

TRAFFIC SAFETY MEETING
March 1, 2022

The Traffic Safety Commission met in person at 3315 Ridge Road, Highland Police Dept. Chief Hojnicky called the meeting to order at 8:02 A.M.

Roll Call: Peter T. Hojnicky, Chief of Police
 John E Banasiak, Commander Police Department
 Robyn Pappenheim, Project Engineer of DVG Team, Inc.
 Steve Jurczak, Police Commissioner
 William Timmer, Fire Chief
 Roger Sheeman, Councilman
 Mark Knesek, Public Works Director

Robyn Pappenheim of DVG Team talked about the findings of her warrant study at the various intersections along Ridge Road for consideration of adding a Left Turn arrow at Ridge/Kleinman, Ridge/Grace and Ridge/ 2nd. There were no conflicts observed at the said intersections as they seem to be timed well and side street traffic was well served. For these reasons, it was not recommended to install left turn phases at this time as it would be a costly addition and more importantly opposing traffic would be delayed unnecessarily throughout the day (see attached letter).

A motion was made by Commander Banasiak and seconded by Chief Timmer to have Robyn Pappenheim of DVG Team, do a study of Kennedy Avenue from Duluth Street south to 100th to determine whether the signals can be timed better for after hours or whether loops even exist and the traffic box will allow any changes.

Other business:

It was stated the "Opticom" system is outdated and/or slow or in some cases not working. Commander Banasiak was asked to contact Michiana Engineers to do ask about a study to determine the needs to get all boxes updated. The Traffic Safety Commission will inquire to the Town Council the availability of monies from the LOIT funds for the updates/repairs to the Opticom System as it serves the Fire Department, Police Department and the Public Works Departments.

With no further business the meeting was adjourned at 8:40 am.



February 25, 2022

Highland Traffic Safety Commission
Town of Highland
3315 Ridge Road
Highland, IN 46322

Subject: Various Left Turn Phase Warrant Study

Dear Commission members,

DVG Team, Inc. conducted a warrant study at various intersections for consideration of adding a LT phase (green arrow phase) to the existing traffic signal on the mainline roads of Ridge Road and 45th Street, specifically at:

- Ridge Rd & Kleinman Rd
- Ridge Rd & Grace St
- Ridge Rd & 2nd St
- 45th Street & 5th Street

All of these intersections have left turn lanes on the mainline road.

We counted and observed traffic on a typical weekday during the afternoon peak period. We were looking for at least one (1) of several factors or occurrences:

- occasions of vehicles not accomplishing their left turn during the phase that they arrived,
- aggressive driving involving such things as tire squealing or horn honking to accomplish the LT maneuver,
- conflicts (close calls) between a LT vehicle and a through vehicle from the opposite direction,
- certain volumes of left turn and opposing traffic (LT x OPP = 50,000), or
- accident history of left turn crashes.

No conflicts were observed. No aggressive maneuvers were observed. There were very few overall occurrences of a vehicle not getting the left turn accomplished during the phase in which they arrived (1-2 per intersection over the hour observed), but all of those left turners got through in the next phase and always early or by midway through that next phase. None of the intersections met the 50,000 combined volume number. See attached traffic volume data for reference. Crash data was not provided, but these could be considered later, if desired. Many left turners turned immediately upon arrival or soon thereafter. Few left turners had to wait until the clearance interval (yellow phase) to turn.

Overall, the intersections seemed to be timed well and side street traffic was well served. Queuing of vehicles at all approaches seemed to be within acceptable limits. Without running level of service analysis, it is estimated that these intersections function at a LOS 'B' or 'C' during the peak period observed, based on perceived vehicle wait times.

DVG TEAM INC.

Civil Engineering ■ Surveying ■ Site Development Consulting



For the reasons stated above, we do not recommend installation of LT phases at this time. This would be a costly addition, but more importantly, opposing traffic would be delayed unnecessarily throughout the day. These counts took place in winter, and summer volumes would likely be a little higher. If it is observed during the summer that many left turners are not making it through during the phase that they arrive or other incidents of conflicts or crashes or aggressive driving are noted, this can be reconsidered.

If development occurs along the side street of these intersections (Kleinman Rd, Grace St, 2nd St, or 5th St) that will add to the left turn volumes off of the main road, then the left turn phasing should be reconsidered and possibly the cost to install these phases would be on the developer, fully or partially.

