



Preliminary – Do Not Use for Construction



SPOT Travel Time Savings Report

US 64 at Farrington Rd/Beaver Creek Rd 10 - Improve Intersection

STIP No. -- SPOT ID: H250751 WBS No. 34263.1.1 Chatham DIVISION: 8
1/29/2026 Three Oaks Engineering



ID	Road Name	External	2025 AADT	2035 AADT
01N	SR 1008 (Farrington Rd)	Yes	5,700	7,500
01E	US 64	Yes	27,500	34,400
01S	SR 1008 (Beaver Creek Rd)	Yes	5,100	6,700
01W	US 64	Yes	24,000	29,900

2025 AM Peak Travel Time Saving	-1
2025 PM Peak Travel Time Saving	2
2025 Total Daily Vehicles	31,150
2025 Daily Travel Time Savings	3.2
2035 AM Peak Travel Time Saving	15
2035 PM Peak Travel Time Saving	41
2035 Total Daily Vehicles	39,250
2035 Daily Travel Time Savings	126.9
Days per Year	260
Travel Time Savings Duration	10 Years

Existing Congestion Level	Non-Congested
Daily Savings Conversion Factor	2.25

10-year Travel Time Savings			
169,000 hours			
Travel Time Savings Per Vehicle			
2025	0 sec/veh	2035	12 sec/veh

Description of Proposed Design

Construct Thru-cut Intersection



Figure 1	Existing Conditions	SHEET 1 OF 1
<u>LEGEND</u>	TIP: --	WBS: 34263.1.1
	COUNTY: Chatham	DIVISION: 8
	DATE: January 29, 2026	
	PREPARED BY: Three Oaks Engineering	
	LOCATION: US 64 at Farrington Rd/Beaver Creek Rd	
	PROJECT: 10 - Improve Intersection	



Thru-cut

Figure 2

Proposed Design

SHEET 1 OF 1

LEGEND

TIP:	--	WBS:	34263.1.1
COUNTY:	Chatham	DIVISION:	8
DATE:	January 29, 2026		
PREPARED BY:	Three Oaks Engineering		
LOCATION:	US 64 at Farrington Rd/Beaver Creek Rd		
PROJECT:	10 - Improve Intersection		





