 18736151

From: Jake Carpenter, PE

Jacob.carpenter@charlottenc.gov
980-221-5675

Reviewer:

Natalie King, PE

Natalie.King@charlottenc.gov
980-417-0206

Revision Log:

Date	Description
7-26-23	First Review (IW)
11-27-23	Second Review (DR)
2-21-24	Third Review (NK)
3-20-24	Fourth Review (NK)

General Review Information

The petition is located at the intersection of Providence Road, a State-maintained major arterial, and International Drive, a City-maintained local street. The petition is located in a south wedge outside of Route 4.

Active Projects Near the Site:

- Active Rezoning 2023-023 Horizon Old Providence
- Active Rezoning 2023-038 Levine Properties

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 at the intersection of Providence Road, a State-maintained major arterial, and International Drive, a City-maintained local street. A Traffic Impact Study (TIS) is required due to the site exceeding 2,500 trips. A revised TIS was resubmitted on February 21, 2024 and is currently under review. Finalization of the TIS and required mitigations are needed. Site plan revisions are needed to update intersection and driveway alignment. Further details are listed below.

Rezoning Transportation Analysis

Petition Number: 2023-039

General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105,
18736106, 18736110, 18736151

Trip Generation

Scenario	Land Use	Intensity	Trip Generation (vehicle trips/day)	Source
Existing Use	Single Family Detached	2 Dwelling Units	20	<i>Tax Record</i>
Entitlement with Current Zoning	Single Family (R-3, 20.12 acres)	60 Dwelling Units	635	<i>General Guidance from Planning</i>
Proposed Zoning	Single Family Attached Multifamily (Mid-Rise) (MUDD-O, 20.12 acres)	63 Dwelling Units 573 Dwelling Units	3,020	<i>Site Plan: 01-31-23</i>
Proposed Zoning	Single Family Detached Single Family Attached Multifamily (Mid-Rise) (MUDD-O, 20.12 acres)	15 Dwelling Units 80 Dwelling Units 650 Dwelling Units	3,792	<i>Site Plan: 01-31-23</i>

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. ~~**Providence Road:** Location of back of curb and gutter to be moved to 33 feet from roadway centerline to accommodate the Charlotte Streets Map with a roadway typical section of 4+ Boulevard, shared use path.~~
 - i. ~~This dimension could change depending on mitigations resulting from the Traffic Study.~~
- b. ~~**Old Providence Road:** Location of curb and gutter to be moved to 27 feet from roadway centerline to accommodate the Charlotte Streets Map with a roadway typical section of 2+ Avenue Buffered/Separated Bike Lanes.~~
 - i. ~~This dimension could change depending on mitigations resulting from the Traffic Study.~~

~~NOTE: Additional distance from center line to back of curb may be required in locations where a median is present or around intersections and interchanges.~~

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

2. Traffic Study:

A Traffic Impact Study is required for the complete review of this petition due to the site generating more than 2,500 daily trips and/or triggering other City TIS requirements.

Additionally, this petition is coordinating to study the roadway network in conjunction with other ongoing projects in the immediate area. The overall study may have impacts on the improvements this project may be required to do.

Staff will receive the petition and begin review, but the public hearing will not be scheduled until the TIS is approved to allow for the minimum time necessary for CDOT to review the study and reach agreement with the petitioner on the required transportation commitments. Any agreed upon commitments shall be 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).

Rezoning Transportation Analysis

Petition Number: 2023-039

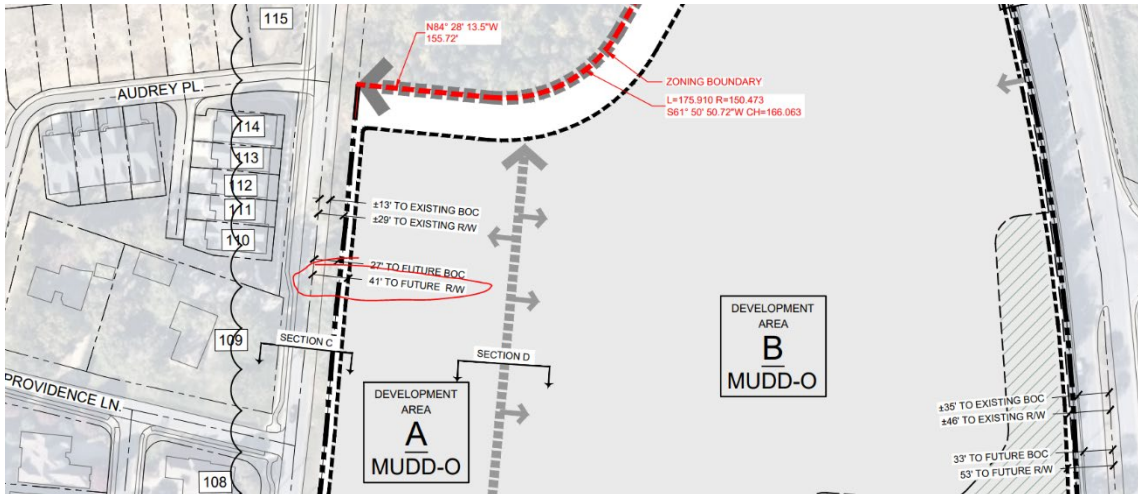
General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105, 18736106, 18736110, 18736151

Outstanding Comment 02.21.2024: Awaiting TIS resubmittal.

