



# **NEW MARKET TRAFFIC STUDY**

Update for Town Council

| VDOT Staunton District Planning

1/16/2024

# Purpose and Need

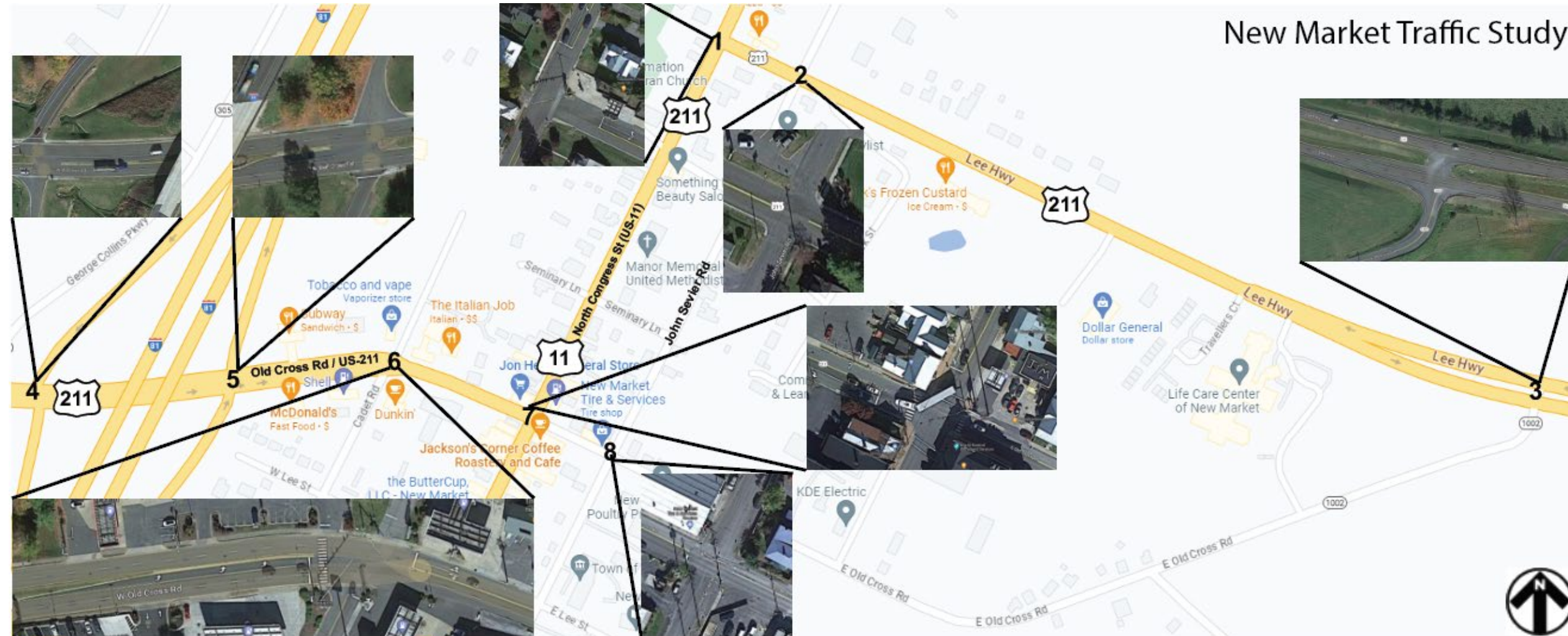
- New Market asked VDOT to perform a study after finding the local poultry plant was looking to expand and the Town determined this was an opportunity for docking along Old Cross Rd to be improved
- The Town pursued an evaluation of the area to look at truck traffic, incidence of collisions, roadway designs/configurations, possible alternatives, and actionable items for future changes within the town



