

Alliant Engineering

Minneapolis, MN 55415

--TRAFFIC DATA --

TH-101 at Co.Rd.37-70th St NE EAST RAMP

Ref.Pt.: 043.651

Alliant Eng.

TURN MOVEMENT COUNTS

File Name : 112_TH 101 and CR 37 E Ramp

Site Code : 112

Start Date : 2/25/2016

Page No : 1

Groups Printed- Vehicles - Trucks

| Start Time | TH-101, East Ramps Southbound | | | | Co.Rd.37 / 70th St NE Westbound | | | | TH-101, East Ramps Northbound | | | | Co.Rd.37 / 70th St NE Eastbound | | | | Int. Total |
|---------------|-------------------------------|------|------|-------|---------------------------------|------|------|-------|-------------------------------|------|------|-------|---------------------------------|------|------|-------|------------|
| | Left | Thru | Rght | Other | Left | Thru | Rght | Other | Left | Thru | Rght | Other | Left | Thru | Rght | Other | |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 5 | 0 | 1 | 9 | 14 | 0 | 36 |
| 06:15 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 10 | 10 | 0 | 34 |
| 06:30 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 18 | 15 | 0 | 44 |
| 06:45 | 0 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 17 | 16 | 0 | 49 |
| Total | 0 | 0 | 0 | 0 | 3 | 24 | 0 | 0 | 13 | 0 | 13 | 0 | 1 | 54 | 55 | 0 | 163 |
| 07:00 | 0 | 0 | 1 | 0 | 1 | 8 | 0 | 0 | 4 | 0 | 10 | 0 | 0 | 30 | 12 | 0 | 66 |
| 07:15 | 0 | 0 | 0 | 0 | 3 | 12 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 22 | 14 | 0 | 63 |
| 07:30 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 11 | 4 | 7 | 0 | 0 | 22 | 16 | 0 | 64 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 3 | 0 | 6 | 0 | 0 | 21 | 20 | 0 | 59 |
| Total | 0 | 0 | 1 | 0 | 5 | 32 | 0 | 0 | 28 | 4 | 25 | 0 | 0 | 95 | 62 | 0 | 252 |
| 08:00 | 0 | 0 | 0 | 0 | 4 | 7 | 0 | 0 | 5 | 0 | 6 | 0 | 0 | 20 | 13 | 0 | 55 |
| 08:15 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | 15 | 1 | 4 | 0 | 0 | 7 | 18 | 0 | 53 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 13 | 19 | 0 | 40 |
| 08:45 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 10 | 17 | 0 | 45 |
| Total | 0 | 0 | 0 | 0 | 6 | 26 | 0 | 0 | 29 | 1 | 14 | 0 | 0 | 50 | 67 | 0 | 193 |
| 09:00 | 0 | 0 | 0 | 0 | 3 | 9 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 6 | 12 | 0 | 38 |
| 09:15 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 0 | 6 | 0 | 8 | 0 | 0 | 6 | 7 | 0 | 37 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 8 | 13 | 1 | 0 | 10 | 0 | 12 | 0 | 0 | 12 | 19 | 0 | 75 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| 10:30 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 11 | 0 | 6 | 0 | 0 | 8 | 5 | 0 | 37 |
