

Aliant Engineering Inc

TH-13/CSAH-21 at Franklin Trail

Ref.Pt 085+00.265

Aliant Engineering

****TURN MOVEMENT COUNT****

File Name : 504_TH 21 & Franklin Trail

Site Code : 504

Start Date : 1/5/2017

Page No : 1

Groups Printed- Vehicles - Trucks

| Start Time | Franklin Trail Southbound | | | | | TH 21 Westbound | | | | | Franklin Trail Northbound | | | | | TH 21 Eastbound | | | | | Int. Total |
|---------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|------------|
| | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | |
| 06:00 | 3 | 3 | 4 | 0 | 10 | 10 | 49 | 2 | 0 | 61 | 0 | 5 | 26 | 0 | 31 | 1 | 44 | 1 | 0 | 46 | 148 |
| 06:15 | 8 | 5 | 1 | 1 | 15 | 4 | 81 | 10 | 0 | 95 | 2 | 16 | 40 | 0 | 58 | 4 | 49 | 0 | 0 | 53 | 221 |
| 06:30 | 9 | 2 | 8 | 0 | 19 | 11 | 123 | 8 | 0 | 142 | 8 | 24 | 55 | 0 | 87 | 3 | 44 | 3 | 0 | 50 | 298 |
| 06:45 | 7 | 4 | 6 | 0 | 17 | 24 | 131 | 17 | 0 | 172 | 1 | 11 | 57 | 0 | 69 | 9 | 83 | 1 | 0 | 93 | 351 |
| Total | 27 | 14 | 19 | 1 | 61 | 49 | 384 | 37 | 0 | 470 | 11 | 56 | 178 | 0 | 245 | 17 | 220 | 5 | 0 | 242 | 1018 |
| 07:00 | 15 | 11 | 1 | 0 | 27 | 8 | 137 | 28 | 0 | 173 | 2 | 54 | 52 | 0 | 108 | 1 | 79 | 3 | 0 | 83 | 391 |
| 07:15 | 12 | 16 | 9 | 0 | 37 | 18 | 129 | 19 | 0 | 166 | 7 | 36 | 52 | 0 | 95 | 4 | 96 | 1 | 0 | 101 | 399 |
| 07:30 | 10 | 14 | 5 | 0 | 29 | 14 | 160 | 10 | 0 | 184 | 5 | 35 | 41 | 0 | 81 | 0 | 77 | 1 | 0 | 78 | 372 |
| 07:45 | 11 | 15 | 4 | 0 | 30 | 25 | 146 | 20 | 0 | 191 | 5 | 30 | 42 | 0 | 77 | 3 | 86 | 2 | 1 | 92 | 390 |
| Total | 48 | 56 | 19 | 0 | 123 | 65 | 572 | 77 | 0 | 714 | 19 | 155 | 187 | 0 | 361 | 8 | 338 | 7 | 1 | 354 | 1552 |
| 08:00 | 11 | 18 | 5 | 0 | 34 | 17 | 137 | 12 | 0 | 166 | 6 | 21 | 48 | 0 | 75 | 0 | 81 | 1 | 0 | 82 | 357 |
| 08:15 | 17 | 18 | 5 | 0 | 40 | 17 | 119 | 12 | 0 | 148 | 9 | 23 | 42 | 0 | 74 | 4 | 70 | 4 | 0 | 78 | 340 |
| 08:30 | 12 | 9 | 1 | 0 | 22 | 12 | 104 | 10 | 0 | 126 | 6 | 18 | 33 | 0 | 57 | 3 | 65 | 3 | 0 | 71 | 276 |
