# Wetherill Engineering Inc.

559 Jones Frankin Road, Suite 164
Raleigh NC 27606

*Summerwind Plantation, Glen Road, Johnston County*

File Name : GLENSR1010AM
Site Code : 00000002
Start Date : 9/10/2014
Page No : 1

Groups Printed- Unshifted - Bank 1

| | Glen Road | | | | | SR 1010 Cleveland Rd. | | | | | | | | | | SR 1010 Cleveland Rd. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | | | | | App. Total | | | | | App. Total | | | | | App. Total | | | | | App. Total | Int. Total |
| 07:00 AM | 1 | 0 | 11 | 0 | 12 | 0 | 58 | 6 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 24 | 42 | 0 | 0 | 66 | 142 |
| 07:15 AM | 4 | 0 | 9 | 0 | 13 | 0 | 42 | 2 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 14 | 40 | 0 | 0 | 54 | 111 |
| 07:30 AM | 1 | 0 | 8 | 0 | 9 | 0 | 32 | 11 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 21 | 43 | 0 | 0 | 64 | 116 |
| 07:45 AM | 3 | 0 | 11 | 0 | 14 | 0 | 43 | 5 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 26 | 41 | 0 | 0 | 67 | 129 |
| Total | 9 | 0 | 39 | 0 | 48 | 0 | 175 | 24 | 0 | 199 | 0 | 0 | 0 | 0 | 0 | 85 | 166 | 0 | 0 | 251 | 498 |
| 08:00 AM | 3 | 0 | 16 | 0 | 19 | 0 | 44 | 9 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 11 | 41 | 0 | 0 | 52 | 124 |
