

MEMORANDUM

To: Mark Witsman, PE

Town Engineer, Town of McCordsville

From: Meg Hunter, Kimley-Horn

Drew Wolfred, PE, Kimley-Horn

Date: May 24, 2024

Subject: Traffic Signal Warrant Analysis and Cost Estimate

Intersection of 600 W and Brookside Parkway / Emerald Boulevard

Introduction

Kimley-Horn and Associates, Inc. (Kimley-Horn) was retained by the Town of McCordsville to perform a traffic signal warrant analysis and provide an Opinion of the Probable Construction Cost for a traffic signal installation at the intersection of 600 W and Brookside Parkway / Emerald Boulevard. It is understood that the intersection to the north, 600 W & 900 N, is planned to be converted into a roundabout. With the removal of the signal, there will likely be fewer gaps in the mainline traffic flow, which could hinder operations at the minor street approaches at the study intersection.

Weekday turning movement counts used in this study were collected between 6:00 AM and 7:00 PM on Wednesday, May 1, 2024. A copy of the traffic counts is included in the **Attachments**.

Traffic Signal Warrant Analysis

The Existing (2024) intersection volumes were compared to the volume thresholds for Warrant 1 (8-Hour), Warrant 2 (4-Hour), and Warrant 3 (Peak Hour) outlined in Section 4C of the Indiana Manual on Uniform Traffic Control Devices (IMUTCD).

Table 1 shows the results for the Warrant 1 (8-Hour) analysis. Per the IMUTCD, to meet the criteria for Warrant 1, approach volumes must exceed Warrant 1A, Warrant 1B, or a combination of Warrant 1A and Warrant 1B for 8 hours. Warrant 1A focuses on the total volume of vehicles at an intersection, while Warrant 1B focuses on the minor approaches' ability to find gaps in mainline traffic. As shown in **Table 1**, Existing (2024) traffic volumes meet the Warrant 1B volume thresholds for 11 hours.



Table 1: Warrant 1 - 8 Hour Warrant

| | | Traffic Volume | Meets Warrant? | | | | | | | |
|----------------|--------------|--------------------------------------|----------------|------------|--------------------|--|--|--|--|--|
| Warrant / Time | Major Street | Higher-Volume Minor-Leg Approach | Warrant 1A | Warrant 1B | Warrant 1A & 1B | | | | | |
| Warrant 1A | 500 | 150 | - | - | - | | | | | |
| Warrant 1B | 750 | 75 | - | - | - | | | | | |
| Combination | | | | | | | | | | |
| Warrant 1A | 400 | 120 | - | - | - | | | | | |
| Warrant 1B | 600 | 60 | - | - | - | | | | | |
| 6:00 AM | 771 | 68 | | | | | | | | |
| 7:00 AM | 1302 | 123 | | X | Χ | | | | | |
| 8:00 AM | 1300 | 116 | | X | | | | | | |
| 9:00 AM | 936 | 100 | | X | | | | | | |
| 10:00 AM | 867 | 109 | | X | | | | | | |
| 11:00 AM | 865 | 120 | | X | Χ | | | | | |
| 12:00 PM | 1005 | 86 | | X | | | | | | |
| 1:00 PM | 1070 | 79 | | X | | | | | | |
| 2:00 PM | 1128 | 71 | | | | | | | | |
| 3:00 PM | 1348 | 93 | | X | | | | | | |
| 4:00 PM | 1429 | 111 | | X | | | | | | |
| 5:00 PM | 1663 | 110 | | X | | | | | | |
| 6:00 PM | 1302 | 88 | | X | | | | | | |
| | | Total Number of Hours Warrant is Met | 0 | 11 | 2 | | | | | |
| | | Meets Warrant Criteria? | No | Yes | No | | | | | |

In addition to Warrant 1 (8-Hour), the Existing (2024) volumes were compared to the volume thresholds for Warrant 2 (4-Hour) and Warrant 3 (Peak Hour). To meet Warrant 2 (4-Hours), volumes must exceed the volume threshold for 4 hours. Likewise, to meet Warrant 3 (Peak Hour), volumes must exceed the volume threshold for 1 hour. **Figure 1** shows the results of Warrant 2 (4-Hour) and the Warrant 3 (Peak Hour) analysis. With Existing (2024) volumes, the intersection of 600 W and Brookside Parkway / Emerald Boulevard meets Warrant 2 (4-Hour) volume criteria in 6 hours and meets Warrant 3 (Peak Hour) volume criteria in 2 hours.

