

# 2018 Crash Analysis Technical Memorandum

I-229 Benson Road Interchange  
Modification Study

*Sioux Falls, South Dakota*

*February 28, 2018*



**City of Sioux Falls**  
SOUTH DAKOTA



This memorandum documents the safety analysis conducted for the study area surrounding the I-229 Exit 9 interchange in northeast Sioux Falls, SD. The safety analysis was conducted to help determine if any safety-related improvements could be incorporated into future construction.

## 1.0 Methodology

Crash data for the years 2013 through 2017 were provided by SDDOT and reviewed to identify any existing crash concentrations/crash trends and develop potential crash mitigation measures. Analyses were conducted for the following roadway facilities:

- Arterial street intersections
- Arterial street segments
- Interstate mainline segments
- Interstate ramp segments

Critical crash rates were calculated for each segment, ramp, or intersection and used to identify portions of the study area that displayed crash rates higher than the critical rate. Each of the above-critical locations is discussed in subsequent sections of this memorandum.

## 2.0 Segment, Ramp and Intersection Crash Rates

The study area was divided into segments representing:

- Interstate mainline segments (Figure 7, Table 1)
- Interstate ramp segments (Figure 8, Table 2)
- Arterial street intersections (Figures 9 & 10, Table 3)
- Arterial street segments (Figures 11 & 12, Table 4)

Mainline and ramp sections were each analyzed separately to allow calculation of representative crash rates and critical rates for each type of Interstate feature.

The arterial street intersections named in the M&A document and the intervening arterial street segments were each grouped for calculation of crash rates and critical rates.

Details of the crash records for each segment and intersection are contained in the Appendix.

## 3.0 Segment and Intersection Critical Crash Rates

Critical crash rates were calculated based on the statistical populations in each spreadsheet, using the methods shown in the Highway Safety Manual (American Association of State Highway and Transportation Officials (AASHTO), 2010). Those segments and intersections that lay outside the critical rates are shown in red coloration in the last column of each spreadsheet. All the segments and intersections that lay within the critical limits are shown in green. The locations of non-critical or critical crash rates are also illustrated on the figures.

## 4.0 Crash Trends

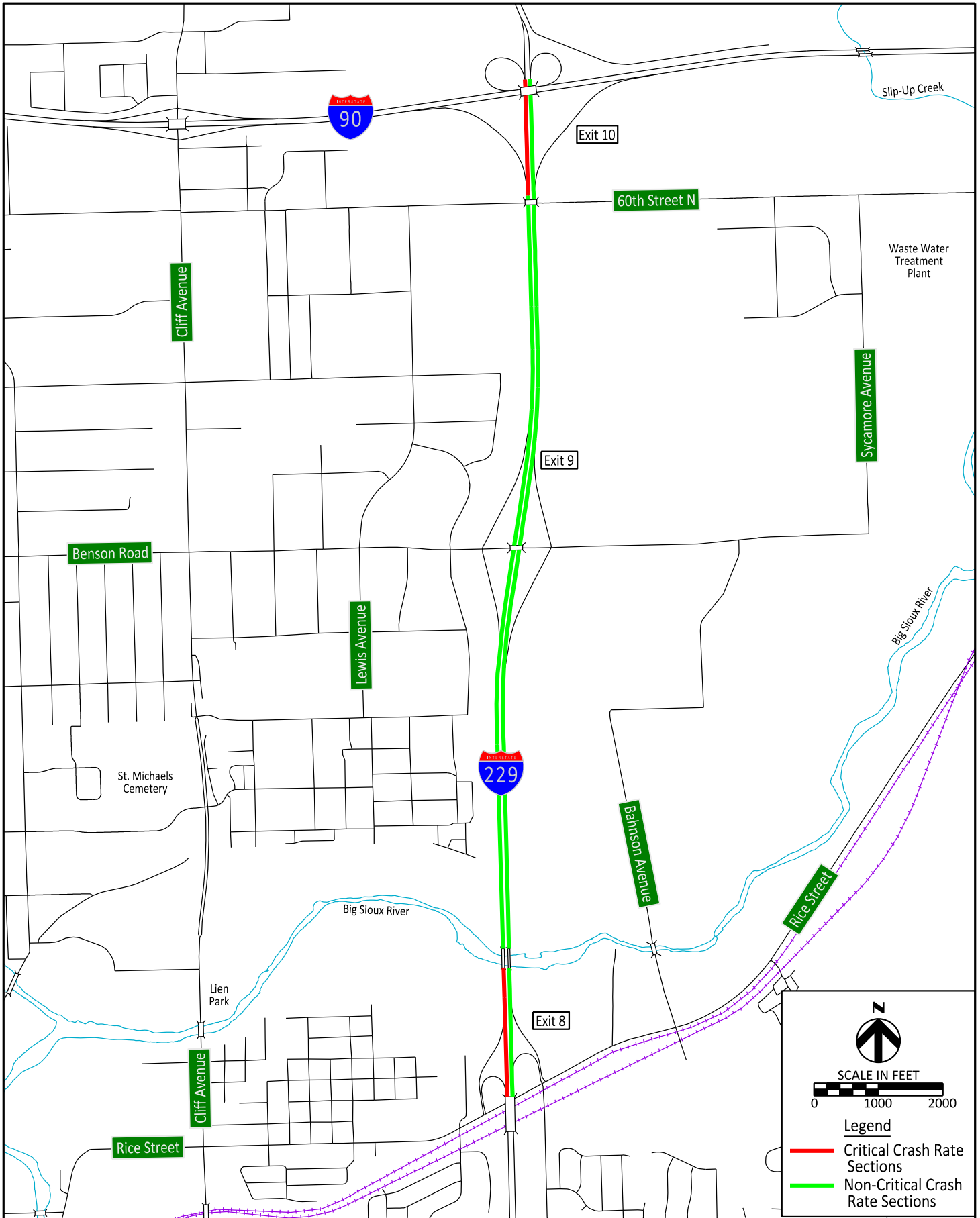
Review of the crash summaries for each Interstate and arterial street section revealed a few crash trends:

- Slightly elevated incidence of single vehicle crashes on southbound I-229 at I-90 during inclement weather events.
- A short-term concentration of crashes on southbound I-229 at Rice Street, likely during construction activities.
- Single-vehicle run-off crashes on the northbound Rice Street off-ramp during inclement weather (only 5 in the 5-year period, but enough to appear outside the critical rate boundary).
- Concentrations of angle crashes at the Benson/Cliff and Rice/Cliff intersections.
- A concentration of crashes involving parked cars on Rice between Wayland and I-229 SB.

## 5.0 Potential Mitigation Measures

The general crash trends identified above suggest several potential strategies for reducing crash rates with the study area:

- Consider ITS-related means of communicating slippery roadway conditions to drivers and continue aggressive winter maintenance.
- Addition of high-friction surface courses on bridges, curves and weaving areas may help reduce crashes that occur during inclement weather.
- Consider work zone traffic control that doesn't require drivers to enter high speed traffic from a dead stop.
- Conduct road safety audits of the Benson/Cliff and Rice/Cliff intersections to consider ways to reduce angle crashes.
- Consider a wider edge line to delineate the parking lane along Rice Street.



FILE: ...Figure 07 (Interstate Crash).dgn  
 PLOTTING DATE: 02-28-2018

Drawn By: BRM  
 Date: 2/28/2018  
 Chkd By: REL  
 Date: 2/28/2018  
 Revision:



**Interstate Segments for Crash Analysis**  
 (See Table 1)  
 I-229 Exit 9 (Benson Road) Interchange Modification Study  
 Sioux Falls, SD

Figure  
**7**

**TABLE 1 - INTERSTATE SEGMENT CRASH RATES (2013-2017)**

I-229/BENSON INTERSTATE ACCESS STUDY

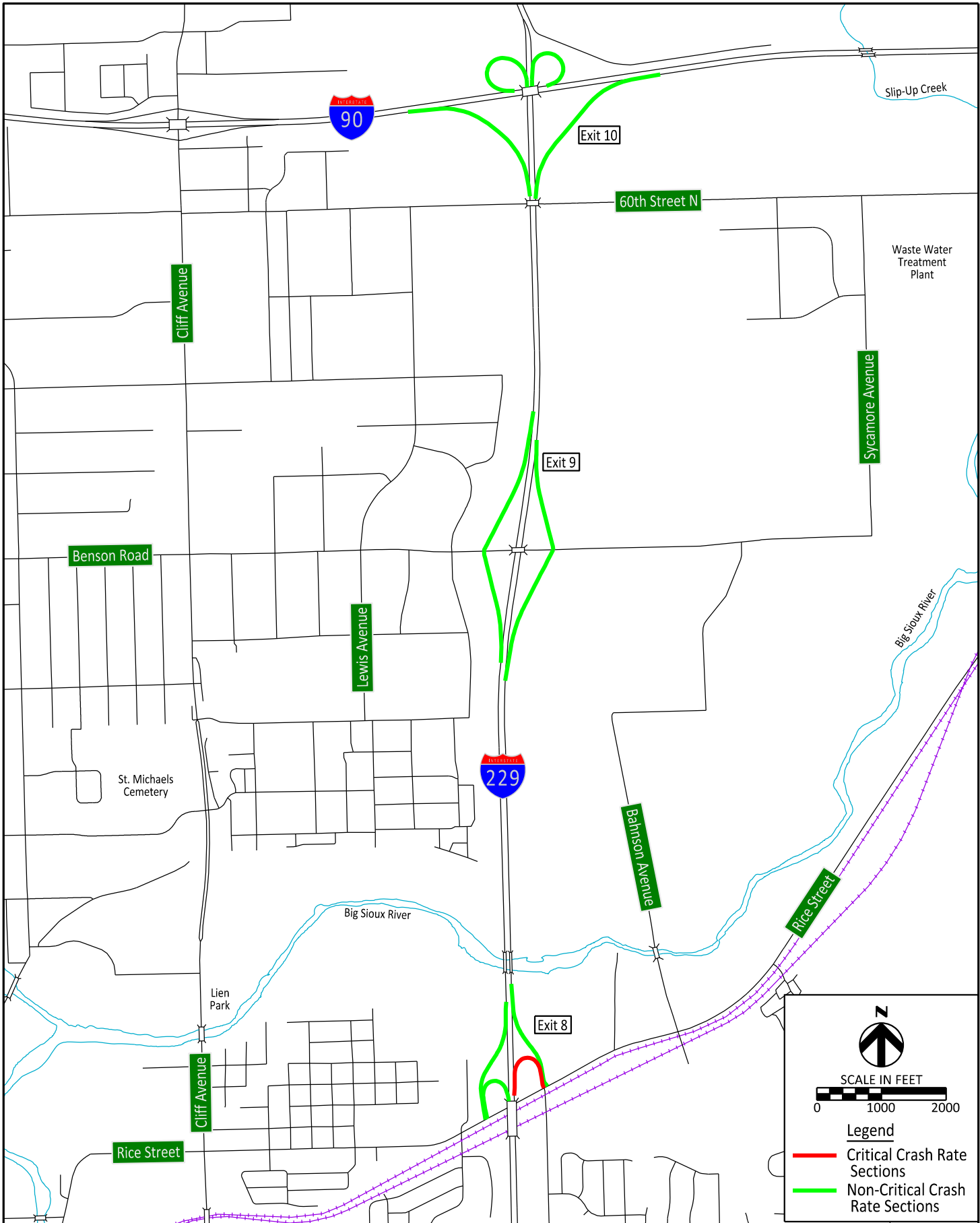
TRAVEL DIRECTION	SEGMENT	NUMBER CRASHES	SEGMENT LENGTH	DAILY VOLUME	MVMT <sup>1</sup>	CRASH RATE	TEV*R <sup>2</sup>	CRITICAL RATE	CRASH/CRITICAL RATIO
SB	I-90 INTERCHANGE AREA	11	0.331	4265	2.58	4.27	18209.66	2.89	1.48
SB	I-90 TO BENSON	16	0.686	7900	9.89	1.62	12780.06	2.14	0.76
SB	BENSON INTERCHANGE AREA	2	0.692	7170	9.05	0.22	1583.66	2.18	0.10
SB	BENSON TO RICE	22	1.080	13775	27.15	0.81	11161.85	1.86	0.44
SB	RICE INTERCHANGE AREA	16	0.205	12270	4.59	3.49	42766.46	2.50	1.40
NB	RICE INTERCHANGE AREA	5	0.189	12190	4.20	1.19	14495.90	2.55	0.47
NB	RICE TO BENSON	35	0.974	13775	24.49	1.43	19690.02	1.88	0.76
NB	BENSON INTERCHANGE AREA	3	0.652	8740	10.40	0.29	2521.22	2.12	0.14
NB	BENSON TO I-90	2	0.771	7900	11.12	0.18	1421.39	2.10	0.09
NB	I-90 INTERCHANGE AREA	7	0.357	4745	3.09	2.26	10744.02	2.75	0.82
COLUMN TOTAL				92730			135374.24		
WEIGHTED AVERAGE RATE						1.46			

