

August 6, 2014

To: Mayor Bemrich and City Council

From: David Fierke, City Manager

**Subject: East Region Storm Sewer Project –
Phases 3, Transportation Safety Improvement Program
(TSIP) Application**



ACTION: For vote Monday, August 11, 2014

Brief History

On May 14th, 2012, City Council passed a resolution accepting the method of selection to choose an Engineering Firm to perform preliminary design on the East Region Storm Sewer Project – Phases 1-3. The qualifications for each firm were scored by a selection committee and based on their recommendation, City Council directed staff to prepare a contract with Snyder & Associates, which was approved on June 25th, 2012. The original contract includes preliminary engineering, design, administrative work necessary to seek funding and determine scope of the project, developing 30% plans, and communication with the public and neighborhood businesses.

Analysis of Issue

Snyder & Associates is assisting the City in identifying potential grant sources for recommended roadway and traffic improvements. The Iowa Department of Transportation's Transportation Safety Improvement Program (TSIP) grant was identified as a potential source of funding. Therefore City staff worked with Snyder in preparing a grant application.

The TSIP grant focuses on traffic safety and operations at a specific site or corridor with a crash history. The proposed improvements will increase intersection capacity and improve intersection operations.

The City's application proposes TSIP funding in the amount of \$375,000 which is supported by the benefit / cost ratio of 1.85/1 calculated by Snyder & Associates or approximately 14% of the project cost. The total cost to complete this project is estimated at \$2.65 million. This cost is associated with improvements within or adjacent to the public right-of-way. The estimate cost does not include storm water detention construction, as that work is not eligible under this program.

The grant application requires Council approved Resolution endorsing the project and the TSIP application.

Budget Impact

Funding for this project will be continuously changing as design and planning progress. It is the intention to complete the project within the budget provided. Budget is highly dependent on grant success.

Table 1. Capital Improvement Plan Excerpt – East Region Storm Sewer, Phases 1-3

Funding Source	Totals	FISCAL YEAR				
		2012	2013	2014	2015	2016
LOST	\$ 2,500,000				\$ 2,000,000	\$ 500,000
GO Bonds	\$ -					
RUT	\$ -					
Federal	\$ 1,500,000				\$ 500,000	\$ 1,000,000
Sewer Utility	\$ -					
Water Utility	\$ -					
Stormwater Utility	\$ 2,850,000		\$ 1,450,000	\$ 1,400,000		
Other	\$ 2,500,000			\$ 1,050,000	\$ 450,000	\$ 1,000,000
TOTAL	\$ 9,350,000	\$ -	\$ 1,450,000	\$ 2,450,000	\$ 2,950,000	\$ 2,500,000

Other funding may include TIF, Traffic Safety Improvement Program, Water Quality related loans or grants, and others. More details and further council action will be required to secure these funding sources.

Strategic Plan Impact

Policy D.4.2: Advanced planning for all infrastructure facilities shall be supported and routinely updated. Facilities benefited by advanced planning shall include, at minimum, schools, health care, residential areas, roads, water, sewer, storm water management, parks, recreation, and greenways.

Policy C.3.5: Pedestrian-oriented streetscape improvements including, but not limited to, sidewalks, street trees, landscaping, street lights, street furniture, trash receptacles, and signage shall be made to create and maintain an environment attractive to investment.

Impact on Existing Plans

This project has been included in the Capital Improvement Plan, has leveraged Surface Transportation Funds, and includes all recommendations from the Cross-town Connector Report as well as the Business District Watershed Analysis.

Staff Conclusions / Recommendations

It is Staff's recommendation to approve the Resolution and to have the Council direct Staff to submit the TSIP Application.

Alternatives

City Council could deny the Resolution endorsing the project, foregoing an opportunity to seek outside funding to leverage more than \$5 million in local funds for planned improvements for the East Region Storm Sewer area. This action would cause a portion of the planned improvements to be omitted from the project scope.

Implementation and Accountability

If the Council approves the Resolution, Staff and Snyder & Associates will submit the TSIP application to the Iowa Department of Transportation.

Signed

Approved



Chad W. Schaeffer, P.E.
City Engineer

David Fierke
City Manager

Application for
Traffic Safety Improvement Program
Iowa Department of Transportation

East Region Public Improvements Phase 3
1st Avenue South & South 29th Street



Submitted by:

CITY OF FORT DODGE, IOWA

August 15, 2014

Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

Location / Title of Project East Region Public Improvements - S 29th Street

Applicant City of Fort Dodge

Contact Person Chad Schaeffer Title City Engineer

Complete Mailing Address Municipal Building - Room Engineering, 819 1st Avenue S
Fort Dodge, Iowa 5051

Phone (515) 576-3601 E-Mail cshaeffer@fortdodgeiowa.org
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ 2,645,040

Safety Funds Requested \$ 375,000

APPLICATION CERTIFICATION FOR LOCAL GOVERNMENT

To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local government(s). I understand the attached resolution(s) binds the participating local government(s) to assume responsibility if any additional funds are committed, and to ensure maintenance of any new or improved city streets or secondary roads.