| 08:15 AM | 7 | 0 | 17 | 0 | 24 | 0 | 60 | 13 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 24 | 57 | 0 | 0 | 81 | 178 |
| 08:30 AM | 4 | 0 | 13 | 0 | 17 | 0 | 70 | 9 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 14 | 44 | 0 | 0 | 58 | 154 |
| 08:45 AM | 6 | 0 | 17 | 0 | 23 | 0 | 68 | 9 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 16 | 40 | 0 | 0 | 56 | 156 |
| Total | 20 | 0 | 63 | 0 | 83 | 0 | 242 | 40 | 0 | 282 | 0 | 0 | 0 | 0 | 0 | 65 | 182 | 0 | 0 | 247 | 612 |
| Grand Total | 29 | 0 | 102 | 0 | 131 | 0 | 417 | 64 | 0 | 481 | 0 | 0 | 0 | 0 | 0 | 150 | 348 | 0 | 0 | 498 | 1110 |
| Apprch % | 22.1 | 0 | 77.9 | 0 | | 0 | 86.7 | 13.3 | 0 | | 0 | 0 | 0 | 0 | | 30.1 | 69.9 | 0 | 0 | | |
| Total % | 2.6 | 0 | 9.2 | 0 | 11.8 | 0 | 37.6 | 5.8 | 0 | 43.3 | 0 | 0 | 0 | 0 | 0 | 13.5 | 31.4 | 0 | 0 | 44.9 | |
| Unshifted | 29 | 0 | 102 | 0 | 131 | 0 | 417 | 64 | 0 | 481 | 0 | 0 | 0 | 0 | 0 | 150 | 348 | 0 | 0 | 498 | 1110 |
| % Unshifted | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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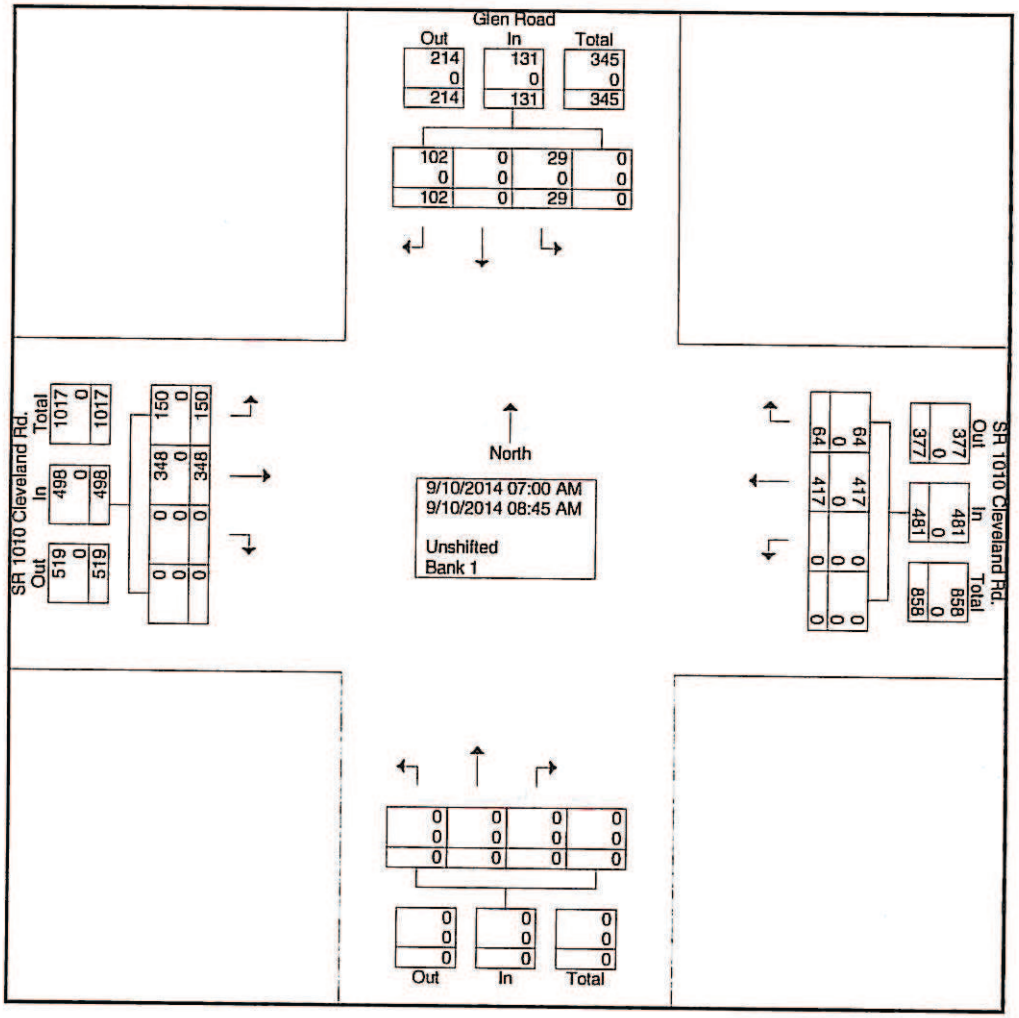
Page No : 2