<sup>1</sup>MVMT = MILLION VEHICLE MILES TRAVELED

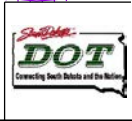
<sup>2</sup>TEV\*R = TOTAL ENTERING VEHICLES PER DAY, TIMES OBSERVED CRASH RATE

SOURCE: HIGHWAY SAFETY MANUAL, FIRST EDITION, 2010, AASHTO

FILE: ...Figure 08 (Interstate Ramp Crash).dgn  
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**Interstate Ramps for Crash Analysis**  
 (See Table 2)  
 I-229 Exit 9 (Benson Road) Interchange Modification Study  
 Sioux Falls, SD

Figure  
**8**

**TABLE 2 - INTERSTATE RAMP CRASH RATES (2013-2017)**

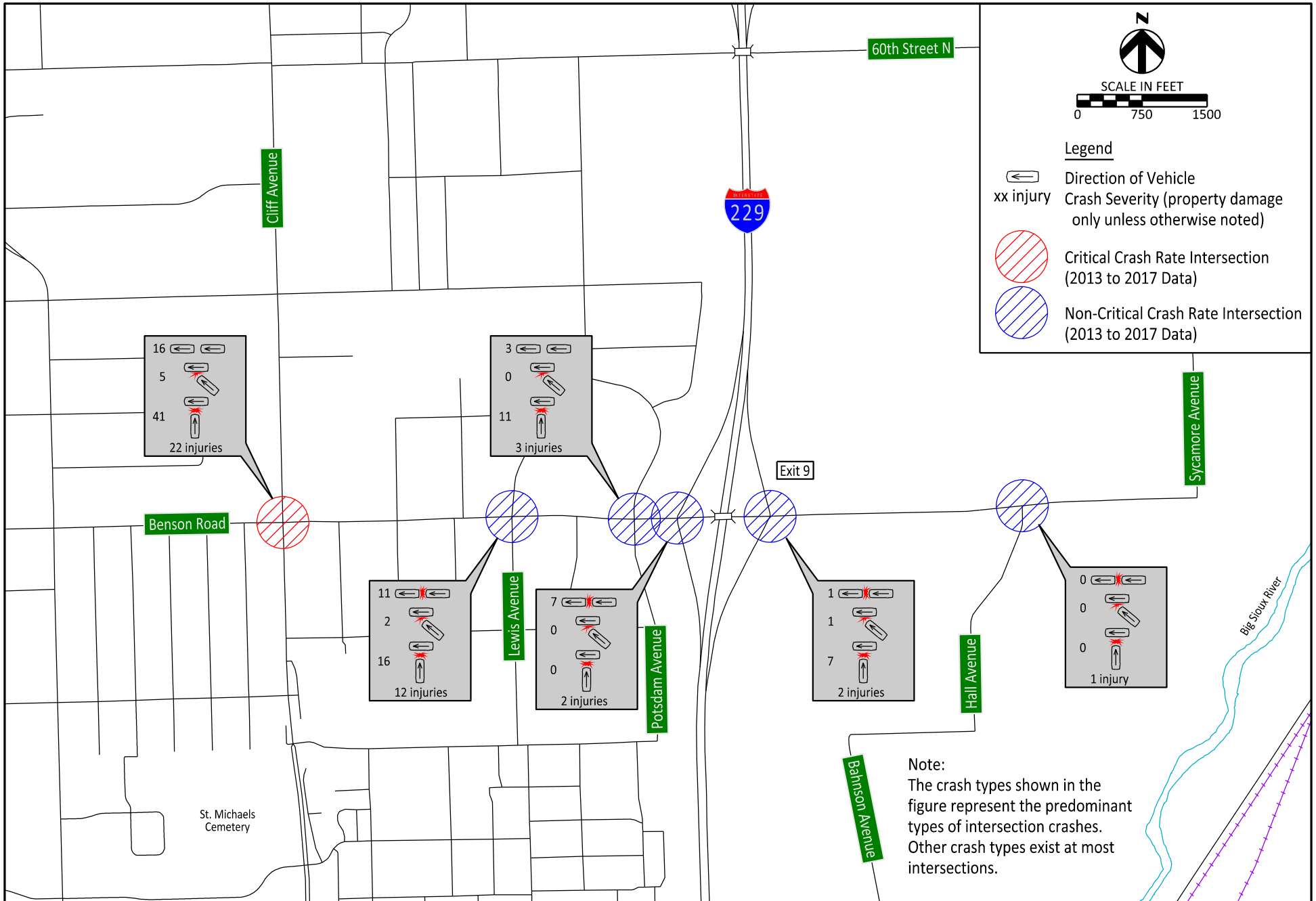
I-229/BENSON INTERSTATE ACCESS STUDY

TRAVEL DIRECTION	SEGMENT	NUMBER CRASHES	SEGMENT LENGTH	DAILY VOLUME	MVMT <sup>1</sup>	CRASH RATE	TEV*R <sup>2</sup>	CRITICAL RATE	CRASH/CRITICAL RATIO
SB	I-90 WB ON RAMP	4	0.234	2840	1.21	3.30	9366.58	4.91	0.67
SB	I-90 EB ON RAMP	0	0.367	3635	2.43	0.00	0.00	4.04	0.00
SB	BENSON OFF RAMP	2	0.371	730	0.49	4.05	2953.88	6.78	0.60
SB	BENSON ON RAMP	4	0.283	5140	2.65	1.51	7744.81	3.96	0.38
SB	RICE OFF RAMP	1	0.270	1505	0.74	1.35	2029.43	5.79	0.23
SB	RICE ON RAMP	1	0.173	2735	0.86	1.16	3167.31	5.49	0.21
NB	RICE OFF RAMP	5	0.152	2835	0.79	6.36	18024.51	5.67	1.12
NB	RICE ON RAMP	4	0.235	1585	0.68	5.88	9326.73	5.98	0.98
NB	BENSON OFF RAMP	8	0.360	5035	3.31	2.42	12176.56	3.76	0.64
NB	BENSON ON RAMP	0	0.264	970	0.47	0.00	0.00	6.93	0.00
NB	I-90 EB OFF RAMP	3	0.425	3155	2.45	1.23	3867.85	4.03	0.30
NB	I-90 WB OFF RAMP	2	0.189	2895	1.00	2.00	5798.36	5.22	0.38
COLUMN TOTAL				33060			74456.03		
WEIGHTED AVERAGE RATE						2.25			

<sup>1</sup>MVMT = MILLION VEHICLE MILES TRAVELED

<sup>2</sup>TEV\*R = TOTAL ENTERING VEHICLES TIMES CRASH RATE

SOURCE: HIGHWAY SAFETY MANUAL, FIRST EDITION, 2010, AASHTO



Note:  
 The crash types shown in the figure represent the predominant types of intersection crashes. Other crash types exist at most intersections.

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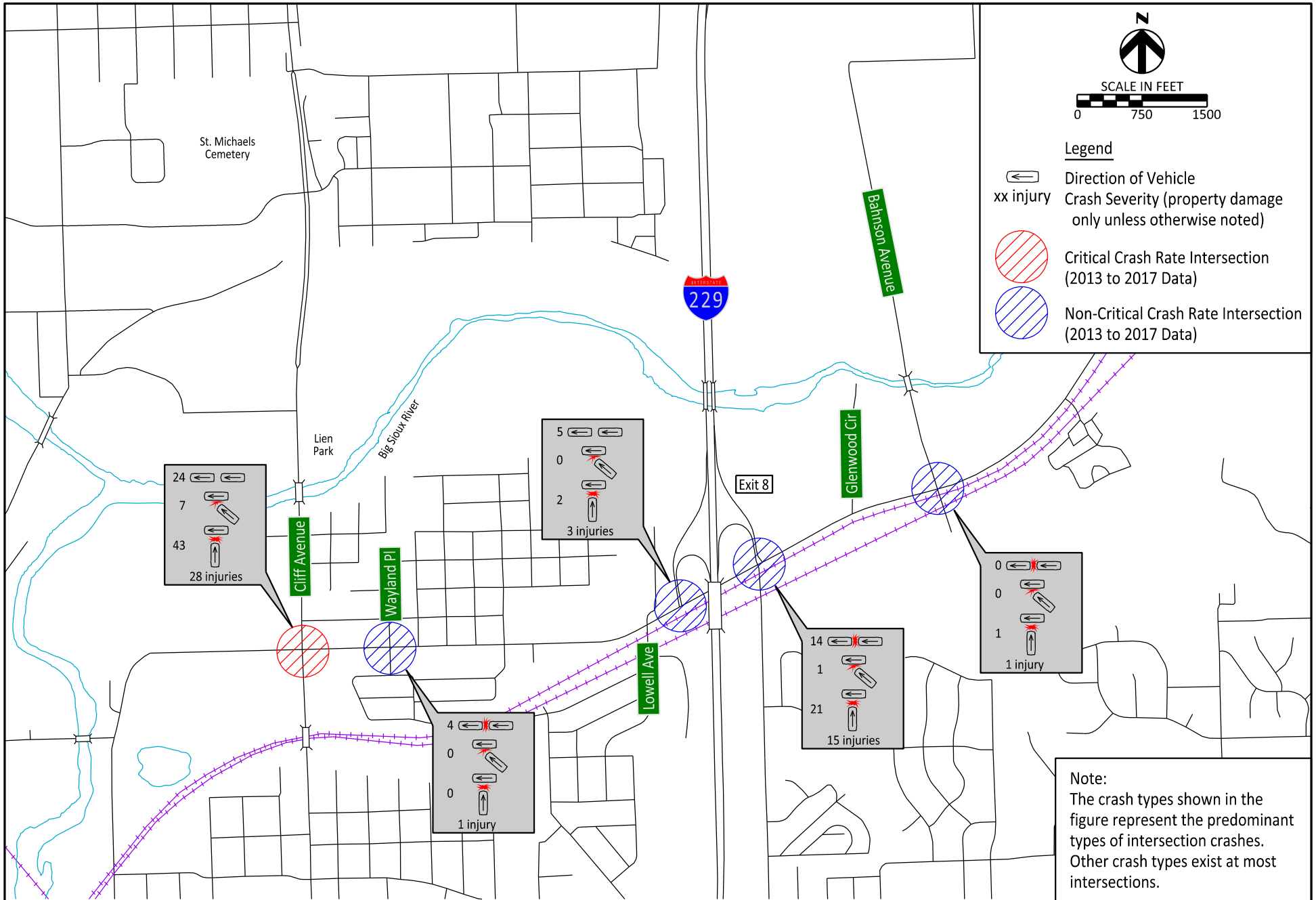


### Benson Road Intersection Crash Summary (See Table 3)

I-229 Exit 9 (Benson Road) Interchange Modification Study

Sioux Falls, SD





**Note:**  
 The crash types shown in the figure represent the predominant types of intersection crashes. Other crash types exist at most intersections.

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**Rice Street Intersection Crash Summary (See Table 3)**  
 I-229 Exit 9 (Benson Road) Interchange Modification Study

Sioux Falls, SD

Figure  
**10**

**TABLE 3 - INTERSECTION CRASH RATES (2013-2017)**

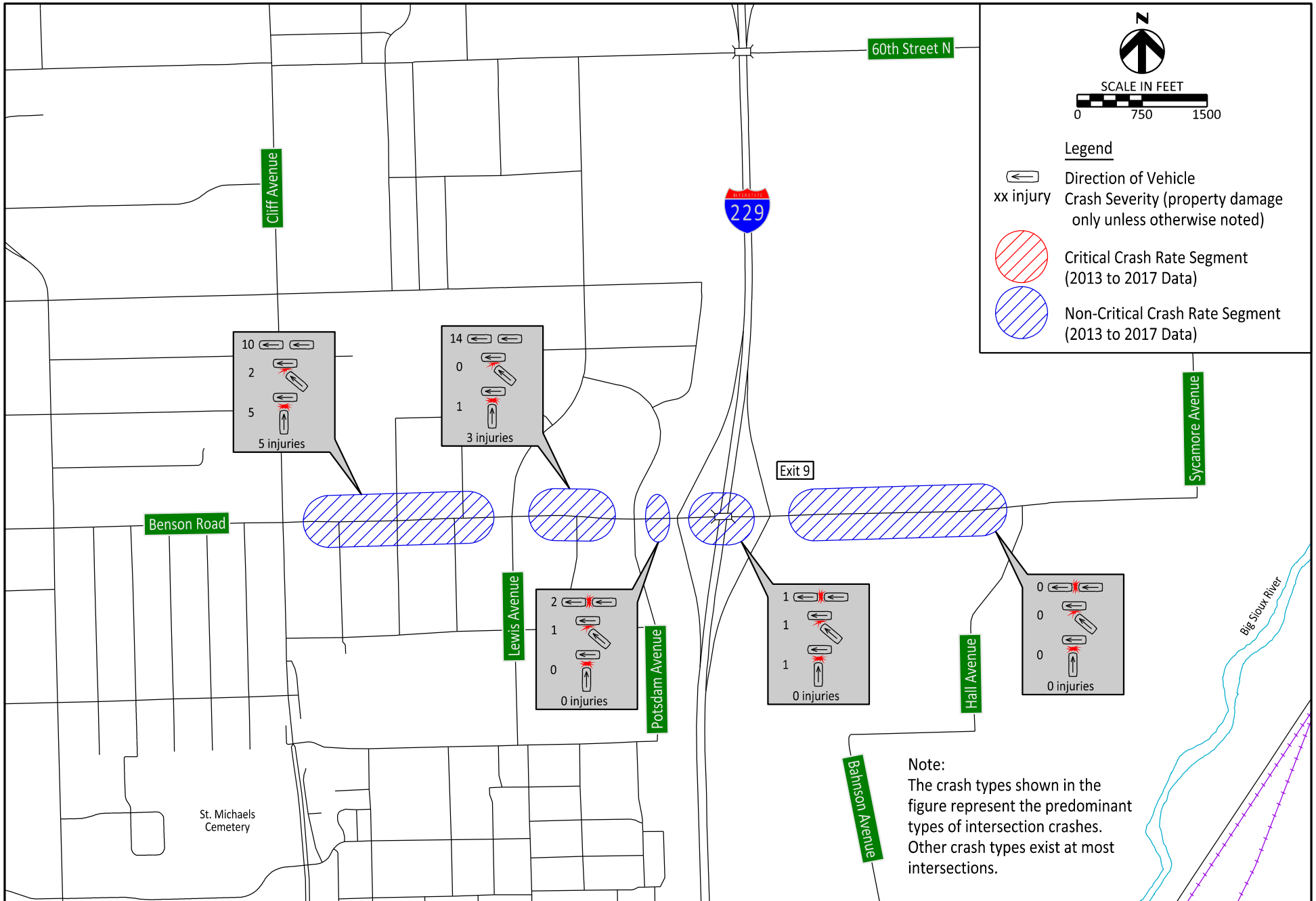
**I-229/BENSON INTERSTATE ACCESS STUDY**