SPOT Volume Report



US 64 at Farrington Rd/Beaver Creek Rd 10 - Improve Intersection

STIP No. -- SPOT ID: H250751 WBS No. 34263.1.1
Chatham DIVISION: 8



PROJECT STUDY AREA

PREPARED BY: Three Oaks Engineering
1/23/2026

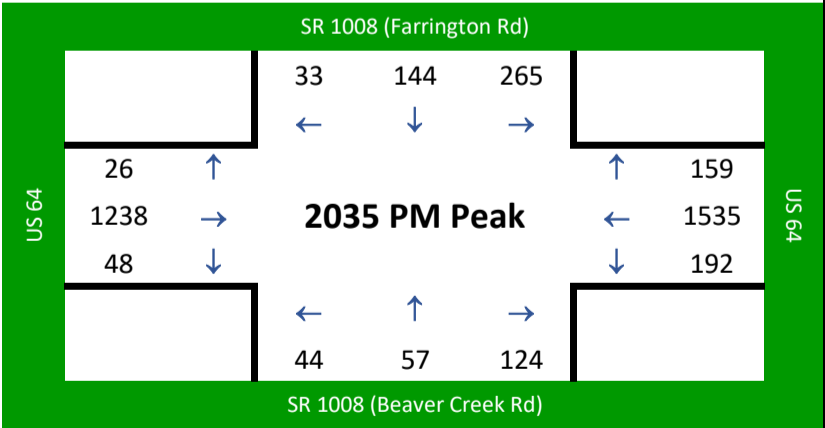
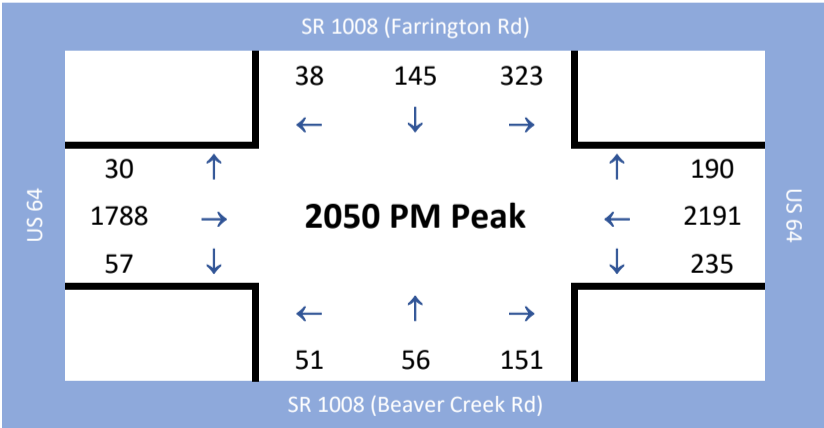
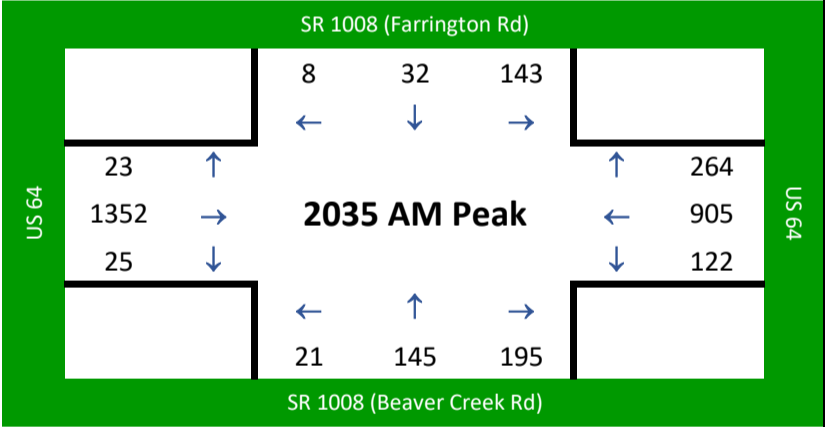
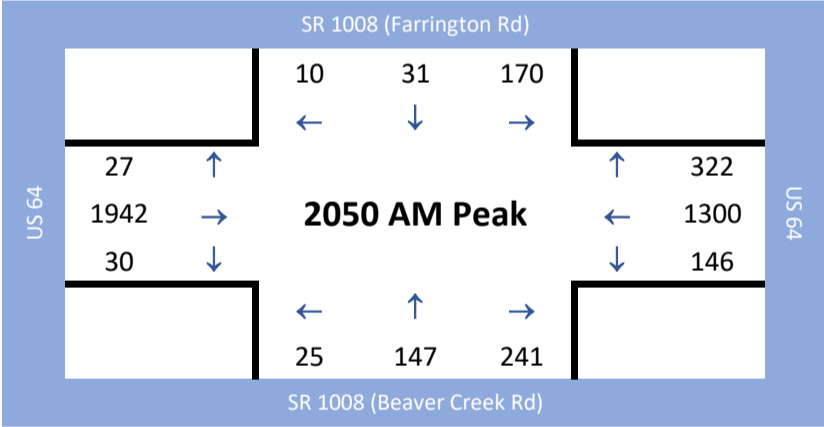