| 08:45 | 10 | 17 | 1 | 0 | 28 | 19 | 97 | 15 | 0 | 131 | 0 | 25 | 36 | 0 | 61 | 3 | 72 | 1 | 0 | 76 | 296 |
| Total | 50 | 62 | 12 | 0 | 124 | 65 | 457 | 49 | 0 | 571 | 21 | 87 | 159 | 0 | 267 | 10 | 288 | 9 | 0 | 307 | 1269 |
| 09:00 | 9 | 14 | 5 | 0 | 28 | 14 | 94 | 18 | 0 | 126 | 1 | 22 | 35 | 0 | 58 | 3 | 64 | 1 | 0 | 68 | 280 |
| 09:15 | 21 | 28 | 1 | 0 | 50 | 10 | 74 | 13 | 0 | 97 | 1 | 19 | 20 | 0 | 40 | 2 | 71 | 1 | 0 | 74 | 261 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| Total | 30 | 42 | 6 | 0 | 78 | 24 | 168 | 31 | 0 | 223 | 2 | 41 | 55 | 0 | 98 | 5 | 135 | 2 | 0 | 142 | 541 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| 10:30 | 9 | 7 | 4 | 0 | 20 | 18 | 38 | 6 | 0 | 62 | 3 | 12 | 21 | 0 | 36 | 1 | 72 | 1 | 0 | 74 | 192 |
| 10:45 | 3 | 9 | 2 | 0 | 14 | 8 | 55 | 7 | 0 | 70 | 0 | 12 | 30 | 0 | 42 | 1 | 48 | 0 | 0 | 49 | 175 |
| Total | 12 | 16 | 6 | 0 | 34 | 26 | 93 | 13 | 0 | 132 | 3 | 24 | 51 | 0 | 78 | 2 | 120 | 1 | 0 | 123 | 367 |
| 11:00 | 7 | 16 | 2 | 0 | 25 | 18 | 60 | 2 | 0 | 80 | 3 | 20 | 26 | 0 | 49 | 2 | 63 | 1 | 0 | 66 | 220 |
| 11:15 | 17 | 18 | 7 | 0 | 42 | 29 | 52 | 3 | 0 | 84 | 2 | 15 | 25 | 0 | 42 | 1 | 34 | 2 | 0 | 37 | 205 |
| 11:30 | 7 | 15 | 1 | 0 | 23 | 22 | 73 | 13 | 0 | 108 | 2 | 17 | 25 | 0 | 44 | 1 | 58 | 3 | 0 | 62 | 237 |
| 11:45 | 10 | 16 | 2 | 0 | 28 | 17 | 60 | 5 | 0 | 82 | 1 | 14 | 29 | 0 | 44 | 1 | 41 | 1 | 0 | 43 | 197 |
| Total | 41 | 65 | 12 | 0 | 118 | 86 | 245 | 23 | 0 | 354 | 8 | 66 | 105 | 0 | 179 | 5 | 196 | 7 | 0 | 208 | 859 |
| 12:00 | 10 | 19 | 1 | 0 | 30 | 18 | 65 | 6 | 0 | 89 | 4 | 8 | 30 | 0 | 42 | 0 | 62 | 2 | 0 | 64 | 225 |
| 12:15 | 5 | 16 | 4 | 0 | 25 | 18 | 74 | 8 | 0 | 100 | 2 | 13 | 21 | 0 | 36 | 0 | 68 | 5 | 0 | 73 | 234 |
| 12:30 | 13 | 14 | 2 | 0 | 29 | 16 | 73 | 6 | 0 | 95 | 1 | 18 | 32 | 0 | 51 | 1 | 75 | 2 | 0 | 78 | 253 |
| 12:45 | 14 | 16 | 2 | 0 | 32 | 25 | 68 | 8 | 0 | 101 | 2 | 10 | 39 | 0 | 51 | 0 | 48 | 2 | 0 | 50 | 234 |