INTERSECTION	NUMBER CRASHES	DAILY VOLUME	MEV <sup>1</sup>	CRASH RATE	TEV*R <sup>2</sup>	CRITICAL RATE	CRASH/CRITICAL RATIO
BENSON/CLIFF	64	25700	46.90	1.36	35068.49	1.10	1.24
BENSON/LEWIS	39	19600	35.77	1.09	21369.86	1.13	0.96
BENSON/POTSDAM	15	16000	29.20	0.51	8219.18	1.16	0.44
BENSON/I-229 SB	9	15600	28.47	0.32	4931.51	1.17	0.27
BENSON/I-229 NB	10	6000	10.95	0.91	5479.45	1.37	0.67
BENSON/HALL	2	1000	1.83	1.10	1095.89	2.27	0.48
RICE/CLIFF	77	27000	49.28	1.56	42191.78	1.09	1.43
RICE/WAYLAND	5	13700	25.00	0.20	2739.73	1.19	0.17
RICE/I-229 SB	7	15400	28.11	0.25	3835.62	1.17	0.21
RICE/I-229 NB	42	21700	39.60	1.06	23013.70	1.12	0.95
RICE/BAHNSON	2	11000	20.08	0.10	1095.89	1.23	0.08
COLUMN TOTAL		172700			149041.10		
WEIGHTED AVERAGE RATE				0.86			

<sup>1</sup>MEV = MILLION ENTERING VEHICLES

<sup>2</sup>TEV\*R = TOTAL ENTERING VEHICLES TIMES CRASH RATE

SOURCE: HIGHWAY SAFETY MANUAL, FIRST EDITION, 2010, AASHTO



**Legend**

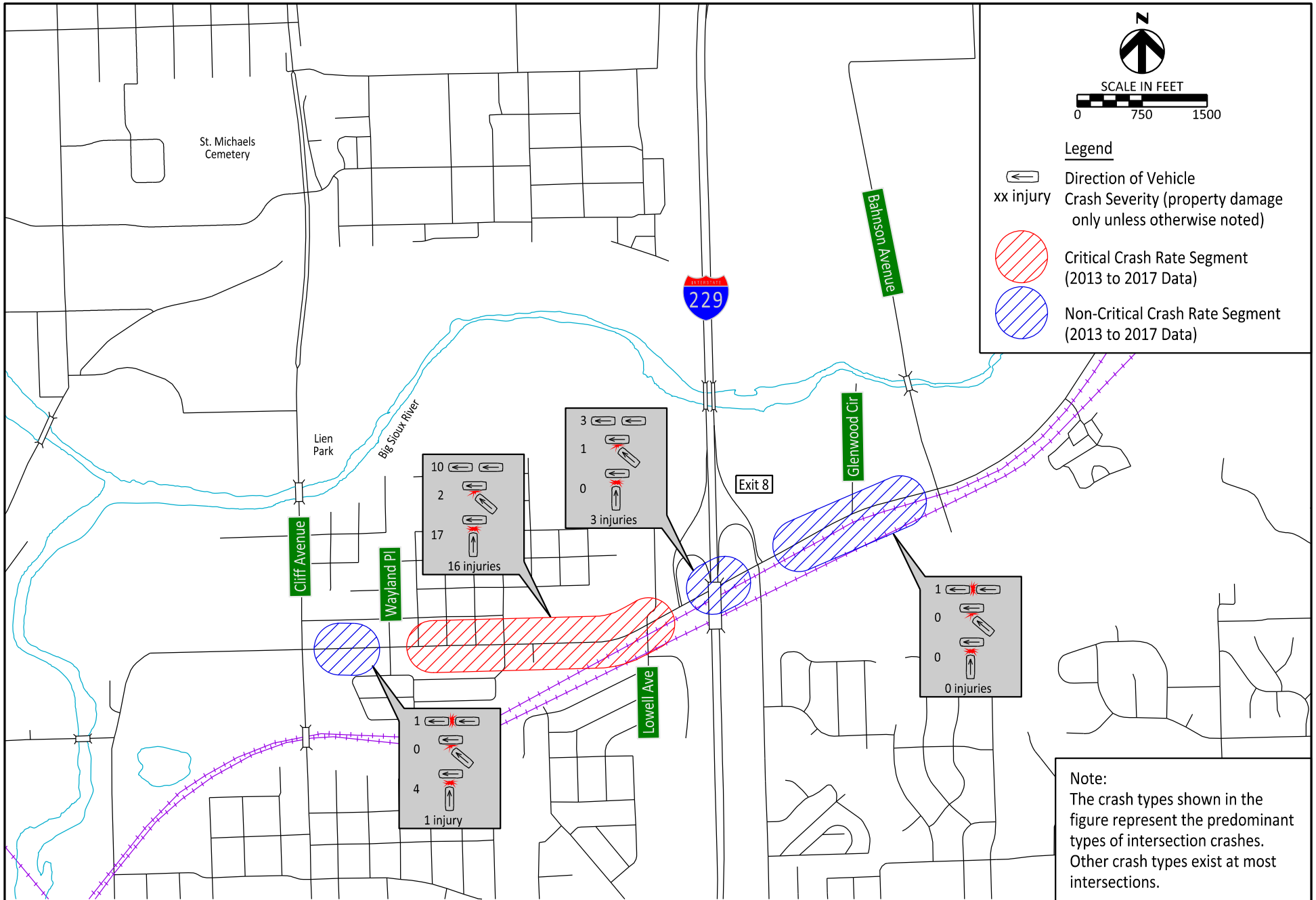
- Direction of Vehicle
- xx injury
- Crash Severity (property damage only unless otherwise noted)
- Critical Crash Rate Segment (2013 to 2017 Data)
- Non-Critical Crash Rate Segment (2013 to 2017 Data)

Note:  
 The crash types shown in the figure represent the predominant types of intersection crashes. Other crash types exist at most intersections.

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 Date: 2/28/2018  
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**Benson Road Arterial Street Segment Crash Summary (See Table 4)**  
 I-229 Exit 9 (Benson Road) Interchange Modification Study



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**Rice Street**  
**Arterial Street Segment Crash Summary (See Table 4)**

I-229 Exit 9 (Benson Road) Interchange Modification Study

Sioux Falls, SD

Figure  
**12**

**TABLE 4 - ARTERIAL SEGMENT CRASH RATES (2013-2017)**

I-229/BENSON RD IMJR

SEGMENT	NUMBER CRASHES	SEGMENT LENGTH	DAILY VOLUME	MVMT <sup>1</sup>	CRASH RATE	TEV*R <sup>2</sup>	CRITICAL RATE	CRASH/CRITICAL RATIO
BENSON: CLIFF TO LEWIS	19	0.501	12,200	11.15	1.70	20780.36	2.23	0.76
BENSON: LEWIS TO POTSDAM	15	0.267	14,900	7.26	2.07	30783.44	2.40	0.86
BENSON: POTSDAM TO I-229 SB	3	0.093	14,900	2.53	1.19	17675.65	3.07	0.39
BENSON: I-229 SB TO I-229 NB	3	0.200	14,900	5.44	0.55	8219.18	2.55	0.22
BENSON: I-229 NB TO HALL	1	0.551	1,000	1.01	0.99	994.46	4.12	0.24
RICE: CLIFF TO WAYLAND	5	0.193	12,700	4.47	1.12	14195.47	2.66	0.42
RICE: WAYLAND TO I-229 SB	46	0.655	11,600	13.87	3.32	38481.65	2.16	1.54
RICE: I-229 SB TO I-229 NB	12	0.192	13,900	4.87	2.46	34246.58	2.61	0.94
RICE: I-229 NB TO BAHNSON	2	0.429	10,800	8.46	0.24	2554.52	2.34	0.10
COLUMN TOTALS			106900			167931.30		
WEIGHTED AVERAGE RATE					1.57			

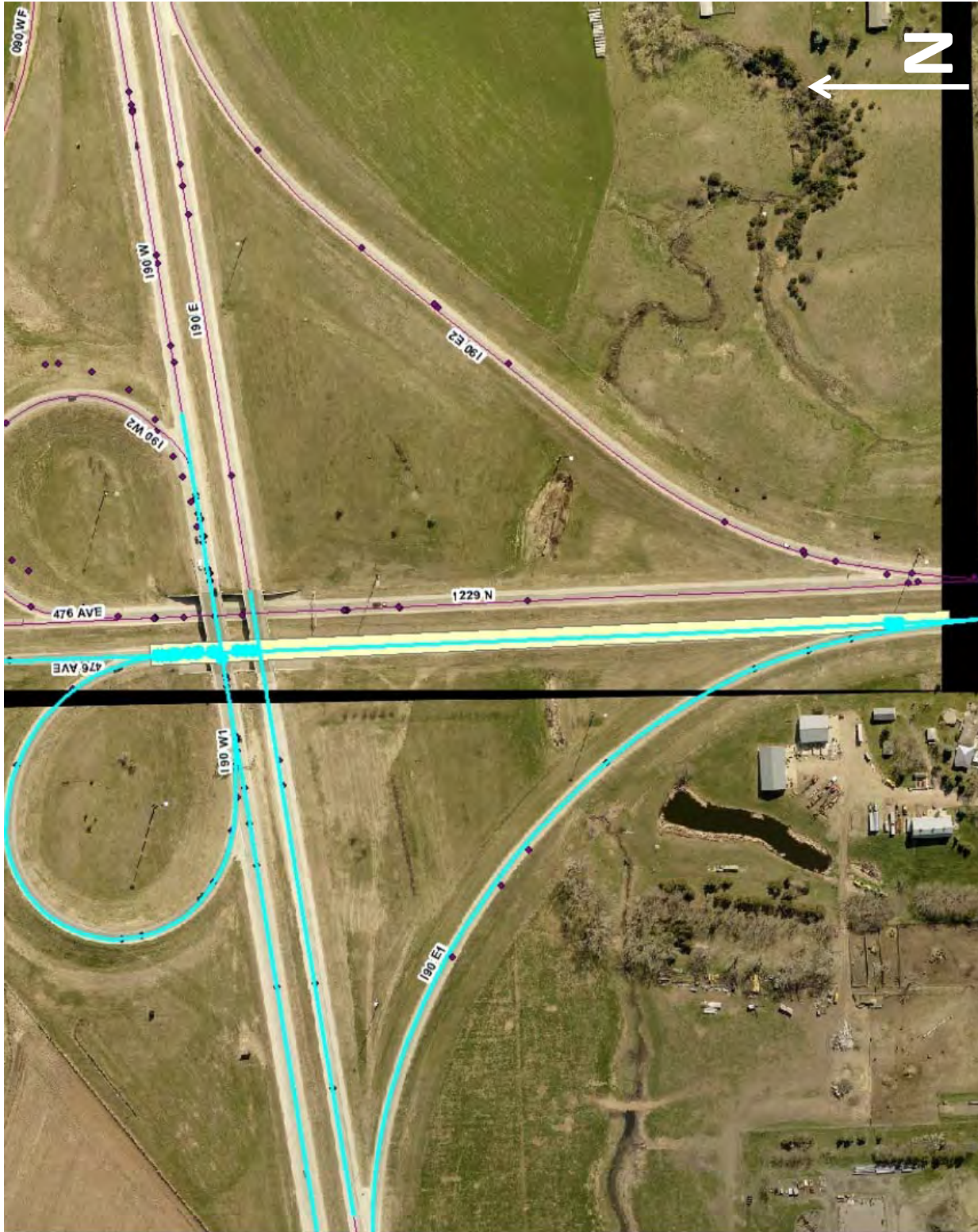
<sup>1</sup>MVMT=MILLION VEHICLE MILES TRAVELED