If you have any questions regarding this study, please contact me at (219) 281-3133.

Very truly yours,

DVG Team Inc.

A handwritten signature in black ink, appearing to read "Robyn L. Pappenheim".

Robyn L. Pappenheim, PE
Project Manager



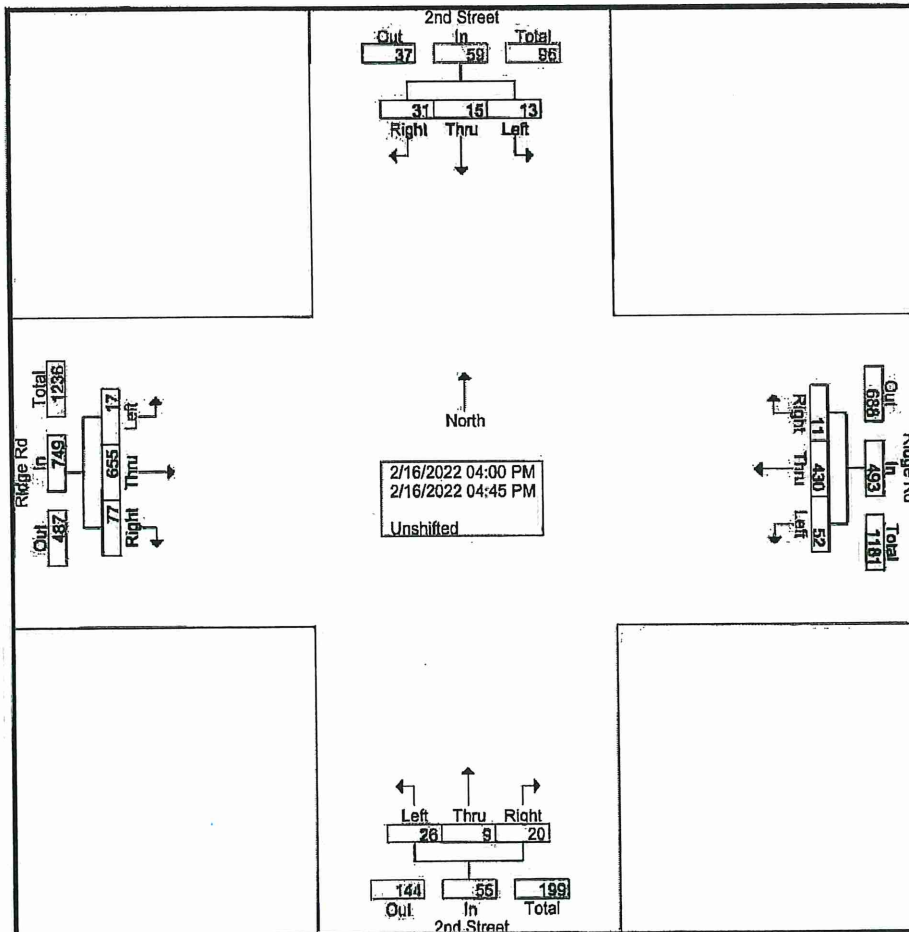
1155 Troutwine Road
Crown Point, IN 46307

Highland LT study
Ridge Rd. & 2nd Street
Highland, IN
PM Peak Period

File Name : 2022 0216 Ridge & 2nd PM
Site Code : 00000222
Start Date : 2/16/2022
Page No : 1

Groups Printed- Unshifted

Start Time	2nd Street From North				Ridge Rd From East				2nd Street From South				Ridge Rd From West				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
04:00 PM	9	4	5	18	5	100	11	116	8	2	4	14	19	168	6	193	341
04:15 PM	11	5	0	16	2	129	11	142	7	4	7	18	20	170	4	194	370
04:30 PM	5	3	3	11	0	92	13	105	3	1	6	10	17	156	5	178	304
04:45 PM	6	3	5	14	4	109	17	130	2	2	9	13	21	161	2	184	341
Total	31	15	13	59	11	430	52	493	20	9	26	55	77	655	17	749	1356
Grand Total	31	15	13	59	11	430	52	493	20	9	26	55	77	655	17	749	1356
Apprch %	52.5	25.4	22		2.2	87.2	10.5		36.4	16.4	47.3		10.3	87.4	2.3		
Total %	2.3	1.1	1	4.4	0.8	31.7	3.8	36.4	1.5	0.7	1.9	4.1	5.7	48.3	1.3	55.2	