Since the intersection of 600 W and Brookside Parkway / Emerald Boulevard meets Warrant 1 (8-Hours), Warrant 2 (4-Hours), and Warrant 3 (Peak Hour), a traffic signal is recommended based on existing traffic volumes.



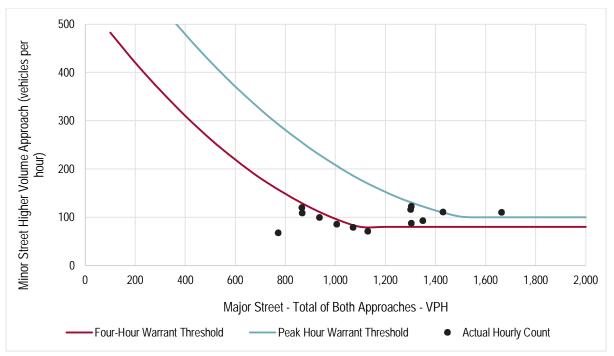


Figure 1: Warrant 2 (4-Hour) and Warrant 3 (Peak Hour)

Opinion of Probable Construction Costs

The following section outlines an Opinion of Probable Construction Cost ("OPCC") for the installation of a traffic signal and associated improvements at the intersection of 600 W and Brookside Parkway / Emerald Boulevard. **Table 2** outlines the OPCC for the baseline traffic signal & intersection improvements as well as three additional enhancements for the Town to consider.

Figure 2 illustrates a schematic plan of the baseline improvements, and **Figure 3** illustrates the additional intersection enhancements.

Through talks with the Town of McCordsville, it is understood that the Town prefers decorative cantilever signal poles; however, the cost is a concern. Therefore, the baseline OPCC assumes standard span wire signal poles, and the decorative cantilever signal poles are one of the potential enhancement options. Additionally, per guidance from the Town, it was assumed that there is sufficient right-of-way (ROW) and pavement and that no utility relocations are expected.

The OPCC provided herein is based on the following preliminary schematic figures. There are no current design plans for the contemplated improvements nor does Kimley-Horn have any field survey or information on subsurface utility information. This OPCC represents both Kimley-Horn's judgment as design professionals familiar with the construction industry as well as available bid tabulations from similar and recent projects. No escalation is included in this Opinion of Probable Construction Costs. As is the practice industry-wide, Kimley-Horn cannot guarantee that proposals, bids, or actual construction costs will not vary from its OPCC.



Table 2: 600 W & Brookside Pkwy / Emerald Blvd Intersection Improvements – OPCC

| Item | Subtotal | | | | | |
|--|------------|--|--|--|--|--|
| Baseline Improvements | | | | | | |
| Traffic Signal Installation | \$ 216,000 | | | | | |
| Pedestrian Accommodations | \$ 57,000 | | | | | |
| Pavement Markings and Signage | \$ 15,000 | | | | | |
| Total OPCC for Baseline | \$ 288,000 | | | | | |
| Additional Enhancement Options | | | | | | |
| 1 - Crosswalk Safety Improvement (South Leg) | \$ 30,000 | | | | | |
| 2 - New Crosswalk (North Leg) | \$ 40,000 | | | | | |
| 3 - Decorated Signal Poles (Cantilever) | \$ 202,000 | | | | | |