| 10:45 | 0 | 0 | 0 | 0 | 3 | 7 | 0 | 0 | 7 | 0 | 5 | 0 | 0 | 8 | 7 | 0 | 37 |
| Total | 0 | 0 | 0 | 0 | 6 | 11 | 0 | 0 | 18 | 0 | 11 | 0 | 0 | 16 | 12 | 0 | 74 |
| 11:00 | 0 | 0 | 0 | 0 | 3 | 10 | 0 | 0 | 11 | 0 | 8 | 0 | 0 | 3 | 13 | 0 | 48 |
| 11:15 | 0 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 9 | 0 | 4 | 0 | 0 | 7 | 8 | 0 | 35 |
| 11:30 | 0 | 0 | 0 | 0 | 2 | 11 | 0 | 0 | 12 | 1 | 5 | 0 | 0 | 5 | 5 | 0 | 41 |
| 11:45 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 10 | 0 | 6 | 0 | 0 | 6 | 14 | 0 | 42 |
| Total | 0 | 0 | 1 | 0 | 6 | 32 | 0 | 0 | 42 | 1 | 23 | 0 | 0 | 21 | 40 | 0 | 166 |
| 12:00 | 0 | 0 | 0 | 0 | 9 | 14 | 0 | 0 | 16 | 0 | 10 | 0 | 0 | 5 | 5 | 0 | 59 |
| 12:15 | 0 | 0 | 0 | 0 | 3 | 9 | 0 | 0 | 13 | 0 | 5 | 0 | 0 | 10 | 13 | 0 | 53 |
| 12:30 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 0 | 15 | 0 | 9 | 0 | 0 | 3 | 11 | 0 | 49 |
| 12:45 | 0 | 0 | 0 | 0 | 4 | 15 | 0 | 0 | 11 | 0 | 6 | 0 | 0 | 7 | 9 | 0 | 52 |
| Total | 0 | 0 | 0 | 0 | 23 | 42 | 0 | 0 | 55 | 0 | 30 | 0 | 0 | 25 | 38 | 0 | 213 |
| 13:00 | 0 | 0 | 0 | 0 | 7 | 9 | 0 | 0 | 17 | 0 | 5 | 0 | 0 | 11 | 8 | 0 | 57 |
| 13:15 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 16 | 0 | 6 | 0 | 0 | 9 | 9 | 0 | 48 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 33 | 0 | 11 | 0 | 0 | 20 | 17 | 0 | 105 |
| *** BREAK *** | | | | | | | | | | | | | | | | | |
| 14:30 | 0 | 0 | 0 | 0 | 2 | 13 | 0 | 0 | 46 | 0 | 6 | 0 | 0 | 4 | 9 | 0 | 80 |
| 14:45 | 0 | 0 | 0 | 0 | 7 | 22 | 0 | 0 | 29 | 0 | 6 | 0 | 0 | 4 | 13 | 0 | 81 |
| Total | 0 | 0 | 0 | 0 | 9 | 35 | 0 | 0 | 75 | 0 | 12 | 0 | 0 | 8 | 22 | 0 | 161 |
| 15:00 | 0 | 0 | 0 | 0 | 3 | 10 | 0 | 0 | 32 | 0 | 3 | 0 | 0 | 9 | 8 | 0 | 65 |
| 15:15 | 0 | 0 | 0 | 0 | 7 | 9 | 0 | 0 | 31 | 0 | 7 | 0 | 0 | 12 | 9 | 0 | 75 |
| 15:30 | 0 | 0 | 0 | 0 | 4 | 21 | 0 | 0 | 40 | 1 | 7 | 0 | 0 | 5 | 12 | 0 | 90 |
| 15:45 | 0 | 0 | 0 | 0 | 6 | 17 | 0 | 0 | 31 | 3 | 9 | 0 | 0 | 5 | 10 | 0 | 81 |
| Total | 0 | 0 | 0 | 0 | 20 | 57 | 0 | 0 | 134 | 4 | 26 | 0 | 0 | 31 | 39 | 0 | 311 |
| 16:00 | 0 | 0 | 0 | 0 | 9 | 23 | 0 | 0 | 46 | 0 | 10 | 0 | 0 | 8 | 13 | 0 | 109 |
| 16:15 | 0 | 0 | 0 | 0 | 10 | 17 | 0 | 0 | 29 | 0 | 6 | 0 | 0 | 8 | 11 | 0 | 81 |
| 16:30 | 0 | 0 | 0 | 0 | 13 | 22 | 0 | 0 | 49 | 0 | 2 | 0 | 0 | 5 | 19 | 0 | 110 |