I understand that, although this information is sufficient to secure a commitment of funds, a firm contract between the applicant and the Department of Transportation is required prior to the authorization of funds.

Representing the City of Fort Dodge

Signed: _____

Signature

Date Signed

Chad Schaeffer

Typed Name

Attest: _____

Signature

Date Signed

Anthony Trotter

Typed Name

Narrative

First Avenue South and South 29th Street are located in the east portion of Fort Dodge, Iowa. First Avenue South connects the eastern commercial region of Fort Dodge to the downtown region. The only grade separated railroad crossing (Veterans Bridge) connecting the commercial region to the downtown region is located on South 1st Avenue. South 29th Street is a western collector street located along several businesses and connects a residential region of Fort Dodge to the commercial region.

First Avenue South is a three-lane 39 feet wide roadway with a two-way left turn lane east and west of South 29th Avenue. Several commercial driveways are located along 1st Avenue South with no consistent spacing or alignment with driveways located on opposite sides of 1st Avenue South. The posted speed limit is 25 MPH along 1st Avenue South throughout the project limits.

South 29th Street is a three-lane 39 feet wide roadway with a two-way left turn lane north and south of 1st Avenue South. Several commercial driveways are located along South 29th Street with no consistent spacing or alignment with driveways located on opposite sides of South 29th Street. The posted speed limit is 25 MPH along 1st Avenue South throughout the project limits.

Commercial properties along both streets are retail in nature including a shopping mall, large discount center, grocery supermarkets, and other small retail shops. Overhead utility lines located on the north side of 1st Avenue S and west side of S 29th Street have wood poles located approximately 3 feet from the back of curb or less. Trees are also located within 10 feet of the roadway along both streets.

The intersection of 1st Avenue South & South 29th Street is signalized. The center two-way left turn-lane on each approach becomes an exclusive left turn-lane at the intersection. The traffic signal phasing includes protected only left turn movements for each approach. The left approach lane on S 25th Street at the traffic signal (both north and south bound) are designated as left turn only lanes. All left turning traffic at the signal are controlled by protected left turn movements. However, the left turn circular red and yellow signal indications are not compliant with current MUTCD. The sign supplementing these movements is a left turn only sign (R3-5L). Traffic signal coordination timings were implemented at this and the adjacent intersection of 1st Avenue S and S 29th St in November 2010.

According to the Iowa DOT 2011 traffic count data, 1st Avenue S carries 9,200 Average Annual Daily Traffic (AADT) at the intersection with S 29th Street. S 29th Street carries 6,200 AADT south of the intersection and 4,800 AADT north. Both traffic and City population history shows minimal to no growth in traffic and City size over the last 10 years.

Crash History

From January 1, 2009 through May 31, 2014, the project region experienced 74 crashes. Of these crashes, one major injury crash, one minor injury crash, ten possible/unknown injury crashes, and 62 property damage only crashes. In total, there were 14 injuries, including one

major and one minor injury. The resulting crash rate for this corridor is 1,179 crashes per hundred million vehicle miles traveled (HMVMT). The average statewide crash rate for a similar city street is 402 crashes per HMVMT (based on 2008 – 2011 crash data).

As is typical with urban roadways, crashes tend to be located at driveways. Crashes along both streets are clustered at commercial driveways and at the intersection of 1st Avenue with South 29th Street. Most crashes were rear-end or right-angle types of collisions. Right angle collisions are caused in fact by driveway spacing not consistent and driveways located offset from one another, drivers leaving commercial properties have difficulty in selecting appreciate gaps in traffic as the number of conflicting traffic direction vary at each driveway location. Rear-end crashes occur when drivers on the either 1st Avenue South or South 29th Street have traffic unexpectedly stopping for a turning vehicle and also occurring at vehicle queues on the approaches of the intersection of 1st Avenue South with South 29th Street.

Crashes involving vehicles striking a fixed object is minimal with only two crashes reported striking a fixed object. Both crashes were single vehicle crashes resulting in property damage only. One crash was caused by weather conditions and the second crash involved a northbound semi tractor-trailer striking a pole while turning from 29th Street to eastbound 1st Avenue.

Proposed Improvement

Phase 3 of the East Region Project in Fort Dodge includes pavement replacement from 100 feet west of South 27th Street to 400 feet east of South 29th Street along 1st Avenue South and 300 feet north to 1,000 feet south of 1st Avenue South along South 29th Street. Commercial driveway will be consolidated within the project limits reducing the number of driveways from 16 to 11 and aligning driveways direct across from one another if driveways exist on both sides of the public roadway. Right turn lanes will be constructed on all approaches at the intersection of 1st Avenue South and South 29th Street. All overhead utilities will be relocated to the alley ways behind the properties along 1st Avenue South and South 29th Street. Tress located along the two streets will either be removed or trimmed back based off on sight distance from the proposed commercial driveways reducing the potential for fixed object crashes.

