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September 21, 2019

William Norris Robinson, P.E., LEED  
Will Robinson & Associates  
1248 North Shorewood Ln.  
Caryville, TN 37714

**RE: PALMER SUBDIVISION LAND USE REVISION, KNOX COUNTY, TENNESSEE.**

Dear Mr. Robinson:

Please find below the revised trip generation for the above referenced subdivision with a 10,240 square-foot tire store (LUC 848) and 6,345 square feet of retail space (LUC 820). The previous study from March 2017 assumed 30,000 square feet of office space (LUC 710), two 4,500 square-foot fast food (LUC 934) restaurants and a 4,500 square foot bank (LUC 912). The trip generation from 2017 reflects the **Trip Generation, 9<sup>th</sup> Edition**. The current proposed tire store and retail will replace a fast food and the bank parcels. The trip generation of the currently proposed uses reflect an update reflecting **Trip Generation, 10<sup>th</sup> Edition**. The tire store is a lower trip generator. The trip generation of the previously studied uses and the current proposed uses including a tire store and retail is presented in the table below:

#### TRIP GENERATION

	LAND USE	L.U.C.	DENSITY	DAILY TRIPS	AM PEAK HOUR ENTER	AM PEAK HOUR EXIT	PM PEAK HOUR ENTER	PM PEAK HOUR EXIT
Apr-17 <sup>1</sup>	OFFICE	710	30,000 sqft	526	64	9	19	93
	BANK	912	4,500 sqft	667	31	23	55	55
	FAST FOOD RESTAURANT	934	9,000 sqft	4,465	208	200	153	141
	Total Trips Generated		43,500 sqft	5,658	303	232	227	289
Aug-19 <sup>2</sup>	TIRE STORE	848	10,240 sqft	292	18	10	18	23
	SHOPPING CENTER	820	6,345 sqft	922	96	59	34	37
	F.F. RESTAURANT (w. drive t	934	4,500 sqft	2,119	92	89	76	71
	OFFICE BLDG.	710	30,000 sqft	330	47	8	6	30
	Total Trips Generated		51,085 sqft	3,663	253	165	134	161
	Change in Trip Generation (Reduction)			-1,995	-50	-67	-93	-128

<sup>1</sup> Trip Generation, 9th Edition.

<sup>2</sup> Trip Generation, 10th Edition.

The trip generation for the currently proposed development is found to be less than the previously studied site. The currently proposed uses are an approximate 22-percent reduction in trips for the AM peak hour and an approximate 43-percent reduction for the PM peak hour. Therefore, this land use revision will not have an increased impact on the adjacent transportation network and will be a trip reduction from that previously identified.





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Should you have any questions, please call me.

Sincerely,  
CDM Smith Inc.



John F. Gould, P.E.  
Senior Transportation Engineer