52 * (77 + 655)
= 38,064



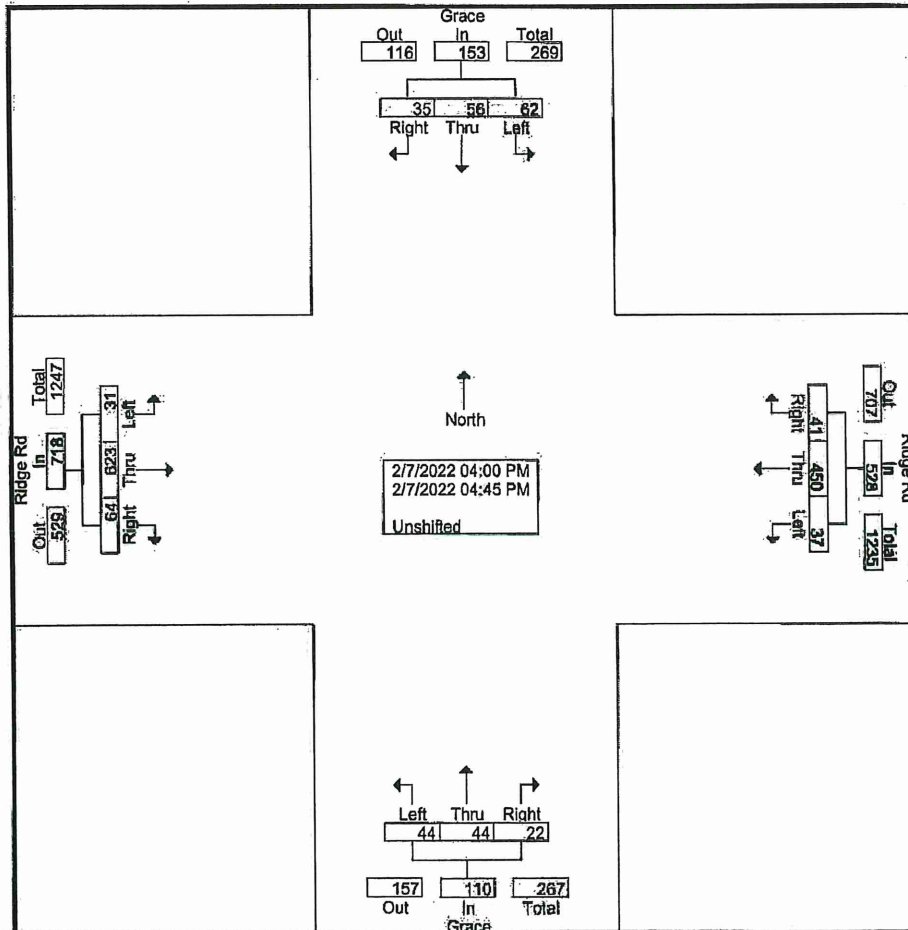
1155 Troutwine Road
 Crown Point, IN 46307

HTSC LT study
 Ridge Rd & Grace St
 Highland, IN
 PM Peak Period

File Name : 2022 0207 Ridge & Grace PM
 Site Code : 00000222
 Start Date : 2/7/2022
 Page No : 1

Groups Printed- Unshifted

Start Time	Grace From North				Ridge Rd From East				Grace From South				Ridge Rd From West				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
04:00 PM	6	12	13	31	14	95	6	115	5	11	10	26	16	167	6	189	361
04:15 PM	8	15	18	41	11	133	8	152	3	8	7	18	23	147	12	182	393
04:30 PM	13	16	16	45	7	115	9	131	9	16	11	36	11	156	5	172	384
04:45 PM	8	13	15	36	9	107	14	130	5	9	16	30	14	153	8	175	371
Total	35	56	62	153	41	450	37	528	22	44	44	110	64	623	31	718	1509
Grand Total	35	56	62	153	41	450	37	528	22	44	44	110	64	623	31	718	1509
Approch %	22.9	36.6	40.5		7.8	85.2	7		20	40	40		8.9	86.8	4.3		
Total %	2.3	3.7	4.1	10.1	2.7	29.8	2.5	35	1.5	2.9	2.9	7.3	4.2	41.3	2.1	47.6	