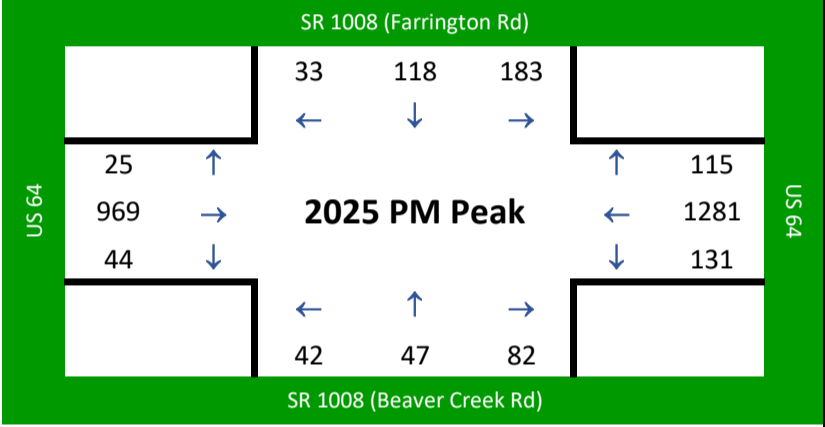
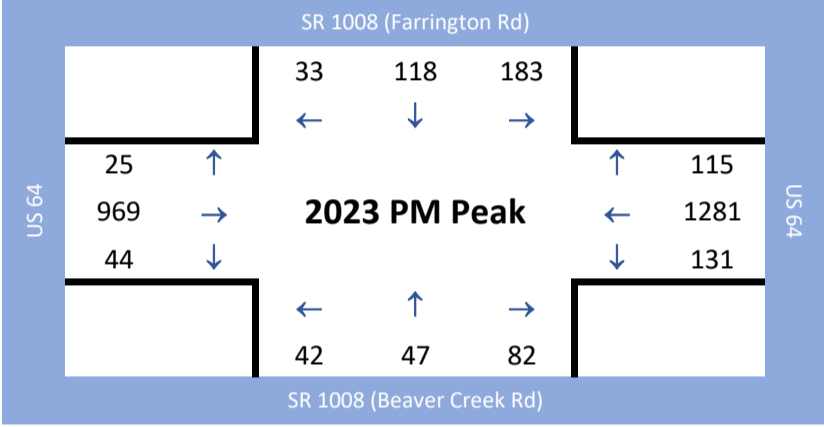
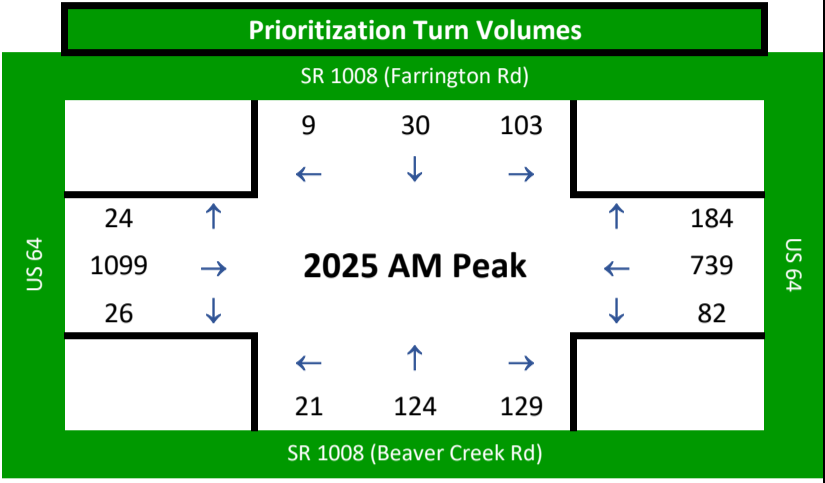
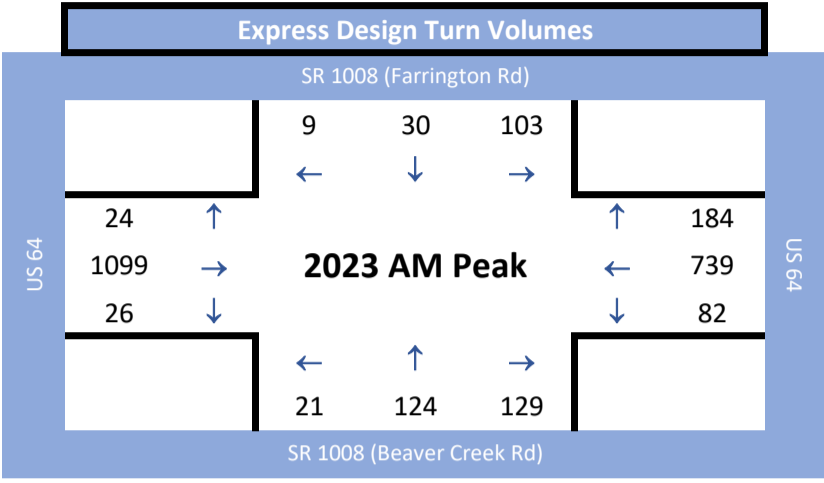
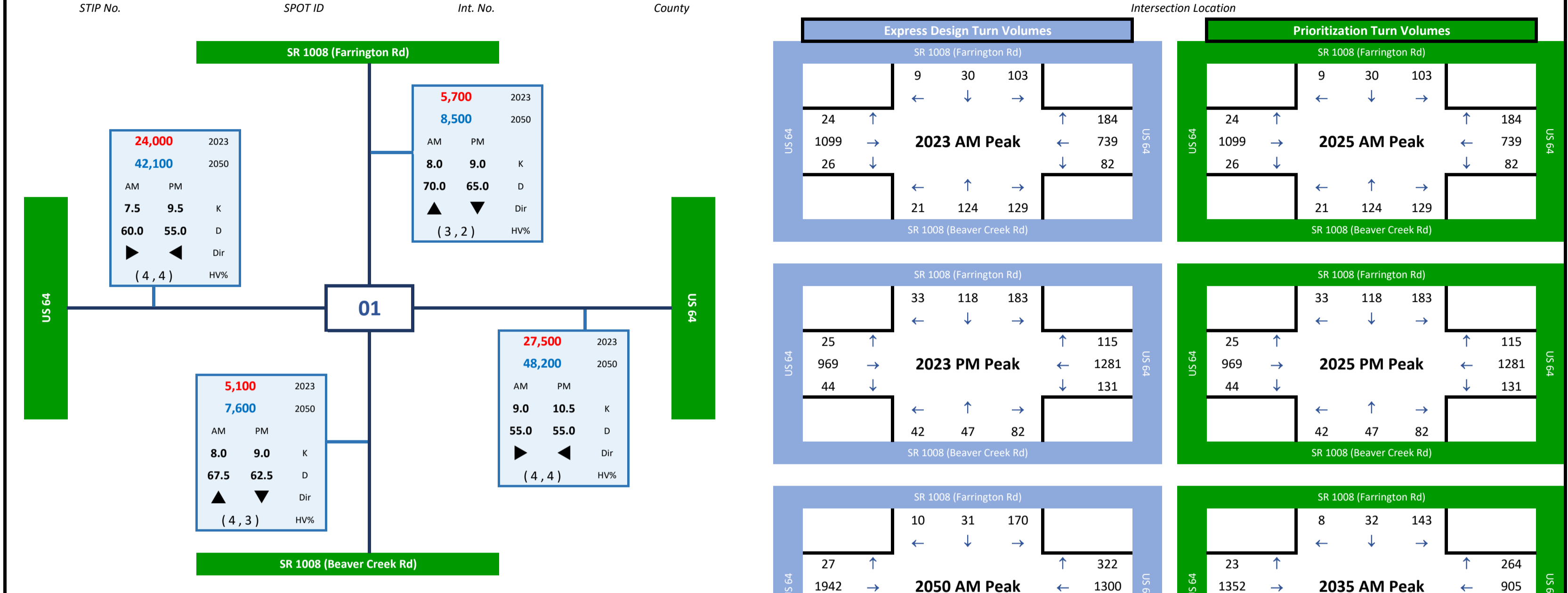