<sup>2</sup>TEV\*R = TOTAL ENTERING VEHICLES PER DAY, TIMES OBSERVED CRASH RATE

## **APPENDIX**

Interstate Segment Crash Maps  
Interstate Ramp Crash Maps  
Arterial Intersection Crash Diagrams  
Arterial Segment Crash Maps

# **INTERSTATE SEGMENT CRASH MAPS**



Segment Crash Map – I-229 SB from I-90 WB to I-90 EB

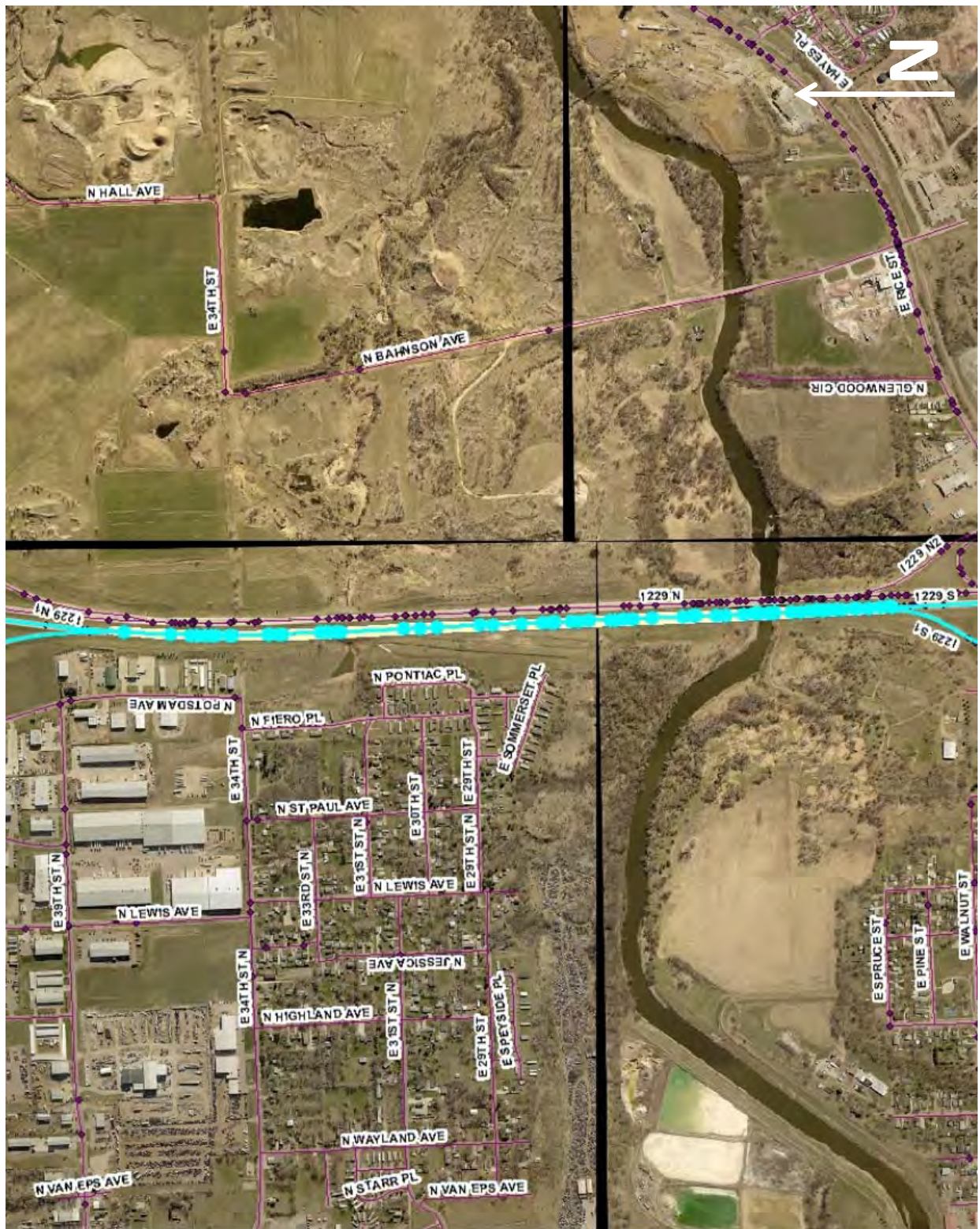




**Segment Crash Map – I-229 SB from I-90 EB to Benson Rd.**



Segment Crash Map – I-229 SB from Benson off to Benson on



Segment Crash Map – I-29 SB from Benson to Rice



**Segment Crash Map – I-229 NB from Rice off to Rice on**



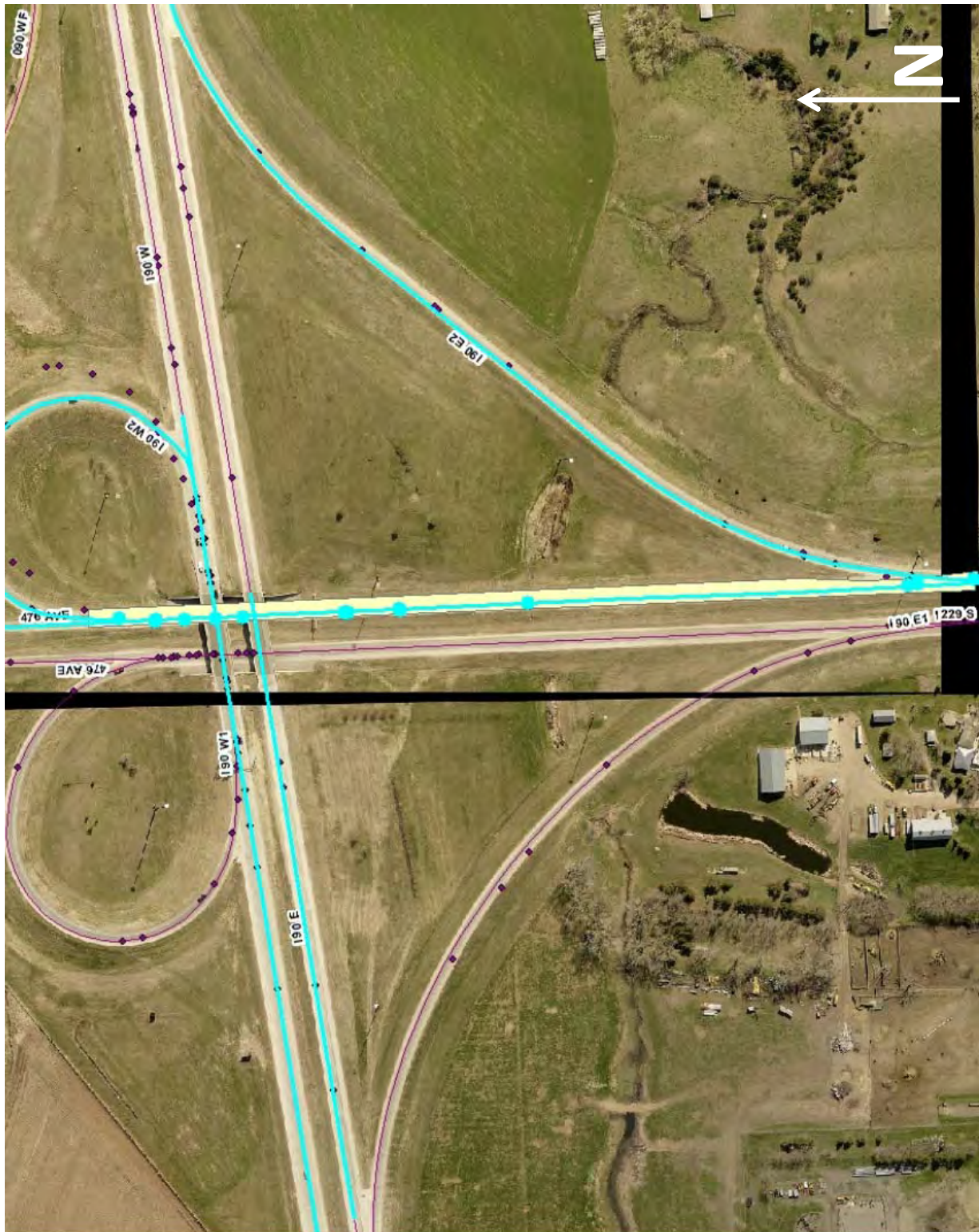
Segment Crash Map – I-229 NB from Rice to Benson



Segment Crash Map – I-229 NB from Benson off to Benson on



**Segment Crash Map – I-229 NB from Benson to I-90 EB**



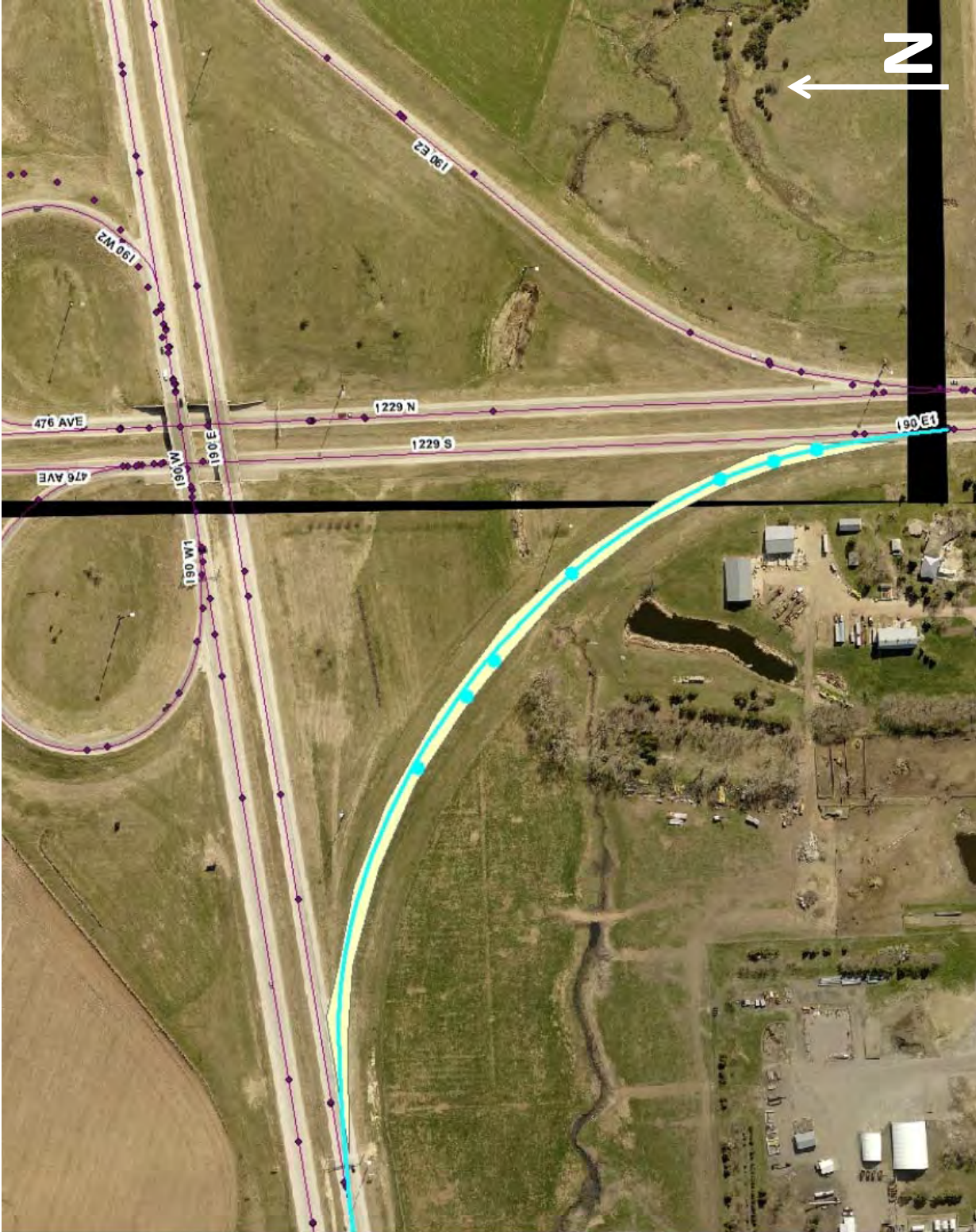
Segment Crash Map – I-229 NB from I-90 EB to I-90 WB



