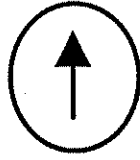


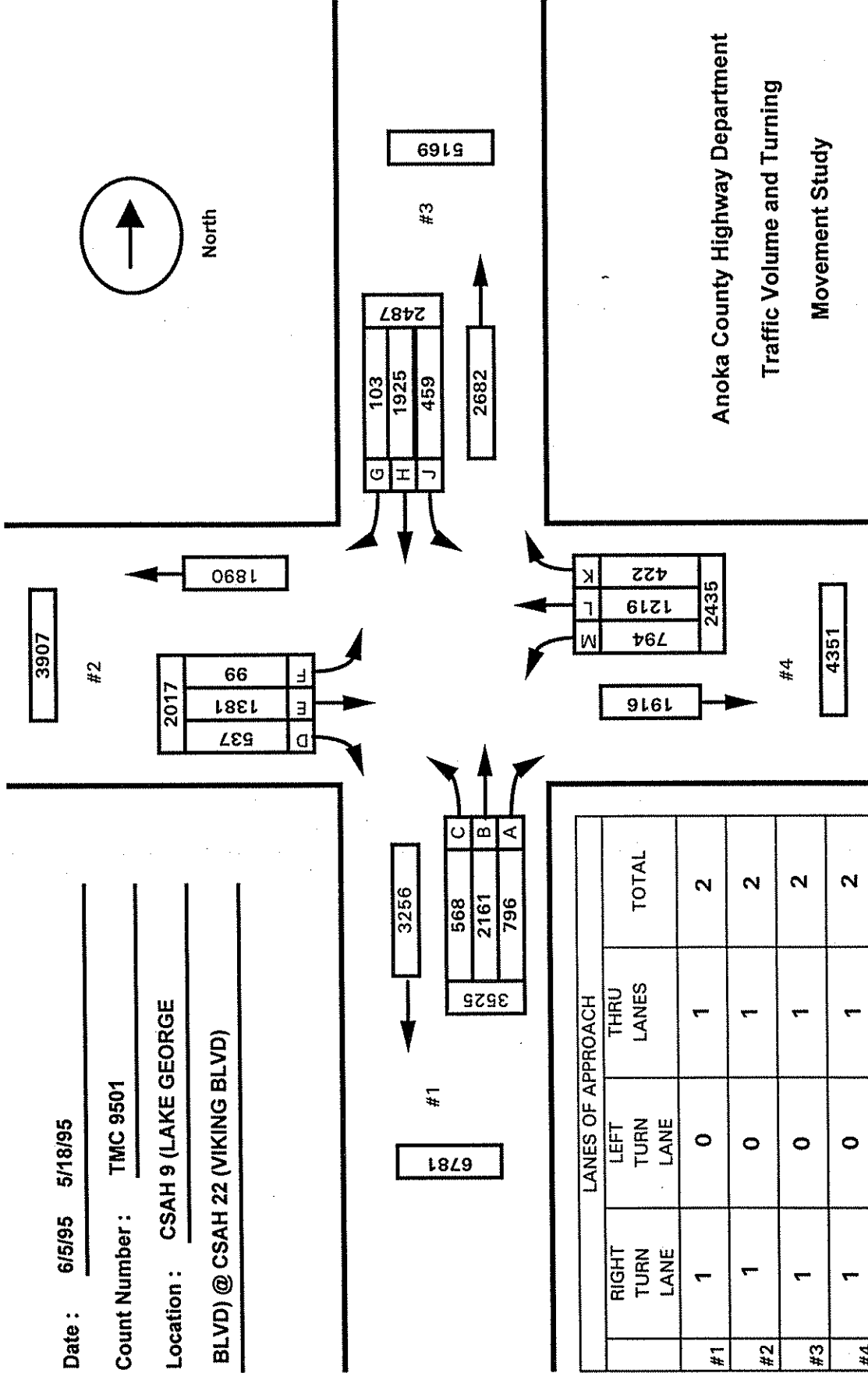
Date: 6/5/95 5/18/95

Count Number: TMC 9501

Location: CSAH 9 (LAKE GEORGE  
BLVD) @ CSAH 22 (VIKING BLVD)



North



Anoka County Highway Department  
Traffic Volume and Turning  
Movement Study

|    | LANES OF APPROACH |                |            | TOTAL |
|----|-------------------|----------------|------------|-------|
|    | RIGHT TURN LANE   | LEFT TURN LANE | THRU LANES |       |
| #1 | 1                 | 0              | 1          | 2     |
| #2 | 1                 | 0              | 1          | 2     |
| #3 | 1                 | 0              | 1          | 2     |
| #4 | 1                 | 0              | 1          | 2     |

ANOKA COUNTY HIGHWAY DEPARTMENT  
 TRAFFIC ENGINEERING SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Site Code : 5010201  
 Start Date : 05/18/95  
 File I.D. : TMC9501}001  
 Page : 1