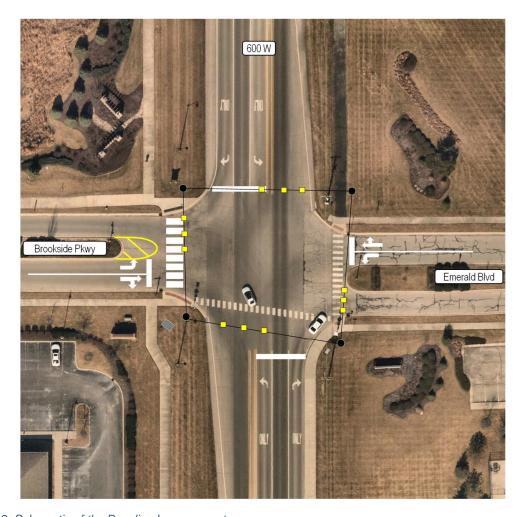


Figure 2: Schematic of the Baseline Improvements



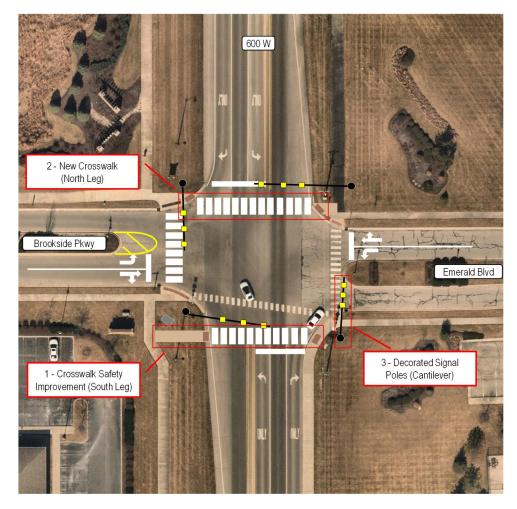


Figure 3: Schematic of the Enhancement Options

Note: The schematic plans shown herein are for information only and do not illustrate all elements associated with the intersection improvements such as signal controller cabinet, conduits, detectors, power connection, etc.

Attachments

Existing (2024) Traffic Counts

Brookside Pkwy / 600 W - TMC

Wed May 1, 2024

Full Length (6 AM-7 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1177861, Location: 39.907397, -85.919074