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| | Glen Road | | | | | SR 1010 Cleveland Rd. | | | | | | | | | | SR 1010 Cleveland Rd. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | | | | | App. Total | | | | | App. Total | | | | | App. Total | | | | | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 08:00 AM | | | | | | | | | | | | | | | | | | | | | |
| 08:00 AM | 3 | 0 | 16 | 0 | 19 | 0 | 44 | 9 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 11 | 41 | 0 | 0 | 52 | 124 |
| 08:15 AM | 7 | 0 | 17 | 0 | 24 | 0 | 60 | 13 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 24 | 57 | 0 | 0 | 81 | 178 |
| 08:30 AM | 4 | 0 | 13 | 0 | 17 | 0 | 70 | 9 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 14 | 44 | 0 | 0 | 58 | 154 |
| 08:45 AM | 6 | 0 | 17 | 0 | 23 | 0 | 68 | 9 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 16 | 40 | 0 | 0 | 56 | 156 |
| Total Volume | 20 | 0 | 63 | 0 | 83 | 0 | 242 | 40 | 0 | 282 | 0 | 0 | 0 | 0 | 0 | 65 | 182 | 0 | 0 | 247 | 612 |
| % App. Total | 24.1 | 0 | 75.9 | 0 | | 0 | 85.8 | 14.2 | 0 | | 0 | 0 | 0 | 0 | | 26.3 | 73.7 | 0 | 0 | | |
| PHF | .714 | .000 | .926 | .000 | .865 | .000 | .864 | .769 | .000 | .892 | .000 | .000 | .000 | .000 | .000 | .677 | .798 | .000 | .000 | .762 | .860 |
| Unshifted | 20 | 0 | 63 | 0 | 83 | 0 | 242 | 40 | 0 | 282 | 0 | 0 | 0 | 0 | 0 | 65 | 182 | 0 | 0 | 247 | 612 |
| % Unshifted | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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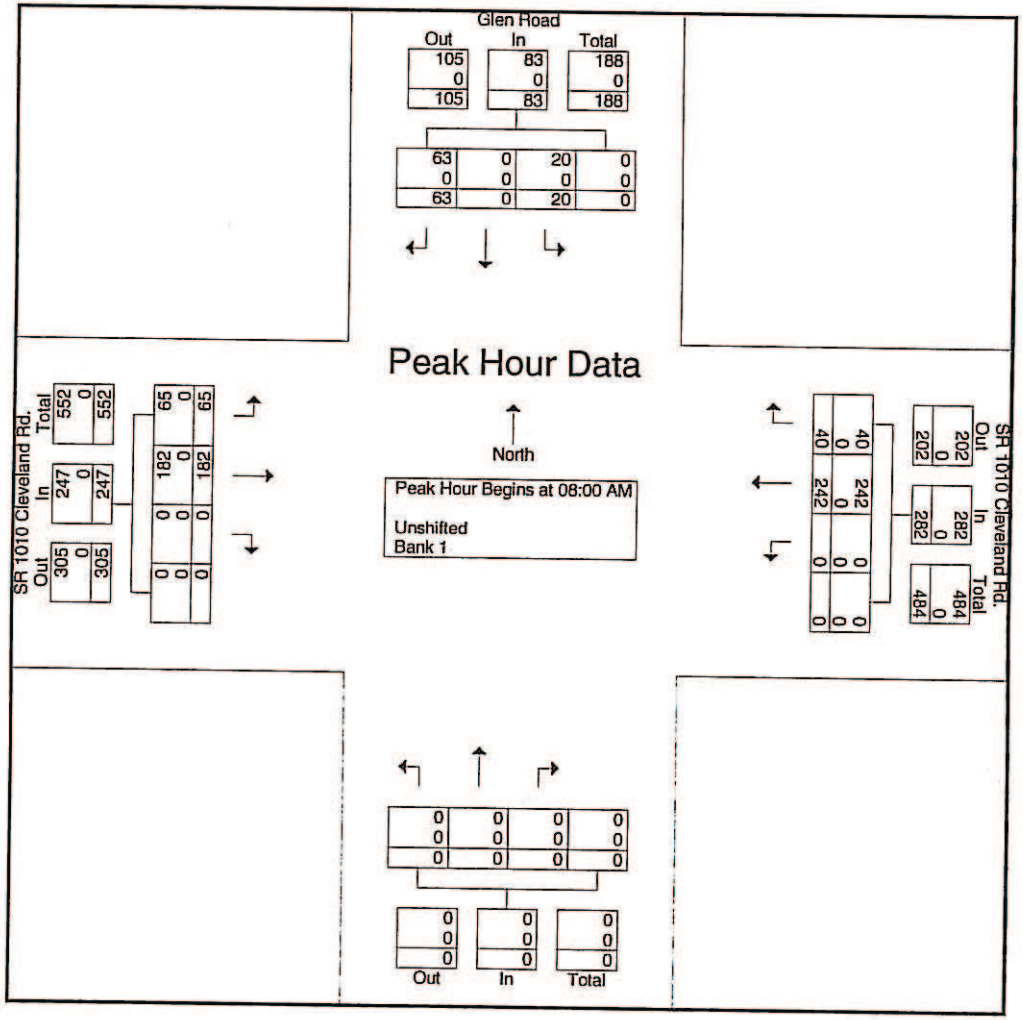
Page No : 5



