



| DATE, TIME, LIGHT, WEATHER                                     |   |  | <div><div><div> OVERTURN</div><div> FIRE OR EXPLOSION</div><div> MOVING VEHICLE</div><div> REAR END</div><div> BACKING VEHICLE</div><div> COLLISION WITH FIXED OBJECT</div><div> SIDE SWIPE SAME DIRECTION</div><div> SIDE SWIPE OPPOSITE DIRECTION</div></div><div><div> PARKED VEHICLE</div><div> MOTORCYCLE</div><div> DEER</div><div> PEDESTRIAN</div><div> BICYCLE</div><div> FIXED OBJECT</div><div> RIGHT ANGLE</div></div><div><div> VEHICLE OUT OF CONTROL</div><div> LEFT TURN INTO ONCOMING TRAFFIC</div></div></div> | ADT: 29292 (TMC 2556)<br>ACCIDENT RATE: 0.24   CR INDEX: 0.25<br>SEVERITY RATE: 0.37   FAR INDEX: 0.00 |  |
|--|---|--|--|--|--|
| LIGHT  | WEATHER   | SEVERITY CODE  | <div> ANOKA COUNTY HIGHWAY DEPT.</div>   | COLLISION DIAGRAM  | CSAH 78 (HANSON BLVD) @ CSAH 18 (CROSSTOWN BLVD)<br>JAN 2020 TO MARCH 2025 |
| L = LIGHT<br>DN = DAWN<br>DU = DUSK<br>D = DARK<br>X = UNKNOWN | C = CLEAR<br>CL = CLOUDY<br>R = RAIN<br>S = SNOW/SLEET<br>X = OTHER/UNKNOWN | <div><div>N</div> PROPERTY DAMAGE</div> <div><div>C</div> POSSIBLE INJURY</div> <div><div>B</div> MINOR INJURY</div> <div><div>A</div> SERIOUS INJURY</div> <div><div>K</div> FATALITY</div> |  |  | Sheet <u>  1  </u> of <u>  1  </u> Sheets                                  |

## ACCIDENT AND SEVERITY RATES FOR AN INTERSECTION

|                                      |                   |                                   |          |
|--------------------------------------|-------------------|-----------------------------------|----------|
| Intersection:                        | CSAH 78 @ CSAH 18 |                                   |          |
| Study Start Date:                    | 01/01/2020        |                                   |          |
| Study End Date:                      | 03/30/2024        |                                   |          |
| Length of study in years:            | 4.25              | Days = 1550.236                   | Weighted |
| Intersection ADT:                    | 29292             | Total Accidents =                 | 11       |
| Number of Fatal Accidents:           | 0                 | Total Fatal Accidents =           | 0        |
| Number of "A" P.I. Accidents:        | 0                 | Total "A" Injury Accidents =      | 0        |
| Number of "B" P.I. Accidents:        | 2                 | Total "B" Injury Accidents =      | 6        |
| Number of "C" P.I. Accidents:        | 2                 | Total "C" Injury Accidents =      | 4        |
| Number of Property Damage Accidents: | 7                 | Total Property Damage Accidents = | 7        |
|                                      |                   | Sum of weighted accidents =       | 17       |
| Accident Rate (AR) =                 | 0.24              |                                   |          |
| Severity Rate (SR) =                 | 0.37              |                                   |          |

# Intersection Safety Screening

Intersection: CSAH 78 @ CSAH 18

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*Statewide Averages based on 2018-2022 crashes*

| Crashes by Crash Severity |    |
|---------------------------|----|
| Fatal (K)                 | 0  |
| Serious Injury (A)        | 0  |
| Minor Injury (B)          | 2  |
| Possible Injury (C)       | 2  |
| Property Damage (PDO)     | 7  |
| Total Crashes             | 11 |

| Intersection Characteristics |        |
|------------------------------|--------|
| Entering Volume              | 29,292 |
| Environment                  | Urban  |
| Lighting                     | Lit    |
| Traffic Control              | Signal |

*Annual crash cost* = \$173,000

*Statewide comparison* = Signal, Low Volume (<=20K)

| Total Crash Rate      |             |
|-----------------------|-------------|
| Observed              | 0.206       |
| Statewide Average     | 0.548       |
| Critical Rate         | 0.820       |
| <b>Critical Index</b> | <b>0.25</b> |

| Fatal & Serious Injury Crash Rate |             |
|-----------------------------------|-------------|
| Observed                          | 0.000       |
| Statewide Average                 | 1.024       |
| Critical Rate                     | 3.730       |
| <b>Critical Index</b>             | <b>0.00</b> |

*The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).*

*The observed total crash rate for this period is 0.21 per MEV; this is 75% below the critical rate. Based on similar statewide intersections, an additional 33 crashes over the five years would indicate this intersection operates outside the normal range.*

*The observed fatal and serious injury crash rate for this period is 0.00 per 100 MEV; this is 100% below the critical rate. The intersection operates within the normal range.*