Counter : 1, EIGHT  
 Counted by ANN/RANDY

Vehicle group 1

| Date     | CSAH 9 (LAKE GEORGE BLVD)<br>Southbound |       |      |      | CSAH 22 (VIKING BLVD)<br>Westbound |       |      |      | CSAH 9 (LAKE GEORGE BLVD)<br>Northbound |       |      |      | CSAH 22 (VIKING BLVD)<br>Eastbound |       |      |      | Vehicle<br>Total | Other<br>Total |
|----------|---|-------|------|------|------------------------------------|-------|------|------|---|-------|------|------|------------------------------------|-------|------|------|------------------|----------------|
|          | Other                                   | Right | Thru | Left | Other                              | Right | Thru | Left | Other                                   | Right | Thru | Left | Other                              | Right | Thru | Left |                  |                |
| 06:00    | 0                                       | 2     | 55   | 12   | 2                                  | 0     | 23   | 22   | 0                                       | 3     | 5    | 5    | 2                                  | 10    | 9    | 1    | 147              | 4              |
| 06:15    | 3                                       | 0     | 70   | 10   | 2                                  | 1     | 22   | 25   | 1                                       | 8     | 9    | 2    | 3                                  | 9     | 27   | 1    | 184              | 9              |
| 06:30    | 5                                       | 3     | 72   | 15   | 3                                  | 3     | 34   | 27   | 0                                       | 4     | 19   | 5    | 4                                  | 18    | 27   | 0    | 227              | 12             |
| 06:45    | 2                                       | 1     | 51   | 13   | 6                                  | 13    | 35   | 19   | 2                                       | 5     | 19   | 7    | 6                                  | 12    | 35   | 1    | 211              | 16             |
| Hr Total | 10                                      | 6     | 248  | 50   | 13                                 | 17    | 114  | 93   | 3                                       | 20    | 52   | 19   | 15                                 | 49    | 98   | 3    | 769              | 41             |
| 07:00    | 3                                       | 0     | 55   | 10   | 2                                  | 7     | 20   | 18   | 4                                       | 12    | 35   | 5    | 3                                  | 13    | 27   | 3    | 205              | 12             |
| 07:15    | 3                                       | 0     | 61   | 16   | 4                                  | 10    | 24   | 26   | 1                                       | 16    | 39   | 8    | 4                                  | 10    | 34   | 0    | 244              | 12             |
| 07:30    | 7                                       | 1     | 62   | 19   | 4                                  | 4     | 24   | 18   | 3                                       | 10    | 24   | 9    | 4                                  | 10    | 41   | 0    | 222              | 18             |
| 07:45    | 5                                       | 0     | 42   | 13   | 6                                  | 4     | 21   | 26   | 3                                       | 13    | 21   | 10   | 3                                  | 11    | 27   | 3    | 191              | 17             |
| Hr Total | 18                                      | 1     | 220  | 58   | 16                                 | 25    | 89   | 88   | 11                                      | 51    | 119  | 32   | 14                                 | 44    | 129  | 6    | 862              | 59             |
| 08:00    | 6                                       | 3     | 34   | 12   | 4                                  | 6     | 11   | 8    | 7                                       | 15    | 23   | 7    | 7                                  | 15    | 20   | 0    | 154              | 24             |
| 08:15    | 6                                       | 3     | 41   | 8    | 6                                  | 7     | 15   | 12   | 1                                       | 3     | 12   | 4    | 7                                  | 11    | 23   | 1    | 140              | 20             |
| 08:30    | 8                                       | 1     | 44   | 5    | 6                                  | 4     | 24   | 10   | 7                                       | 6     | 13   | 10   | 8                                  | 12    | 20   | 2    | 151              | 29             |
| 08:45    | 9                                       | 3     | 20   | 5    | 3                                  | 4     | 10   | 9    | 6                                       | 10    | 19   | 8    | 8                                  | 6     | 17   | 0    | 111              | 26             |
| Hr Total | 29                                      | 10    | 139  | 30   | 19                                 | 21    | 60   | 39   | 21                                      | 34    | 67   | 29   | 30                                 | 44    | 80   | 3    | 556              | 99             |
| 09:00    | 4                                       | 2     | 16   | 4    | 4                                  | 4     | 12   | 13   | 5                                       | 10    | 17   | 2    | 6                                  | 7     | 19   | 0    | 106              | 19             |
| 09:15    | 2                                       | 1     | 34   | 11   | 9                                  | 3     | 17   | 15   | 6                                       | 4     | 26   | 8    | 9                                  | 11    | 23   | 1    | 154              | 26             |
| 09:30    | 4                                       | 1     | 37   | 7    | 7                                  | 2     | 18   | 18   | 5                                       | 2     | 15   | 5    | 7                                  | 7     | 17   | 2    | 131              | 23             |
| 09:45    | 5                                       | 0     | 32   | 4    | 5                                  | 3     | 15   | 13   | 8                                       | 6     | 19   | 2    | 9                                  | 9     | 22   | 0    | 125              | 27             |
| Hr Total | 15                                      | 4     | 119  | 26   | 25                                 | 12    | 62   | 59   | 24                                      | 22    | 77   | 17   | 31                                 | 34    | 81   | 3    | 516              | 95             |
| 10:00    | 3                                       | 3     | 24   | 2    | 8                                  | 9     | 24   | 10   | 7                                       | 13    | 14   | 7    | 2                                  | 4     | 11   | 0    | 121              | 20             |
| 10:15    | 6                                       | 1     | 31   | 5    | 3                                  | 1     | 10   | 9    | 5                                       | 5     | 18   | 4    | 4                                  | 7     | 18   | 1    | 110              | 18             |
| 10:30    | 6                                       | 1     | 20   | 5    | 6                                  | 2     | 13   | 17   | 7                                       | 4     | 19   | 5    | 9                                  | 6     | 19   | 0    | 111              | 28             |
| 10:45    | 3                                       | 1     | 28   | 8    | 6                                  | 4     | 15   | 4    | 14                                      | 8     | 24   | 8    | 3                                  | 6     | 15   | 3    | 124              | 26             |
| Hr Total | 18                                      | 6     | 103  | 20   | 23                                 | 16    | 62   | 40   | 33                                      | 30    | 75   | 24   | 18                                 | 23    | 63   | 4    | 466              | 92             |
| 11:00    | 3                                       | 4     | 31   | 3    | 5                                  | 3     | 8    | 9    | 10                                      | 8     | 34   | 4    | 10                                 | 8     | 17   | 3    | 132              | 28             |
| 11:15    | 8                                       | 1     | 33   | 5    | 8                                  | 2     | 15   | 11   | 10                                      | 6     | 30   | 8    | 3                                  | 9     | 12   | 0    | 132              | 29             |
| 11:30    | 7                                       | 6     | 23   | 5    | 4                                  | 5     | 15   | 7    | 9                                       | 6     | 27   | 6    | 9                                  | 7     | 22   | 1    | 130              | 29             |
| 11:45    | 6                                       | 1     | 31   | 3    | 4                                  | 1     | 12   | 9    | 7                                       | 9     | 24   | 10   | 2                                  | 7     | 13   | 0    | 120              | 19             |
| Hr Total | 24                                      | 12    | 118  | 16   | 21                                 | 11    | 50   | 36   | 36                                      | 29    | 115  | 28   | 24                                 | 31    | 64   | 4    | 514              | 105            |
| 12:00    | 6                                       | 1     | 25   | 6    | 8                                  | 2     | 21   | 10   | 11                                      | 10    | 37   | 5    | 9                                  | 4     | 16   | 0    | 137              | 34             |
| 12:15    | 4                                       | 1     | 28   | 4    | 3                                  | 6     | 14   | 7    | 8                                       | 9     | 33   | 4    | 7                                  | 7     | 16   | 2    | 131              | 22             |
| 12:30    | 8                                       | 3     | 17   | 5    | 8                                  | 2     | 23   | 12   | 7                                       | 11    | 33   | 8    | 7                                  | 11    | 14   | 0    | 139              | 30             |
| 12:45    | 10                                      | 3     | 34   | 6    | 3                                  | 3     | 9    | 6    | 6                                       | 7     | 21   | 4    | 2                                  | 5     | 20   | 2    | 120              | 21             |
| Hr Total | 28                                      | 8     | 104  | 21   | 22                                 | 13    | 67   | 35   | 32                                      | 37    | 124  | 21   | 25                                 | 27    | 66   | 4    | 527              | 107            |

ANOKA COUNTY HIGHWAY DEPARTMENT  
 TRAFFIC ENGINEERING SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Counter : EIGHT  
 Counted by ANN/RANDY