# Wetherill Engineering Inc.

559 Jones Frankin Road, Suite 164
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*Summerwind Plantation, Glen Road, Johnston County*

File Name : GLENSR1010PM
Site Code : 00000001
Start Date : 9/9/2014
Page No : 1

Groups Printed- Unshifted - Bank 1

| | Glen Road | | | | | SR 1010 Cleveland Rd. | | | | | | | | | | SR 1010 Cleveland Rd. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | | | | | App. Total | | | | | App. Total | | | | | App. Total | | | | | App. Total | Int. Total |
| 04:00 PM | 13 | 0 | 30 | 0 | 43 | 0 | 68 | 23 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 17 | 72 | 0 | 0 | 89 | 223 |
| 04:15 PM | 13 | 0 | 27 | 0 | 40 | 0 | 54 | 11 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 25 | 62 | 0 | 0 | 87 | 192 |
| 04:30 PM | 14 | 0 | 28 | 0 | 42 | 0 | 55 | 17 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 27 | 72 | 0 | 0 | 99 | 213 |
| 04:45 PM | 10 | 0 | 32 | 0 | 42 | 0 | 42 | 19 | 0 | 61 | 0 | 0 | 0 | 0 | 0 | 29 | 77 | 0 | 0 | 106 | 209 |
| Total | 50 | 0 | 117 | 0 | 167 | 0 | 219 | 70 | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 98 | 283 | 0 | 0 | 381 | 837 |
| 05:00 PM | 19 | 0 | 34 | 0 | 53 | 0 | 45 | 17 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 15 | 82 | 0 | 0 | 97 | 212 |
| 05:15 PM | 24 | 0 | 35 | 0 | 59 | 0 | 69 | 9 | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 29 | 104 | 0 | 0 | 133 | 270 |
| 05:30 PM | 14 | 0 | 40 | 0 | 54 | 0 | 68 | 23 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 26 | 92 | 0 | 0 | 118 | 263 |
| 05:45 PM | 8 | 0 | 28 | 0 | 36 | 0 | 60 | 12 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 32 | 79 | 0 | 0 | 111 | 219 |
| Total | 65 | 0 | 137 | 0 | 202 | 0 | 242 | 61 | 0 | 303 | 0 | 0 | 0 | 0 | 0 | 102 | 357 | 0 | 0 | 459 | 964 |
| Grand Total | 115 | 0 | 254 | 0 | 369 | 0 | 461 | 131 | 0 | 592 | 0 | 0 | 0 | 0 | 0 | 200 | 640 | 0 | 0 | 840 | 1801 |
| Apprch % | 31.2 | 0 | 68.8 | 0 | | 0 | 77.9 | 22.1 | 0 | | 0 | 0 | 0 | 0 | | 23.8 | 76.2 | 0 | 0 | | |
| Total % | 6.4 | 0 | 14.1 | 0 | 20.5 | 0 | 25.6 | 7.3 | 0 | 32.9 | 0 | 0 | 0 | 0 | 0 | 11.1 | 35.5 | 0 | 0 | 46.6 | |
| Unshifted | 115 | 0 | 254 | 0 | 369 | 0 | 461 | 131 | 0 | 592 | 0 | 0 | 0 | 0 | 0 | 200 | 640 | 0 | 0 | 840 | 1801 |
| % Unshifted | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 |
| Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % Bank 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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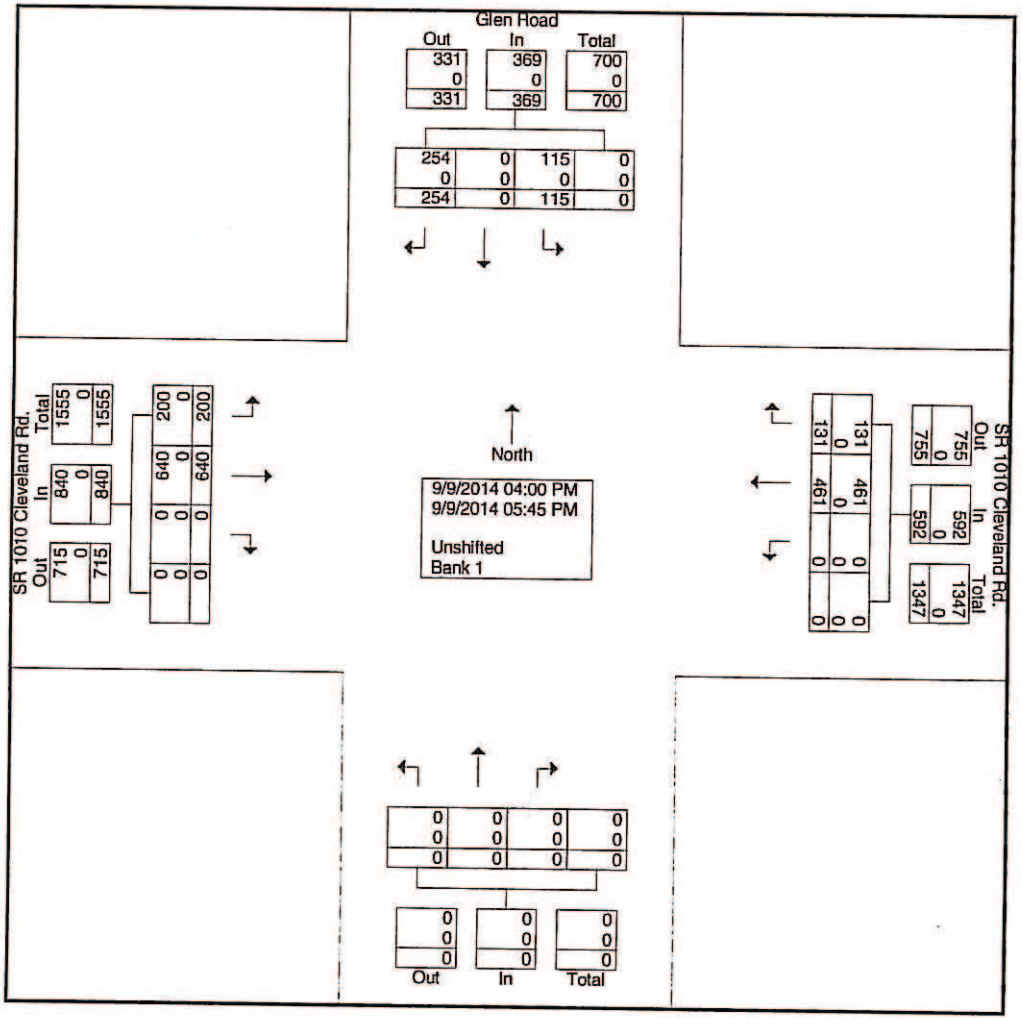