| Total | 42 | 65 | 9 | 0 | 116 | 77 | 280 | 28 | 0 | 385 | 9 | 49 | 122 | 0 | 180 | 1 | 253 | 11 | 0 | 265 | 946 |
| 13:00 | 10 | 16 | 6 | 0 | 32 | 27 | 88 | 9 | 0 | 124 | 1 | 12 | 24 | 0 | 37 | 3 | 66 | 1 | 0 | 70 | 263 |
| 13:15 | 17 | 12 | 3 | 0 | 32 | 19 | 68 | 10 | 0 | 97 | 3 | 10 | 39 | 0 | 52 | 4 | 57 | 3 | 0 | 64 | 245 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| Total | 27 | 28 | 9 | 0 | 64 | 46 | 156 | 19 | 0 | 221 | 4 | 22 | 63 | 0 | 89 | 7 | 123 | 4 | 0 | 134 | 508 |
| *** BREAK *** | | | | | | | | | | | | | | | | | | | | | |
| 14:30 | 17 | 13 | 3 | 0 | 33 | 15 | 83 | 11 | 0 | 109 | 1 | 10 | 30 | 0 | 41 | 2 | 83 | 3 | 0 | 88 | 271 |
| 14:45 | 12 | 20 | 2 | 0 | 34 | 28 | 100 | 9 | 0 | 137 | 6 | 14 | 22 | 0 | 42 | 5 | 76 | 1 | 0 | 82 | 295 |
| Total | 29 | 33 | 5 | 0 | 67 | 43 | 183 | 20 | 0 | 246 | 7 | 24 | 52 | 0 | 83 | 7 | 159 | 4 | 0 | 170 | 566 |
| 15:00 | 20 | 34 | 3 | 1 | 58 | 34 | 105 | 9 | 1 | 149 | 4 | 14 | 28 | 0 | 46 | 2 | 76 | 3 | 0 | 81 | 334 |
| 15:15 | 13 | 39 | 4 | 0 | 56 | 23 | 83 | 14 | 0 | 120 | 4 | 23 | 46 | 0 | 73 | 3 | 101 | 2 | 0 | 106 | 355 |
| 15:30 | 9 | 28 | 4 | 0 | 41 | 30 | 109 | 9 | 0 | 148 | 5 | 21 | 39 | 0 | 65 | 1 | 104 | 6 | 0 | 111 | 365 |
| 15:45 | 19 | 31 | 6 | 0 | 56 | 33 | 111 | 9 | 0 | 153 | 3 | 22 | 28 | 0 | 53 | 3 | 97 | 5 | 0 | 105 | 367 |
| Total | 61 | 132 | 17 | 1 | 211 | 120 | 408 | 41 | 1 | 570 | 16 | 80 | 141 | 0 | 237 | 9 | 378 | 16 | 0 | 403 | 1421 |
| 16:00 | 12 | 35 | 2 | 0 | 49 | 38 | 124 | 11 | 0 | 173 | 2 | 20 | 47 | 0 | 69 | 3 | 151 | 3 | 0 | 157 | 448 |
| 16:15 | 21 | 31 | 3 | 0 | 55 | 48 | 135 | 11 | 0 | 194 | 6 | 35 | 57 | 0 | 98 | 4 | 138 | 4 | 0 | 146 | 493 |
| 16:30 | 12 | 43 | 7 | 0 | 62 | 44 | 135 | 13 | 0 | 192 | 1 | 16 | 29 | 0 | 46 | 1 | 136 | 6 | 0 | 143 | 443 |
| 16:45 | 15 | 32 | 6 | 0 | 53 | 43 | 123 | 8 | 0 | 174 | 1 | 26 | 51 | 0 | 78 | 6 | 152 | 4 | 0 | 162 | 467 |
| Total | 60 | 141 | 18 | 0 | 219 | 173 | 517 | 43 | 0 | 733 | 10 | 97 | 184 | 0 | 291 | 14 | 577 | 17 | 0 | 608 | 1851 |