625 Forest Edge Drive, Vernon Hills, IL, 60061, US

| Leg | Emeralo | l Blvd | | | | Emerald | Blvd | | | | | 600 W | | | | | | 600 W | | | | | \neg | |
|------------------------|---------|--------|---------|---|----------------------------|---------|------|----|---|----------|------|---------|------------|----------|---|------------|------|----------|------------|----|---|------------|--------|-------------|
| Direction | Eastbou | ınd | | | | Westbou | nd | | | | | Northbo | ound | | | | | Southbo | und | | | | | |
| Time | R | T | L | U | App Ped* | R | T | L | U | App | Ped* | R | T | L | U | App | Ped* | R | T | L | U | App | Ped* | |
| 2024-05-01 6:00AM | _ | 0 | 0 | 0 | 0 0 | | 0 | 9 | 0 | 9 | 0 | 0 | 37 | 4 | 0 | 41 | 0 | 4 | 88 | 0 | 0 | 92 | 0 | 142 |
| 6:15AM | _ | 1 | 5 | 0 | 12 0 | _ | 0 | 7 | 0 | 9 | 0 | 4 | 55 | 3 | 0 | 62 | 0 | 5 | 115 | 1 | 0 | 121 | 0 | 204 |
| 6:30AM | _ | 0 | 11 | 0 | 25 0 | | 0 | 12 | 0 | 16 | 0 | 2 | 96 | 4 | 0 | 102 | 0 | 4 | 120 | 1 | 0 | 125 | 0 | 268 |
| 6:45AM | _ | 0 | 13 | 0 | 31 0 | | 1 | 13 | 0 | 17 | 0 | 1 | 88 | 5 | 0 | 94 | 0 | 2 | 132 | 0 | 0 | 134 | 0 | 276 |
| Hourly Total | 1 38 | 1 | 29 | 0 | 68 0 | | 1 | 41 | 0 | 51 | 0 | 7 | 276 | 16 | 0 | 299 | 0 | 15 | 455 | 2 | 0 | 472 | 0 | 890 |
| 7:00AM 7:15AM | _ | 0 | 9 5 | 0 | 36 1 41 0 | _ | 0 | 20 | 0 | 19 24 | 0 | 1 5 | 88 107 | 3 8 | 0 | 92 120 | 0 | 6 | 173 161 | 0 | 0 | 179 168 | 0 | 326 353 |
| 7:30AM | _ | 0 | 2 | 0 | 28 0 | | 0 | 11 | 0 | 15 | 0 | 19 | 157 | 23 | 0 | 199 | 0 | 6 8 | 171 | 0 | 0 | 179 | 0 | 421 |
| 7:45AM | _ | 0 | 7 | 0 | 18 0 | | 1 | 4 | 0 | 10 | 0 | | 157 | 13 | 0 | 177 | 0 | 19 | 166 | 3 | 0 | 188 | 0 | 393 |
| Hourly Total | 1 99 | 1 | 23 | 0 | 123 1 | 18 | 1 | 49 | 0 | 68 | 0 | 32 | 509 | 47 | 0 | 588 | 0 | 39 | 671 | 4 | 0 | 714 | 0 | 1493 |
| 8:00AM | 17 | 2 | 11 | 0 | 30 0 | | 1 | 6 | 0 | 10 | 0 | 6 | 153 | 18 | 0 | 177 | 0 | 12 | 143 | 3 | 1 | 159 | 0 | 376 |
| 8:15AM | _ | 1 | 8 | 0 | 26 0 | | 1 | 6 | 0 | 13 | 1 | 5 | 157 | 15 | 0 | 177 | 0 | 6 | 135 | 1 | 0 | 142 | 1 | 358 |
