

# Albeck Gerken, Inc

Transportation Engineers

Traffic Data Collection

I-35E at TH-13, west ramps  
Mendota Heights, MN  
Ref.Pt.: 102.437  
TURN MOVEMENT COUNT

File Name : 3 I-35E West Ramp at TH 13  
Site Code : 3  
Start Date : 1/12/2012  
Page No : 1

Groups Printed- Cars - Heavy Vehicles

| Start Time | Ramp from I-35E SB Southbound |      |       |      | TH-13 / Sibley Memorial Hwy Westbound |      |      | Ramp to I-35E SB Northbound | TH-13 / Sibley Memorial Hwy Eastbound |       |      | Int. Total |
|------------|-------------------------------|------|-------|------|---------------------------------------|------|------|-----------------------------|---------------------------------------|-------|------|------------|
|            | Left                          | Thru | Right | Peds | Left                                  | Thru | Peds | Peds                        | Thru                                  | Right | Peds |            |
| 06:00      | 5                             | 0    | 24    | 0    | 17                                    | 15   | 0    | 0                           | 38                                    | 12    | 0    | 111        |
| 06:15      | 3                             | 0    | 33    | 0    | 24                                    | 17   | 0    | 0                           | 39                                    | 17    | 0    | 133        |
| 06:30      | 10                            | 0    | 51    | 0    | 19                                    | 19   | 0    | 0                           | 65                                    | 14    | 0    | 178        |
| 06:45      | 12                            | 0    | 37    | 0    | 35                                    | 27   | 0    | 0                           | 79                                    | 12    | 0    | 202        |
| Total      | 30                            | 0    | 145   | 0    | 95                                    | 78   | 0    | 0                           | 221                                   | 55    | 0    | 624        |
| 07:00      | 19                            | 0    | 38    | 0    | 38                                    | 27   | 0    | 0                           | 86                                    | 17    | 0    | 225        |
| 07:15      | 15                            | 0    | 64    | 1    | 40                                    | 39   | 0    | 0                           | 104                                   | 19    | 0    | 282        |
| 07:30      | 23                            | 0    | 64    | 1    | 54                                    | 46   | 0    | 0                           | 142                                   | 25    | 0    | 355        |
| 07:45      | 39                            | 0    | 87    | 0    | 54                                    | 46   | 0    | 0                           | 144                                   | 23    | 0    | 393        |
| Total      | 96                            | 0    | 253   | 2    | 186                                   | 158  | 0    | 0                           | 476                                   | 84    | 0    | 1255       |
| 08:00      | 30                            | 1    | 58    | 0    | 39                                    | 40   | 0    | 0                           | 109                                   | 20    | 0    | 297        |
| 08:15      | 23                            | 0    | 60    | 0    | 32                                    | 41   | 0    | 0                           | 105                                   | 20    | 0    | 281        |
| 08:30      | 29                            | 1    | 43    | 0    | 23                                    | 33   | 0    | 0                           | 94                                    | 24    | 0    | 247        |
| 08:45      | 27                            | 0    | 42    | 3    | 29                                    | 48   | 0    | 0                           | 66                                    | 19    | 3    | 237        |
| Total      | 109                           | 2    | 203   | 3    | 123                                   | 162  | 0    | 0                           | 374                                   | 83    | 3    | 1062       |
| 09:00      | 30                            | 0    | 42    | 0    | 25                                    | 40   | 0    | 1                           | 74                                    | 17    | 0    | 229        |
| 09:15      | 28                            | 1    | 44    | 1    | 27                                    | 28   | 0    | 0                           | 82                                    | 15    | 0    | 226        |
| 09:30      | 27                            | 0    | 38    | 0    | 13                                    | 30   | 0    | 0                           | 65                                    | 20    | 0    | 193        |
| 09:45      | 35                            | 0    | 41    | 1    | 18                                    | 33   | 0    | 0                           | 72                                    | 16    | 0    | 216        |
| Total      | 120                           | 1    | 165   | 2    | 83                                    | 131  | 0    | 1                           | 293                                   | 68    | 0    | 864        |
| 10:00      | 29                            | 2    | 46    | 0    | 19                                    | 26   | 0    | 0                           | 74                                    | 10    | 0    | 206        |