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TURN MOVEMENT COUNTS

File Name : 112_TH 101 and CR 37 E Ramp

Site Code : 112

Start Date : 2/25/2016

Page No : 2

Groups Printed- Vehicles - Trucks

| Start Time | TH-101, East Ramps Southbound | | | | Co.Rd.37 / 70th St NE Westbound | | | | TH-101, East Ramps Northbound | | | | Co.Rd.37 / 70th St NE Eastbound | | | | Int. Total |
|-------------|-------------------------------|------|------|-------|---------------------------------|------|------|-------|-------------------------------|------|------|-------|---------------------------------|------|------|-------|------------|
| | Left | Thru | Rght | Other | Left | Thru | Rght | Other | Left | Thru | Rght | Other | Left | Thru | Rght | Other | |
| 16:45 | 0 | 0 | 0 | 0 | 14 | 28 | 0 | 0 | 57 | 0 | 7 | 0 | 0 | 14 | 12 | 0 | 132 |
| Total | 0 | 0 | 0 | 0 | 46 | 90 | 0 | 0 | 181 | 0 | 25 | 0 | 0 | 35 | 55 | 0 | 432 |
| 17:00 | 0 | 0 | 0 | 0 | 4 | 27 | 0 | 0 | 46 | 0 | 5 | 0 | 0 | 2 | 13 | 0 | 97 |
| 17:15 | 0 | 0 | 0 | 0 | 6 | 18 | 0 | 0 | 50 | 0 | 3 | 0 | 0 | 6 | 22 | 0 | 105 |
| 17:30 | 0 | 0 | 0 | 0 | 5 | 28 | 1 | 0 | 41 | 1 | 5 | 0 | 0 | 7 | 22 | 0 | 110 |
| 17:45 | 0 | 0 | 0 | 0 | 3 | 20 | 0 | 0 | 50 | 0 | 8 | 0 | 0 | 12 | 21 | 0 | 114 |
| Total | 0 | 0 | 0 | 0 | 18 | 93 | 1 | 0 | 187 | 1 | 21 | 0 | 0 | 27 | 78 | 0 | 426 |
| Grand Total | 0 | 0 | 2 | 0 | 162 | 467 | 2 | 0 | 805 | 11 | 223 | 0 | 1 | 394 | 504 | 0 | 2571 |
| Apprch % | 0 | 0 | 100 | 0 | 25.7 | 74 | 0.3 | 0 | 77.5 | 1.1 | 21.5 | 0 | 0.1 | 43.8 | 56.1 | 0 | |
| Total % | 0 | 0 | 0.1 | 0 | 6.3 | 18.2 | 0.1 | 0 | 31.3 | 0.4 | 8.7 | 0 | 0 | 15.3 | 19.6 | 0 | |
| Vehicles | 0 | 0 | 0 | 0 | 143 | 389 | 2 | 0 | 774 | 9 | 158 | 0 | 1 | 357 | 474 | 0 | 2307 |
| % Vehicles | 0 | 0 | 0 | 0 | 88.3 | 83.3 | 100 | 0 | 96.1 | 81.8 | 70.9 | 0 | 100 | 90.6 | 94 | 0 | 89.7 |
| Trucks | 0 | 0 | 2 | 0 | 19 | 78 | 0 | 0 | 31 | 2 | 65 | 0 | 0 | 37 | 30 | 0 | 264 |
| % Trucks | 0 | 0 | 100 | 0 | 11.7 | 16.7 | 0 | 0 | 3.9 | 18.2 | 29.1 | 0 | 0 | 9.4 | 6 | 0 | 10.3 |

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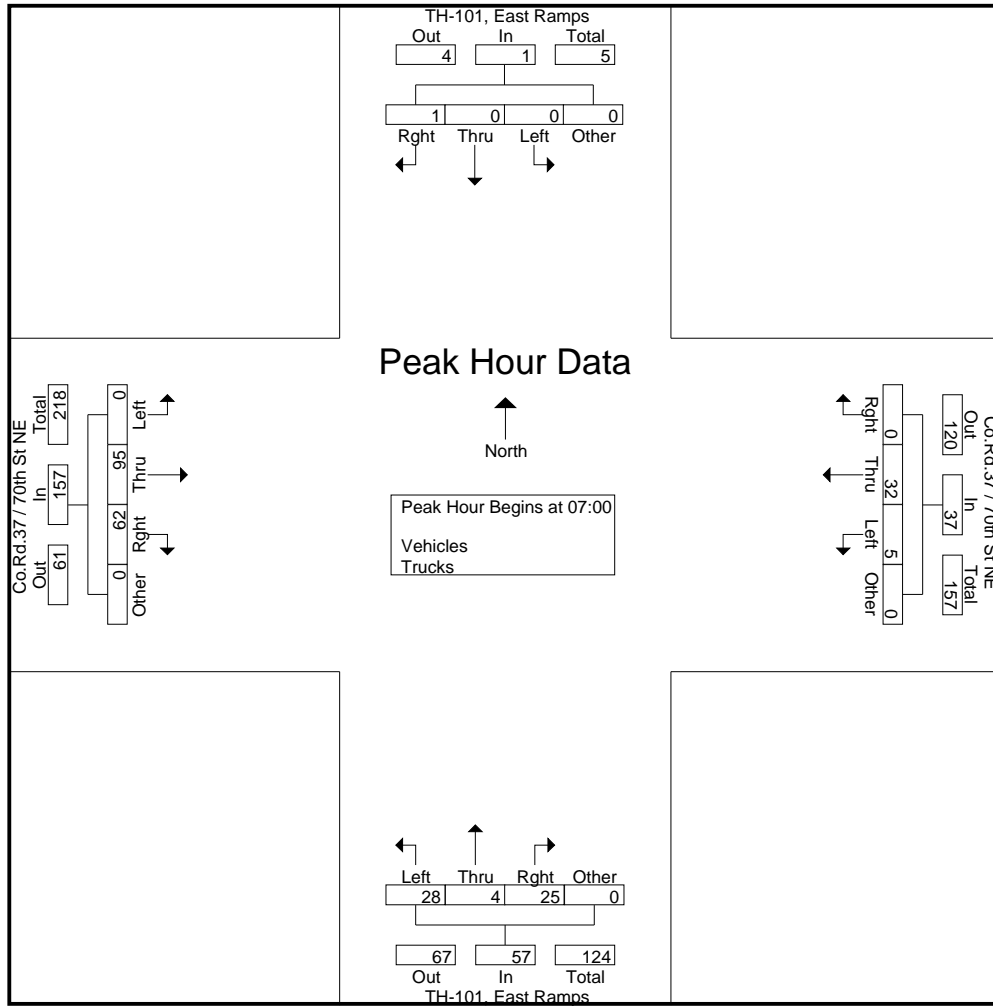
File Name : 112_TH 101 and CR 37 E Ramp