| 8:30AM | 14 | 2 | 18 | 0 | 34 0 | 0 | 0 | 5 | 0 | 5 | 0 | 4 | 128 | 16 | 0 | 148 | 0 | 21 | 160 | 2 | 0 | 183 | 0 | 370 |
| 8:45AM | 12 | 1 | 13 | 0 | 26 0 | 7 | 3 | 4 | 0 | 14 | 1 | 1 | 128 | 22 | 0 | 151 | 0 | 33 | 129 | 2 | 0 | 164 | 0 | 355 |
| Hourly Total | 1 60 | 6 | 50 | 0 | 116 0 | 16 | 5 | 21 | 0 | 42 | 2 | 16 | 566 | 71 | 0 | 653 | 0 | 72 | 567 | 8 | 1 | 648 | 1 | 1459 |
| 9:00AM | [14 | 0 | 10 | 0 | 24 0 | 7 | 0 | 5 | 0 | 12 | 0 | 2 | 81 | 4 | 0 | 87 | 0 | 11 | 107 | 4 | 0 | 122 | 0 | 245 |
| 9:15AM | 18 | 1 | 8 | 0 | 27 0 | 3 | 0 | 12 | 0 | 15 | 0 | 4 | 96 | 10 | 0 | 110 | 0 | 8 | 116 | 3 | 0 | 127 | 0 | 279 |
| 9:30AM | 10 | 1 | 10 | 0 | 21 0 | 4 | 0 | 3 | 0 | 7 | 0 | 4 | 91 | 16 | 0 | 111 | 0 | 14 | 100 | 2 | 0 | 116 | 0 | 255 |
| 9:45AM | 20 | 0 | 8 | 0 | 28 0 | 0 | 0 | 8 | 0 | 8 | 0 | 4 | 104 | 20 | 0 | 128 | 0 | 18 | 115 | 2 | 0 | 135 | 0 | 299 |
| Hourly Total | | 2 | 36 | 0 | 100 0 | | 0 | 28 | 0 | 42 | 0 | 14 | 372 | 50 | 0 | 436 | 0 | 51 | 438 | 11 | 0 | 500 | 0 | 1078 |
| 10:00AM | 10 | 1 | 16 | 0 | 27 0 | 3 | 1 | 5 | 0 | 9 | 0 | 6 | 79 | 14 | 0 | 99 | 0 | 10 | 82 | 0 | 0 | 92 | 0 | 227 |
| 10:15AM | _ | 0 | 15 | 0 | 26 0 | | 2 | 1 | 0 | 5 | 0 | 11 | 101 | 7 | 1 | 120 | 0 | 5 | 98 | 3 | 0 | 106 | 0 | 257 |
| 10:30AM | 1 9 | 1 | 9 | 0 | 19 0 | | 0 | 8 | 0 | 13 | 0 | | 93 | 12 | 0 | 111 | 0 | 10 | 100 | 3 | 0 | 113 | 0 | 256 |
| 10:45AM | | 2 | 18 | 0 | 37 1 | | 0 | 4 | 0 | 10 | 0 | 2 | 101 | 10 | 0 | 113 | 0 | 19 | 94 | 1 | 0 | 114 | 0 | 274 |
| Hourly Total | | 4 | 58 | 0 | 109 1 | 16 | 3 | 18 | 0 | 37 | 0 | 25 | 374 | 43 | 1 | 443 | 0 | 44 | 374 | 7 | 0 | 425 | 0 | 1014 |
| 11:00AM | + | 1 | 14 | 1 | 29 0 | _ | 1 | 4 | 0 | 8 | 1 | 3 | 111 | 11 | 0 | 125 | 1 | 8 | 101 | 1 | 0 | 110 | 0 | 272 |
| 11:15AM | 13 | 0 | 22 | 0 | 35 0 | | 0 | 5 | 0 | 5 | 0 | 7 | 89 | 6 | 0 | 102 | 0 | 10 | 90 | 1 | 0 | 101 | 0 | 243 |
| 11:30AM | _ | 0 | 9 | 0 | 16 0 | | 0 | 3 | 0 | 3 | 0 | | 89 | 11 | 0 | 104 | 0 | 13 | 98 | 1 | 0 | 112 | 0 | 235 |
| 11:45AM | _ | 3 | 12 | 0 | 41 0 | | 0 | 6 | 0 | 9 | 0 | 4 | 87 | 11 | 0 | 102 | 0 | 6 | 102 | 1 | 0 | 109 | 0 | 261 |