Site Cod. 95010201  
 Start Date 05/18/95  
 File I.D. : TMC9501j001  
 Page : 2

Vehicle group 1

| Date            | Vehicle group 1                         |           |            |           |                                    |           |            |           |   |           |            |           |                                    |           |            |           |                  |                |
|-----------------|---|-----------|------------|-----------|------------------------------------|-----------|------------|-----------|---|-----------|------------|-----------|------------------------------------|-----------|------------|-----------|------------------|----------------|
|                 | CSAH 9 (LAKE GEORGE BLVD)<br>Southbound |           |            |           | CSAH 22 (VIKING BLVD)<br>Westbound |           |            |           | CSAH 9 (LAKE GEORGE BLVD)<br>Northbound |           |            |           | CSAH 22 (VIKING BLVD)<br>Eastbound |           |            |           |                  |                |
|                 | Other                                   | Right     | Thru       | Left      | Other                              | Right     | Thru       | Left      | Other                                   | Right     | Thru       | Left      | Other                              | Right     | Thru       | Left      | Vehicle<br>Total | Other<br>Total |
| 13:00           | 6                                       | 3         | 30         | 5         | 9                                  | 7         | 21         | 7         | 14                                      | 15        | 36         | 6         | 6                                  | 5         | 16         | 3         | 154              | 35             |
| 13:15           | 4                                       | 2         | 23         | 2         | 3                                  | 10        | 16         | 7         | 13                                      | 9         | 42         | 7         | 2                                  | 4         | 13         | 1         | 136              | 22             |
| 13:30           | 8                                       | 0         | 27         | 4         | 3                                  | 9         | 8          | 7         | 4                                       | 10        | 33         | 10        | 5                                  | 7         | 23         | 5         | 143              | 20             |
| 13:45           | 1                                       | 5         | 43         | 9         | 6                                  | 9         | 14         | 13        | 5                                       | 11        | 23         | 9         | 3                                  | 4         | 18         | 4         | 162              | 15             |
| <b>Hr Total</b> | <b>19</b>                               | <b>10</b> | <b>123</b> | <b>20</b> | <b>21</b>                          | <b>35</b> | <b>59</b>  | <b>34</b> | <b>36</b>                               | <b>45</b> | <b>134</b> | <b>32</b> | <b>16</b>                          | <b>20</b> | <b>70</b>  | <b>13</b> | <b>595</b>       | <b>92</b>      |
| 14:00           | 0                                       | 1         | 27         | 9         | 4                                  | 8         | 14         | 15        | 1                                       | 14        | 22         | 12        | 5                                  | 12        | 14         | 3         | 151              | 10             |
| 14:15           | 2                                       | 2         | 45         | 7         | 6                                  | 9         | 17         | 8         | 0                                       | 13        | 34         | 7         | 5                                  | 9         | 22         | 8         | 181              | 13             |
| 14:30           | 3                                       | 1         | 30         | 13        | 2                                  | 8         | 13         | 9         | 1                                       | 6         | 34         | 7         | 3                                  | 11        | 20         | 1         | 153              | 9              |
| 14:45           | 6                                       | 2         | 47         | 16        | 7                                  | 8         | 20         | 10        | 1                                       | 11        | 37         | 9         | 5                                  | 11        | 12         | 1         | 184              | 19             |
| <b>Hr Total</b> | <b>11</b>                               | <b>6</b>  | <b>149</b> | <b>45</b> | <b>19</b>                          | <b>33</b> | <b>64</b>  | <b>42</b> | <b>3</b>                                | <b>44</b> | <b>127</b> | <b>35</b> | <b>18</b>                          | <b>43</b> | <b>68</b>  | <b>13</b> | <b>669</b>       | <b>51</b>      |
| 15:00           | 1                                       | 1         | 32         | 9         | 5                                  | 7         | 20         | 7         | 2                                       | 16        | 20         | 10        | 4                                  | 10        | 29         | 0         | 161              | 12             |
| 15:15           | 0                                       | 1         | 22         | 12        | 4                                  | 5         | 18         | 11        | 3                                       | 12        | 49         | 11        | 8                                  | 12        | 28         | 1         | 182              | 15             |
| 15:30           | 1                                       | 5         | 24         | 8         | 5                                  | 10        | 26         | 13        | 0                                       | 13        | 54         | 14        | 6                                  | 6         | 27         | 1         | 201              | 12             |
| 15:45           | 0                                       | 3         | 18         | 8         | 5                                  | 11        | 20         | 12        | 3                                       | 22        | 48         | 14        | 4                                  | 4         | 30         | 1         | 191              | 12             |
| <b>Hr Total</b> | <b>2</b>                                | <b>10</b> | <b>96</b>  | <b>37</b> | <b>19</b>                          | <b>33</b> | <b>84</b>  | <b>43</b> | <b>8</b>                                | <b>63</b> | <b>171</b> | <b>49</b> | <b>22</b>                          | <b>32</b> | <b>114</b> | <b>3</b>  | <b>735</b>       | <b>51</b>      |
| 16:00           | 3                                       | 1         | 25         | 8         | 5                                  | 12        | 34         | 20        | 5                                       | 21        | 58         | 12        | 7                                  | 13        | 36         | 3         | 243              | 20             |
| 16:15           | 2                                       | 0         | 30         | 5         | 2                                  | 8         | 17         | 12        | 1                                       | 26        | 70         | 20        | 5                                  | 4         | 37         | 1         | 230              | 10             |
| 16:30           | 2                                       | 1         | 32         | 8         | 5                                  | 12        | 37         | 10        | 1                                       | 15        | 50         | 12        | 6                                  | 10        | 29         | 1         | 217              | 14             |
| 16:45           | 1                                       | 2         | 22         | 8         | 5                                  | 13        | 33         | 14        | 2                                       | 20        | 57         | 18        | 6                                  | 8         | 25         | 3         | 223              | 14             |
| <b>Hr Total</b> | <b>8</b>                                | <b>4</b>  | <b>109</b> | <b>29</b> | <b>17</b>                          | <b>45</b> | <b>121</b> | <b>56</b> | <b>9</b>                                | <b>82</b> | <b>235</b> | <b>62</b> | <b>24</b>                          | <b>35</b> | <b>127</b> | <b>8</b>  | <b>913</b>       | <b>58</b>      |
| 17:00           | 3                                       | 0         | 28         | 7         | 6                                  | 7         | 37         | 8         | 0                                       | 24        | 71         | 13        | 3                                  | 7         | 34         | 2         | 238              | 12             |
| 17:15           | 0                                       | 1         | 25         | 4         | 3                                  | 12        | 31         | 11        | 3                                       | 17        | 56         | 11        | 2                                  | 9         | 30         | 5         | 212              | 8              |
| 17:30           | 1                                       | 2         | 27         | 4         | 2                                  | 7         | 39         | 15        | 3                                       | 25        | 76         | 10        | 1                                  | 12        | 30         | 6         | 253              | 7              |
| 17:45           | 0                                       | 2         | 24         | 8         | 3                                  | 17        | 24         | 15        | 1                                       | 16        | 66         | 24        | 0                                  | 11        | 15         | 1         | 223              | 4              |
| <b>Hr Total</b> | <b>4</b>                                | <b>5</b>  | <b>104</b> | <b>23</b> | <b>14</b>                          | <b>43</b> | <b>131</b> | <b>49</b> | <b>7</b>                                | <b>82</b> | <b>269</b> | <b>58</b> | <b>6</b>                           | <b>39</b> | <b>109</b> | <b>14</b> | <b>926</b>       | <b>31</b>      |
| 18:00           | 1                                       | 4         | 24         | 8         | 2                                  | 12        | 24         | 15        | 1                                       | 25        | 68         | 10        | 2                                  | 10        | 32         | 2         | 234              | 6              |
| 18:15           | 0                                       | 1         | 17         | 7         | 4                                  | 19        | 28         | 17        | 2                                       | 24        | 64         | 17        | 1                                  | 9         | 23         | 0         | 226              | 7              |
| 18:30           | 1                                       | 0         | 24         | 11        | 2                                  | 9         | 22         | 17        | 5                                       | 22        | 54         | 16        | 3                                  | 13        | 25         | 1         | 214              | 11             |
| 18:45           | 1                                       | 0         | 27         | 7         | 1                                  | 9         | 24         | 9         | 5                                       | 21        | 49         | 14        | 2                                  | 7         | 33         | 2         | 202              | 9              |
| <b>Hr Total</b> | <b>3</b>                                | <b>5</b>  | <b>92</b>  | <b>33</b> | <b>9</b>                           | <b>49</b> | <b>98</b>  | <b>58</b> | <b>13</b>                               | <b>92</b> | <b>235</b> | <b>57</b> | <b>8</b>                           | <b>39</b> | <b>113</b> | <b>5</b>  | <b>876</b>       | <b>33</b>      |
| 19:00           | 0                                       | 0         | 21         | 3         | 1                                  | 9         | 24         | 11        | 2                                       | 12        | 52         | 11        | 2                                  | 7         | 28         | 0         | 178              | 5              |
| 19:15           | 1                                       | 5         | 15         | 2         | 4                                  | 8         | 10         | 9         | 0                                       | 19        | 32         | 6         | 2                                  | 9         | 18         | 2         | 135              | 7              |
| 19:30           | 1                                       | 1         | 14         | 7         | 1                                  | 3         | 12         | 15        | 2                                       | 7         | 28         | 9         | 1                                  | 11        | 12         | 1         | 120              | 5              |
| 19:45           | 0                                       | 0         | 16         | 3         | 0                                  | 14        | 17         | 33        | 1                                       | 14        | 26         | 7         | 0                                  | 5         | 20         | 3         | 158              | 1              |
| <b>Hr Total</b> | <b>2</b>                                | <b>6</b>  | <b>66</b>  | <b>15</b> | <b>6</b>                           | <b>34</b> | <b>63</b>  | <b>68</b> | <b>5</b>                                | <b>52</b> | <b>138</b> | <b>33</b> | <b>5</b>                           | <b>32</b> | <b>78</b>  | <b>6</b>  | <b>591</b>       | <b>18</b>      |