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****TURN MOVEMENT COUNT****

File Name : 504_TH 21 & Franklin Trail

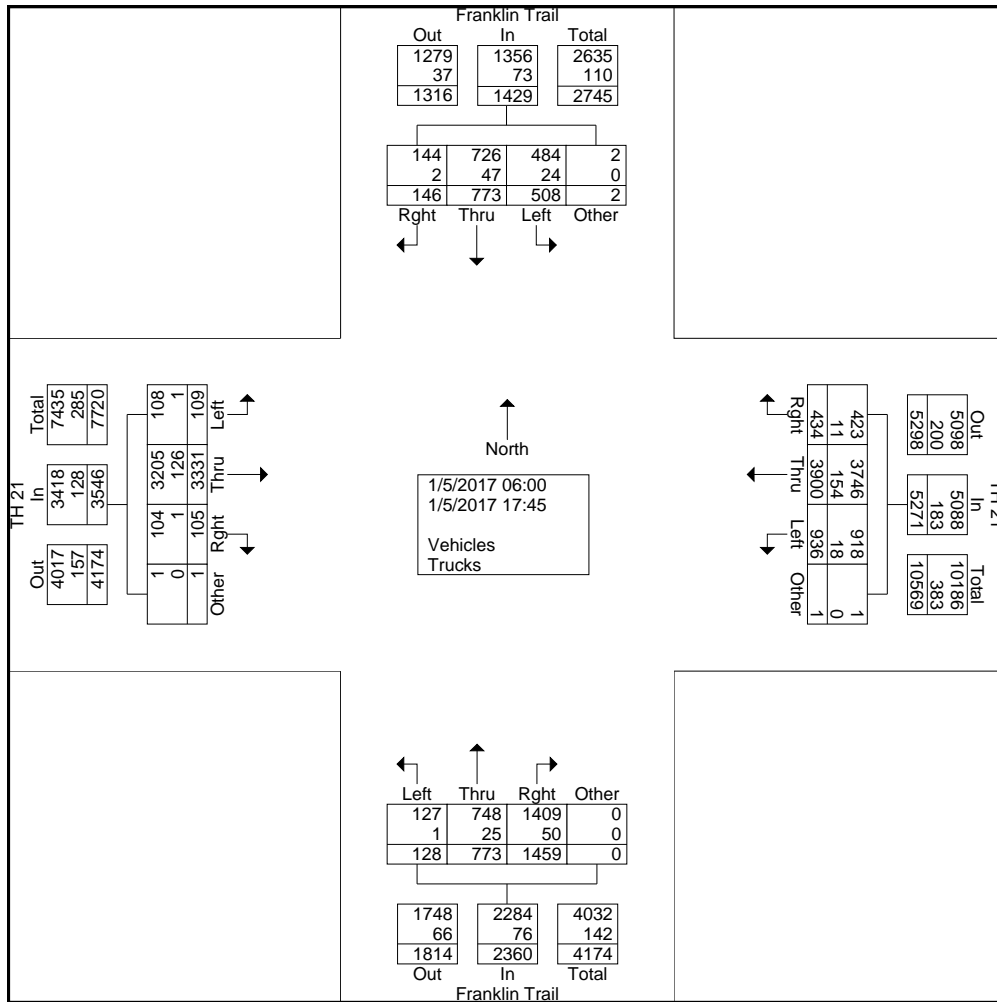
Site Code : 504

Start Date : 1/5/2017

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Groups Printed- Vehicles - Trucks