# **INTERSTATE RAMP CRASH MAPS**



**Ramp Crash Map – I-90 WB to I-229 SB**



Ramp Crash Map – I-90 EB to I-229 SB



Ramp Crash Map – I-229 SB/Benson off





Ramp Crash Map – I-229 SB/Rice off



Ramp Crash Map – I-229 SB/Rice on



Ramp Crash Map – I-229 NB/Rice off





Ramp Crash Map – I-229 NB/Rice on



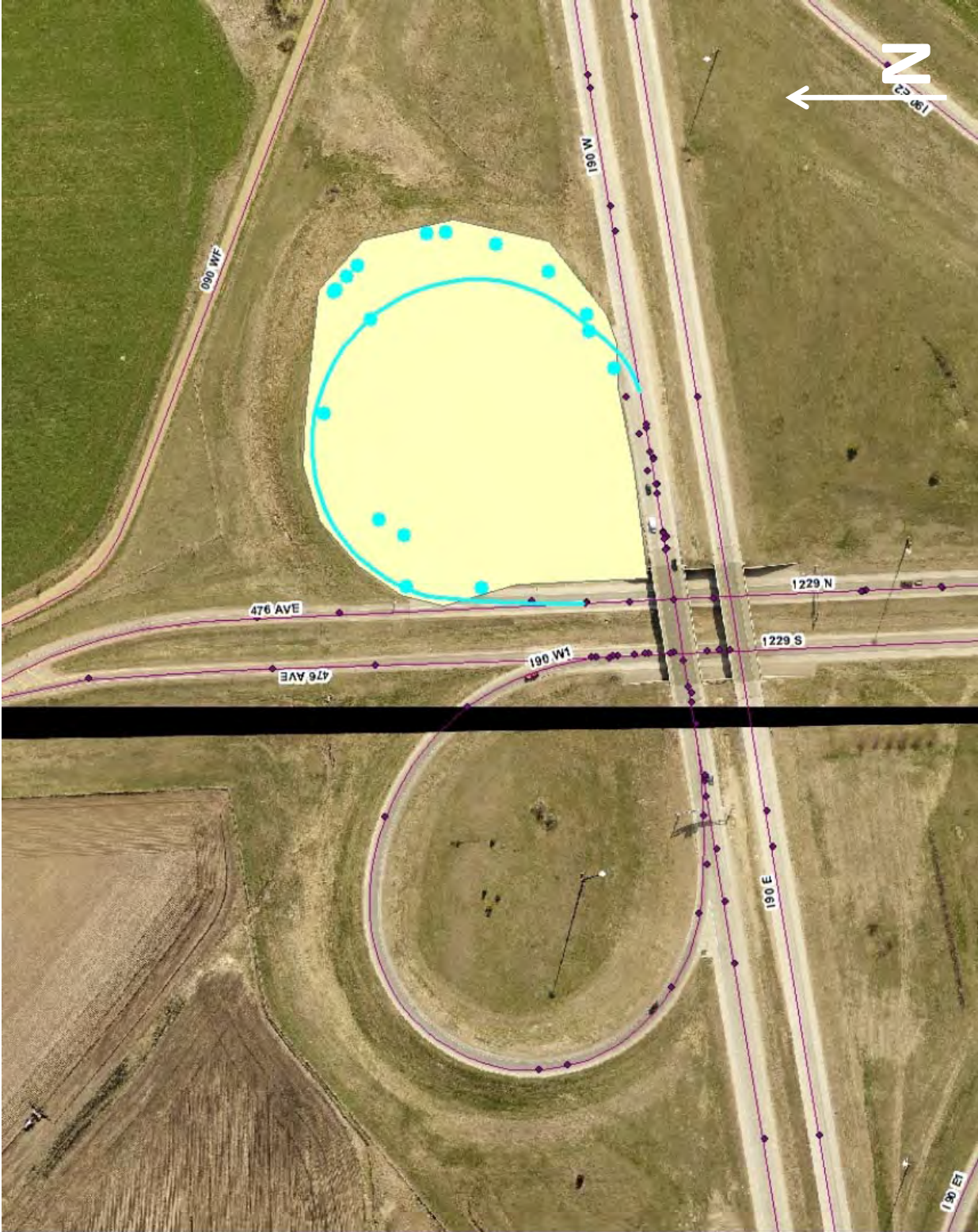
Ramp Crash Map – I-229 NB/Benson off



Ramp Crash Map – I-229 NB/Benson on



Ramp Crash Map – I-229 NB to I-90 EB



Ramp Crash Map – I-229 NB to I-90 EB

# **ARTERIAL INTERSECTION CRASH DIAGRAMS**



P R ○ 04/26/13 13:58 D 1304666
P P ○ 10/05/13 11:07 D 1311200
P P ○ 02/06/14 17:00 D 1401979
P P ⊗ 05/13/14 17:43 D 1405849
P P ○ 06/14/14 16:23 W 1407215
P P ⊗ 02/20/15 11:47 D 1503358
P P ○ 03/31/15 14:36 D 1504644
P P ○ 07/27/15 14:19 D 1509669
P P ⊗ 07/31/15 15:50 D 1509959

P P ○ 09/02/15 12:09 D 1511050
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P P ⊗ 02/14/14 23:06 D 1402195
P P ○ 07/01/14 12:22 D 1408217
P T ○ 07/16/15 15:52 D 1509492
P P ○ 10/04/15 03:20 D 1512983
P P ○ 12/03/15 06:35 D 1517447
R P ○ 09/07/16 16:36 D 1610854
P P ⊗ 09/26/17 21:24 D 1712504
M P ⊗ 11/08/17 13:07 D 1716184

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D - Dry	
W - Wet	
S - Winter	
O - Other	

Drugs	T-Truck
Alcohol	M-Motorcycle
Distracted	P-Passenger
Speed	A-ATV
Fatigue	R-Tractor
Work Zone	E-Equipment
	B-Bicycle
	L-Railway

P P ⊗ 11/19/13 22:55 D 1314155
P P ⊗ 12/03/13 04:13 D 1314889
T P ⊗ 03/20/14 22:10 + 1 D 1403898
P R ⊗ 05/19/14 00:48 D 1406207
P P ⊗ 06/13/14 23:04 D 1407151
P P ○ 03/13/15 22:31 D 1504248
P P ⊗ 08/14/15 16:10 D 1510804
P P ○ 05/24/17 07:37 D 1706129
P P ○ 06/08/17 23:40 D 1706864
P P ○ 07/26/17 04:33 + 1 W 1709283

P P ○ 10/12/15 14:20 D 1512664
P P ⊗ 03/14/16 11:21 D 1603835
P P ○ 08/09/16 17:59 D 1609452
P P ○ 09/21/16 15:23 D 1611483
P T ○ 10/14/17 10:20 D 1713373
P P ○ 12/21/17 11:37 S 1717906

P P ○ 12/13/13 18:00 + 1 S 1316093
P P ⊗ 12/30/13 11:11 S 1316666
P P ⊗ 02/10/15 12:34 W 1503234
P P ○ 07/16/15 15:55 D 1509491

BENSON RD E and CLIFF AVE N



<i>RR</i> 11/07/15 03:40 <b>D</b> 1513734
<i>RP</i> 12/06/15 15:27 <b>D</b> 1517516
<i>PP</i> 05/03/16 23:11 <b>D</b> 1604936
<i>PP</i> 07/30/16 14:52 <b>D</b> 1609047
<i>PR</i> 08/29/16 15:29 <b>D</b> 1610492
<i>PP</i> 10/23/16 14:44 <b>D</b> 1613185
<i>PP</i> 08/27/17 08:48 <b>D</b> 1710873
<i>PP</i> 08/31/17 14:31 <b>D</b> 1711095
<i>PP</i> 11/15/17 16:49 <b>D</b> 1715599

<i>TP</i> 11/15/17 17:04 <b>D</b> 1715600
--

<i>PP</i> 09/28/17 11:28 <b>D</b> 1712526
<i>PP</i> 10/30/17 16:10 <b>D</b> 1714298

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D - Dry	
W - Wet	
S - Winter	
O - Other	

Drugs	T - Truck
Alcohol	M - Motorcycle
Distracted	P - Passenger
Speed	A - ATV
Fatigue	R - Tractor
Work Zone	E - Equipment
	B - Bicycle
	L - Railway

BENSON RD E and CLIFF AVE N







P P 12/29/17 09:52  
 S 1718346

- Vehicle Path
- U Turn
- Parked Vehicle
- Unknown dir.
- Backing Vehicle
- Ran off road
- Rear End
- More Units
- Head On
- Pedestrian
- Sideswipe
- Fixed Object
- Left Turn
- Wild Animal
- Right Turn

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li> PDO</li> <li> Injury</li> <li> Fatal</li> </ul>                       | <ul style="list-style-type: none"> <li> Clear</li> <li> Cloudy</li> <li> Fog</li> <li> Rain</li> <li> Snow</li> <li> Wind</li> </ul> |
| <ul style="list-style-type: none"> <li>D- Dry</li> <li>W- Wet</li> <li>S- Winter</li> <li>O- Other</li> </ul> |  |

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li> Drugs</li> <li> Alcohol</li> <li> Distracted</li> <li> Speed</li> <li> Fatigue</li> <li> Work Zone</li> </ul> | <ul style="list-style-type: none"> <li>T -Truck</li> <li>M-Motorcycle</li> <li>P -Passenger</li> <li>A-ATV</li> <li>R-Tractor</li> <li>E -Equipment</li> <li>B-Bicycle</li> <li>L -Railway</li> </ul> |
|---|---|

BENSON RD E and CLIFF AVE N

P O 07/25/15 23:59 W 1509847	P P O 02/06/15 10:47 W 1503175	P P O 03/06/15 07:19 D  1504460	↑ P P O 06/03/16 12:24 D 1606477	↑ P P O 06/01/17 14:04 D 1706511
P P O 12/11/17 15:38 D 1717310	P P O 05/12/14 16:33 W 1406018	P P O 12/03/15 12:09 D 1517452	P P O 07/07/17 20:12 D 1708317	

P P O 04/24/14 08:04 W 1405242	→ P P O 11/11/16 18:18 D 1614537	P P O 02/16/17 12:11 D 1704569	↑ P R O 05/01/17 05:25 S 1705122
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Vehicle Path Parked Vehicle Backing Vehicle Rear End Head On Sideswipe Left Turn Right Turn	U Turn Unknown dir. Ran off road More Units Pedestrian Fixed Object Wild Animal	PDO Injury Fatal  D - Dry W - Wet S - Winter O - Other	Clear Cloudy Fog Rain Snow Wind	Drugs Alcohol Distracted Speed Fatigue Work Zone	T - Truck M - Motorcycle P - Passenger A - ATV R - Tractor E - Equipment B - Bicycle L - Railway
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P  01/17/14 18:13 W  1402794
P  02/29/16 17:59 S 1603124
P  12/14/16 23:10 D  1616663
P P  02/25/13 12:33 D 1302218
P P  04/14/14 06:38 D  1404769
T T  06/22/16 16:34 D  1607184
P P  12/12/16 15:39 D 1616524
T T  01/30/17 15:03 D 1705194

P P  01/22/13 07:40 S 1301377
P T  05/22/14 16:20 D 1406273
P P  08/24/17 05:53 D 1710647
P P  09/20/17 18:22 D 1712168
P P  11/20/17 17:52 D 1716013

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind

D - Dry	T - Truck
W - Wet	M - Motorcycle
S - Winter	P - Passenger
O - Other	A - ATV
	R - Tractor
	E - Equipment
	B - Bicycle
	L - Railway

R  02/16/15 09:21 D 1502855
P T  08/07/13 07:43 D 1308892
P P  05/22/14 17:16 D 1406469
P P  11/14/14 05:59 D 1416443
P P  12/19/14 08:03 W 1417542
P P  04/07/15 10:07 W 1504839
P P  08/24/15 16:55 D 1510966
P P  02/11/16 07:51 D 1602574
P P  12/02/16 19:17 D 1615943
P P  01/10/17 06:52 S 1700533

P P  10/24/13 15:38 D 1312276
P P  02/05/14 17:13 D 1401955
R P  12/23/15 09:05 W 1517705

BENSON RD E and LEWIS AVE N



P P  06/07/17 17:12
1  D 1709379
P P  10/05/17 07:31
D 1712896
P P  11/22/17 07:02
D 1716028
P P  12/27/17 07:14
D 1718269

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D- Dry	
W- Wet	
S- Winter	
O- Other	

Drugs	T -Truck
Alcohol	M-Motorcycle
Distracted	P-Passenger
Speed	A-ATV
Fatigue	R-Tractor
Work Zone	E-Equipment
	B-Bicycle
	L -Railway