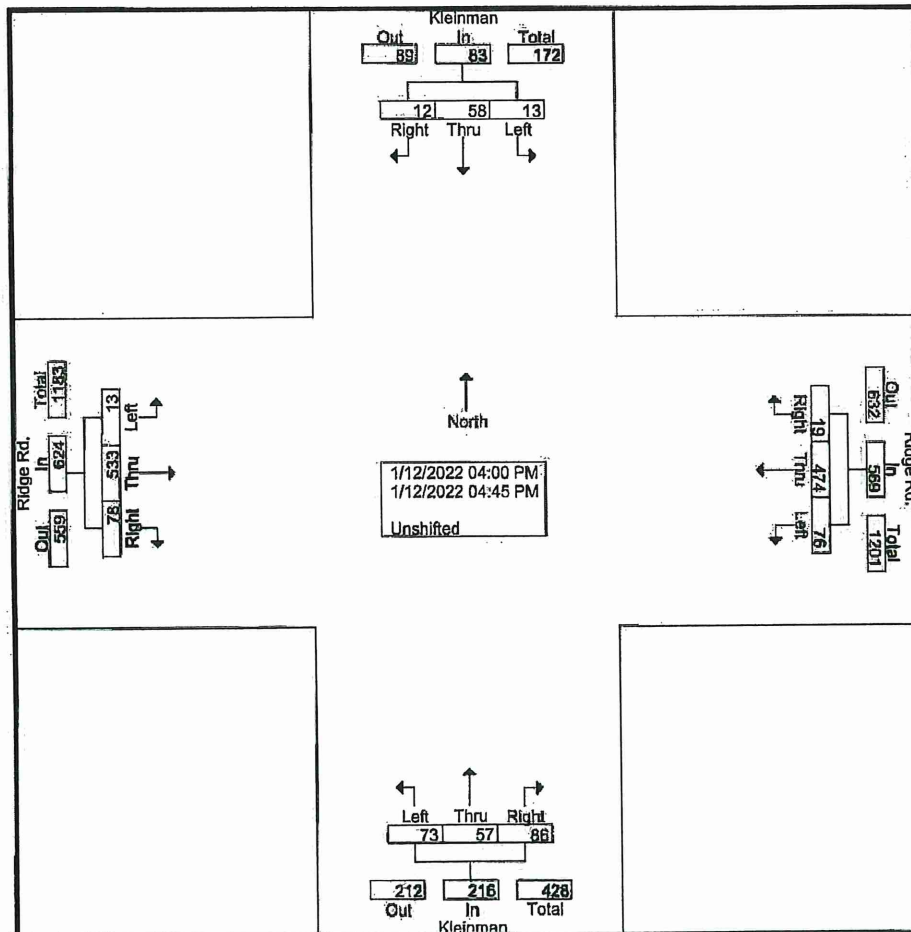
1155 Troutwine Road
Crown Point, IN 46307

Highland LT study
Ridge Rd. & Kleinman
Highland, IN
PM Peak Period

File Name : 2022 0112 Ridge & Kleinman PM
Site Code : 00000111
Start Date : 1/12/2022
Page No : 1

Groups Printed- Unshifted

Start Time	Kleinman From North				Ridge Rd. From East				Kleinman From South				Ridge Rd. From West				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
04:00 PM	3	13	3	19	8	108	12	128	26	11	22	59	21	139	2	162	368
04:15 PM	2	14	4	20	3	130	22	155	17	15	8	40	27	142	3	172	367
04:30 PM	6	12	5	23	4	130	21	155	28	17	25	70	18	130	3	151	399
04:45 PM	1	19	1	21	4	106	21	131	15	14	18	47	12	122	5	139	338
Total	12	58	13	83	19	474	76	569	86	57	73	216	78	533	13	624	1492
Grand Total	12	58	13	83	19	474	76	569	86	57	73	216	78	533	13	624	1492
Apprch %	14.5	69.9	15.7		3.3	83.3	13.4		39.8	26.4	33.8		12.5	85.4	2.1		
Total %	0.8	3.9	0.9	5.6	1.3	31.8	5.1	38.1	5.8	3.8	4.9	14.5	5.2	35.7	0.9	41.8	