| Start Time | Franklin Trail Southbound | | | | | TH 21 Westbound | | | | | Franklin Trail Northbound | | | | | TH 21 Eastbound | | | | | Int. Total |
|-------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|------------|
| | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | |
| 17:00 | 25 | 33 | 6 | 0 | 64 | 52 | 106 | 16 | 0 | 174 | 7 | 15 | 52 | 0 | 74 | 4 | 123 | 9 | 0 | 136 | 448 |
| 17:15 | 18 | 22 | 3 | 0 | 43 | 41 | 118 | 17 | 0 | 176 | 4 | 21 | 45 | 0 | 70 | 10 | 164 | 4 | 0 | 178 | 467 |
| 17:30 | 30 | 24 | 1 | 0 | 55 | 38 | 116 | 10 | 0 | 164 | 2 | 17 | 30 | 0 | 49 | 5 | 139 | 7 | 0 | 151 | 419 |
| 17:45 | 8 | 40 | 4 | 0 | 52 | 31 | 97 | 10 | 0 | 138 | 5 | 19 | 35 | 0 | 59 | 5 | 118 | 2 | 0 | 125 | 374 |
| Total | 81 | 119 | 14 | 0 | 214 | 162 | 437 | 53 | 0 | 652 | 18 | 72 | 162 | 0 | 252 | 24 | 544 | 22 | 0 | 590 | 1708 |
| Grand Total | 508 | 773 | 146 | 2 | 1429 | 936 | 3900 | 434 | 1 | 5271 | 128 | 773 | 1459 | 0 | 2360 | 109 | 3331 | 105 | 1 | 3546 | 12606 |
