

February 26, 2021

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**RE: *Broadway Tract - Trip Generation Analysis, Knightdale, NC***

Kimley-Horn has prepared an analysis of the trip generation potential and site traffic assignment of the proposed Broadway Tract residential development in Knightdale, NC. Per the attached concept plan, the site proposes to construct 73 townhomes on the southwest quadrant of the intersection of Fayetteville Street at Broadway Street with one site driveway on Fayetteville Street and one on Broadway Street.

Traffic for the development has been generated using traffic generation data published in the *ITE Trip Generation Manual* (Institute of Transportation Engineers, 10<sup>th</sup> Edition, 2017). The trip generation is summarized in Table 1 below, and trip generation calculations are also attached.

Table 1 ITE Trip Generation (Vehicles)							
Land Use	Size	Daily		AM		PM	
		In	Out	In	Out	In	Out
Multifamily Housing (Low-Rise) (LUC 220)	73 d.u.	256	256	8	27	28	17

Table 1 shows that the proposed development is projected to generate approximately 512 new daily trips on a typical weekday, with 35 new trips occurring in the AM peak hour and 45 new trips occurring in the PM peak hour. These values are well below the thresholds for requiring a traffic impact analysis in the Town of Knightdale.

Site traffic is expected to access the adjacent roadway network based on the following distribution:

- 50% to/from the south on Smithfield Road
- 40% to/from the north on Smithfield Road
- 10% to/from the north on Fayetteville Street

The attached **Figure 1** shows the projected AM and PM peak hour site traffic volumes at the site driveways and adjacent intersections.

The daily traffic volume on Smithfield Road was approximately 7,200 vehicles per day (vpd) in 2019 (pre-COVID), and the daily traffic volume on Fayetteville Street was less than 1,000 vpd in 2019. There is no reported daily traffic volumes on Broadway Street, but it is also expected to carry less than 1,000 vpd. Therefore, all off these roadways are expected to have ample capacity to accommodate projected traffic from this development.

Given the relatively minimal volume of site traffic anticipated to be added to any single intersection or movement in the project vicinity, no roadway improvements should be required, and no further traffic analysis should be needed for this development.

Please let me know if you have any questions or comments regarding this analysis.

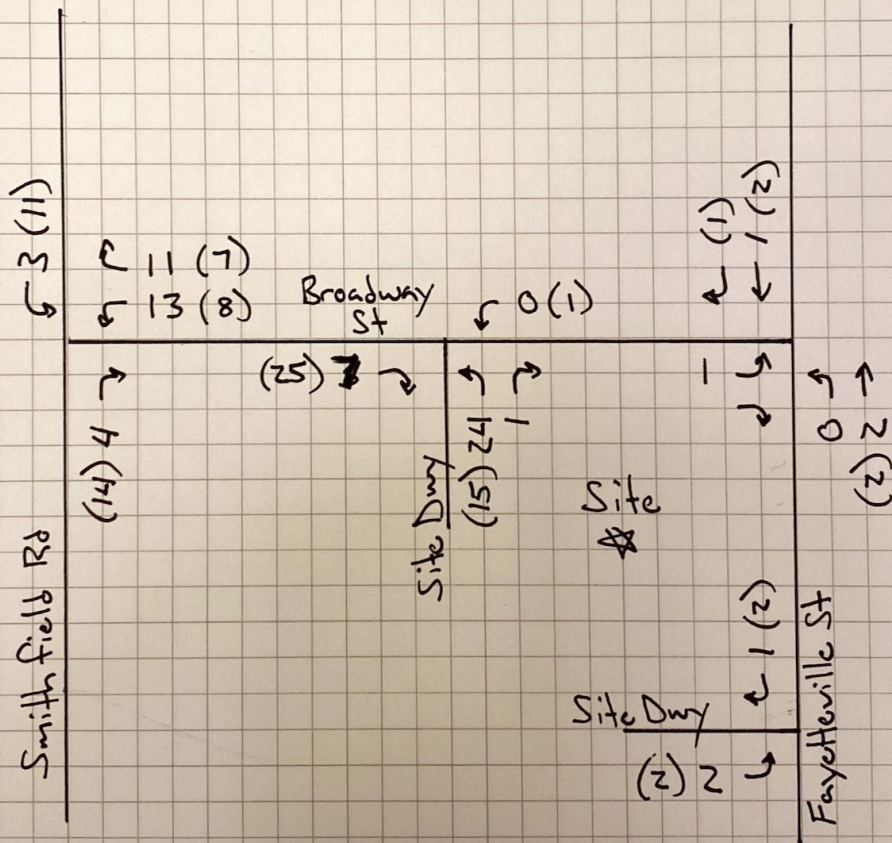
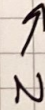
Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Travis Fluitt, P.E.  
Senior Project Manager

# Broadway Tract - Site Traffic Volumes



Legend

- xx AM Peak Hour
- (xx) PM Peak Hour