

February 23, 2011

Mr. Tim Sivers
Horvath Associates, PA
16 Consultant Place
Durham, NC 27707
Email: tim.sivers@horvathassociates.com

Subject: **Average Daily Traffic (ADT) Volume Assessment**
NC 54 Medical Clinic Rezoning Case Z1100002
Durham, North Carolina

Dear Mr. Sivers:

This letter was prepared to address the impacts to the Average Annual Daily Traffic (AADT) volume on NC 54 created by the rezoning of the subject property located along the north side of NC 54 approximately 0.4 miles west of Fayetteville Road. In order to be in compliance with the City's Comprehensive Plan, the traffic generated by the site may not increase the AADT volume for this segment of NC 54 by more than 3.0% as long as the segment volume remains below 120% capacity. The purpose of this letter is to demonstrate that traffic generated by the site would result in less than a 3.0% increase in the AADT volume.

The information shown in Table 1, below, was provided by the City and utilized in this assessment.

Table 1
NC 54 Traffic Volume Data from City

Roadway Capacity (LOS D) (AADT)	16,400
Latest Traffic Volume (AADT)	18,000
Traffic Generated by Present Designation (24 hour)*	48
Traffic Generated by Proposed Designation (24 hour)**	856

* Assumption – (max use of existing zoning) – RS-20: 5 single-family units

** Assumption – (max use of proposed zoning – OI(D): 5,780 sf bank with drive-thru

According to information provided by the City, this segment of NC 54 is at approximately 110% capacity under the current zoning of the site.

Based on the location of the site and the assumption that it would consist of a bank (worst case for traffic), it is estimated that approximately 60% of site trips would access the site to/from the east along NC 54, while the remainder of site trips would access the site to/from the west along NC 54. Refer to Figure 1, attached, for an illustration of the anticipated site trip distribution and assignment. The traffic volumes and resultant impact percentages are summarized in Table 2.

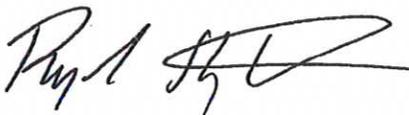
Table 2
NC 54 Traffic Volume Data – Future Conditions Under Proposed Zoning

	East of Site	West of Site
Recent Traffic Volume	18,000	18,000
Site Trips	514	342
Future Traffic Volume with Site	18,514	18,342
Percent Increase in Volume	2.86%	1.90%

As shown in Table 2 and on Figure 1, the traffic generated by the site under the proposed zoning would be expected to increase traffic volumes on NC 54 by approximately 2.86% east of the site and 1.90% west of the site. Since the projected increase in volume is less than 3%, the proposed rezoning and the associated trip generation are in compliance with the Comprehensive Plan.

Please contact me at (919) 872-5115 if you need any additional information or have any questions relative to this assessment.

Sincerely,
Ramey Kemp & Associates, Inc.



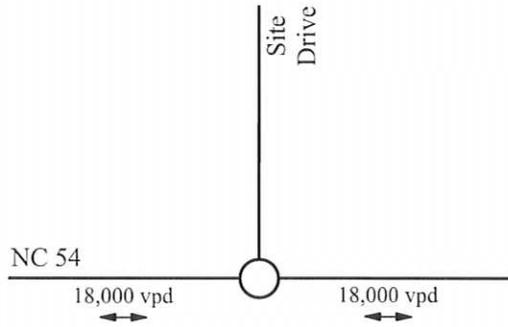
Rynal Stephenson, P.E.
Transportation Manager



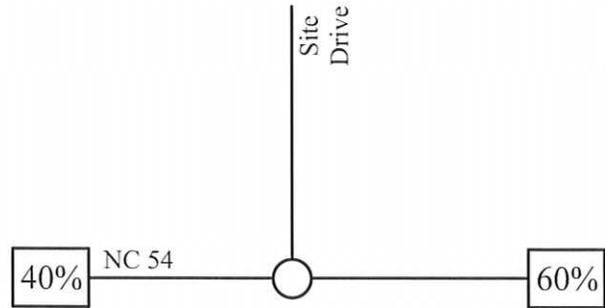
NC Corporate License # C-0910

Attachments: Traffic Volumes Figure

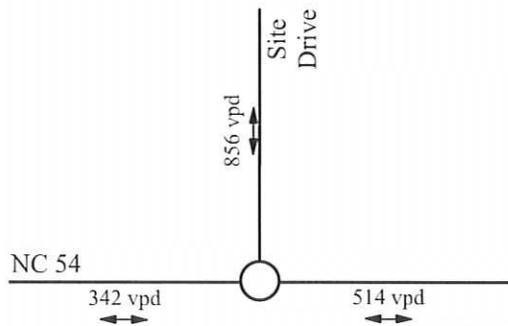
Latest Traffic Volume (AADT)
[provided by City]



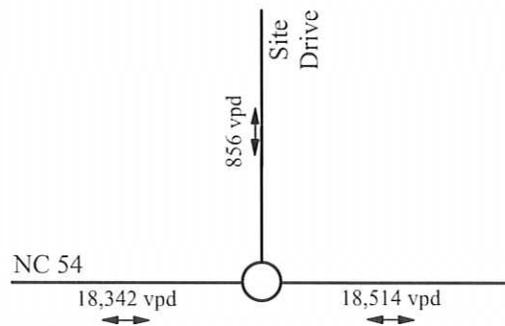
Site Trip Distribution



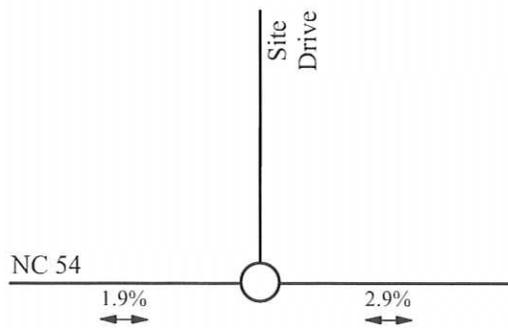
Traffic Generated by Proposed Designation
(average 24 hour)



Future Traffic Volumes (AADT)



Percent Increase in Traffic Volume



**RAMEY KEMP
&
ASSOCIATES**

*NC 54 Medical Clinic Rezoning
Durham, North Carolina*

Traffic Volumes

Scale: Not to Scale

Figure 1