| Apprch % | 35.5 | 54.1 | 10.2 | 0.1 | | 17.8 | 74 | 8.2 | 0 | | 5.4 | 32.8 | 61.8 | 0 | | 3.1 | 93.9 | 3 | 0 | | |
| Total % | 4 | 6.1 | 1.2 | 0 | 11.3 | 7.4 | 30.9 | 3.4 | 0 | 41.8 | 1 | 6.1 | 11.6 | 0 | 18.7 | 0.9 | 26.4 | 0.8 | 0 | 28.1 | |
| Vehicles | 484 | 726 | 144 | 2 | 1356 | 918 | 3746 | 423 | 1 | 5088 | 127 | 748 | 1409 | 0 | 2284 | 108 | 3205 | 104 | 1 | 3418 | 12146 |
| % Vehicles | 95.3 | 93.9 | 98.6 | 100 | 94.9 | 98.1 | 96.1 | 97.5 | 100 | 96.5 | 99.2 | 96.8 | 96.6 | 0 | 96.8 | 99.1 | 96.2 | 99 | 100 | 96.4 | 96.4 |
| Trucks | 24 | 47 | 2 | 0 | 73 | 18 | 154 | 11 | 0 | 183 | 1 | 25 | 50 | 0 | 76 | 1 | 126 | 1 | 0 | 128 | 460 |
| % Trucks | 4.7 | 6.1 | 1.4 | 0 | 5.1 | 1.9 | 3.9 | 2.5 | 0 | 3.5 | 0.8 | 3.2 | 3.4 | 0 | 3.2 | 0.9 | 3.8 | 1 | 0 | 3.6 | 3.6 |



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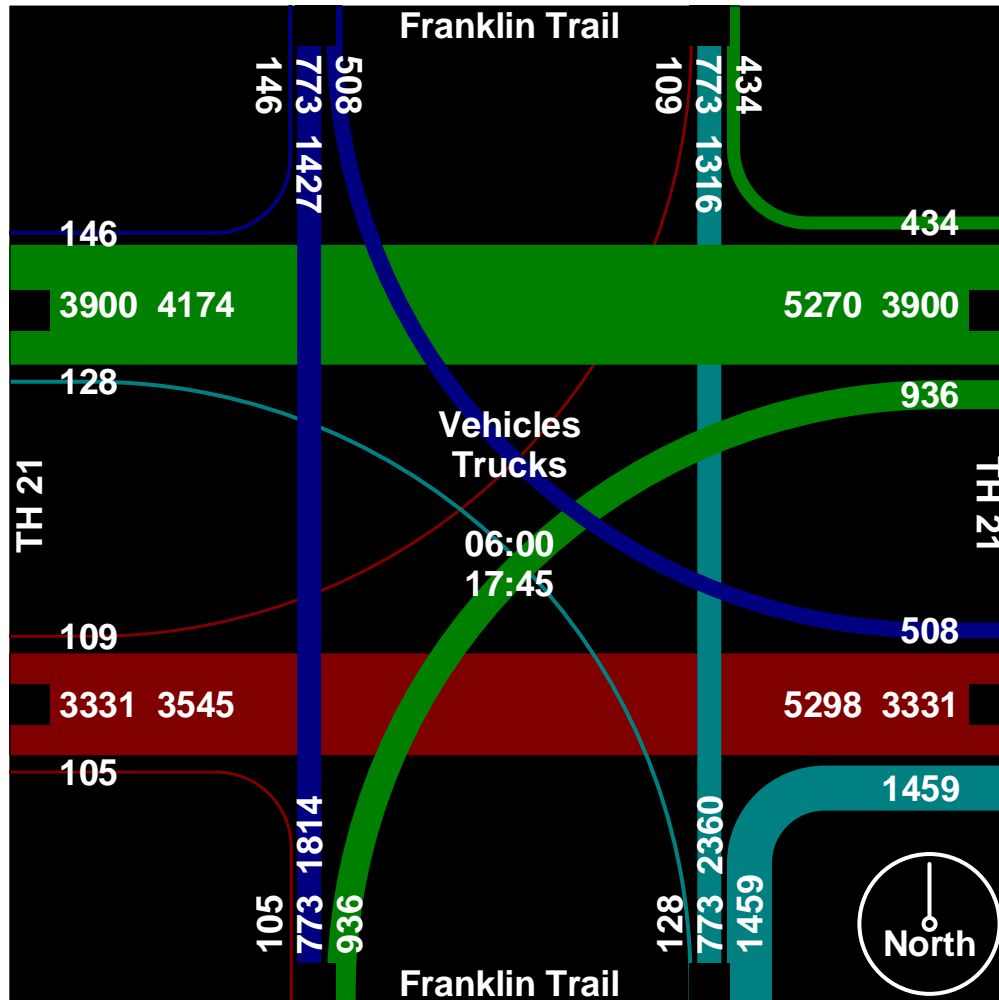
****TURN MOVEMENT COUNT****