BENSON RD E and LEWIS AVE N

← T ○ 03/03/14 10:48 D 1403118	← P ⊗ 04/01/17 06:47 D 1703917	← P P ○ 06/08/16 07:55 D 1606511	↓ P P ○ 01/06/16 17:27 W 1601287	↑ B P ⊗ 09/25/17 06:25 W 1712409
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← → P P ○ 08/06/13 16:53 + 1 D 1308885	← → P P ○ 10/24/13 17:18 D 1312278	← → P P ○ 11/03/13 17:46 D 1313731	↙ → P P ○ 05/31/16 16:47 D 1606127
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<ul style="list-style-type: none"> <li>← Vehicle Path</li> <li>▢ Parked Vehicle</li> <li>↔ Backing Vehicle</li> <li>←  Rear End</li> <li>→  Head On</li> <li>↔ Sideswipe</li> <li>↙ Left Turn</li> <li>↘ Right Turn</li> </ul>	<ul style="list-style-type: none"> <li>↻ U Turn</li> <li>▢ Unknown dir.</li> <li>↘ Ran off road</li> <li>+ More Units</li> <li>🚶 Pedestrian</li> <li>▢ Fixed Object</li> <li>🐾 Wild Animal</li> </ul>	<ul style="list-style-type: none"> <li>○ PDO</li> <li>⊗ Injury</li> <li>● Fatal</li> </ul>	<ul style="list-style-type: none"> <li>☀ Clear</li> <li>☁ Cloudy</li> <li>🌫 Fog</li> <li>🌧 Rain</li> <li>❄ Snow</li> <li>🌬 Wind</li> </ul>	<ul style="list-style-type: none"> <li>🚫 Drugs</li> <li>🚫 Alcohol</li> <li>📱 Distracted</li> <li>🚫 Speed</li> <li>🧑 Fatigue</li> <li>🚧 Work Zone</li> </ul>	<ul style="list-style-type: none"> <li>T - Truck</li> <li>M - Motorcycle</li> <li>P - Passenger</li> <li>A - ATV</li> <li>R - Tractor</li> <li>E - Equipment</li> <li>B - Bicycle</li> <li>L - Railway</li> </ul>
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P P 09/15/15 16:48  
 D 1511651

07/11/16 14:03  
 D 1609708  
 P P 05/23/13 12:48  
 1 D 1305651  
 P R 01/30/14 08:05  
 S 1401629  
 P P 08/21/15 07:00  
 D 1510758  
 P P 02/09/16 17:05  
 D 1602406  
 P P 06/23/16 16:36  
 D 1607426  
 P P 09/07/16 07:58  
 W 1610845

P P 10/02/15 08:09  
 D 1512418  
 P P 12/22/15 11:23  
 D 1517686  
 P P 08/14/17 17:11  
 D 1710203

P P 05/24/13 15:38  
 W 1305664  
 P P 09/17/13 17:42  
 1 D 1310423  
 P P 12/03/13 16:17  
 W 1314891  
 P P 05/20/14 17:24  
 D 1406241

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind

D - Dry	
W - Wet	
S - Winter	
O - Other	

Drugs	T - Truck
Alcohol	M - Motorcycle
Distracted	P - Passenger
Speed	A - ATV
Fatigue	R - Tractor
Work Zone	E - Equipment
	B - Bicycle
	L - Railway

BENSON RD E and POTSDAM AVE N



M  07/18/14 12:01	D 1408779
P P  10/18/13 07:25	D  1311812
P P  03/05/14 07:28	S 1403417
P P  05/23/17 08:16	W 1706300
P P  10/10/17 07:48	D 1713241

P P  10/24/17 07:02	D 1714082
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Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

T P  06/10/14 16:59	D 1406931
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P P  04/28/17 17:12	D 1705003
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PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D- Dry	
W- Wet	
S- Winter	
O- Other	

Drugs	T -Truck
Alcohol	M-Motorcycle
Distracted	P-Passenger
Speed	A-ATV
Fatigue	R-Tractor
Work Zone	E-Equipment
	B-Bicycle
	L-Railway

P P  08/29/17 06:58	D 1711411
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BENSON RD E and I 229 S1





*RP* ○ 07/23/13 09:20  
**D** 1308386



- ← Vehicle Path
- Parked Vehicle
- ↔ Backing Vehicle
- ←| Rear End
- ↔ Sideswipe
- ↓ Left Turn
- ↖ Right Turn
- ↺ U Turn
- Unknown dir.
- Ran off road
- More Units
- Pedestrian
- Fixed Object
- Wild Animal

*PP* ⊗ 06/14/13 06:16  
 1 **D** 1306726

*PP* ○ 02/03/15 16:51  
**D** 1502786

*PP* ○ 06/29/15 14:42  
**D** 1508806

*PP* ○ 03/29/16 16:54  
**W** 1603702

*R* ○ 04/11/16 15:01  
**D** 1613847

*PP* ○ 08/03/15 12:42  
**D** 1510097

- |   |  |
|---|--|
| PDO<br>Injury<br>Fatal                    | Clear<br>Cloudy<br>Fog<br>Rain<br>Snow<br>Wind |
| D- Dry<br>W- Wet<br>S- Winter<br>O- Other |  |

- |   |   |
|---|---|
| Drugs<br>Alcohol<br>Distracted<br>Speed<br>Fatigue<br>Work Zone | T -Truck<br>M-Motorcycle<br>P-Passenger<br>A-ATV<br>R-Tractor<br>E-Equipment<br>B-Bicycle<br>L -Railway |
|---|---|

*RP* ○ 03/25/14 11:55  
**D** 1403932

*PP* ⊗ 02/10/16 08:02  
 1 **S** 1602443

*PP* ○ 10/09/17 17:21  
**D** 1713063

BENSON RD E and I 229 N1







→ P ○ 01/26/13 12:51

→ P D 1301241

→ P ⊗ 04/01/16 08:51

→ P O 1604054

← Vehicle Path	↺ U Turn
▢ Parked Vehicle	▢ Unknown dir.
↔ Backing Vehicle	↘ Ran off road
←  Rear End	+ More Units
→← Head On	🚶 Pedestrian
↺ Sideswipe	▢ Fixed Object
↓ Left Turn	🐾 Wild Animal
↻ Right Turn	

- PDO
- ⊗ Injury
- Fatal

- ☀ Clear
- ☁ Cloudy
- 🌫 Fog
- 🌧 Rain
- ❄ Snow
- 🌬 Wind

- D- Dry
- W- Wet
- S- Winter
- O- Other

- 💊 Drugs
- 🍷 Alcohol
- 📱 Distracted
- 🏎 Speed
- 😴 Fatigue
- 🚧 Work Zone

- T -Truck
- M-Motorcycle
- P -Passenger
- A-ATV
- R-Tractor
- E-Equipment
- B-Bicycle
- L -Railway

BENSON RD E and HALL AVE N



PP  06/26/13 17:41 D 1308370
PP  07/30/14 07:14 D 1410680
PP  09/03/14 08:13 D  1412213
PR  10/13/14 10:09 D 1414065
PP  01/07/15 08:51 S 1501672
PP  02/12/15 17:26 D 1503346
PP  07/09/15 16:50 +1  1509012
PP  09/04/15 14:40 D 1511274
PP  02/05/16 17:20 D 1602250

PP  09/14/16 08:45 D 1611253
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PP  01/22/13 15:57 D 1300957
PP  08/13/13 07:29 D 1309234
RP  11/06/13 04:54 S 1312888
PP  11/08/13 01:18 D 1313488
PP  02/12/14 15:20 D 1403392
RP  02/14/14 04:44 S 1402176
PP  04/09/14 01:44 D 1404582
PP  06/16/14 07:50 D 1407228
PP  10/25/14 00:28 D 1414619
PP  12/29/14 18:54 D 1417431

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D - Dry	
W - Wet	
S - Winter	
O - Other	

Drugs	T - Truck
Alcohol	M - Motorcycle
Distracted	P - Passenger
Speed	A - ATV
Fatigue	R - Tractor
Work Zone	E - Equipment
	B - Bicycle
	L - Railway

PP  11/15/13 16:48 +1  1313900
PP  12/31/13 14:36 S 1316694
PP  04/11/14 00:00 D 1406015
PP  11/11/14 15:17 D 1417094
PP  08/10/15 17:57 D 1511201
PP  12/16/15 02:51 S  1516280
PP  12/16/15 02:51 S  1518103
RP  12/28/15 16:18 S 1517770
PP  02/24/16 02:09 D  1602927
PP  02/24/16 02:09 D  1602981

PP  10/27/13 07:52 D 1312297
PP  02/26/14 07:58 D 1402715
PM  07/29/14 12:40 D 1412199
PP  10/06/14 06:20 D 1413761
PP  10/09/15 21:59 +1    1512752
PP  10/09/15 21:59 +1    1518086

PP  06/27/13 13:37 D 1307092
PP  08/13/13 14:43 D 1309238
PP  08/14/13 11:53 D   1309244
PP  10/14/13 16:56 W 1311567

CLIFF AVE N and RICE ST E



P P  10/25/16 15:11 D  1613317
P P  12/17/16 20:17 S 1616886
P P  06/15/17 19:04 1  D 1707243
P P  12/19/17 17:18 D 1717880

P P  10/20/16 01:19 D 1613028
P P  02/22/17 04:15 D 1705490
P P  10/03/17 02:54 W 1712870

P P  08/02/15 22:21 D 1510091
P P  08/22/15 05:27 D 1510956
P P  08/28/15 03:00 W 1510979
P P  01/21/16 04:59 W 1602103
T T  12/08/16 15:19 D 1616365
P P  03/04/17 06:39 D  1702789
P P  04/24/17 15:16 D 1704897
P P  04/29/17 14:55 D  1705045
P P  05/26/17 13:44 D  1706238
P P  09/26/17 22:02 D 1715272

P P  08/27/16 04:46 W 1610436
P P  01/11/17 07:37 W 1700554
P P  01/27/17 16:07 W 1701267
P P  02/23/17 15:55 S  1702412
P P  03/27/17 08:24 D 1703715
P P  09/18/17 17:55 D  1712006

P P  12/04/15 17:47 W 1517509
P P  01/19/16 17:36 S 1601694
P P  04/25/16 14:46 D  1604661
P P  06/30/16 17:55 D 1608266

Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D - Dry	
W - Wet	
S - Winter	
O - Other	

Drugs	T - Truck
Alcohol	M - Motorcycle
Distracted	P - Passenger
Speed	A - ATV
Fatigue	R - Tractor
Work Zone	E - Equipment
	B - Bicycle
	L - Railway

CLIFF AVE N and RICE ST E



← Vehicle Path	↻ U Turn
▢ Parked Vehicle	▢ Unknown dir.
↔ Backing Vehicle	↘ Ran off road
←  Rear End	+ More Units
→← Head On	🚶 Pedestrian
↺ Sideswipe	▢ Fixed Object
↙ Left Turn	🐾 Wild Animal
↘ Right Turn	

○ PDO	☀ Clear
⊗ Injury	☁ Cloudy
● Fatal	🌫 Fog
	🌧 Rain
	❄ Snow
	☁ Wind

D- Dry	T -Truck
W- Wet	M-Motorcycle
S- Winter	P -Passenger
O- Other	A-ATV
	R-Tractor
	E-Equipment
	B-Bicycle
	L -Railway

↑ P P ○ 10/10/17 15:34  
 ↑ ● D 📱 1713246

CLIFF AVE N and RICE ST E

PP  10/21/13 15:58 1  D 1311912	MP  09/25/15 19:46 D 1512226	PR  02/09/17 15:03 D 1701907	PP  10/30/13 17:10 W 1312538	PP  06/02/16 13:56 D 1613699
PP  12/22/17 12:04 W 1717950				

PP  06/10/15 14:32 D 1507854	PP  11/13/15 16:46 D 1515866	PP  04/22/17 17:42 D  1704740	PP  04/24/13 16:45 D 1304539	PP  05/10/16 15:37 D 1605201
PP  10/10/17 15:30 D 1713245				

Vehicle Path Parked Vehicle Backing Vehicle Rear End Head On Sideswipe Left Turn Right Turn	U Turn Unknown dir. Ran off road More Units Pedestrian Fixed Object Wild Animal	PDO Injury Fatal  D - Dry W - Wet S - Winter O - Other	Clear Cloudy Fog Rain Snow Wind	Drugs Alcohol Distracted Speed Fatigue Work Zone	T - Truck M - Motorcycle P - Passenger A - ATV R - Tractor E - Equipment B - Bicycle L - Railway
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P P  02/10/15 17:13
W 1503287
P P  03/18/17 13:26
D 1703434
P P  06/01/17 15:54
D 1706517



Vehicle Path	U Turn
Parked Vehicle	Unknown dir.
Backing Vehicle	Ran off road
Rear End	More Units
Head On	Pedestrian
Sideswipe	Fixed Object
Left Turn	Wild Animal
Right Turn	

PDO	Clear
Injury	Cloudy
Fatal	Fog
	Rain
	Snow
	Wind
D- Dry	
W- Wet	
S- Winter	
O- Other	

Drugs	T -Truck
Alcohol	M-Motorcycle
Distracted	P -Passenger
Speed	A-ATV
Fatigue	R-Tractor
Work Zone	E-Equipment
	B-Bicycle
	L -Railway

RICE ST E and WAYLAND PL N

← ↗ P P ○ 04/09/13 06:19  
 W 1305897

← → P P ○ 02/10/15 17:26  
 W  1503291

← Vehicle Path  
 Parked Vehicle  
 Backing Vehicle  
 Rear End  
 Head On  
 Sideswipe  
 Left Turn  
 Right Turn







↻ U Turn  
 Unknown dir.  
 Ran off road  
 More Units  
 Pedestrian  
 Fixed Object  
 Wild Animal