ANOKA COUNTY HIGHWAY DEPARTMENT

Site Cod: 95010201  
 Start Date: 05/18/95  
 File I.D. : TMC9501}001  
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Counter : 1... EIGHT  
 Counted by ANN/RANDY

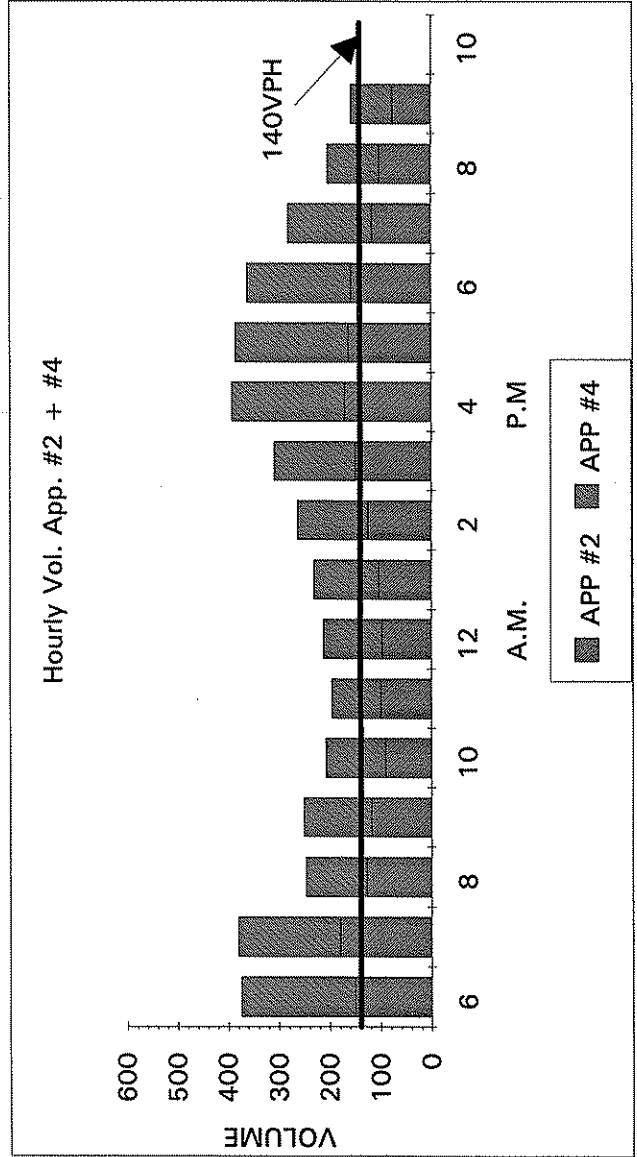
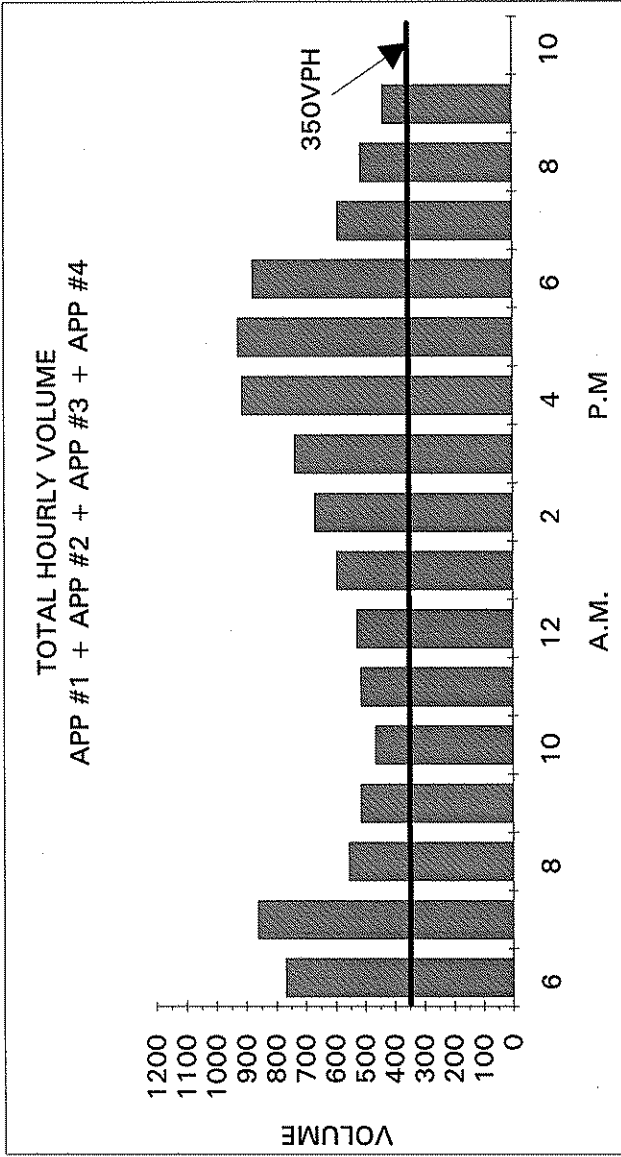
TRAFFIC ENGINE NG SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Vehicle group 1