File Name : 504_TH 21 & Franklin Trail

Site Code : 504

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TH-13/CSAH-21 at Franklin Trail

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****TURN MOVEMENT COUNT****

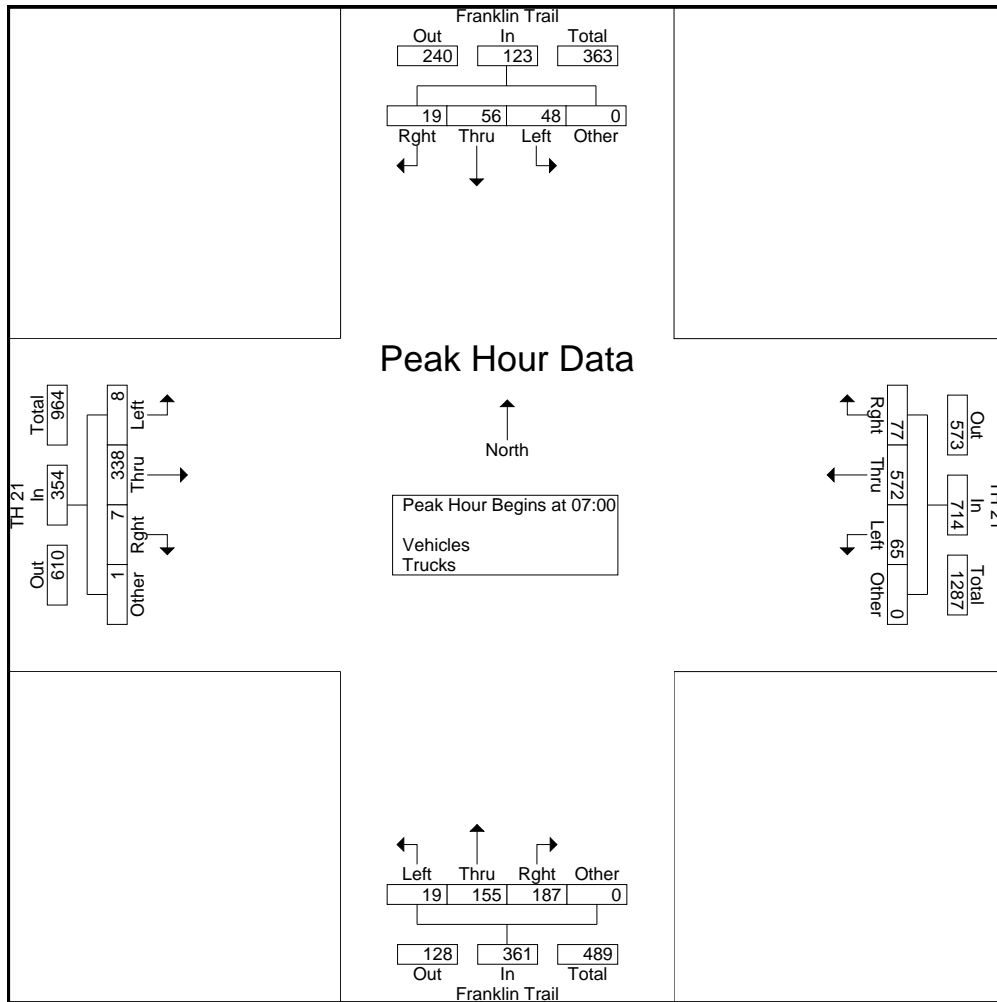
File Name : 504_TH 21 & Franklin Trail

Site Code : 504

Start Date : 1/5/2017

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| Start Time | Franklin Trail Southbound | | | | | TH 21 Westbound | | | | | Franklin Trail Northbound | | | | | TH 21 Eastbound | | | | | Int. Total |
|--|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|------------|
| | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | |
| Peak Hour Analysis From 06:00 to 11:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:00 | | | | | | | | | | | | | | | | | | | | | |
| 07:00 | 15 | | | | | | | 28 | | | | 54 | 52 | 0 | 108 | 1 | 79 | 3 | | | |
| 07:15 | 12 | 16 | 9 | 0 | 37 | 18 | 129 | 19 | 0 | 166 | 7 | 36 | 52 | 0 | 95 | 4 | 96 | 1 | 0 | 101 | 399 |
| 07:30 | 10 | 14 | 5 | 0 | 29 | 14 | 160 | | | | | | | | | | | | | | |
| 07:45 | 11 | 15 | 4 | 0 | 30 | 25 | 146 | 20 | 0 | 191 | 5 | 30 | 42 | 0 | 77 | 3 | 86 | 2 | 1 | 92 | 390 |
| Total Volume | 48 | 56 | 19 | 0 | 123 | 65 | 572 | 77 | 0 | 714 | 19 | 155 | 187 | 0 | 361 | 8 | 338 | 7 | 1 | 354 | 1552 |
| % App. Total | 39 | 45.5 | 15.4 | 0 | | 9.1 | 80.1 | 10.8 | 0 | | 5.3 | 42.9 | 51.8 | 0 | | 2.3 | 95.5 | 2 | 0.3 | | |
| PHF | .800 | .875 | .528 | .000 | .831 | .650 | .894 | .688 | .000 | .935 | .679 | .718 | .899 | .000 | .836 | .500 | .880 | .583 | .250 | .876 | .972 |