Committed Projects in Study Area

STIP Project and Description: NCDOT STIP 2026-2035	N/A
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Traffic Count Data

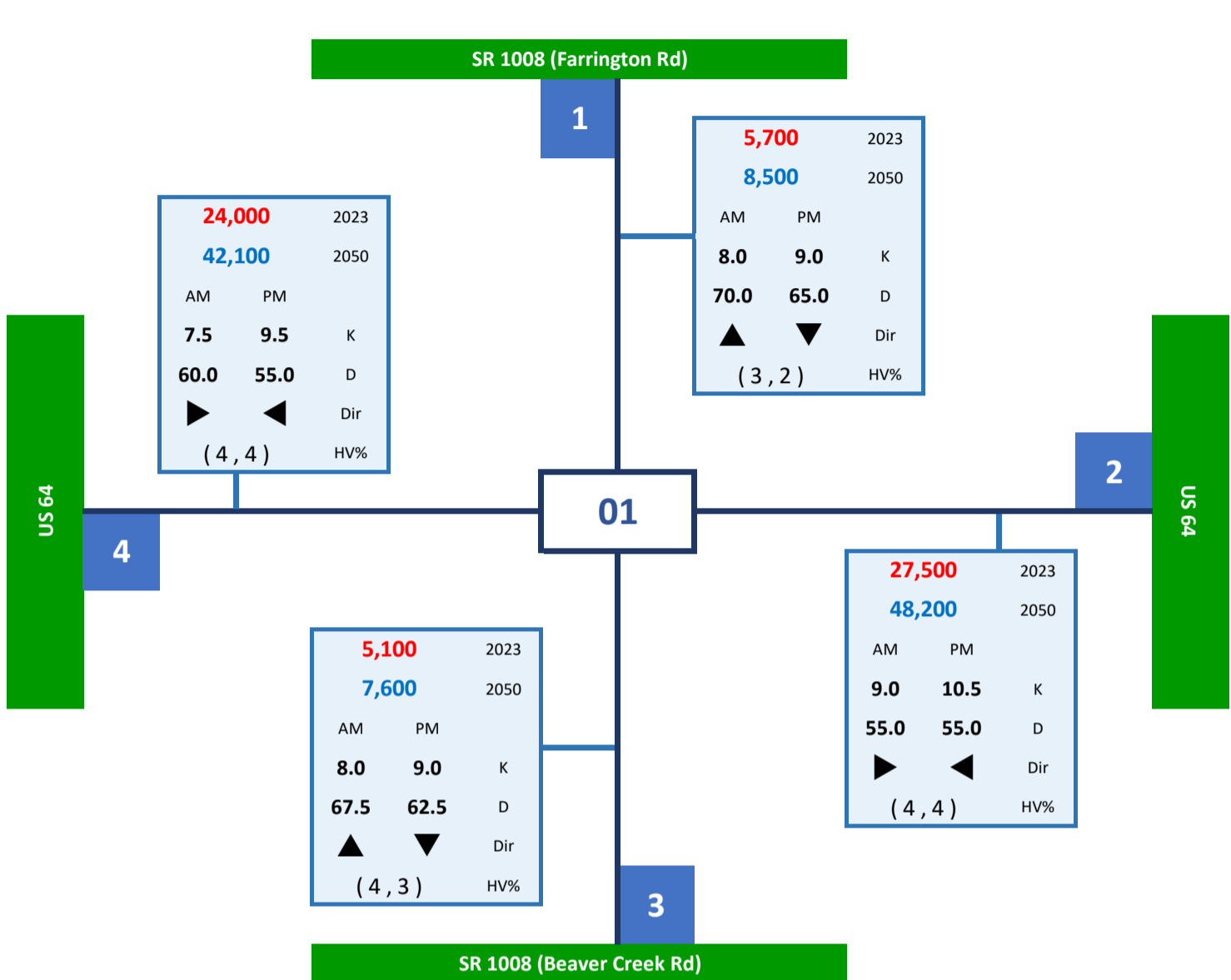
<u>Int ID</u>	<u>Count ID</u>	<u>Count Date</u>	<u>Intersection</u>	<u>AADT Source</u>	<u>Model</u>	<u>Version</u>
1	11551	8/23/2023	US 64 @ SR 1008 (Farrington Rd/Beaver Creek Rd)	2023 NCDOT AADT Web Map	North Carolina Statewide Model (NCSTM)	Gen 4.5
Travel Demand Model Utilized						
				BASE YEAR	2025	
				FUTURE YEAR	2035	
				REPORT STATUS	Final	CORRIDOR PROJECT No