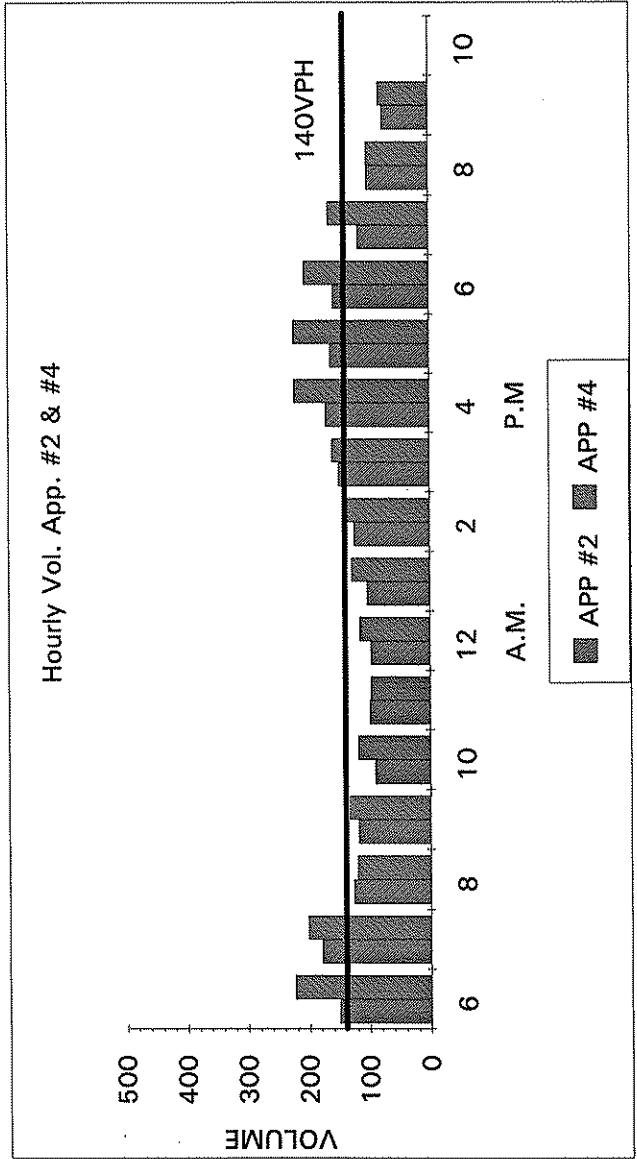
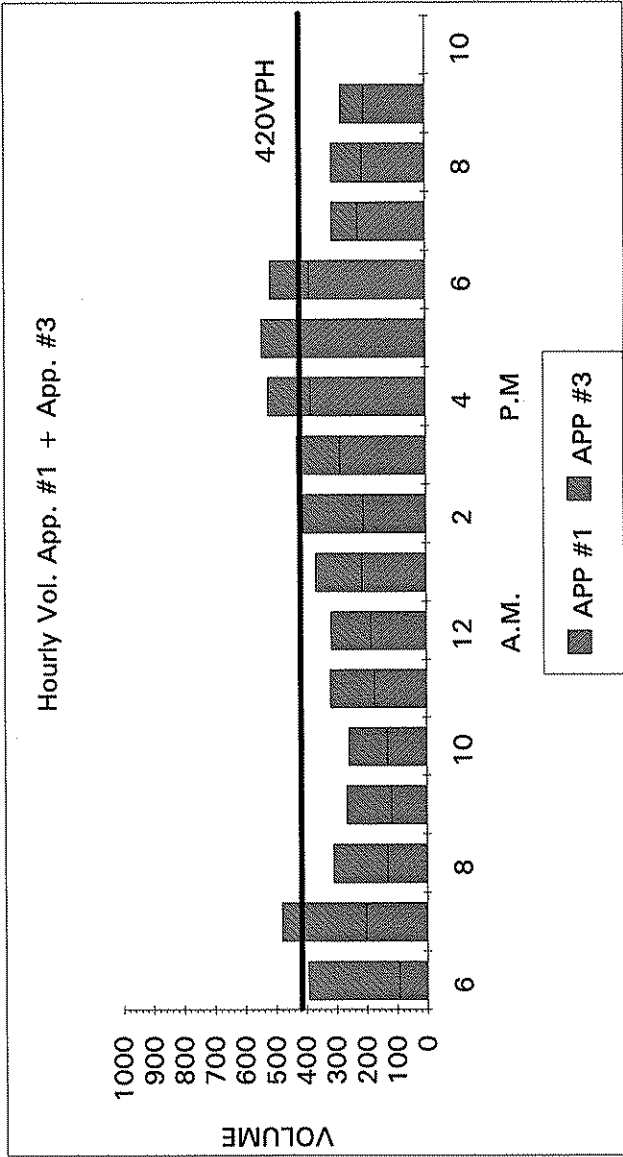
| Date 05/18/95 | CSAH 9 (LAKE GEORGE BLVD)<br>Southbound |       |      | CSAH 22 (VIKING BLVD)<br>Westbound |      |       | CSAH 9 (LAKE GEORGE BLVD)<br>Northbound |       |      | CSAH 22 (VIKING BLVD)<br>Eastbound |      |       | Vehicle<br>Total | Other<br>Total |       |       |      |
|---------------|---|-------|------|------------------------------------|------|-------|---|-------|------|------------------------------------|------|-------|------------------|----------------|-------|-------|------|
|               | Other                                   | Right | Thru | Left                               | Thru | Right | Other                                   | Right | Thru | Left                               | Thru | Right |                  |                | Other | Right | Thru |
| 20:00         | 0                                       | 2     | 15   | 3                                  | 5    | 15    | 7                                       | 0     | 13   | 26                                 | 11   | 1     | 7                | 14             | 2     | 120   | 1    |
| 20:15         | 0                                       | 1     | 5    | 3                                  | 3    | 8     | 5                                       | 0     | 14   | 29                                 | 16   | 0     | 2                | 21             | 1     | 108   | 0    |
| 20:30         | 1                                       | 1     | 29   | 12                                 | 5    | 18    | 6                                       | 0     | 19   | 26                                 | 4    | 0     | 10               | 17             | 1     | 148   | 2    |
| 20:45         | 0                                       | 2     | 26   | 4                                  | 9    | 13    | 8                                       | 1     | 18   | 26                                 | 5    | 1     | 10               | 16             | 0     | 137   | 2    |
| Hr Total      | 1                                       | 6     | 75   | 22                                 | 22   | 54    | 26                                      | 1     | 64   | 107                                | 36   | 2     | 29               | 68             | 4     | 513   | 5    |
| 21:00         | 0                                       | 0     | 18   | 6                                  | 4    | 10    | 9                                       | 0     | 11   | 32                                 | 16   | 1     | 2                | 17             | 3     | 128   | 1    |
| 21:15         | 0                                       | 2     | 17   | 4                                  | 5    | 15    | 11                                      | 0     | 14   | 32                                 | 7    | 1     | 6                | 15             | 1     | 129   | 1    |
| 21:30         | 0                                       | 2     | 15   | 2                                  | 4    | 8     | 6                                       | 0     | 16   | 30                                 | 12   | 0     | 6                | 8              | 1     | 110   | 0    |
| 21:45         | 0                                       | 0     | 10   | 2                                  | 0    | 8     | 2                                       | 2     | 8    | 22                                 | 1    | 1     | 2                | 13             | 1     | 69    | 4    |
| Hr Total      | 0                                       | 4     | 60   | 14                                 | 13   | 41    | 28                                      | 2     | 49   | 116                                | 36   | 3     | 16               | 53             | 6     | 436   | 6    |