| Hourly Total | _ | 4 | 57 9 | 0 | 121 0 18 0 | | 0 | 18 | 0 | 25 8 | 0 | 18 | 376 127 | 39 | 0 | 433 144 | 1 0 | 37 12 | 391 92 | 3 | 0 | 432 107 | 0 | 1011 277 |
| 12:00PM 12:15PM | _ | 0 | 11 | 0 | 18 0 22 0 | | 0 | 1 | 0 | 5 | 3 | 6 | 110 | 14 | 0 | 126 | 1 | 15 | 110 | 3 | 0 | 128 | 0 | 281 |
| 12:30PM | 11 13 | 0 | 9 | 0 | 22 0 | | 0 | 12 | 0 | 14 | 2 | 6 | 113 | 6 | 0 | 125 | 0 | 9 | 133 | 2 | 0 | 144 | 0 | 305 |
| 12:45PM | 1 16 | 0 | 8 | 0 | 24 0 | _ | 0 | 3 | 0 | 5 | 0 | | 110 | 9 | 0 | 123 | 0 | 11 | 96 | 1 | 0 | 108 | 0 | 260 |
| Hourly Total | 1 48 | 1 | 37 | 0 | 86 1 | 10 | 0 | 22 | 0 | 32 | 5 | 18 | 460 | 40 | 0 | 518 | 1 | 47 | 431 | 9 | 0 | 487 | 0 | 1123 |
| 1:00PM | 17 | 0 | 10 | 0 | 27 0 | | 0 | 6 | 0 | 9 | 0 | | 109 | 7 | 0 | 123 | 0 | 7 | 139 | 3 | 0 | 149 | 0 | 308 |
| 1:15PM | _ | 0 | 4 | 0 | 16 0 | | 0 | 7 | 0 | 8 | 0 | _ | 107 | 7 | 0 | 120 | 0 | 5 | 109 | 3 | 0 | 117 | 0 | 261 |
| 1:30PM | 1 7 | 0 | 7 | 0 | 14 0 | _ | 1 | 0 | 0 | 3 | 0 | 10 | 116 | 20 | 0 | 146 | 0 | 10 | 104 | 3 | 0 | 117 | 0 | 280 |
| 1:45PM | 1 9 | 3 | 10 | 0 | 22 0 | 2 | 0 | 3 | 1 | 6 | 0 | 16 | 132 | 5 | 0 | 153 | 0 | 9 | 132 | 4 | 0 | 145 | 0 | 326 |
| Hourly Total | 1 45 | 3 | 31 | 0 | 79 0 | 8 | 1 | 16 | 1 | 26 | 0 | 39 | 464 | 39 | 0 | 542 | 0 | 31 | 484 | 13 | 0 | 528 | 0 | 1175 |
| 2:00PM | 1 12 | 0 | 8 | 0 | 20 0 | 0 | 0 | 6 | 0 | 6 | 0 | 11 | 116 | 19 | 0 | 146 | 0 | 6 | 103 | 2 | 0 | 111 | 0 | 283 |
| 2:15PM | 10 | 1 | 5 | 0 | 16 0 | 4 | 0 | 7 | 0 | 11 | 0 | 9 | 132 | 7 | 0 | 148 | 0 | 9 | 135 | 1 | 0 | 145 | 0 | 320 |
| 2:30PM | 15 | 0 | 3 | 0 | 18 0 | 2 | 0 | 1 | 0 | 3 | 0 | 5 | 130 | 10 | 0 | 145 | 0 | 11 | 125 | 2 | 0 | 138 | 0 | 304 |
| 2:45PM | 8 | 1 | 8 | 0 | 17 0 | 1 | 0 | 5 | 0 | 6 | 0 | 10 | 143 | 10 | 0 | 163 | 0 | 7 | 123 | 2 | 0 | 132 | 0 | 318 |
| Hourly Total | 45 | 2 | 24 | 0 | 71 0 | 7 | 0 | 19 | 0 | 26 | 0 | 35 | 521 | 46 | 0 | 602 | 0 | 33 | 486 | 7 | 0 | 526 | 0 | 1225 |
| 3:00PM | 18 | 4 | 11 | 0 | 33 0 | 4 | 1 | 7 | 0 | 12 | 0 | 16 | 178 | 19 | 0 | 213 | 0 | 10 | 111 | 4 | 0 | 125 | 0 | 383 |