Approach	Road Name	Route Type	No. of Lanes	Facility Type	Functional Class	Capacity	2023 V/C Ratio
North	SR 1008 (Farrington Rd)	SR	2	Arterial	Collector	15,024	0.38
East	US 64	US	4	Arterial	Arterial	30,107	0.91
South	SR 1008 (Beaver Creek Rd)	SR	2	Arterial	Collector	15,024	0.34
West	US 64	US	4	Arterial	Arterial	30,107	0.80

Approach	Road Name	Express Design Traffic Volumes			Prioritization Traffic Volumes		
		2023 AADT	2023-2050 CAGR	2050 AADT	2025 AADT	2025-2035 CAGR	2035 AADT
North	SR 1008 (Farrington Rd)	5,700	1.5%	8,500	5,700	2.8%	7,500
East	US 64	27,500	2.1%	48,200	27,500	2.3%	34,400
South	SR 1008 (Beaver Creek Rd)	5,100	1.5%	7,600	5,100	2.8%	6,700
West	US 64	24,000	2.1%	42,100	24,000	2.2%	29,900

STIP No. SPOT ID Int. No. County Intersection Location



Express Design O-D Volumes

2023 AM Peak

	1	2	3	4	TOTAL
1		103	30	9	142
2	184		82	739	1005
3	124	129		21	274
4	24	1099	26		1149
TOTAL	332	1331	138	769	2570

Prioritization Turn Volumes

SR 1008 (Farrington Rd) 2025 AM Peak

	1	2	3	4	TOTAL
1		103	30	9	142
2	184		82	739	1005
3	124	129		21	274
4	24	1099	26		1149
TOTAL	332	1331	138	769	2570

SR 1008 (Beaver Creek Rd) 2025 AM Peak

	1	2	3	4	TOTAL
1		143	32	8	183
2	264		122	905	1291
3	145	195		21	361
4	23	1352	25		1400
TOTAL	432	1690	179	934	3235

2023 PM Peak

	1	2	3	4	TOTAL
1		183	118	33	334
2	115		131	1281	1527
3	47	82		42	171
4	25	969	44		1038
TOTAL	187	1234	293	1356	3070

2025 PM Peak

SR 1008 (Farrington Rd) 2025 PM Peak

	1	2	3	4	TOTAL
1		183	118	33	334
2	115		131	1281	1527
3	47	82		42	171
4	25	969	44		1038
TOTAL	187	1234	293	1356	3070

SR 1008 (Beaver Creek Rd) 2025 PM Peak

	1	2	3	4	TOTAL
1		143	32	8	183
2	264		122	905	1291
3	145	195		21	361
4	23	1352	25		1400
TOTAL	432	1690	179	934	3235

2050 AM Peak

	1	2	3	4	TOTAL
1		170	31	10	211
2	322		146	1300	1768
3	147	241		25	413
4	27	1942	30		1999
TOTAL	496	2353	207	1335	4391

2035 AM Peak

SR 1008 (Farrington Rd) 2035 AM Peak

	1	2	3	4	TOTAL
1		143	32	8	183
2	264		122	905	1291
3	145	195		21	361
4	23	1352	25		1400
TOTAL	432	1690	179	934	3235

SR 1008 (Beaver Creek Rd) 2035 AM Peak

	1	2	3	4	TOTAL
1		143	32	8	183
2	264		122	905	1291
3	145	195		21	361
4	23	1352	25		1400
TOTAL	432	1690	179	934	3235

2050 PM Peak

	1	2	3	4	TOTAL
1		323	145	38	506
2	190		235	2191	2616
3	56	151		51	258
4	30	1788	57		1875
TOTAL	276	2262	437	2280	5255

2035 PM Peak

SR 1008 (Farrington Rd) 2035 PM Peak

	1	2	3	4	TOTAL
1		265	144	33	442
2	159		192	1535	1886
3	57	124		44	225
4	26	1238	48		1312
TOTAL	242	1627	384	1612	3865

SR 1008 (Beaver Creek Rd) 2035 PM Peak

	1	2	3	4	TOTAL
1		143	32	8	183
2	264		122	905	1291
3	145	195		21	361
4	23	1352	25		1400
TOTAL	432	1690	179	934	3235

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