○ PDO  
 Injury  
 Fatal

---

D - Dry  
W - Wet  
S - Winter  
O - Other

 Clear  
 Cloudy  
 Fog  
 Rain  
 Snow  
 Wind

 Drugs  
 Alcohol  
 Distracted  
 Speed  
 Fatigue  
 Work Zone

T - Truck  
M - Motorcycle  
P - Passenger  
A - ATV  
R - Tractor  
E - Equipment  
B - Bicycle  
L - Railway





	<i>R P</i>		07/08/14 07:30
		D	1407753
	<i>P P</i>		02/17/15 06:01
		S	1503421

		<i>P P</i>		05/17/13 22:05
		D		1305390
		<i>P P</i>		08/08/14 07:55
		D		1410775
		<i>T P</i>		03/28/16 08:28
		D		1603692

		<i>P P</i>		05/28/13 15:54
		D		1305687
		<i>M P</i>		04/06/17 13:10
		D		1704297

	Vehicle Path		U Turn
	Parked Vehicle		Unknown dir.
	Backing Vehicle		Ran off road
	Rear End		More Units
	Head On		Pedestrian
	Sideswipe		Fixed Object
	Left Turn		Wild Animal
	Right Turn		

	PDO		Clear
	Injury		Cloudy
	Fatal		Fog
			Rain
			Snow
			Wind
	D - Dry		
	W - Wet		
	S - Winter		
	O - Other		

	Drugs		T -Truck
	Alcohol		M-Motorcycle
	Distracted		P-Passenger
	Speed		A-ATV
	Fatigue		R-Tractor
	Work Zone		E-Equipment
			B-Bicycle
			L -Railway

RICE ST E and I 229 S1







	<i>R P</i>		07/08/14 07:30
		<b>D</b>	1407753
	<i>P P</i>		02/17/15 06:01
		<b>S</b>	1503421

		<i>P P</i>		05/17/13 22:05
	<b>D</b>			1305390
		<i>P P</i>		08/08/14 07:55
	<b>D</b>			1410775
		<i>T P</i>		03/28/16 08:28
	<b>D</b>			1603692

		<i>P P</i>		05/28/13 15:54
	<b>D</b>			1305687
		<i>M P</i>		04/06/17 13:10
	<b>D</b>			1704297

	Vehicle Path		U Turn
	Parked Vehicle		Unknown dir.
	Backing Vehicle		Ran off road
	Rear End		More Units
	Head On		Pedestrian
	Sideswipe		Fixed Object
	Left Turn		Wild Animal
	Right Turn		

	PDO		Clear
	Injury		Cloudy
	Fatal		Fog
			Rain
			Snow
			Wind

D- Dry  
W- Wet  
S- Winter  
O- Other

	Drugs		T -Truck
	Alcohol		M-Motorcycle
	Distracted		P-Passenger
	Speed		A-ATV
	Fatigue		R-Tractor
	Work Zone		E-Equipment
			B-Bicycle
			L -Railway

RICE ST E and I 229 S2





↓ P ○ 08/25/13 03:43  
 D 1309468

↓ ← P P ○ 11/16/15 17:33  
 W 1516265

↑ ← P P ⊗ 04/09/13 17:31  
 S 1303804

→ ↑ P P ⊗ 07/03/13 13:32  
 D 1308853

↑ ← T P ⊗ 06/17/14 09:00  
 D 1407245

↓ → P P ○ 08/26/14 17:30  
 D 1411977

↑ ← P P ○ 05/08/15 07:51  
 D 1506181

→ P P ○ 05/13/15 12:47  
 → D 1506431

→ ↓ P P ○ 06/23/15 09:43  
 D 1508278

↑ ← P P ⊗ 02/03/17 19:35  
 D 1701636

→ ↓ P P ⊗ 06/03/17 17:31  
 D 1706653

↓ → P P ○ 06/21/17 08:11  
 W 1707559

← T ○ 02/09/15 14:00  
 W 1502920

↓ → P P ⊗ 03/03/13 19:41  
 W 1302441

← → P P ⊗ 09/04/14 07:44  
 D 1413119

↓ → P P ⊗ 04/08/15 15:37  
 D 1504867

← ↓ P P ⊗ 12/27/15 15:05  
 D 1517752

↓ → P P ○ 12/04/17 17:41  
 S 1716845

↑ P P ⊗ 11/26/14 14:39  
 W 1416610

↑ P P ○ 08/13/15 16:22  
 D 1510762

↑ → P P ⊗ 08/14/15 15:31  
 D 1510803

↑ ↓ P P ○ 08/18/16 06:01  
 D 1609938

↑ ↓ P P ○ 08/26/16 05:56  
 D 1610427

↑ P P ○ 10/22/16 15:54  
 D 1613179

↑ P ⊗ 06/21/14 00:00  
 D 1410270

↑ P ○ 02/23/17 13:09  
 D 1702408

↑ ← T P ⊗ 08/13/13 16:48  
 D 1309240

↑ ↑ P P ○ 09/10/13 06:15  
 D 1310970

← Vehicle Path    ↺ U Turn  
 Parked Vehicle    Unknown dir.  
 Backing Vehicle    Ran off road  
 Rear End    More Units  
 Head On    Pedestrian  
 Sideswipe    Fixed Object  
 Left Turn    Wild Animal  
 Right Turn

PDO  
 Injury  
 Fatal

Clear  
 Cloudy  
 Fog  
 Rain  
 Snow  
 Wind

D- Dry  
W- Wet  
S- Winter  
O- Other

Drugs  
 Alcohol  
 Distracted  
 Speed  
 Fatigue  
 Work Zone

T -Truck  
M-Motorcycle  
P-Passenger  
A-ATV  
R-Tractor  
E-Equipment  
B-Bicycle  
L-Railway

RICE ST E and CLEVELAND AVE N



← P P ○ 11/29/17 17:27

● D 1716500

- ← Vehicle Path
- ↻ U Turn
- ▢ Parked Vehicle
- ▢ Unknown dir.
- ↔ Backing Vehicle
- ↘ Ran off road
- ←| Rear End
- ⊕ More Units
- | Head On
- 🚶 Pedestrian
- ↔ Sideswipe
- ▢ Fixed Object
- ↙ Left Turn
- 🐾 Wild Animal
- ↘ Right Turn

- PDO
- ⊗ Injury
- Fatal

- ☀ Clear
- ☁ Cloudy
- 🌫 Fog
- 🌧 Rain
- ❄ Snow
- 🌬 Wind

- D- Dry
- W- Wet
- S- Winter
- O- Other

- 💊 Drugs
- 🍷 Alcohol
- 📱 Distracted
- 🚗 Speed
- 😴 Fatigue
- 🚧 Work Zone

- T -Truck
- M-Motorcycle
- P-Passenger
- A-ATV
- R-Tractor
- E-Equipment
- B-Bicycle
- L-Railway

↙ → P P ⊗ 10/22/17 14:00

● D 1713788

↑ P P ○ 05/18/17 15:39

↑ ☁ ● D 1705969

↑ P P ○ 05/24/17 09:55

↑ ⊕ 1 ● D 1706130

↑ ← P P ○ 06/19/17 05:43

↑ ● D 1707434

↑ P P ○ 06/21/17 07:09

↑ ⊕ 1 🌧 🚗 1707558

RICE ST E and CLEVELAND AVE N



↓ P ○ 08/25/13 03:43  
 ↘ D 1309468

↓ ← P P ○ 11/16/15 17:33  
 W 1516265

↖ ← P P ⊗ 04/09/13 17:31  
 S 1303804

→ ↑ P P ⊗ 07/03/13 13:32  
 D 1308853

↖ ← T P ⊗ 06/17/14 09:00  
 D 1407245

↖ ← P P ○ 05/08/15 07:51  
 D 1506181

↖ ↓ P P ○ 06/23/15 09:43  
 D 1508278

↖ ← P P ⊗ 02/03/17 19:35  
 D 1701636

↖ ↓ P P ⊗ 06/03/17 17:31  
 D 1706653

↖ ← P P ○ 11/29/17 17:27  
 D 1716500

← T ○ 02/09/15 14:00  
 W 1502920

↖ → P P ⊗ 03/03/13 19:41  
 W 1302441

← | P P ○ 03/21/13 14:22  
 D 1303192

← | P P ⊗ 09/04/14 07:44  
 D 1413119

↖ → P P ⊗ 04/08/15 15:37  
 D 1504867

← ↓ P P ⊗ 12/27/15 15:05  
 D 1517752

↖ → P P ○ 12/04/17 17:41  
 S 1716845

← Vehicle Path    ↺ U Turn  
 ▢ Parked Vehicle    🚗 Unknown dir.  
 ↔ Backing Vehicle    🚗 Ran off road  
 ← | Rear End    + More Units  
 → ← Head On    🚶 Pedestrian  
 ↔ Sideswipe    🚚 Fixed Object  
 ↙ Left Turn    🐾 Wild Animal  
 ↘ Right Turn

○ PDO  
 ⊗ Injury  
 ● Fatal

☀ Clear  
 ☁ Cloudy  
 🌫 Fog  
 🌧 Rain  
 ❄ Snow  
 🌬 Wind

D- Dry  
 W- Wet  
 S- Winter  
 O- Other

💊 Drugs  
 🍷 Alcohol  
 📱 Distracted  
 ⚡ Speed  
 😴 Fatigue  
 🚧 Work Zone

T -Truck  
 M-Motorcycle  
 P-Passenger  
 A-ATV  
 R-Tractor  
 E-Equipment  
 B-Bicycle  
 L-Railway

↑ P P ○ 08/13/15 16:22  
 T D 1510762

↑ ↘ P P ○ 08/18/16 06:01  
 D 1609938

↖ ↘ P P ○ 08/26/16 05:56  
 D 1610427

↑ P P ○ 10/22/16 15:54  
 T D 1613179

↑ P P ○ 05/18/17 15:39  
 T D 1705969

↑ P P ○ 05/24/17 09:55  
 T + 1 D 1706130

↑ P ○ 02/23/17 13:09  
 ↘ D 🍷 1702408

↑ ← T P ⊗ 08/13/13 16:48  
 D 1309240

↑ ↖ P P ○ 09/10/13 06:15  
 D 1310970

↑ P P ⊗ 11/26/14 14:39  
 T W 1416610

RICE ST E and I 229 N2



← Vehicle Path	↻ U Turn
▢ Parked Vehicle	⊠ Unknown dir.
↔ Backing Vehicle	↘ Ran off road
←  Rear End	+ More Units
→← Head On	🚶 Pedestrian
↺ Sideswipe	▢ Fixed Object
↙ Left Turn	🐾 Wild Animal
↘ Right Turn	

○ PDO	☀ Clear
⊗ Injury	☁ Cloudy
● Fatal	🌫 Fog

D- Dry	🌧 Rain
W- Wet	❄ Snow
S- Winter	☁ Wind
O- Other	

💊 Drugs	T -Truck
🍷 Alcohol	M-Motorcycle
📱 Distracted	P-Passenger
🚗 Speed	A-ATV
😴 Fatigue	R-Tractor
🚧 Work Zone	E-Equipment
	B-Bicycle
	L -Railway

↑ ← P P ○	06/19/17 05:43
● D	1707434
↙ → P P ⊗	10/22/17 14:00
● D	1713788

RICE ST E and I 229 N2

P  04/27/15 11:00 D  1507686	P P  08/17/16 16:59 D 1609866
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P  03/01/17 08:05 S  1702723	P P  10/24/17 15:22 D 1714089
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Vehicle Path Parked Vehicle Backing Vehicle Rear End Head On Sideswipe Left Turn Right Turn	U Turn Unknown dir. Ran off road More Units Pedestrian Fixed Object Wild Animal	PDO Injury Fatal  D - Dry W - Wet S - Winter O - Other	Clear Cloudy Fog Rain Snow Wind	Drugs Alcohol Distracted Speed Fatigue Work Zone	T - Truck M - Motorcycle P - Passenger A - ATV R - Tractor E - Equipment B - Bicycle L - Railway
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← → P P ⊗ 08/07/17 14:58  
 ● D 1709849

- ← Vehicle Path
- ↻ U Turn
- ▢ Parked Vehicle
- ▢ Unknown dir.
- ↔ Backing Vehicle
- ↘ Ran off road
- ←| Rear End
- ⊕ More Units
- ←| Head On
- 🚶 Pedestrian
- ↔ Sideswipe
- ▢ Fixed Object
- ↙ Left Turn
- 🐾 Wild Animal
- ↘ Right Turn

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>○ PDO</li> <li>⊗ Injury</li> <li>● Fatal</li> </ul>                    | <ul style="list-style-type: none"> <li>● Clear</li> <li>☁ Cloudy</li> <li>🌫 Fog</li> <li>🌧 Rain</li> <li>❄ Snow</li> <li>🌬 Wind</li> </ul> |
| <ul style="list-style-type: none"> <li>D- Dry</li> <li>W- Wet</li> <li>S- Winter</li> <li>O- Other</li> </ul> |  |