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| | Glen Road | | | | | SR 1010 Cleveland Rd. | | | | | | | | | | SR 1010 Cleveland Rd. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | | | | | App. Total | | | | | App. Total | | | | | App. Total | | | | | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 19 | 0 | 34 | 0 | 53 | 0 | 45 | 17 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 15 | 82 | 0 | 0 | 97 | 212 |
| 05:15 PM | 24 | 0 | 35 | 0 | 59 | 0 | 69 | 9 | 0 | 78 | 0 | 0 | 0 | 0 | 0 | 29 | 104 | 0 | 0 | 133 | 270 |
| 05:30 PM | 14 | 0 | 40 | 0 | 54 | 0 | 68 | 23 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 26 | 92 | 0 | 0 | 118 | 263 |
| 05:45 PM | 8 | 0 | 28 | 0 | 36 | 0 | 60 | 12 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 32 | 79 | 0 | 0 | 111 | 219 |
| Total Volume | 65 | 0 | 137 | 0 | 202 | 0 | 242 | 61 | 0 | 303 | 0 | 0 | 0 | 0 | 0 | 102 | 357 | 0 | 0 | 459 | 964 |
| % App. Total | 32.2 | 0 | 67.8 | 0 | | 0 | 79.9 | 20.1 | 0 | | 0 | 0 | 0 | 0 | | 22.2 | 77.8 | 0 | 0 | | |
| PHF | .677 | .000 | .856 | .000 | .856 | .000 | .877 | .663 | .000 | .832 | .000 | .000 | .000 | .000 | .000 | .797 | .858 | .000 | .000 | .863 | .893 |