| 10:15      | 30                            | 0    | 22    | 1    | 25                                    | 17   | 0    | 0                           | 54                                    | 18    | 0    | 167        |
| 10:30      | 33                            | 0    | 36    | 1    | 20                                    | 31   | 0    | 1                           | 59                                    | 12    | 0    | 193        |
| 10:45      | 27                            | 0    | 45    | 1    | 20                                    | 25   | 0    | 0                           | 63                                    | 8     | 1    | 190        |
| Total      | 119                           | 2    | 149   | 3    | 84                                    | 99   | 0    | 1                           | 250                                   | 48    | 1    | 756        |
| 11:00      | 37                            | 0    | 53    | 1    | 22                                    | 47   | 0    | 0                           | 65                                    | 12    | 1    | 238        |
| 11:15      | 28                            | 0    | 47    | 2    | 20                                    | 39   | 0    | 0                           | 76                                    | 24    | 1    | 237        |
| 11:30      | 42                            | 0    | 42    | 0    | 12                                    | 49   | 0    | 0                           | 68                                    | 12    | 0    | 225        |
| 11:45      | 43                            | 0    | 58    | 0    | 25                                    | 38   | 0    | 0                           | 65                                    | 13    | 0    | 242        |
| Total      | 150                           | 0    | 200   | 3    | 79                                    | 173  | 0    | 0                           | 274                                   | 61    | 2    | 942        |
| 12:00      | 42                            | 0    | 61    | 1    | 17                                    | 43   | 1    | 0                           | 60                                    | 19    | 0    | 244        |
| 12:15      | 31                            | 0    | 56    | 0    | 25                                    | 40   | 0    | 1                           | 77                                    | 17    | 0    | 247        |
| 12:30      | 28                            | 0    | 52    | 2    | 21                                    | 37   | 0    | 0                           | 65                                    | 18    | 0    | 223        |
| 12:45      | 34                            | 0    | 63    | 3    | 18                                    | 34   | 0    | 0                           | 73                                    | 13    | 0    | 238        |
| Total      | 135                           | 0    | 232   | 6    | 81                                    | 154  | 1    | 1                           | 275                                   | 67    | 0    | 952        |
| 13:00      | 33                            | 0    | 54    | 1    | 17                                    | 31   | 0    | 0                           | 70                                    | 21    | 0    | 227        |
| 13:15      | 40                            | 0    | 51    | 0    | 23                                    | 39   | 0    | 1                           | 68                                    | 14    | 0    | 236        |
| 13:30      | 41                            | 0    | 57    | 1    | 17                                    | 39   | 0    | 1                           | 82                                    | 23    | 0    | 261        |
| 13:45      | 39                            | 1    | 57    | 0    | 26                                    | 38   | 0    | 1                           | 73                                    | 10    | 0    | 245        |
| Total      | 153                           | 1    | 219   | 2    | 83                                    | 147  | 0    | 3                           | 293                                   | 68    | 0    | 969        |
| 14:00      | 33                            | 0    | 49    | 1    | 28                                    | 34   | 0    | 0                           | 68                                    | 13    | 0    | 226        |
| 14:15      | 36                            | 0    | 62    | 0    | 26                                    | 43   | 0    | 0                           | 79                                    | 11    | 0    | 257        |
| 14:30      | 38                            | 0    | 61    | 0    | 23                                    | 30   | 0    | 3                           | 104                                   | 13    | 0    | 272        |
| 14:45      | 62                            | 0    | 63    | 2    | 22                                    | 46   | 0    | 0                           | 81                                    | 12    | 0    | 288        |
| Total      | 169                           | 0    | 235   | 3    | 99                                    | 153  | 0    | 3                           | 332                                   | 49    | 0    | 1043       |
| 15:00      | 46                            | 0    | 73    | 1    | 28                                    | 43   | 0    | 0                           | 71                                    | 22    | 2    | 286        |

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Site Code : 3  
Start Date : 1/12/2012  
Page No : 2