\*TOTAL\* 192 103 1925 459 246 422 1219 794 244 796 2161 568 261 537 1381 99 10464 943

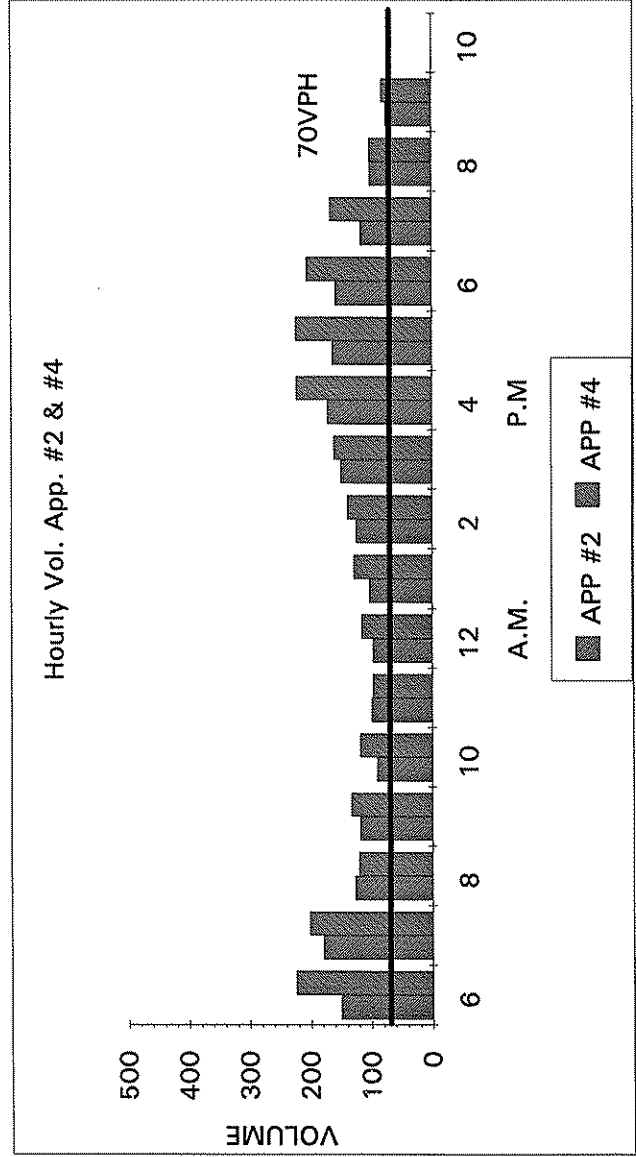
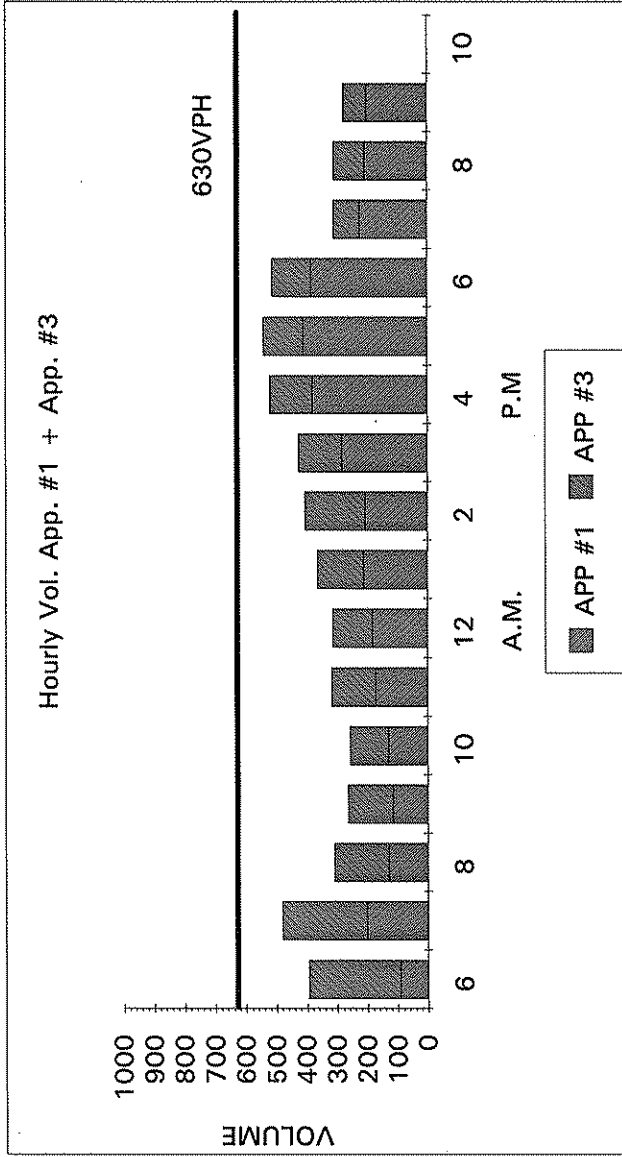
TMC9501 STOP WARRANT STUDY



