

Karen Henry, Director

TECHNICAL MEMORANDUM

TO: File

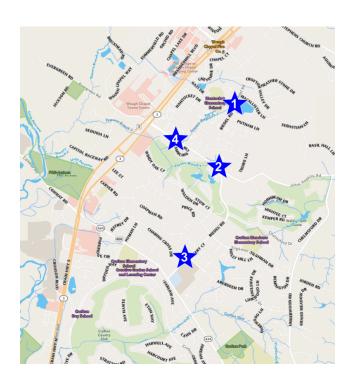
FROM: Erik Terry, Engineer III, Traffic Engineering Division

SUBJECT: Riedel Rd & Johns Hopkins Rd - Data Collection Summary

DATE: January 1, 2024

Data Collection

Statrak radar devices were set at various locations along Riedel Road and Johns Hopkins Road from December 11, 2023 through December 17, 2023. Vehicle speeds, traffic volumes and vehicle class data was collected and averaged for a 7 day period to determine the median speed (50%), the prevailing speed (85%), average daily traffic (ADT) and the percentage of small, medium and large vehicles traveling the subject roads.



Data Collection Locations

- L. Riedel Rd south of Macallister Ln
- 2. Riedel Rd between Johns Hopkins Rd
- 3. Riedel Rd south of Aberdeen Dr
- 4. Johns Hopkins Rd west of Riedel Rd

Speed & Volume Data Summary Table

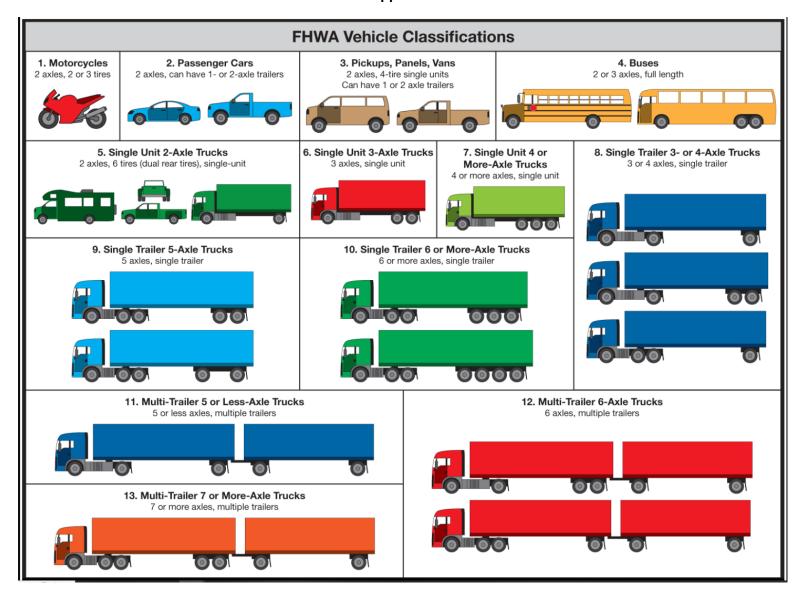
Year	Method	Location	Posted Speed Limit (mph)	Median Speed - 50% (mph)	Prevailing Speed - 85% (mph)	Average Daily Traffic (veh/day)
2023	Statrak	Location 1 - Riedel Rd south of Macallister Ln	35	37	41	10,861
2023	Statrak	Location 2 - Riedel Rd between Johns Hopkins Rd	35	34	38	16,164
2023	Statrak	Location 3 - Riedel Rd south of Aberdeen Dr	35	34	39	15,426
2023	Statrak	Location 4 - Johns Hopkins Rd west of Riedel Rd	35	39	44	8,456

Notes: The median speed is the speed below which 50% of motorists travel. Similarly, the prevailing speed is the speed at below which 85% of motorists travel.

Vehicle Class Data Summary Table

Location	% Small (class 1)	% Medium (class 2-3)	% Large (class 4-12)	Average Daily Traffic (veh/day)
Location 1 - Riedel Rd south of Macallister Ln	.1	98.1	1.8	10,861
Location 2 - Riedel Rd between Johns Hopkins Rd	.8	97.2	2	16,164
Location 3 - Riedel Rd south of Aberdeen Dr	.3	97.1	2	15,426
Location 4 - Johns Hopkins Rd west of Riedel Rd	1	98	1	8,456

Appendix



Traffic Analysis Report Riedel Rd #1, XB



Start: 2023-12-11 End: 2023-12-17 Times: 0:00:00-23:59:59 Speed Range: 1-150 mph Violation Threshold: 10 Lanes Included: 1, 2

Speed

Speed Limit	35 mph
85th Percentile Speed	41 mph
50th Percentile Speed	37 mph
Average Speed	36.7 mph
Pace Speed Range (10 mph)	32 - 42 mph
Max Speed	77 mph
Min Speed	12 mph