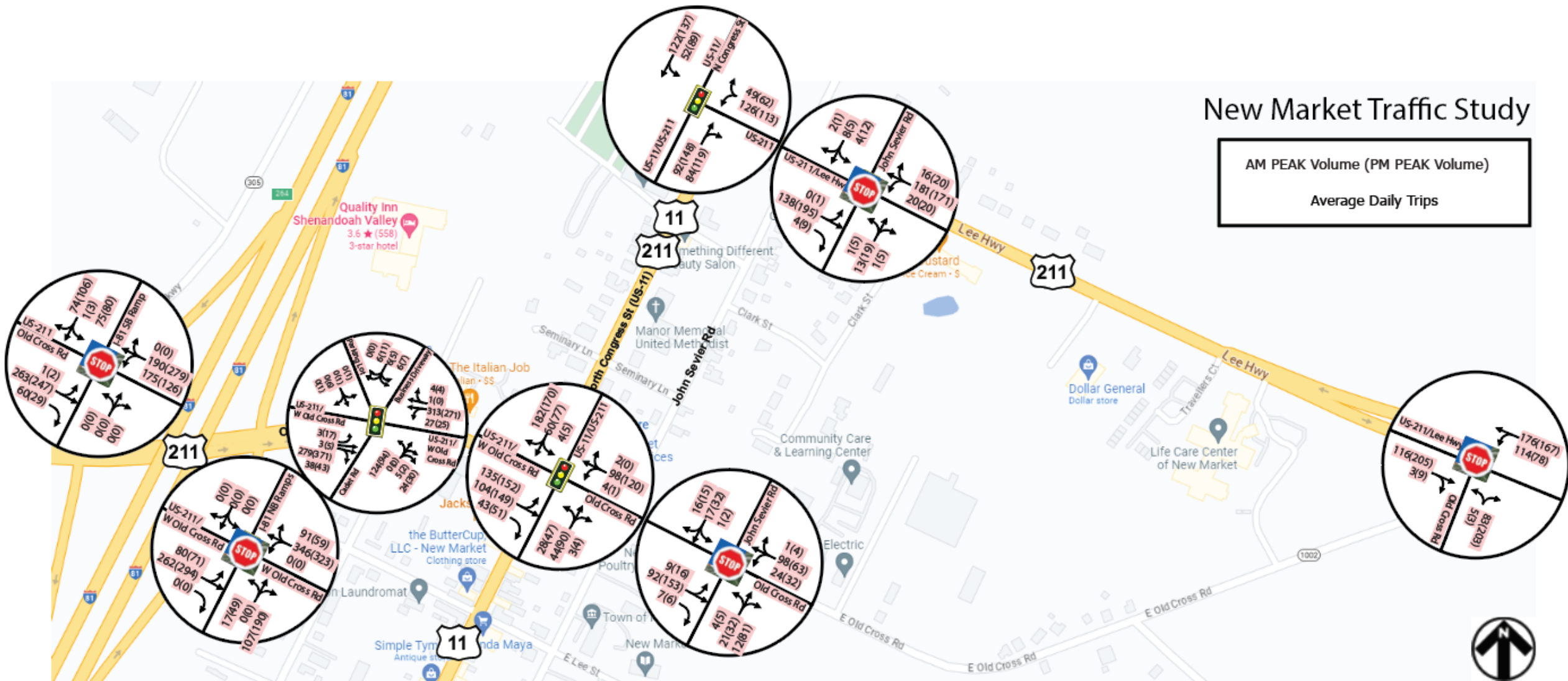


# Study Location

## New Market Traffic Study

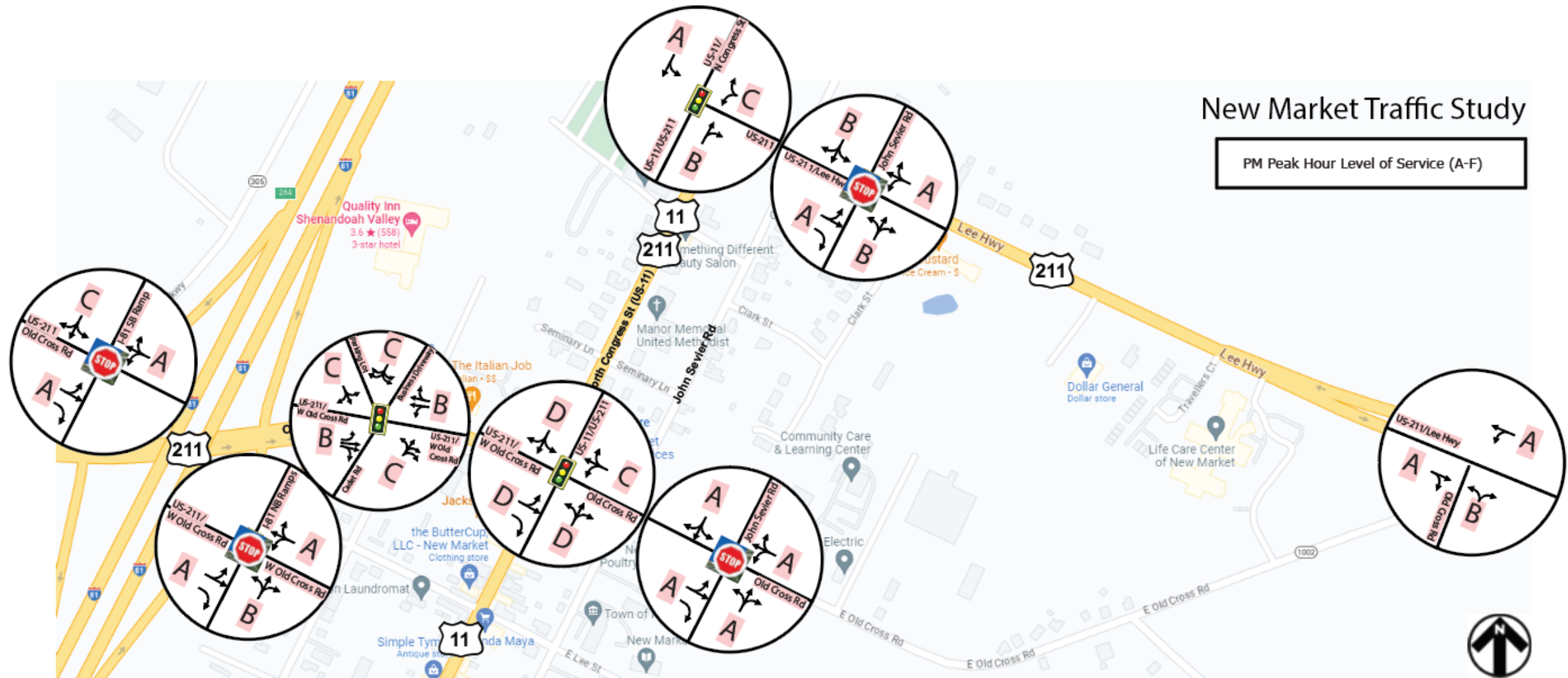


# 2023 AM/PM Peak Hour Movement Counts

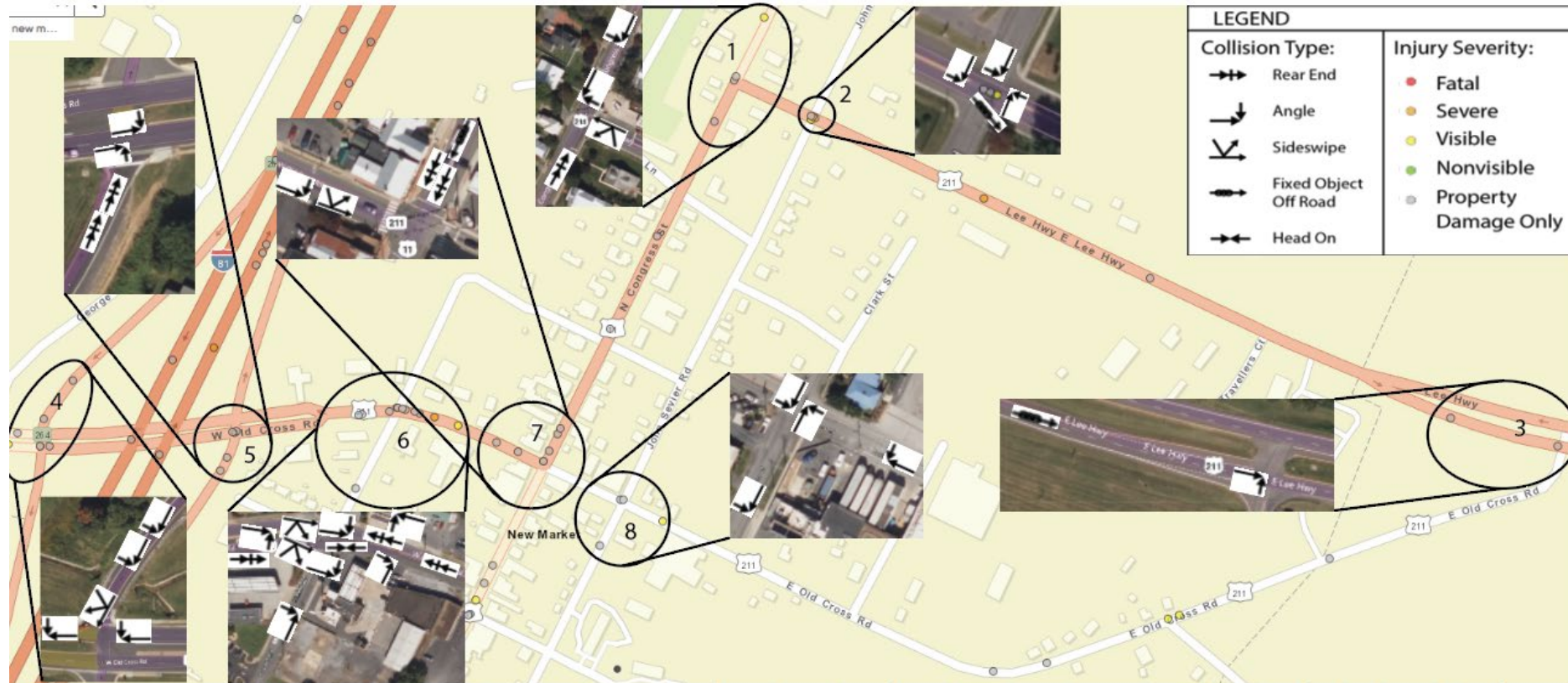




# 2033 PM Peak Hour Level of Service By Intersection