Groups Printed- Cars - Heavy Vehicles

| Start Time       | Ramp from I-35E SB Southbound |      |       |      | TH-13 / Sibley Memorial Hwy Westbound |      |      | Ramp to I-35E SB Northbound | TH-13 / Sibley Memorial Hwy Eastbound |       |      | Int. Total |
|------------------|-------------------------------|------|-------|------|---------------------------------------|------|------|-----------------------------|---------------------------------------|-------|------|------------|
|                  | Left                          | Thru | Right | Peds | Left                                  | Thru | Peds | Peds                        | Thru                                  | Right | Peds |            |
| 15:15            | 58                            | 0    | 84    | 2    | 30                                    | 41   | 0    | 0                           | 64                                    | 19    | 4    | 302        |
| 15:30            | 67                            | 0    | 71    | 1    | 30                                    | 49   | 0    | 1                           | 115                                   | 20    | 0    | 354        |
| 15:45            | 65                            | 0    | 77    | 2    | 30                                    | 55   | 0    | 1                           | 100                                   | 11    | 0    | 341        |
| Total            | 236                           | 0    | 305   | 6    | 118                                   | 188  | 0    | 2                           | 350                                   | 72    | 6    | 1283       |
| 16:00            | 52                            | 3    | 100   | 2    | 28                                    | 50   | 0    | 1                           | 109                                   | 24    | 0    | 369        |
| 16:15            | 56                            | 0    | 116   | 2    | 39                                    | 62   | 1    | 0                           | 109                                   | 21    | 0    | 406        |
| 16:30            | 81                            | 1    | 89    | 5    | 54                                    | 53   | 0    | 0                           | 127                                   | 27    | 0    | 437        |
| 16:45            | 83                            | 0    | 104   | 1    | 66                                    | 76   | 0    | 0                           | 121                                   | 10    | 0    | 461        |
| Total            | 272                           | 4    | 409   | 10   | 187                                   | 241  | 1    | 1                           | 466                                   | 82    | 0    | 1673       |
| 17:00            | 74                            | 1    | 101   | 1    | 57                                    | 83   | 0    | 0                           | 129                                   | 28    | 0    | 474        |
| 17:15            | 69                            | 0    | 113   | 2    | 49                                    | 78   | 0    | 0                           | 123                                   | 21    | 0    | 455        |
| 17:30            | 77                            | 0    | 105   | 3    | 42                                    | 61   | 0    | 3                           | 91                                    | 26    | 0    | 408        |
| 17:45            | 72                            | 0    | 114   | 0    | 33                                    | 61   | 0    | 1                           | 104                                   | 12    | 0    | 397        |
| Total            | 292                           | 1    | 433   | 6    | 181                                   | 283  | 0    | 4                           | 447                                   | 87    | 0    | 1734       |
| 18:00            | 101                           | 1    | 128   | 0    | 24                                    | 55   | 0    | 3                           | 99                                    | 13    | 4    | 428        |
| 18:15            | 82                            | 0    | 134   | 1    | 26                                    | 50   | 0    | 3                           | 80                                    | 23    | 0    | 399        |
| 18:30            | 82                            | 1    | 126   | 2    | 29                                    | 43   | 0    | 4                           | 76                                    | 14    | 0    | 377        |
| 18:45            | 65                            | 0    | 84    | 1    | 33                                    | 45   | 0    | 2                           | 76                                    | 11    | 0    | 317        |
| Total            | 330                           | 2    | 472   | 4    | 112                                   | 193  | 0    | 12                          | 331                                   | 61    | 4    | 1521       |
| Grand Total      | 2211                          | 13   | 3420  | 50   | 1511                                  | 2160 | 2    | 28                          | 4382                                  | 885   | 16   | 14678      |
| Apprch %         | 38.8                          | 0.2  | 60.1  | 0.9  | 41.1                                  | 58.8 | 0.1  | 100                         | 82.9                                  | 16.8  | 0.3  |            |
| Total %          | 15.1                          | 0.1  | 23.3  | 0.3  | 10.3                                  | 14.7 | 0    | 0.2                         | 29.9                                  | 6     | 0.1  |            |
| Cars             | 2164                          | 11   | 3373  | 50   | 1482                                  | 2110 | 2    | 28                          | 4318                                  | 863   | 16   | 14417      |
| % Cars           | 97.9                          | 84.6 | 98.6  | 100  | 98.1                                  | 97.7 | 100  | 100                         | 98.5                                  | 97.5  | 100  | 98.2       |
| Heavy Vehicles   | 47                            | 2    | 47    | 0    | 29                                    | 50   | 0    | 0                           | 64                                    | 22    | 0    | 261        |
| % Heavy Vehicles | 2.1                           | 15.4 | 1.4   | 0    | 1.9                                   | 2.3  | 0    | 0                           | 1.5                                   | 2.5   | 0    | 1.8        |