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>💊 Drugs</li> <li>🍷 Alcohol</li> <li>📱 Distracted</li> <li>🏎 Speed</li> <li>😴 Fatigue</li> <li>🚧 Work Zone</li> </ul> | <ul style="list-style-type: none"> <li>T -Truck</li> <li>M-Motorcycle</li> <li>P -Passenger</li> <li>A-ATV</li> <li>R-Tractor</li> <li>E-Equipment</li> <li>B-Bicycle</li> <li>L -Railway</li> </ul> |
|---|--|

BAHNSON AVE N and RICE ST E

← Vehicle Path	↻ U Turn
Parked Vehicle	Unknown dir.
↔ Backing Vehicle	Ran off road
←  Rear End	+ More Units
→← Head On	Pedestrian
Sideswipe	Fixed Object
↙ Left Turn	Wild Animal
↘ Right Turn	

PDO
Injury
Fatal
D - Dry
W - Wet
S - Winter
O - Other

Clear
Cloudy
Fog
Rain
Snow
Wind

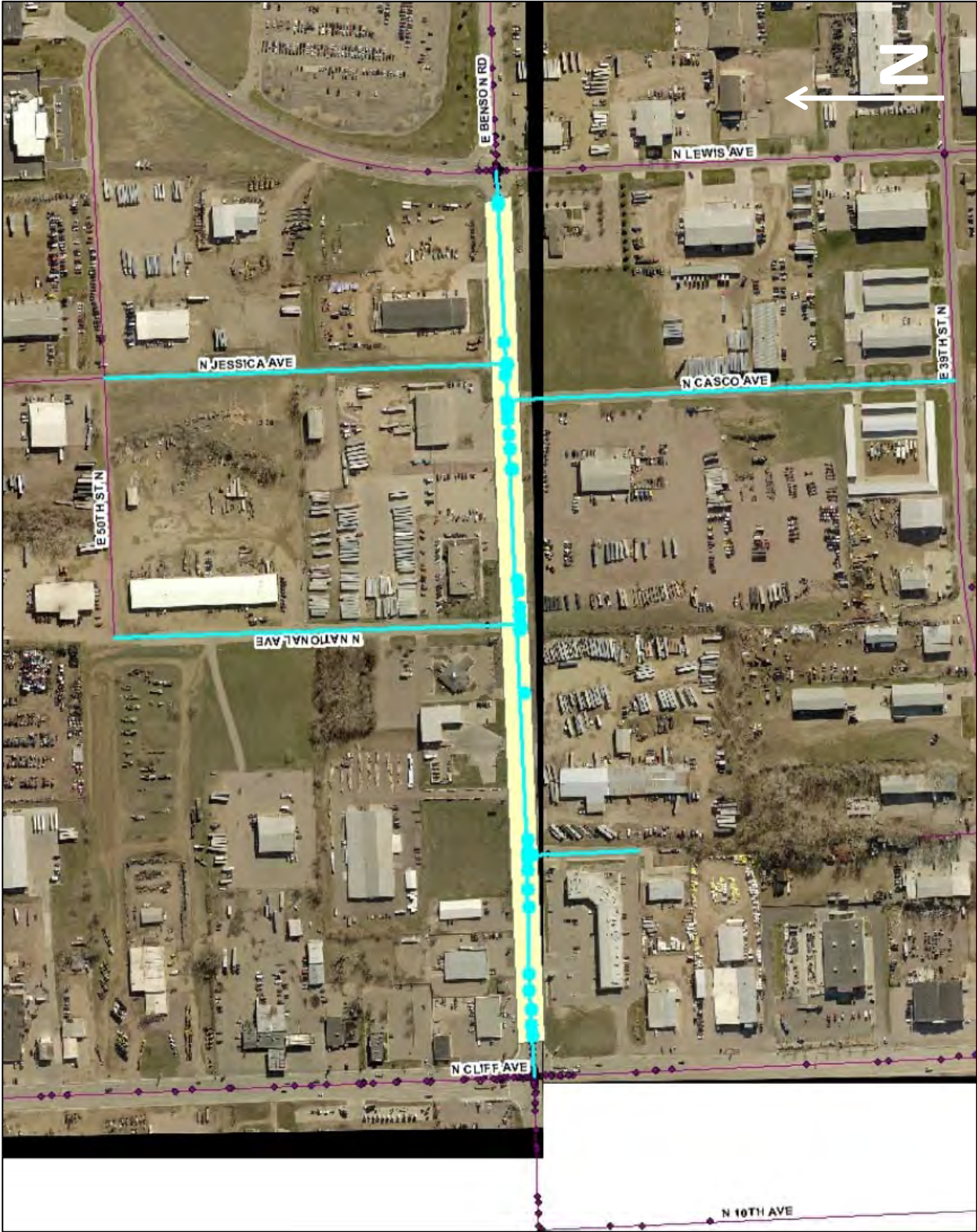
Drugs
Alcohol
Distracted
Speed
Fatigue
Work Zone

T - Truck
M - Motorcycle
P - Passenger
A - ATV
R - Tractor
E - Equipment
B - Bicycle
L - Railway

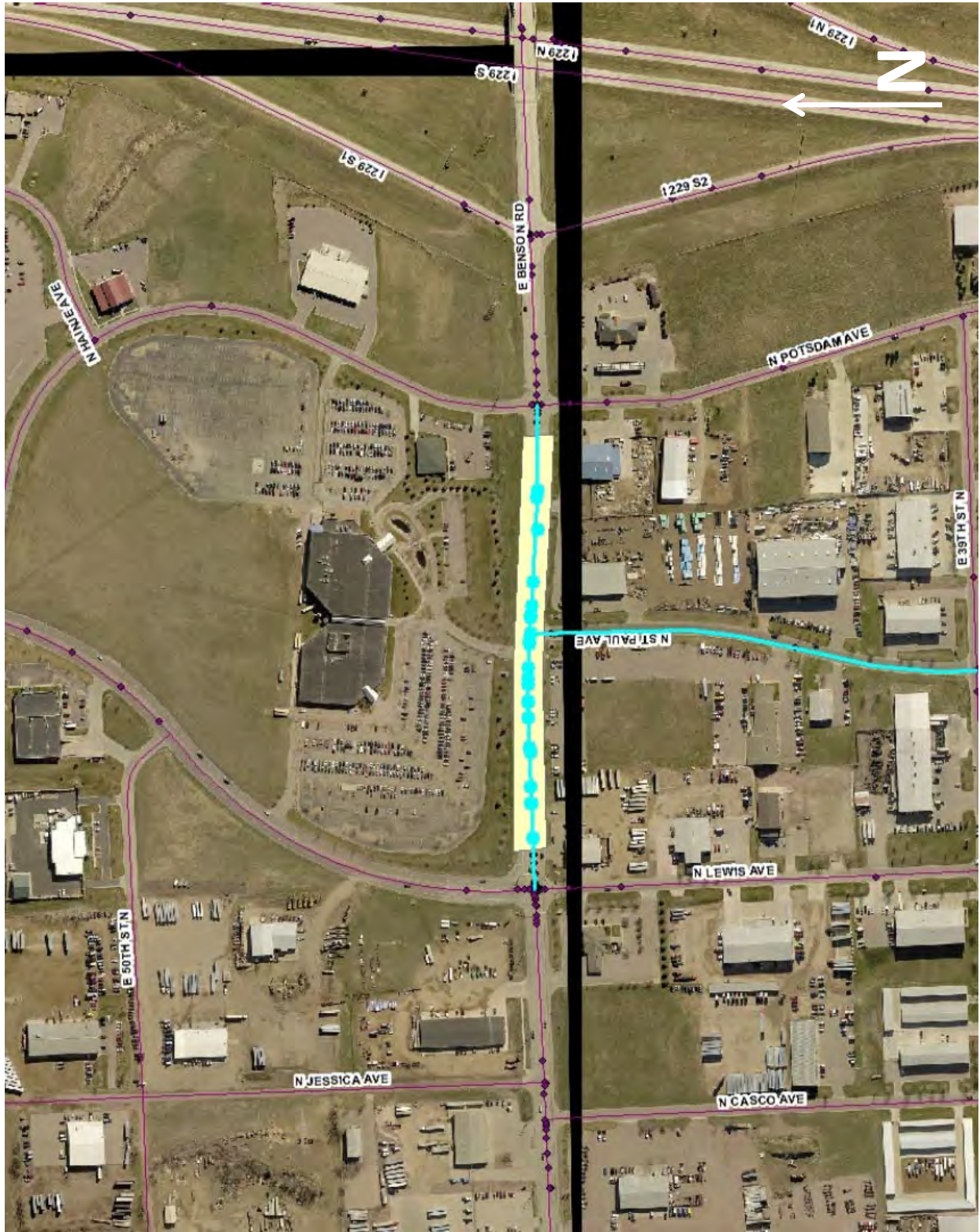




## **ARTERIAL SEGMENT CRASH MAPS**



Arterial Segment Crash Map – Benson, Cliff to Lewis



Arterial Segment Crash Map – Benson, Lewis to Potsdam



**Arterial Segment Crash Map – Benson, Potsdam to I-229 SB**



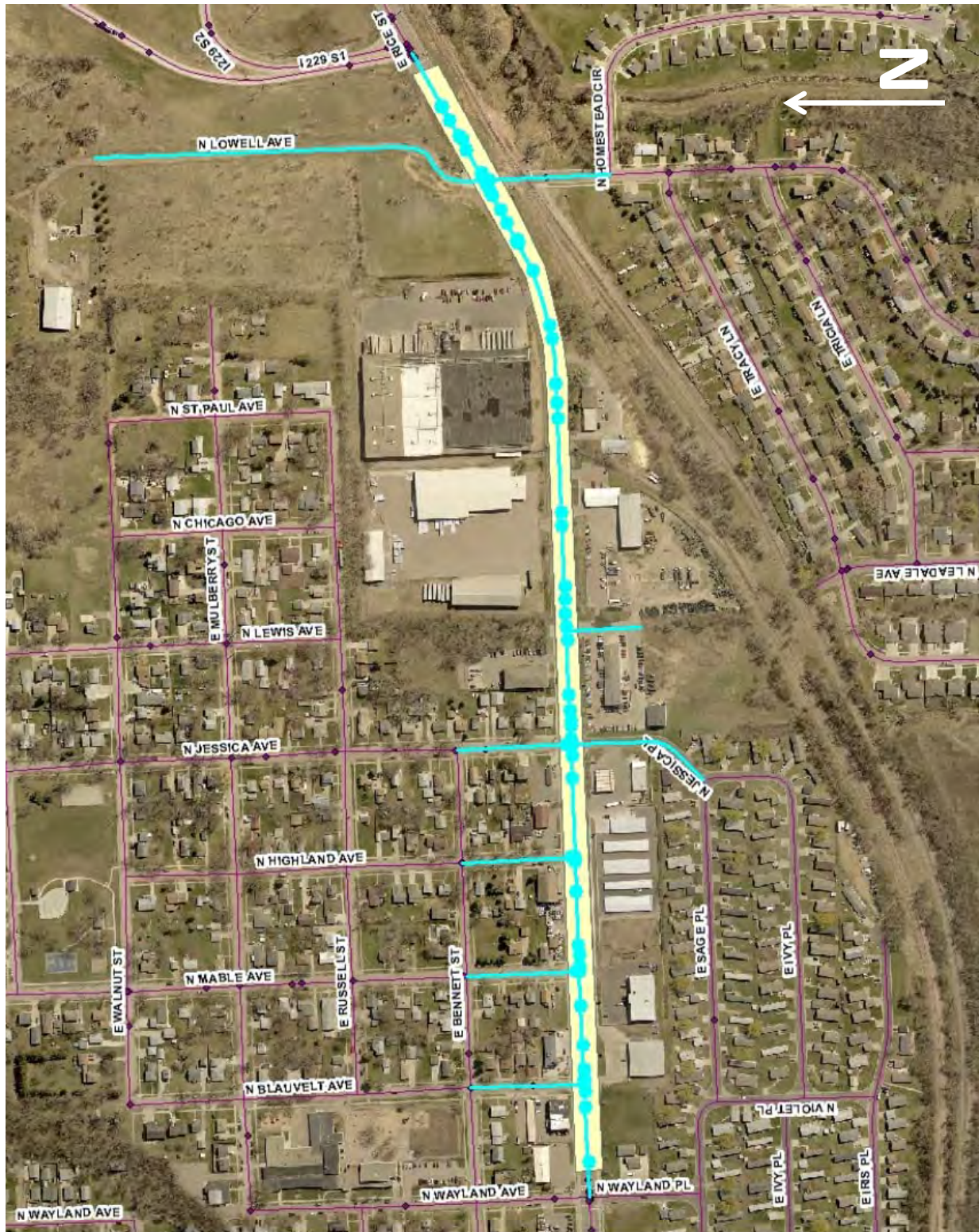
**Arterial Segment Crash Map – Benson, I-229 SB to I-229 NB**



**Arterial Crash Map – Benson, I-229 NB to Hall**



Arterial Segment Crash Map – Rice, Cliff to Wayland



Arterial Segment Crash Map – Rice, Wayland to I-229 SB





**Arterial Segment Crash Map – Benson, I-229 SB to I-229 NB**



Arterial Segment Crash Map – Benson, I-229 NB to Bahnson