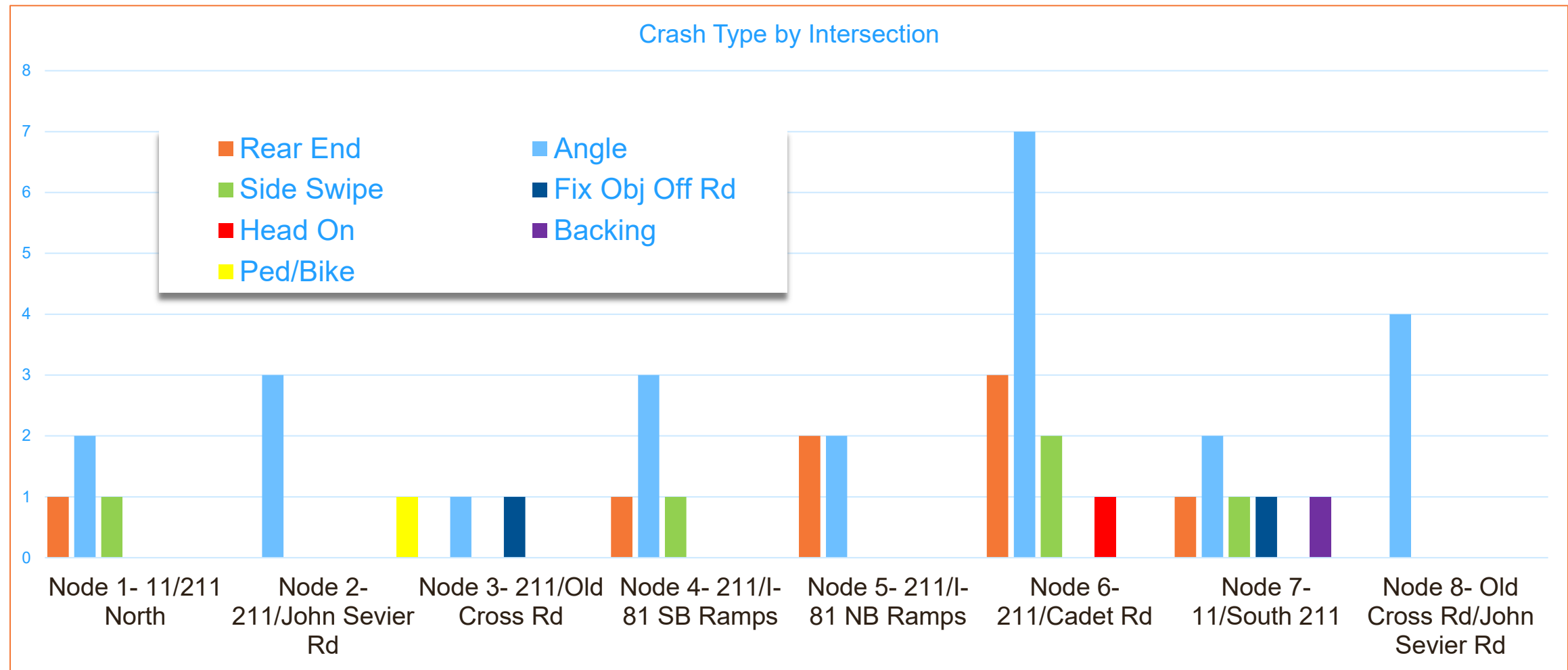


# Crash Patterns (2017-2021)



Crash Data by Intersection	2017	2018	2019	2020	2021	Day	Dawn/ Dusk	Dark	Dry	Wet	Snow/ Ice	Rear End	Angle	Side Swipe	Fx OBJ Off Rd	Head On	Back ing	Ped/ Bike	K	A	B	C	O	Total
Node 1- 11/211 North	1	1			2	4			4			1	2	1									4	4
Node 2- 211/John Sevier Rd		1	2	1		4			4				3					1			2		2	4
Node 3- 211/Old Cross Rd	1			1		2			1	1			1		1								2	2
Node 4- 211/I-81 SB Ramps			3	2		4		1	5			1	3	1							1		4	5
Node 5- 211/I-81 NB Ramps			3		1	2	1	1	4			2	2										4	4
Node 6- 211/Cadet Rd	2	1	5		5	8		5	10	3		3	7	2		1				1	1		11	13
Node 7- 11/South 211	1	1	1	1	2	3		3	5	1		1	2	1	1		1						6	6
Node 8- Old Cross Rd/John Sevier Rd		1	2		1	2		2	2	2			4									1	3	4
<b>Total</b>	5	5	16	5	11	29	1	12	35	7	0	8	24	5	2	1	1	1	0	1	5	0	36	42