Vehicles

Total Vehicles 72555 counts 85th Percentile Vehicles 64500 counts

Volumes

Time	5 Day (Mon-Fri)	7 Day (Sun-Sat)
	10861	10365
8:00 - 9:00	824	699
17:00 - 18:00	968	875
Over Threshold	% Violators	Avg Violator Speed
139	1.9	48.1
174	1.7	47.7
196	1.8	48.0
238	2.2	48.2
216	2.0	48.2
240	2.0	48.0
263	2.4	48.2
	17:00 - 18:00 Over Threshold 139 174 196 238 216 240	10861 8:00 - 9:00 824 17:00 - 18:00 968 Over Threshold 1.9 174 1.7 196 1.8 238 2.2 216 240 2.0

	Number	%
Small (Class 1)	107	0.1
Medium (Class 2-3)	71159	98.
Large (Class 4-12)	1289	1.8

Traffic Analysis Report Riedel Rd #2, XB



Start: 2023-12-11 End: 2023-12-17 Times: 0:00:00-23:59:59 Speed Range: 1-150 mph Violation Threshold: 10 Lanes Included: 1, 2

Speed

35 mph
38 mph
34 mph
33.5 mph
29 - 39 mph
63 mph
5 mph

Vehicles

Total Vehicles 109263 counts 85th Percentile Vehicles 98335 counts

Volumes

	Time	5 Day (Mon-Fri)	7 Day (Sun-Sat)
ADT		16164	15609
AM Peak	8:00 - 9:00	1164	997
PM Peak	16:00 - 17:00	1426	1337
	Over Threshold	% Violators	Avg Violator Speed
Sunday	61	0.5	48.9
Monday	43	0.3	47.6
Tuesday	79	0.5	47.8
Wednesday	82	0.5	48.3
Thursday	74	0.5	48.3
Friday	75	0.4	48.6
Saturday	84	0.5	47.8

	Number	%
Small (Class 1)	917	8.0
Medium (Class 2-3)	106211	97.2
Large (Class 4-12)	2135	2.0

Traffic Analysis Report Riedel Rd #3, XB



Start: 2023-12-08 End: 2023-12-15 Times: 0:00:00-23:59:59 Speed Range: 1-150 mph Violation Threshold: 10 Lanes Included: 1, 2

Speed

Speed Limit	35 mph
85th Percentile Speed	39 mph
50th Percentile Speed	34 mph
Average Speed	34.0 mph
Pace Speed Range (10 mph)	29 - 39 mph
Max Speed	74 mph
Min Speed	12 mph

Vehicles

Total Vehicles 117551 counts 85th Percentile Vehicles 102762 counts

Volumes

ADT	Time	5 Day (Mon-Fri) 15426	7 Day (Sun-Sat) 14693
AM Peak	8:00 - 9:00	1078	961
PM Peak	16:00 - 17:00	1270	1200
	Over Threshold	% Violators	Avg Violator Speed
Sunday	117	1.1	48.0
Monday	114	0.8	48.2
Tuesday	169	1.1	48.4
Wednesday	208	1.3	47.9
Thursday	178	1.1	48.1
Friday	401	1.2	48.2
Saturday	207	1.4	48.1

	Number	%
Small (Class 1)	362	0.3
Medium (Class 2-3)	114797	97.7
Large (Class 4-12)	2392	2.0

Traffic Analysis Report Riedel Rd #4, XB



Start: 2023-12-11 End: 2023-12-17 Times: 0:00:00-23:59:59 Speed Range: 1-150 mph Violation Threshold: 10 Lanes Included: 1, 2

Speed

Speed Limit	35 mph
85th Percentile Speed	44 mph
50th Percentile Speed	38 mph
Average Speed	38.8 mph
Pace Speed Range (10 mph)	33 - 43 mph
Max Speed	88 mph
Min Speed	12 mph

Vehicles

Total Vehicles 59005 counts 85th Percentile Vehicles 51901 counts

Volumes

ADT AM Peak	Time 11:00 - 12:00	5 Day (Mon-Fri) 8456 506	7 Day (Sun-Sat) 8429 552
PM Peak	17:00 - 18:00	863	786
	Over Threshold	% Violators	Avg Violator Speed
Sunday	550	7.5	48.8
Monday	449	8.5	49.3
Tuesday	794	9.2	49.1
Wednesday	819	9.2	49.2
Thursday	867	9.6	49.1
Friday	930	9.0	49.4
Saturday	898	9.6	49.0

	Number	%
Small (Class 1)	608	1.0
Medium (Class 2-3)	57801	98.0
Large (Class 4-12)	596	1.0