TMC9501 SIGNAL WARRANT 1 STUDY

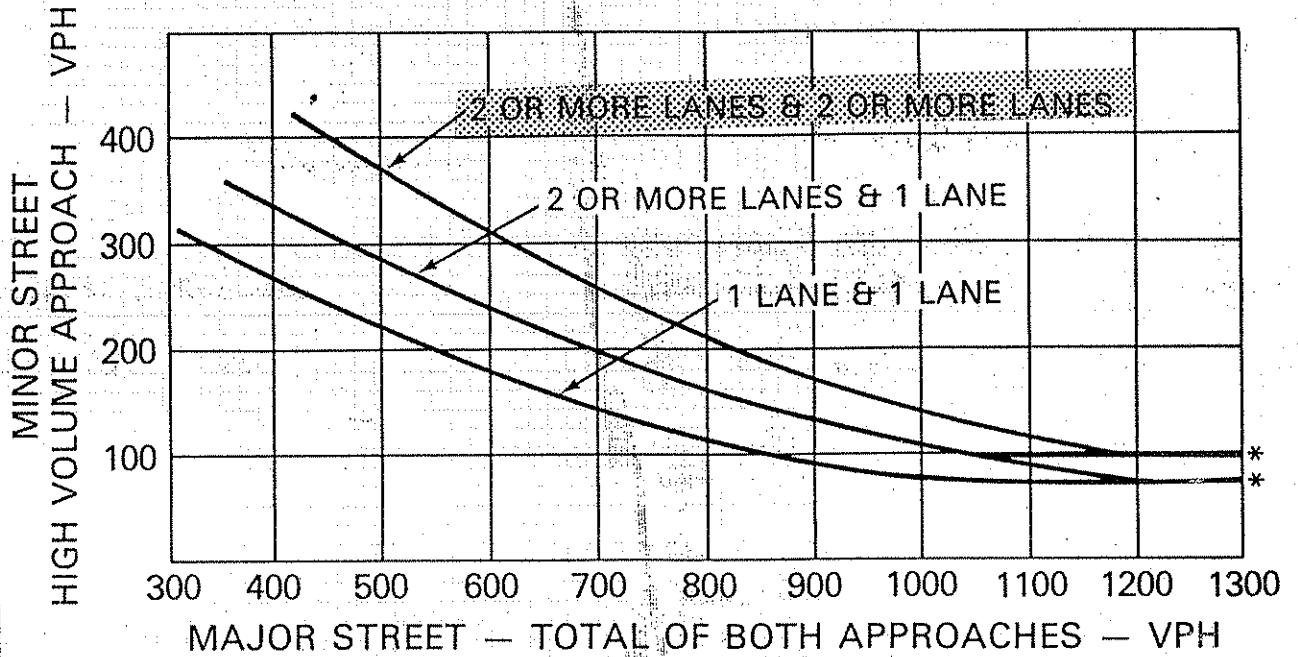


TMC9501 SIGNAL WARRANT 2 STUDY



# FIGURE 4-6. PEAK HOUR VOLUME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



\*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

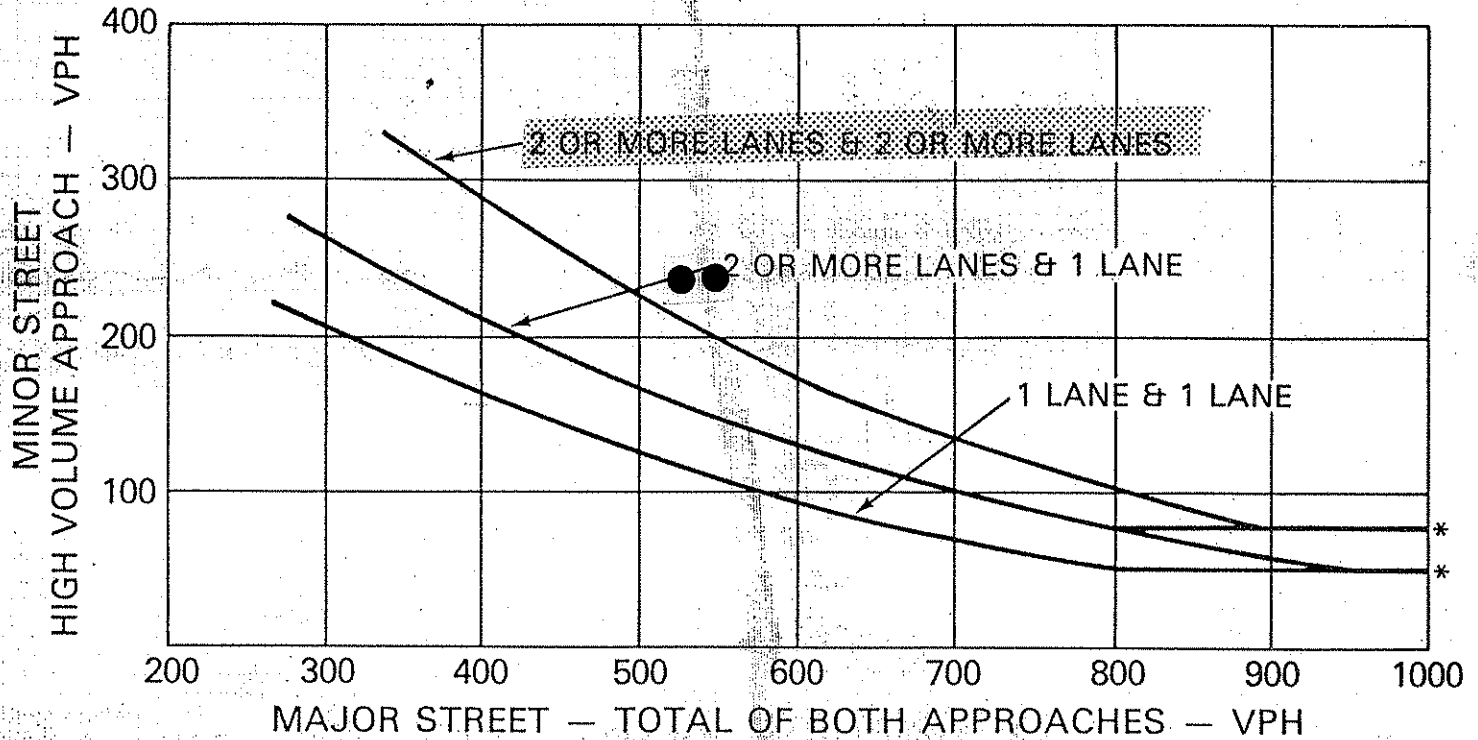
★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

| TIME     | MAJOR STREETS (VPH) | MINOR STREET (VPH) |
|----------|---------------------|--------------------|
| 6-7 am   | 395                 | 224                |
| 7-8 am   | 481                 | 202                |
| 8-9 am   | 309                 | 127                |
| 9-10 am  | 265                 | 133                |
| 10-11 am | 258                 | 118                |
| 11-12 pm | 318                 | 99                 |
| 12-1 pm  | 315                 | 115                |
| 1-2 pm   | 364                 | 128                |
| 2-3 pm   | 406                 | 139                |
| 3-4 pm   | 426                 | 160                |
| 4-5 pm   | 521                 | 222                |
| 5-6 pm   | 541                 | 223                |
| 6-7 pm   | 514                 | 205                |
| 7-8 pm   | 310                 | 165                |
| 8-9 pm   | 310                 | 102                |
| 9-10 pm  | 279                 | 82                 |



# FIGURE 4-8. FOUR HOUR VOLUME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



\*NOTE: 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 60 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

| TIME     | MAJOR STREETS (VPH) | MINOR STREET (VPH) |
|----------|---------------------|--------------------|
| 6-7 am   | 395                 | 224                |
| 7-8 am   | 481                 | 202                |
| 8-9 am   | 309                 | 127                |
| 9-10 am  | 265                 | 133                |
| 10-11 am | 258                 | 118                |
| 11-12 pm | 318                 | 99                 |
| 12-1 pm  | 315                 | 115                |
| 1-2 pm   | 364                 | 128                |
| 2-3 pm   | 406                 | 139                |
| 3-4 pm   | 426                 | 160                |
| 4-5 pm   | 521                 | 222                |
| 5-6 pm   | 541                 | 223                |
| 6-7 pm   | 514                 | 205                |
| 7-8 pm   | 310                 | 165                |
| 8-9 pm   | 310                 | 102                |
| 9-10 pm  | 279                 | 82                 |

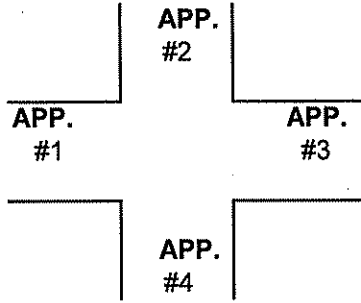
COUNT LOCATION: CSAH 9 (LAKE GEORGE BLVD) @  
CSAH 22 (VIKING BLVD.)

DATE: 5/18/95



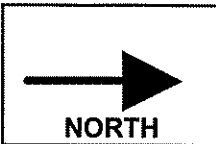
**NORTH**

APP. #1= NB CSAH 9  
(LAKE GEORGE BLVD)  
 APP. #2= EB CSAH 22  
(VIKING BLVD)  
 APP. #3= SB CSAH 9  
(LAKE GEORGE BLVD)  
 APP. #4=WB CSAH 22  
(VIKING BLVD.)