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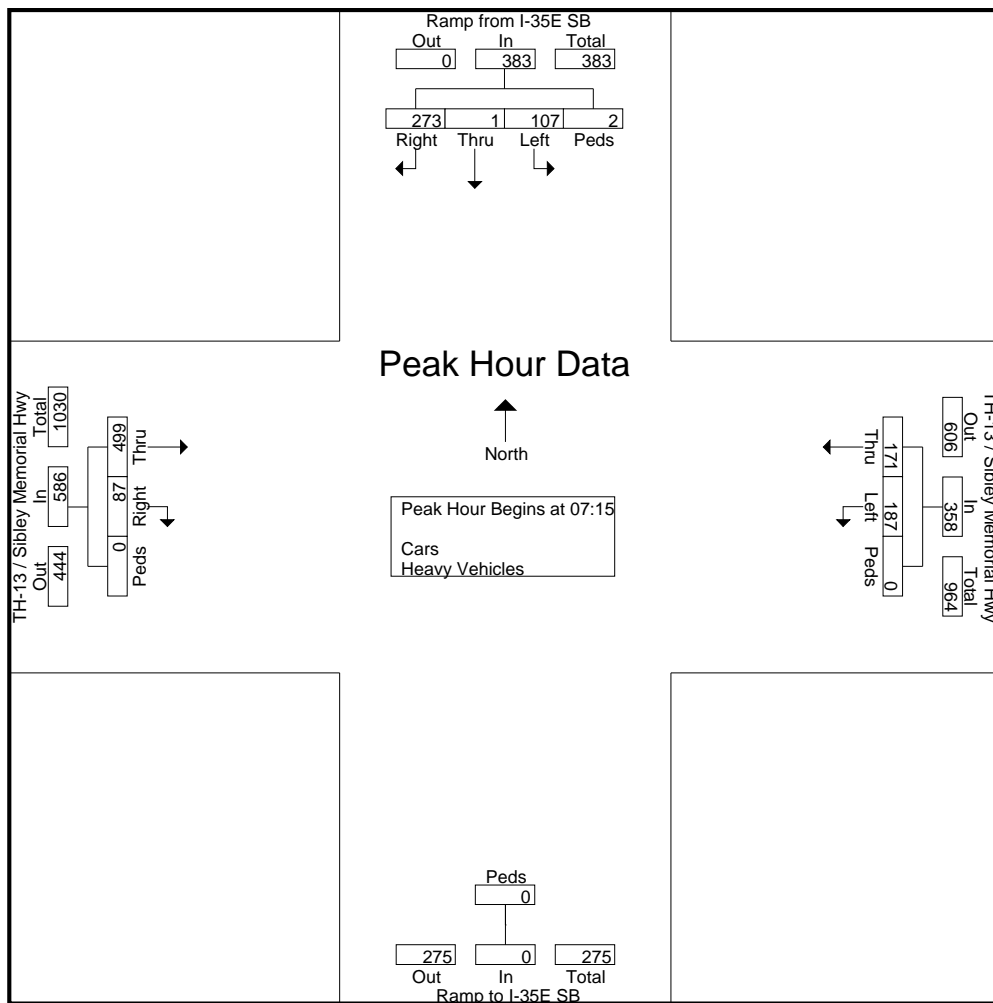
File Name : 3 I-35E West Ramp at TH 13