76 * (78 + 533)
= 46,436



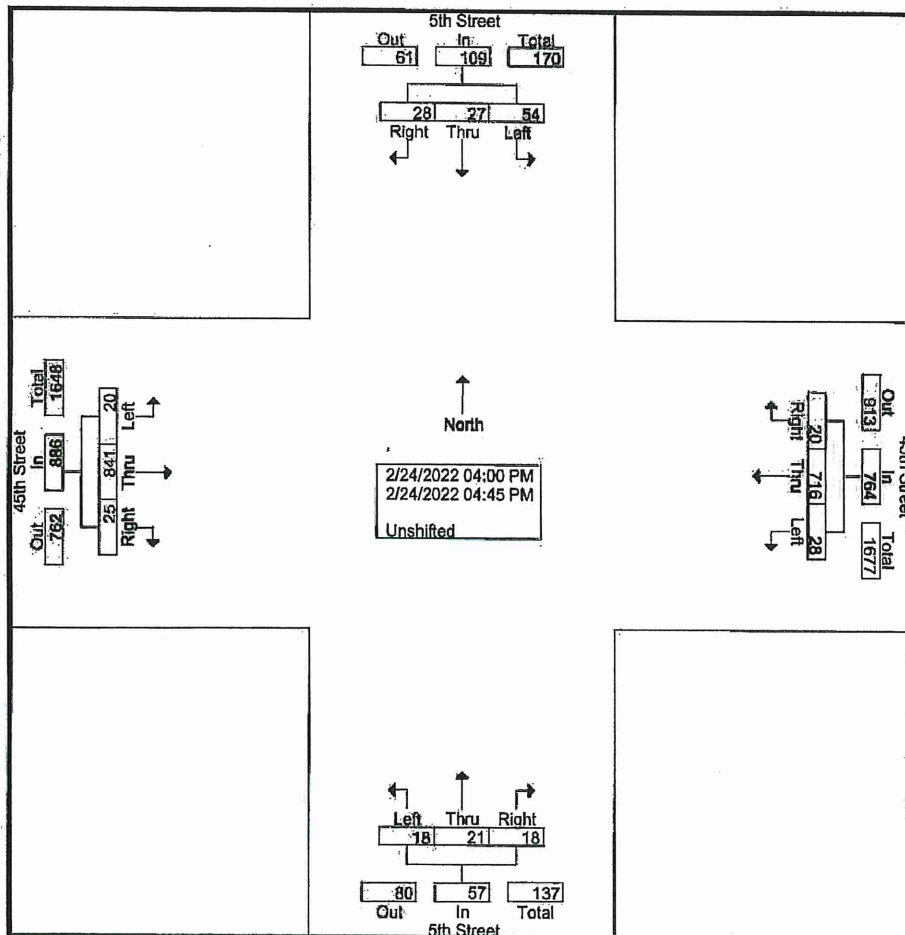
1155 Troutwine Road
Crown Point, IN 46307

HTSC LT Study
45th Street & 5th Street
Highland, IN
PM Peak Period

File Name : 2022 0224 45th & 5th PM
Site Code : 00000333
Start Date : 2/24/2022
Page No : 1

Groups Printed- Unshifted

Start Time	5th Street From North				45th Street From East				5th Street From South				45th Street From West				Int. Total
	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	
04:00 PM	10	7	13	30	3	182	9	194	4	3	7	14	9	238	6	253	491
04:15 PM	8	12	14	34	6	175	7	188	6	6	3	15	4	185	7	196	433
04:30 PM	5	3	9	17	4	187	6	197	3	5	1	9	7	225	3	235	458
04:45 PM	5	5	18	28	7	172	6	185	5	7	7	19	5	193	4	202	434
Total	28	27	54	109	20	716	28	764	18	21	18	57	25	841	20	886	1816
Grand Total	28	27	54	109	20	716	28	764	18	21	18	57	25	841	20	886	1816
Approch %	25.7	24.8	49.5		2.6	93.7	3.7		31.6	36.8	31.6		2.8	94.9	2.3		
Total %	1.5	1.5	3	6	1.1	39.4	1.5	42.1	1	1.2	1	3.1	1.4	46.3	1.1	48.8	



28 * (841 + 28)
24,332