# Crash Patterns (2017-2021)



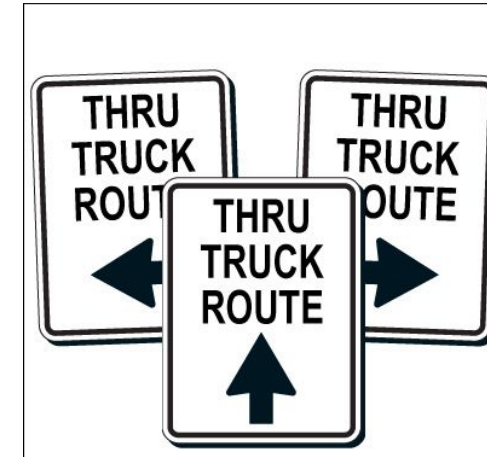
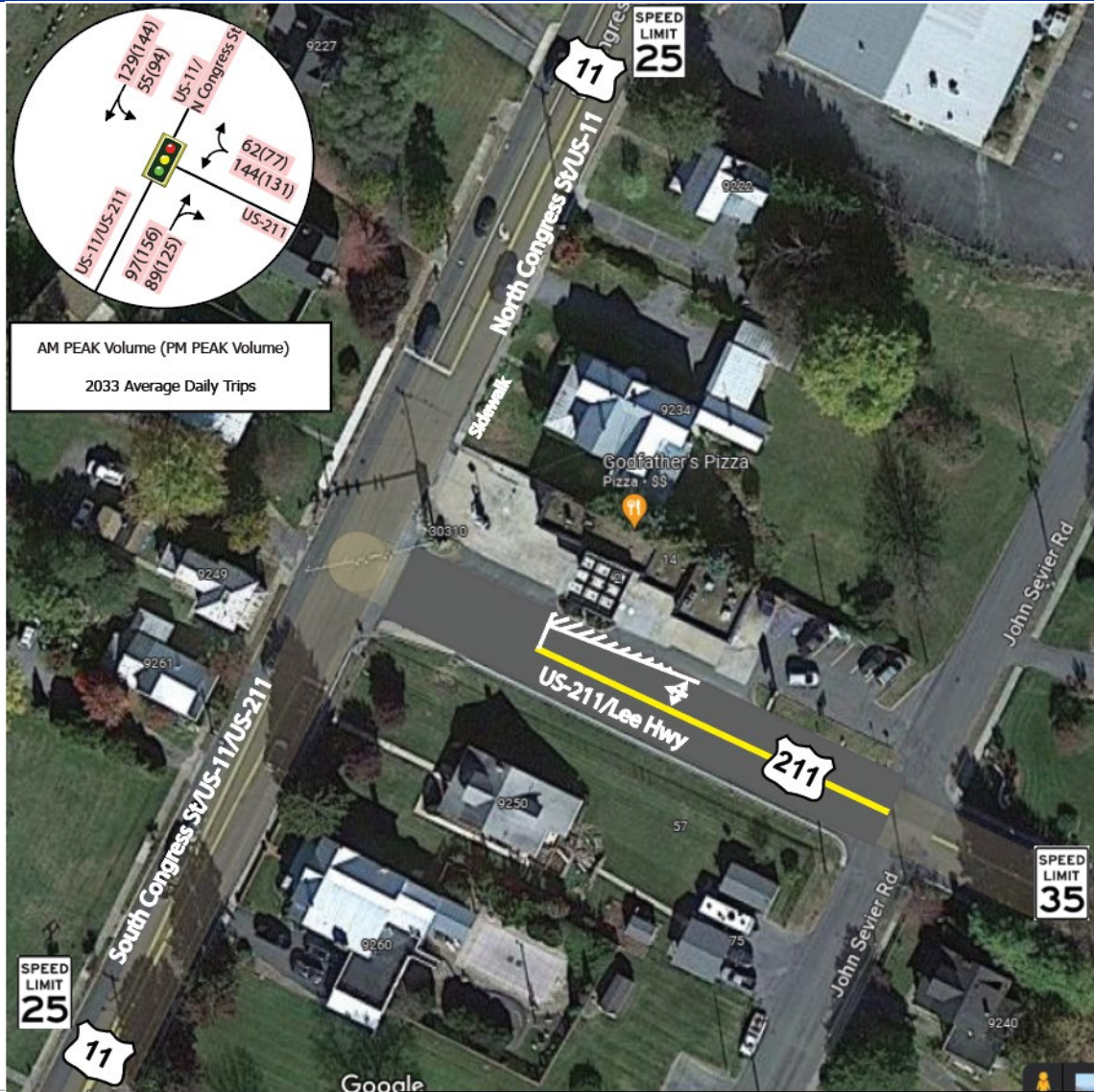