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT  
 A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.  
 B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.  
 C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

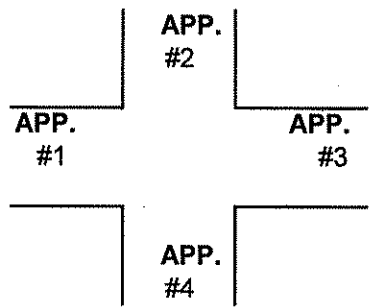
| TIME                | PEDESTRIANS |         |         |         |            | HEAVY VEHICLES      |    |            |
|---------------------|-------------|---------|---------|---------|------------|---------------------|----|------------|
|                     | APP. #1     | APP. #2 | APP. #3 | APP. #4 | 15 MIN TOT | TRUCKS              | RV | BUS        |
| 6:00-6:15AM         |             |         |         |         |            | 4                   |    | 1          |
| 6:15-6:30           |             |         |         |         |            | 7                   |    | 1          |
| 6:30-6:45           |             |         |         |         |            | 6                   |    | 5          |
| 6:45-7:00           |             |         |         |         |            | 13                  |    | 3          |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>40</b>  |
| 7:00-7:15           |             |         |         |         |            | 10                  |    | 2          |
| 7:15-7:30           |             |         |         |         |            | 12                  |    | 1          |
| 7:30-7:45           |             |         |         |         |            | 17                  |    | 2          |
| 7:45-8:00           |             |         |         |         |            | 15                  | 1  |            |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>60</b>  |
| 8:00-8:15           |             |         |         |         |            | 22                  |    | 2          |
| 8:15-8:30           |             |         |         |         |            | 20                  |    | 1          |
| 8:30-8:45           |             |         |         |         |            | 26                  |    | 4          |
| 8:45-9:00           |             | 1       |         |         | 1          | 25                  |    | 1          |
| <b>HOURLY TOTAL</b> |             |         |         |         | <b>1</b>   | <b>HOURLY TOTAL</b> |    | <b>101</b> |
| 9:00-9:15           |             |         |         |         |            | 20                  |    |            |
| 9:15-9:30           |             |         |         |         |            | 23                  |    | 4          |
| 9:30-9:45           |             |         |         |         |            | 21                  |    | 1          |
| 9:45-10:00          |             |         |         |         |            | 26                  |    | 1          |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>96</b>  |
| 10:00-10:15         |             |         |         |         |            | 24                  |    |            |
| 10:15-10:30         |             |         |         |         |            | 18                  |    |            |
| 10:30-10:45         |             |         |         |         |            | 27                  |    |            |
| 10:45-11:00         |             |         |         |         |            | 25                  |    | 1          |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>95</b>  |
| 11:00-11:15         |             |         |         |         |            | 27                  |    | 1          |
| 11:15-11:30         |             |         |         |         |            | 27                  | 1  | 1          |
| 11:30-11:45         |             |         |         |         |            | 31                  | 1  |            |
| 11:45-12:00         |             |         |         |         |            | 19                  |    |            |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>108</b> |
| 12:00-12:15         |             |         |         |         |            | 31                  |    | 2          |
| 12:15-12:30         |             |         |         |         |            | 21                  |    | 1          |
| 12:30-12:45         |             |         |         |         |            | 27                  | 1  | 1          |
| 12:45-1:00          |             |         |         |         |            | 20                  |    |            |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>104</b> |
| 1:00-1:15           |             |         |         |         |            | 33                  | 1  | 1          |
| 1:15-1:30           |             |         |         |         |            | 24                  |    |            |
| 1:30-1:45           |             |         |         |         |            | 17                  |    |            |
| 1:45-2:00           |             |         |         |         |            | 14                  |    | 1          |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>91</b>  |



**COUNT LOCATION:** CSAH 9 (ROUND LAKE BLVD) @  
CSAH 22 (VIKING BLVD)

**DATE:** 6/5/95

APP. #1=NB CSAH 9  
(ROUND LAKE BLVD)  
 APP. #2=EB CSAH 22  
(VIKING BLVD)  
 APP. #3=SB CSAH 9  
(ROUND LAKE BLVD)  
 APP. #4=WB CSAH 22  
 VIKING BLVD



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT

A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.

C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

| TIME                | PEDESTRIANS |         |         |         |            | HEAVY VEHICLES      |    |           |
|---------------------|-------------|---------|---------|---------|------------|---------------------|----|-----------|
|                     | APP. #1     | APP. #2 | APP. #3 | APP. #4 | 15 MIN TOT | TRUCKS              | RV | BUS       |
| 2:00-2:15PM         |             |         |         |         |            | 10                  |    |           |
| 2:15-2:30           |             |         |         |         |            | 13                  |    |           |
| 2:30-2:45           |             |         |         |         |            | 7                   |    |           |
| 2:45-3:00           |             |         |         |         |            | 17                  |    | 4         |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>51</b> |
| 3:00-3:15           |             |         |         |         |            | 11                  |    | 1         |
| 3:15-3:30           |             |         |         |         |            | 12                  |    | 3         |
| 3:30-3:45           |             |         |         |         |            | 10                  |    |           |
| 3:45-4:00           |             |         |         |         |            | 10                  |    | 2         |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>49</b> |
| 4:00-4:15           |             |         |         |         |            | 14                  |    | 4         |
| 4:15-4:30           |             |         |         |         |            | 7                   |    | 3         |
| 4:30-4:45           |             |         |         |         |            | 13                  |    | 1         |
| 4:45-5:00           |             |         |         |         |            | 13                  |    | 1         |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>56</b> |
| 5:00-5:15           |             |         |         |         |            | 11                  |    |           |
| 5:15-5:30           |             |         |         |         |            | 12                  |    |           |
| 5:30-5:45           |             |         |         |         |            | 6                   |    |           |
| 5:45-6:00           |             |         |         |         |            | 4                   |    |           |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>33</b> |
| 6:00-6:15           |             |         |         |         |            | 5                   |    |           |
| 6:15-6:30           |             |         |         |         |            | 8                   |    |           |
| 6:30-6:45           |             |         |         |         |            | 11                  |    |           |
| 6:45-7:00           |             |         |         |         |            | 9                   |    |           |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>33</b> |
| 7:00-7:15           |             |         |         |         |            | 4                   | 1  |           |
| 7:15-7:30           |             |         |         |         |            | 7                   |    |           |
| 7:30-7:45           |             |         |         |         |            | 3                   |    |           |
| 7:45-8:00           |             |         |         |         |            | 2                   |    |           |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>17</b> |
| 8:00-8:15           |             |         |         |         |            | 1                   |    |           |
| 8:15-8:30           |             |         |         |         |            | 1                   | 1  |           |
| 8:30-8:45           |             |         |         |         |            | 2                   |    |           |
| 8:45-9:00           |             |         |         |         |            |                     |    |           |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>5</b>  |
| 9:00-9:15           |             |         |         |         |            |                     |    |           |
| 9:15-9:30           |             |         |         |         |            | 1                   |    |           |
| 9:30-9:45           |             |         |         |         |            |                     |    |           |
| 9:45-10:00          |             |         |         |         |            | 1                   |    |           |
| <b>HOURLY TOTAL</b> |             |         |         |         |            | <b>HOURLY TOTAL</b> |    | <b>3</b>  |