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| Start Time   | Ramp from I-35E SB Southbound |      |       |      |            | TH-13 / Sibley Memorial Hwy Westbound |      |      |            | Ramp to I-35E SB Northbound |            | TH-13 / Sibley Memorial Hwy Eastbound |       |      |            | Int. Total |
|--|-------------------------------|------|-------|------|------------|---------------------------------------|------|------|------------|-----------------------------|------------|---------------------------------------|-------|------|------------|------------|
|  | Left                          | Thru | Right | Peds | App. Total | Left                                  | Thru | Peds | App. Total | Peds                        | App. Total | Thru                                  | Right | Peds | App. Total |            |
| Peak Hour Analysis From 06:00 to 09:00 - Peak 1 of 1 |                               |      |       |      |            |                                       |      |      |            |                             |            |                                       |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 07:15    |                               |      |       |      |            |                                       |      |      |            |                             |            |                                       |       |      |            |            |
| 07:15  | 15                            | 0    | 64    | 1    | 80         | 40                                    | 39   | 0    | 79         | 0                           | 0          | 104                                   | 19    | 0    | 123        | 282        |
| 07:30  | 23                            | 0    | 64    | 1    | 88         | 54                                    | 46   | 0    | 100        | 0                           | 0          | 142                                   | 25    | 0    | 167        | 355        |
| 07:45  | 39                            | 0    | 87    | 0    | 126        | 54                                    | 46   | 0    | 100        | 0                           | 0          | 144                                   | 23    | 0    | 167        | 393        |
| 08:00  | 30                            | 1    | 58    | 0    | 89         | 39                                    | 40   | 0    | 79         | 0                           | 0          | 109                                   | 20    | 0    | 129        | 297        |
| Total Volume   | 107                           | 1    | 273   | 2    | 383        | 187                                   | 171  | 0    | 358        | 0                           | 0          | 499                                   | 87    | 0    | 586        | 1327       |
| % App. Total   | 27.9                          | 0.3  | 71.3  | 0.5  |            | 52.2                                  | 47.8 | 0    |            | 0                           | 0          | 85.2                                  | 14.8  | 0    |            |            |
| PHF  | .686                          | .250 | .784  | .500 | .760       | .866                                  | .929 | .000 | .895       | .000                        | .000       | .866                                  | .870  | .000 | .877       | .844       |



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| Start Time   | Ramp from I-35E SB Southbound |      |       |      |            | TH-13 / Sibley Memorial Hwy Westbound |      |      |            | Ramp to I-35E SB Northbound |            | TH-13 / Sibley Memorial Hwy Eastbound |       |      |            | Int. Total |
|--|-------------------------------|------|-------|------|------------|---------------------------------------|------|------|------------|-----------------------------|------------|---------------------------------------|-------|------|------------|------------|
|  | Left                          | Thru | Right | Peds | App. Total | Left                                  | Thru | Peds | App. Total | Peds                        | App. Total | Thru                                  | Right | Peds | App. Total |            |
| Peak Hour Analysis From 15:00 to 18:45 - Peak 1 of 1 |                               |      |       |      |            |                                       |      |      |            |                             |            |                                       |       |      |            |            |
| Peak Hour for Entire Intersection Begins at 16:30    |                               |      |       |      |            |                                       |      |      |            |                             |            |                                       |       |      |            |            |
| 16:30  | 81                            | 1    | 89    | 5    | 176        | 54                                    | 53   | 0    | 107        | 0                           | 0          | 127                                   | 27    | 0    | 154        | 437        |
| 16:45  | 83                            | 0    | 104   | 1    | 188        | 66                                    | 76   | 0    | 142        | 0                           | 0          | 121                                   | 10    | 0    | 131        | 461        |
| 17:00  | 74                            | 1    | 101   | 1    | 177        | 57                                    | 83   | 0    | 140        | 0                           | 0          | 129                                   | 28    | 0    | 157        | 474        |
| 17:15  | 69                            | 0    | 113   | 2    | 184        | 49                                    | 78   | 0    | 127        | 0                           | 0          | 123                                   | 21    | 0    | 144        | 455        |
| Total Volume   | 307                           | 2    | 407   | 9    | 725        | 226                                   | 290  | 0    | 516        | 0                           | 0          | 500                                   | 86    | 0    | 586        | 1827       |
| % App. Total   | 42.3                          | 0.3  | 56.1  | 1.2  |            | 43.8                                  | 56.2 | 0    |            | 0                           | 0          | 85.3                                  | 14.7  | 0    |            |            |
| PHF  | .925                          | .500 | .900  | .450 | .964       | .856                                  | .873 | .000 | .908       | .000                        | .000       | .969                                  | .768  | .000 | .933       | .964       |