Clarifying Comments 03.20.2024: TIS resubmitted on 02/21/24. TIS comments to be provided by 03/21/24. TIS improvements still being finalized.

3. Additional comments to be provided by CDOT once traffic study is approved.

- 4. ~~Revise site plan and conditional note(s) to commit to dedicate 55' of right-of-way from the Providence Road centerline. The site plan shall label and dimension the right-of-way from the road centerline.~~
 - a. ~~This dimension could change depending on mitigations resulting from the Traffic Study.~~
- 5. ~~Revise site plan and conditional note(s) to commit to dedicate 43' of right of way from the Old Providence Road centerline. The site plan shall label and dimension the right of way from the road centerline.~~
 - a. ~~This dimension could change depending on mitigations resulting from the Traffic Study~~



b. Petitioner shall dedicate 41 feet of right-of-way from the Old Providence road centerline.

~~**Clarifying comment 11.27.23:** ROW dedication for Old Providence should be 43' based on the 8' sidewalk on Old Providence Road instead of the 6' sidewalk dimension shown on Section C.~~

- 6. ~~Revise site plan and conditional note(s) to commit to construct an 8-foot planting strip, and 12-foot sidewalk on Providence Road per the Council-adopted Charlotte Streets map and the Council-adopted Charlotte BIKES Policy. Multi-use paths maintained by the City shall meet ADA/PROWAG requirements. The site plan shall label and dimension both items from the back of curb and gutter or edge of pavement.~~
- 7. ~~CDOT requests that the petitioner revise site plan and conditional note(s) to commit to extending the streetscape of 8' PS and 12' MUP on Providence Road to connect to the McAlpine Creek trail.~~

Rezoning Transportation Analysis

Petition Number: 2023-039

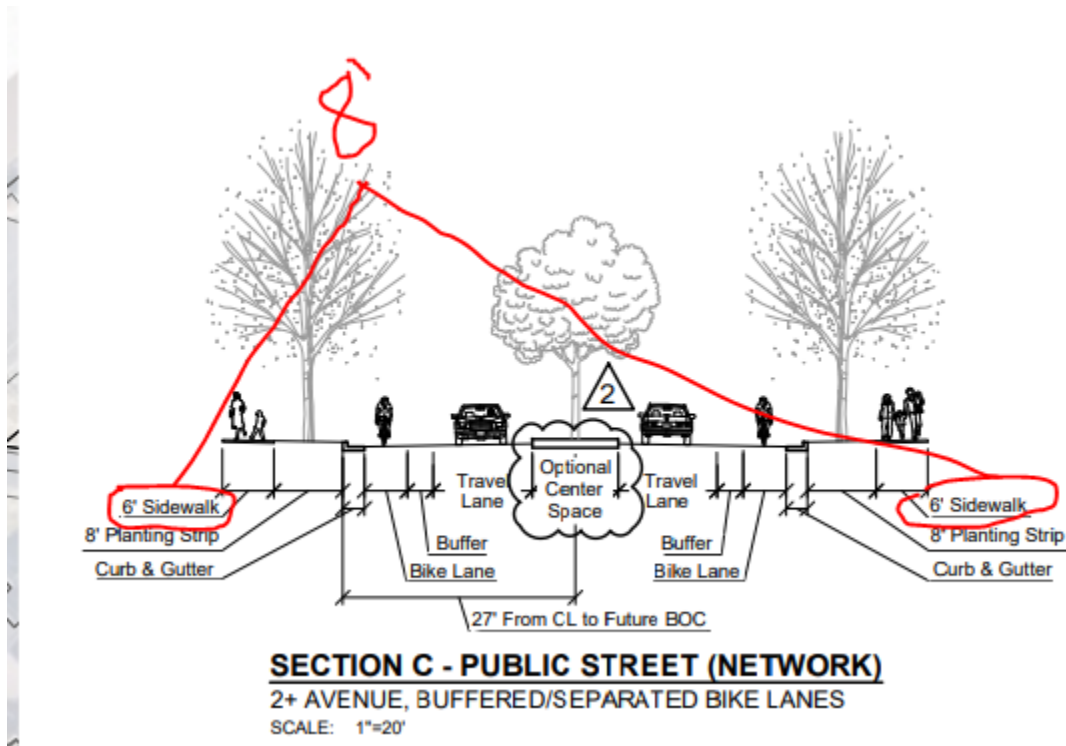
General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105, 18736106, 18736110, 18736151



- 8. The proposed dwelling units exceeds 12 per acre. Per Chapter 20 Subdivision ordinance, revise site plan and conditional note(s) to commit to construct an 8-foot planting strip, and 8-foot sidewalk along Old Providence Road. The wider sidewalk also meets the Charlotte WALKS Policy.