Site Code : 112

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Page No : 3

| Start Time | TH-101, East Ramps Southbound | | | | | Co.Rd.37 / 70th St NE Westbound | | | | | TH-101, East Ramps Northbound | | | | | Co.Rd.37 / 70th St NE Eastbound | | | | | Int. Total |
|--|-------------------------------|------|-------|-------|------------|---------------------------------|------|-------|-------|------------|-------------------------------|------|-------|-------|------------|---------------------------------|------|-------|-------|------------|------------|
| | Left | Thru | Right | Other | App. Total | Left | Thru | Right | Other | App. Total | Left | Thru | Right | Other | App. Total | Left | Thru | Right | 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 | 0 | 0 | 1 | 0 | 1 | 1 | 8 | 0 | 0 | 9 | 4 | 0 | 10 | 0 | 14 | 0 | 30 | 12 | 0 | 42 | 66 |
| 07:15 | 0 | 0 | 0 | 0 | 0 | 3 | 12 | 0 | 0 | 15 | 10 | 0 | 2 | 0 | 12 | 0 | 22 | 14 | 0 | 36 | 63 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 4 | 11 | 4 | 7 | 0 | 22 | 0 | 22 | 16 | 0 | 38 | 64 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 3 | 0 | 6 | 0 | 9 | 0 | 21 | 20 | 0 | 41 | 59 |
| Total Volume | 0 | 0 | 1 | 0 | 1 | 5 | 32 | 0 | 0 | 37 | 28 | 4 | 25 | 0 | 57 | 0 | 95 | 62 | 0 | 157 | 252 |
| % App. Total | 0 | 0 | 100 | 0 | | 13.5 | 86.5 | 0 | 0 | | 49.1 | 7 | 43.9 | 0 | | 0 | 60.5 | 39.5 | 0 | | |
| PHF | .000 | .000 | .250 | .000 | .250 | .417 | .667 | .000 | .000 | .617 | .636 | .250 | .625 | .000 | .648 | .000 | .792 | .775 | .000 | .935 | .955 |



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| Start Time | TH-101, East Ramps Southbound | | | | | Co.Rd.37 / 70th St NE Westbound | | | | | TH-101, East Ramps Northbound | | | | | Co.Rd.37 / 70th St NE 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 16:30 | | | | | | | | | | | | | | | | | | | | | |
| 16:30 | 0 | 0 | 0 | 0 | 0 | 13 | 22 | 0 | 0 | 35 | 49 | 0 | 2 | 0 | 51 | 0 | 5 | 19 | 0 | 24 | 110 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 14 | 28 | 0 | 0 | 42 | 57 | 0 | 7 | 0 | 64 | 0 | 14 | 12 | 0 | 26 | 132 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 4 | 27 | 0 | 0 | 31 | 46 | 0 | 5 | 0 | 51 | 0 | 2 | 13 | 0 | 15 | 97 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 6 | 18 | 0 | 0 | 24 | 50 | 0 | 3 | 0 | 53 | 0 | 6 | 22 | 0 | 28 | 105 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 37 | 95 | 0 | 0 | 132 | 202 | 0 | 17 | 0 | 219 | 0 | 27 | 66 | 0 | 93 | 444 |
| % App. Total | 0 | 0 | 0 | 0 | 0 | 28 | 72 | 0 | 0 | | 92.2 | 0 | 7.8 | 0 | | 0 | 29 | 71 | 0 | | |
| PHF | .000 | .000 | .000 | .000 | .000 | .661 | .848 | .000 | .000 | .786 | .886 | .000 | .607 | .000 | .855 | .000 | .482 | .750 | .000 | .830 | .841 |