# Windshield Survey – Quick Review



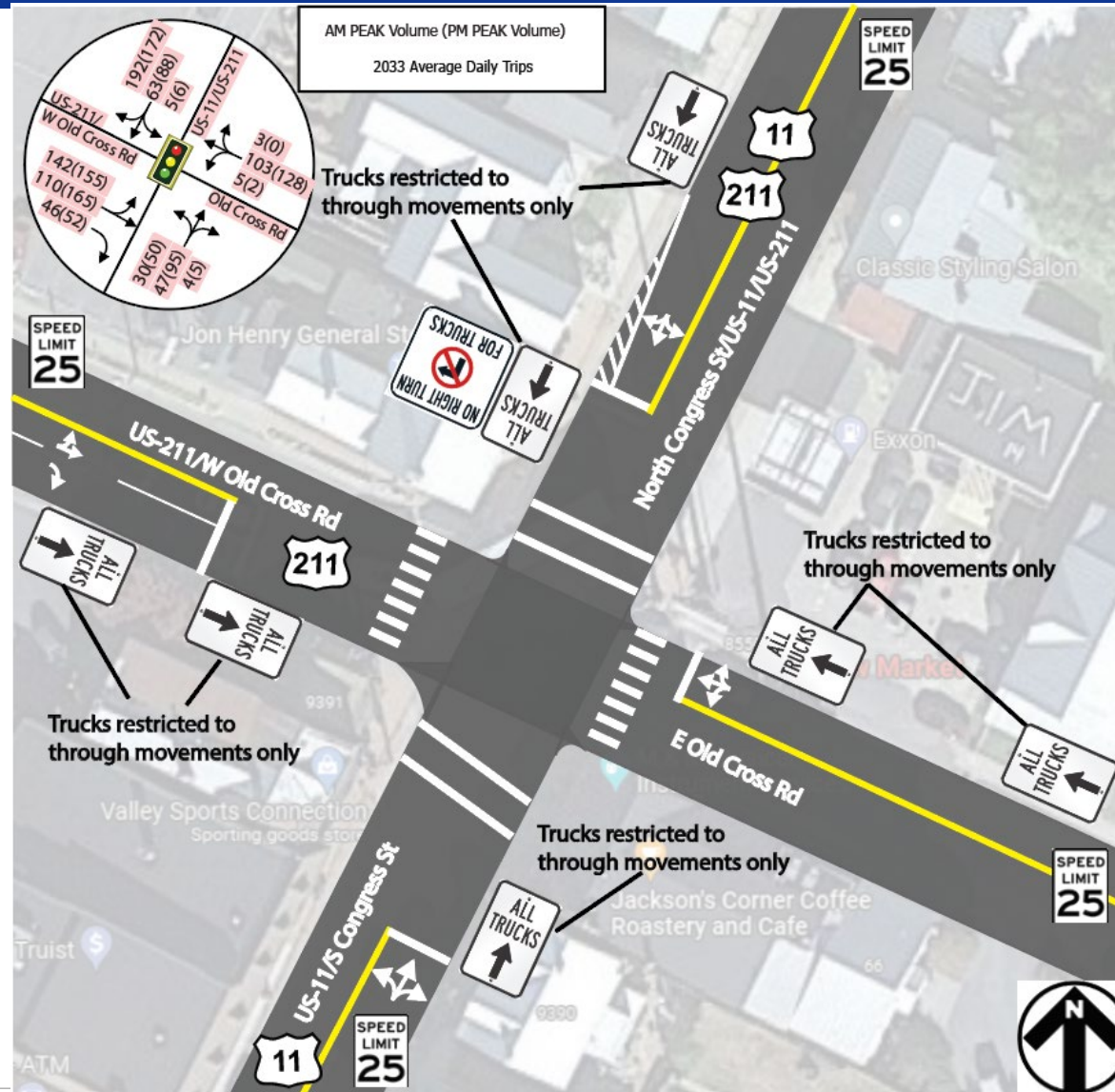


# Rt-11 (N Congress St) & Rt-211 (Lee Hwy)





# Rt-11/211 (N Congress St) & Old Cross Rd – Recommendation

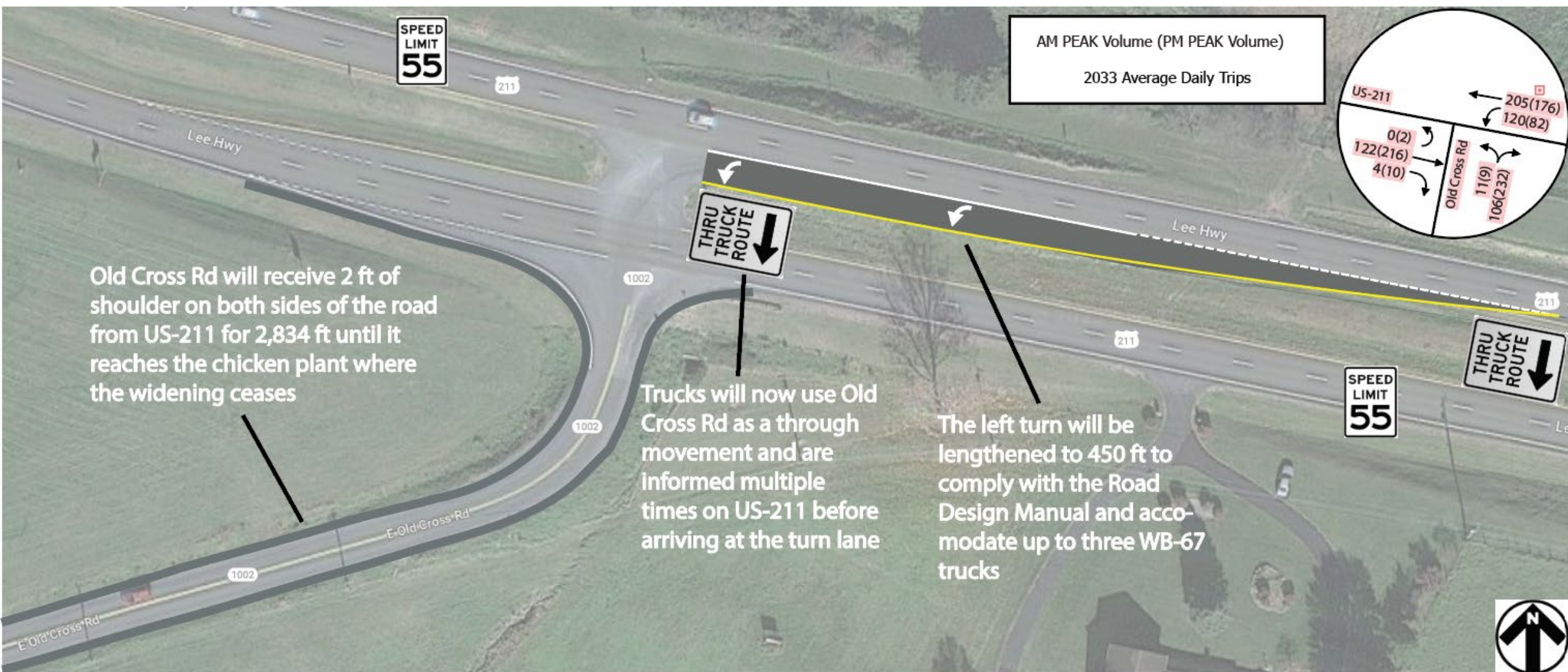




# Rt-11 & Old Cross Rd Repaving Schedule – An Opportunity!

Schedule Start Yr	Schedule	UPC	RNS Route Name	MP From	MP To	No of Lanes	County	From Desc	To Description
2024	PM-8I-24	123332	R-VA US00011NB	0	0.64	3	85	Rockingham/ Shenandoah County Line	Rte. 1020
2024	PM-8I-24	123332	R-VA US00011NB	0.64	1.53	2	85	Rte. 1020	Rte. 719

# Old Cross Rd & Rt-211 (Lee Hwy)



# Planning Level Cost Estimates

The costs associated with various solutions are planning level estimates subject to change based on right of way, utilities, and inflation.

Major Changes	Maintenance Level Changes at Multiple Intersections	Total
Rt-211 left turn lane lengthening = \$173,000* Widening Old Cross Rd 2ft = ~\$230,000* <small>*(Needs Utilities, Drainage, Stone Shoulder Built, Environmental, Fence Repair/Replace, existing pavement repairs, pavement markings, guardrail new/replace. This means the estimate could easily be doubled after engineering)</small>	Adding signs, restriping roadways, moving stop bars, rephasing stoplights = ~\$50,000 for Rt-11 & Old Cross Rd	~\$453,000 - \$1M



# Review and Conclusions

**Questions or comments?**

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