| 3:15PM | 11 | 2 | 7 | 0 | 20 0 | 3 | 1 | 5 | 0 | 9 | 0 | 9 | 147 | 20 | 0 | 176 | 0 | 12 | 138 | 4 | 0 | 154 | 0 | 359 |
| 3:30PM | 12 | 0 | 9 | 0 | 21 0 | 3 | 1 | 6 | 0 | 10 | 0 | 15 | 136 | 14 | 0 | 165 | 0 | 7 | 162 | 2 | 0 | 171 | 0 | 367 |
| 3:45PM | 13 | 0 | 6 | 0 | 19 0 | 0 | 1 | 11 | 0 | 12 | 0 | 11 | 165 | 21 | 0 | 197 | 0 | 19 | 124 | 4 | 0 | 147 | 0 | 375 |
| Hourly Total | _ | 6 | 33 | 0 | 93 0 | | 4 | 29 | 0 | 43 | 0 | | 626 | 74 | 0 | 751 | 0 | 48 | 535 | 14 | 0 | 597 | 0 | 1484 |
| 4:00PM | _ | 0 | 7 | 0 | 23 0 | | 0 | 3 | 0 | 5 | 0 | 12 | 142 | 14 | 0 | 168 | 0 | 15 | 133 | 2 | 0 | 150 | 0 | 346 |
| 4:15PM | | 0 | 12 | 0 | 24 0 | | 0 | 1 | 0 | 4 | 1 | 13 | 152 | 11 | 0 | 176 | 1 | 15 | 150 | 3 | 0 | 168 | 0 | 372 |
| 4:30PM | _ | 1 | 10 | 0 | 36 1 | _ | 1 | 7 | 0 | 10 | 0 | | 217 | 20 | 0 | 254 | 0 | 17 | 142 | 4 | 0 | 163 | 0 | 463 |
| 4:45PM | | 1 | 9 | 0 | 28 0 | | 0 | 3 | 0 | 7 | 0 | 11 | 153 | 18 | 0 | 182 | 0 | 19 | 148 | 1 | 0 | 168 | 0 | 385 |
| Hourly Total | _ | 2 | 38 | 0 | 111 1 | | 1 | 14 | 0 | 26 | 1 | | 664 | 63 | 0 | 780 | 1 | 66 | 573 | 10 | 0 | 649 | 0 | 1566 |
| 5:00PM | _ | 1 | 9 | 0 | 31 0 | | 2 | 6 | 0 | 11 | 0 | 19 | 220 | 21 | 0 | 260 | 0 | 14 | 145 | 5 | 0 | 164 | 0 | 466 |
| 5:15PM | _ | 0 | 7 | 0 | 20 1 | _ | 0 | 2 | 0 | 3 | 1 | 12 | 201 | 27 | 0 | 240 | 1 | 19 | 169 | 6 | 0 | 194 | 0 | 457 |
| 5:30PM 5:45PM | _ | 1 | 5 8 | 0 | 24 0 35 0 | | 0 | 6 | 0 | 7 | 0 | 15 | 174 178 | 23 16 | 0 | 212 | 0 | 17 15 | 186 164 | 6 | 0 | 209 181 | 0 | 453 426 |
| 5:45PM Hourly Total | _ | 2 | 29 | 0 | 110 1 | 10 | 3 | 16 | 0 | 29 | 1 | 9 55 | 773 | 87 | 0 | 915 | 0 | 65 | 664 | 19 | 0 | 748 | U | 1802 |
| 6:00PM | _ | 2 | 12 | 0 | 28 0 | | 0 | 7 | 0 | 11 | 0 | 16 | 162 | 13 | 0 | 191 | 0 | 23 | 167 | 4 | 0 | 194 | 0 | 424 |
| 6:00PM | _ | 1 | 11 | 1 | 28 1 | _ | 4 | 7 | 0 | 16 | 0 | 14 | 178 | 21 | 0 | 213 | 0 | 12 | 127 | 3 | 0 | 142 | 0 | 399 |
| U.15PM | 15 | Т | 11 | 1 | 20 1 | L 3 | 4 | / | U | 10 | U | 14 | 1/0 | ∠1 | U | 213 | U | 12 | 14/ | ى | U | 142 | U | 399 |