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****TURN MOVEMENT COUNT****

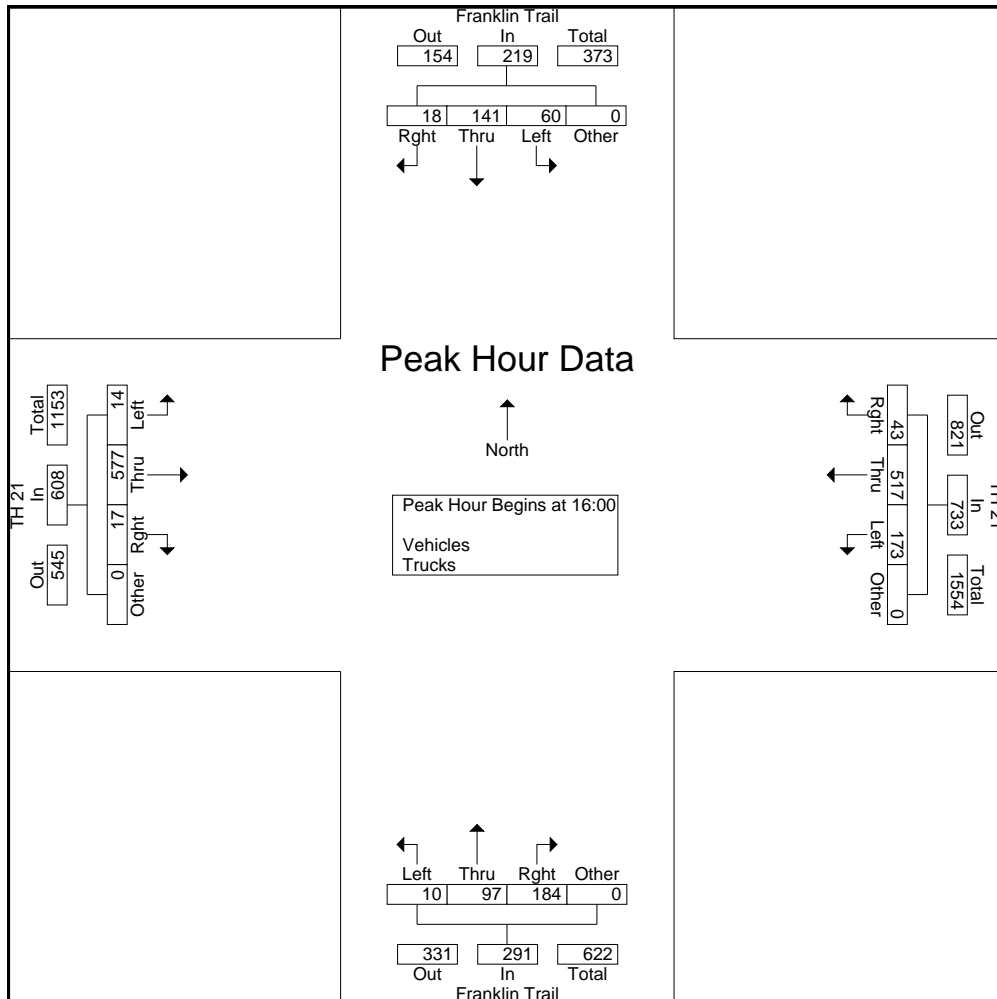
File Name : 504_TH 21 & Franklin Trail

Site Code : 504

Start Date : 1/5/2017

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| Start Time | Franklin Trail Southbound | | | | | TH 21 Westbound | | | | | Franklin Trail Northbound | | | | | TH 21 Eastbound | | | | | Int. Total |
|--|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|---------------------------|------|------|-------|------------|-----------------|------|------|-------|------------|------------|
| | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | Left | Thru | Rght | Other | App. Total | |
| Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 16:00 | | | | | | | | | | | | | | | | | | | | | |
| 16:00 | 12 | 35 | 2 | 0 | 49 | 38 | 124 | 11 | 0 | 173 | 2 | 20 | 47 | 0 | 69 | 3 | 151 | 3 | 0 | 157 | 448 |
| 16:15 | 21 | | | | | 48 | 135 | | | 194 | 6 | 35 | 57 | 0 | 98 | 4 | 138 | 4 | 0 | 146 | 493 |
| 16:30 | 12 | 43 | 7 | | 62 | 44 | 135 | 13 | | | | | | | | | | 6 | | | |
| 16:45 | 15 | 32 | 6 | 0 | 53 | 43 | 123 | 8 | 0 | 174 | 1 | 26 | 51 | 0 | 78 | 6 | 152 | 4 | 0 | 162 | 467 |
| Total Volume | 60 | 141 | 18 | 0 | 219 | 173 | 517 | 43 | 0 | 733 | 10 | 97 | 184 | 0 | 291 | 14 | 577 | 17 | 0 | 608 | 1851 |
| % App. Total | 27.4 | 64.4 | 8.2 | 0 | | 23.6 | 70.5 | 5.9 | 0 | | 3.4 | 33.3 | 63.2 | 0 | | 2.3 | 94.9 | 2.8 | 0 | | |
| PHF | .714 | .820 | .643 | .000 | .883 | .901 | .957 | .827 | .000 | .945 | .417 | .693 | .807 | .000 | .742 | .583 | .949 | .708 | .000 | .938 | .939 |



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File Name : 504_TH 21 & Franklin Trail
Site Code : 504
Start Date : 1/5/2017
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