Reference (CLDSM standard detail U-04.16) for street typical.

~~New Comment 11.27.23:~~ Section C public street network sidewalk width does not match the conditional note. Revise Section C to have an 8' sidewalk like the conditional notes for the Old Providence Road section.



Rezoning Transportation Analysis

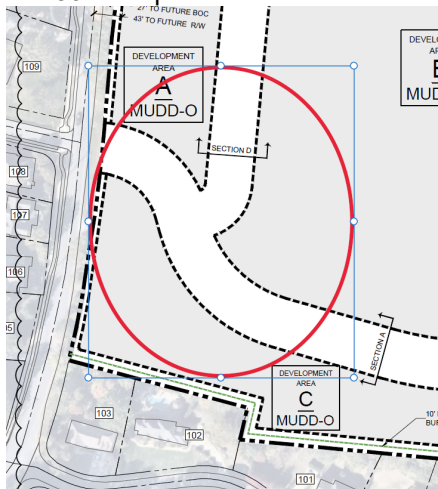
Petition Number: 2023-039

General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105, 18736106, 18736110, 18736151

9. ~~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."~~
10. ~~If abandonment required due to a TIS mitigation:
Add a conditional note specifying "The petitioner needs to complete and submit the [Right of way Abandonment Petition form](#) to CDOT for review. The Right of Way Abandonment process is controlled by North Carolina General Statutes and is independent of this rezoning process."~~
11. ~~Add a conditional note specifying "the Petitioner shall dedicate and convey in fee simple all rights-of-way to the City before the site's first building certificate of occupancy is issued. CDOT requests rights-of-way set at 2' behind back of sidewalk where feasible."~~
12. ~~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 explicitly described in site plan notes."~~
13. ~~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 South Mecklenburg area, by way of a private/public partnership effort or other public sector project support."~~
14. **New Comment 11.27.23:** Add as approved by CDOT to the end of the conditional note.
- c. The width of the planting strips referenced above may be reduced to accommodate environmental features.
15. **New Comment 11.27.2023:** ~~Revise streetscape on Old Providence Road to have 8' sidewalk and 8' planting strip to match rezoning 2023-023.~~

d. The petitioner shall construct an 8-foot planting strip, and 12-foot sidewalk, or as otherwise coordinated with CDOT/NCDOT during permitting to accommodate site environmental constraints, on Old Providence Road per the Council-adopted Charlotte Streets map and the Council-adopted Charlotte BIKES Policy. Multi-use paths maintained by the City shall meet ADA/PROWAG requirements.

16. **New Comment 2.21.24:** Fix alignment at intersection circled below and ensure that there is at least 50' of separation between horizontal curves.

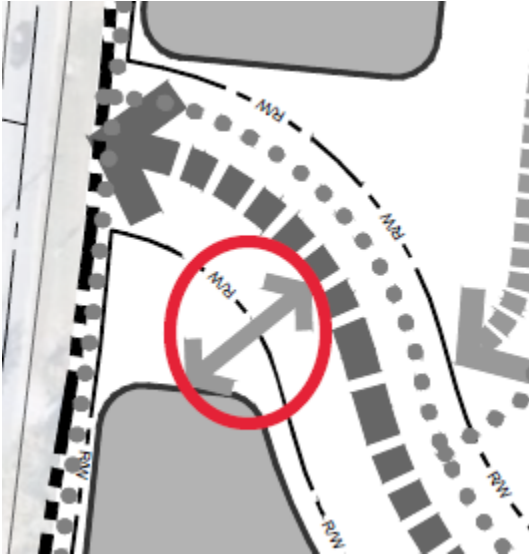


Rezoning Transportation Analysis

Petition Number: 2023-039

General Location Identifier: 18736112, 18736103, 18736111, 18736104, 18736152, 18736105, 18736106, 18736110, 18736151

17. **New Comment 2.21.24:** Ensure that any proposed access points are at least 75' from unsignalized intersections.



18. ~~**New Comment 2.21.24:** All public street intersections will be required to meet design criteria including, but not limited to, spacing and sight distance standards. During permitting if driveways do not meet sight distance and spacing requirements, they may be limited to restricted access.~~

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's Driveway Regulations.
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 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 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: <https://charlottenc.gov/Transportation/Programs/Pages/StreetLighting.aspx>