| Leg | Emeral | d Blvd | | | | | Emeral | d Blvd | | | | | 600 W | | | | | | 600 W | | | | | | |
|-----------------------------------|--------|--------|-------|------|-------|-------|--------|--------|-------|--------|-------|-------|--------|-------|-------|------|-------|-------|--------|-------|---------|------|-------|------|-------|
| Direction | Eastbo | ınd | | | | | Westbo | ound | | | | | Northb | ound | | | | | Southb | ound | | | | | |
| Time | R | T | L | U | App | Ped* | R | T | L | U | App | Ped* | R | T | L | U | App | Ped* | R | T | L | U | App | Ped* | Int |
| 6:30PM | 7 | 0 | 11 | 0 | 18 | 0 | 4 | 1 | 5 | 0 | 10 | 0 | 6 | 134 | 10 | 0 | 150 | 0 | 13 | 132 | 1 | 0 | 146 | 0 | 324 |
| 6:45PM | 8 | 0 | 7 | 0 | 15 | 0 | 1 | 1 | 5 | 0 | 7 | 1 | 12 | 117 | 30 | 0 | 159 | 1 | 16 | 91 | 0 | 0 | 107 | 0 | 288 |
| Hourly Total | 44 | 3 | 41 | 1 | 89 | 1 | 14 | 6 | 24 | 0 | 44 | 1 | 48 | 591 | 74 | 0 | 713 | 1 | 64 | 517 | 8 | 0 | 589 | 0 | 1435 |
| Total | 751 | 37 | 486 | 2 | 1276 | 6 | 149 | 26 | 315 | 1 | 491 | 11 | 411 | 6572 | 689 | 1 | 7673 | 5 | 612 | 6586 | 116 | 1 | 7315 | 1 | 16755 |
| % Approach | 58.9% | 2.9% | 38.1% | 0.2% | - | - | 30.3% | 5.3% | 64.2% | 0.2% | - | - | 5.4% | 85.7% | 9.0% | 0% | - | - | 8.4% | 90.0% | 1.6% | 0% | - | - | - |
| % Total | 4.5% | 0.2% | 2.9% | 0% | 7.6% | - | 0.9% | 0.2% | 1.9% | 0% | 2.9% | - | 2.5% | 39.2% | 4.1% | 0% 4 | 15.8% | - | 3.7% | 39.3% | 0.7% | 0% 4 | 13.7% | - | - |
| Lights | 734 | 37 | 478 | 2 | 1251 | - | 147 | 26 | 315 | 1 | 489 | - | 400 | 6196 | 674 | 0 | 7270 | - | 603 | 6184 | 115 | 1 | 6903 | - | 15913 |
| % Lights | 97.7% | 100% | 98.4% | 100% | 98.0% | - | 98.7% | 100% | 100% | 100% 9 | 99.6% | - | 97.3% | 94.3% | 97.8% | 0% 9 | 4.7% | - | 98.5% | 93.9% | 99.1% 1 | 100% | 94.4% | - | 95.0% |
| Articulated Trucks | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 54 | 0 | 0 | 54 | - | 1 | 73 | 0 | 0 | 74 | - | 128 |
| % Articulated Trucks | 0% | 0% | 0% | 0% | 0% | - | 0% | 0% | 0% | 0% | 0% | - | 0% | 0.8% | 0% | 0% | 0.7% | - | 0.2% | 1.1% | 0% | 0% | 1.0% | - | 0.8% |
| Buses and Single-Unit Trucks | 17 | 0 | 8 | 0 | 25 | - | 2 | 0 | 0 | 0 | 2 | - | 11 | 322 | 15 | 1 | 349 | - | 8 | 329 | 1 | 0 | 338 | - | 714 |
| % Buses and Single-Unit Trucks | 2.3% | 0% | 1.6% | 0% | 2.0% | _ | 1.3% | 0% | 0% | 0% | 0.4% | _ | 2.7% | 4.9% | 2.2% | 100% | 4.5% | _ | 1.3% | 5.0% | 0.9% | 0% | 4.6% | _ | 4.3% |
| Pedestrians | - | - | - | - | - | 5 | - | - | - | - | - | 8 | - | - | - | - | - | 4 | - | - | - | - | - | 1 | |
| % Pedestrians | - | - | - | - | - 1 | 33.3% | - | - | - | - | - 1 | 72.7% | - | - | - | - | - 8 | 30.0% | - | - | - | - | - 1 | 00% | - |
| Bicycles on Crosswalk | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | - | - | - | 1 | - | - | - | - | - | 0 | |
| % Bicycles on Crosswalk | - | - | - | - | - : | 16.7% | - | - | - | - | - 3 | 27.3% | - | - | - | - | - 2 | 20.0% | - | - | - | - | - | 0% | - |

^{*}Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

Brookside Pkwy / 600 W - TMC

Wed May 1, 2024

Full Length (6 AM-7 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks,

Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1177861, Location: 39.907397, -85.919074



Provided by: Gewalt Hamilton Associates Inc. 625 Forest Edge Drive, Vernon Hills, IL, 60061, US