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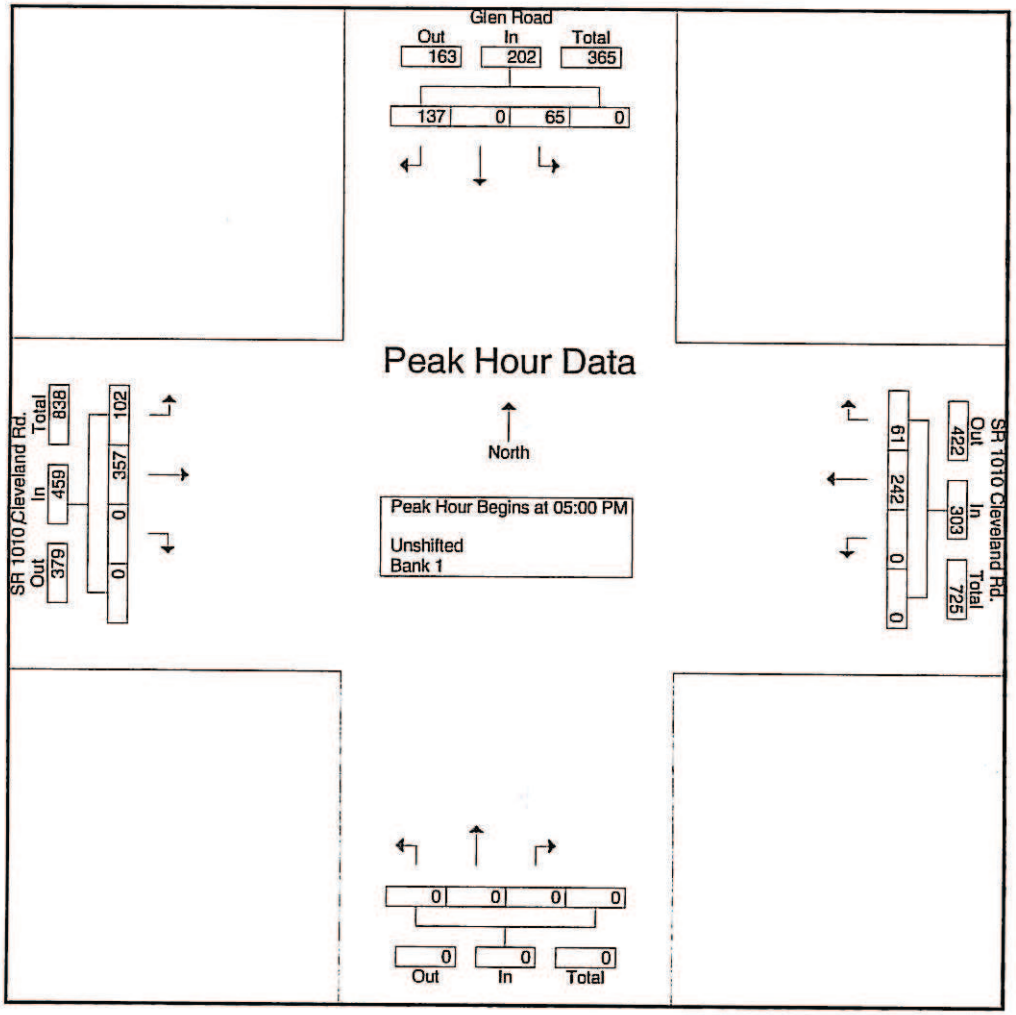

Photo 1: Glen Road approach to SR 1010, Cleveland Road.

Photo 2: SR 1010 approach to Glen Road looking west.

Photo 3: SR 1010 approach to Glen Road looking east.