The traffic signal will be replaced at the intersection of 1st Avenue South and South 29th Street. The proposed traffic signal pole locations will increase the clear zone at the intersection. Also the left turn lane vehicle signal indications will be compliant with the current MUTCD and possible implantation of permissive left turn via flashing yellow hour during low traffic volume hours.

Consolidating and reducing the number of driveway accesses should reduce the potential for crashes by reducing the number of conflict points along both streets. Realignment of the driveways should also reduce the potential confusion of drivers entering or exiting the driveways. Construction of the right turn lanes at the intersection of 1st Avenue South and South 29th Street should reduce the potential of a rear-end collisions at the intersection as the right turning traffic will be removed from the through lane while slowing to make a right turn.

Traffic Safety Improvement Program Application
 East Region Public Improvements Phase 3
 1st Avenue S and S 29th Street
 Fort Dodge, Iowa

C

**Order of Magnitude
 Opinion of Probable Cost
 East Region Public Improvements Phase 3
 Fort Dodge, Iowa**

ITEM DESCRIPTION	TOTAL QUANTITY	UNIT	UNIT COST	TOTAL COST
Storm Sewer				
Storm Sewer, Trenched, Class III, 15" dia.	469	LF	\$60	\$28,140
Storm Sewer, Trenched, Class III, 18" dia.	370	LF	\$65	\$24,050
Storm Sewer, Trenched, Class III, 24" dia.	389	LF	\$75	\$29,175
Storm Sewer, Trenched, Class III, 48" dia.	254	LF	\$145	\$36,830
Storm Sewer Removal	319	LF	\$10	\$3,190
SW-401, Small	4	EA	\$3,500	\$14,000
SW-401, Large	1	EA	\$6,000	\$6,000
SW-501	8	EA	\$3,000	\$24,000
SW-503	4	EA	\$5,000	\$20,000
SW-505	3	EA	\$5,000	\$15,000
SW-506	1	EA	\$7,000	\$7,000
Structure Removal	12	EA	\$500	\$6,000
Topsoil Furnish and Place, 4"	1,100	CY	\$20	\$22,000
Conventional Seeding, Fertilizing, and Mulching	3	AC	\$5,000	\$15,000
Landscaping	1	LS	\$12,000	\$12,000
Sanitary Sewer				
Manhole Casting/Chimney Seal	1	EA	\$500	\$500
Water Main				
Water Main Adjustments	1	LS	\$25,000	\$25,000
Pavement				
Pavement Removal	8,526	SY	\$10	\$85,260
Excavation, Class 10	7,400	CY	\$15	\$111,000
Modified Subbase, 12"	10,270	SY	\$13	\$133,510
Subgrade Preparation	8,560	SY	\$3	\$25,680
Subdrain, 6" Perforated	2,079	LF	\$15	\$31,185
PCC Pavement, 8" (includes driveways)	9,495	SY	\$50	\$474,750
Pavement Patching, Full Depth	376	SY	\$100	\$37,600
Curb and Gutter	276	LF	\$25	\$6,900
PCC Pavement Rehab and Diamond Grinding	4,560	SY	\$6	\$27,360
Sidewalk, 4"-6"	618	SY	\$40	\$24,720
Detectable Warning Device	2	EA	\$500	\$1,000
Lighting, Signals, & Amenities				

Traffic Safety Improvement Program Application
 East Region Public Improvements Phase 3
 1st Avenue S and S 29th Street
 Fort Dodge, Iowa

C

Light Pole	6	EA	\$7,500	\$45,000
Trees	35	EA	\$260	\$9,100
Traffic Signals	1	EA	\$170,000	\$170,000
Intersection Streetscaping	1	LS	\$75,000	\$75,000
Sign Relocation	5	EA	\$10,000	\$50,000
Misc.				
Mobilization	1	LS	\$100,000	\$150,000
Traffic Control	1	LS	\$50,000	\$50,000

Subtotal \$1,795,950
Contingencies (15%) \$269,395

Construction Subtotal \$2,065,345

ROW Acquisition - Roadway	21,430	SF	\$8	\$160,725
Temporary Construction Easement Acquisition - Roadway	103,961	SF	\$1	\$77,970

Subtotal \$238,695
Contingencies (15%) \$35,805
ROW and Easement Acquisition Subtotal \$274,500

Construction & ROW Subtotal \$2,339,845
Engineering, Admin., Legal (15%) \$305,195

Project Cost Grand Total \$2,645,040

Traffic Safety Improvement Program Application
East Region Public Improvements Phase 3
1st Avenue S and S 29th Street
Fort Dodge, Iowa

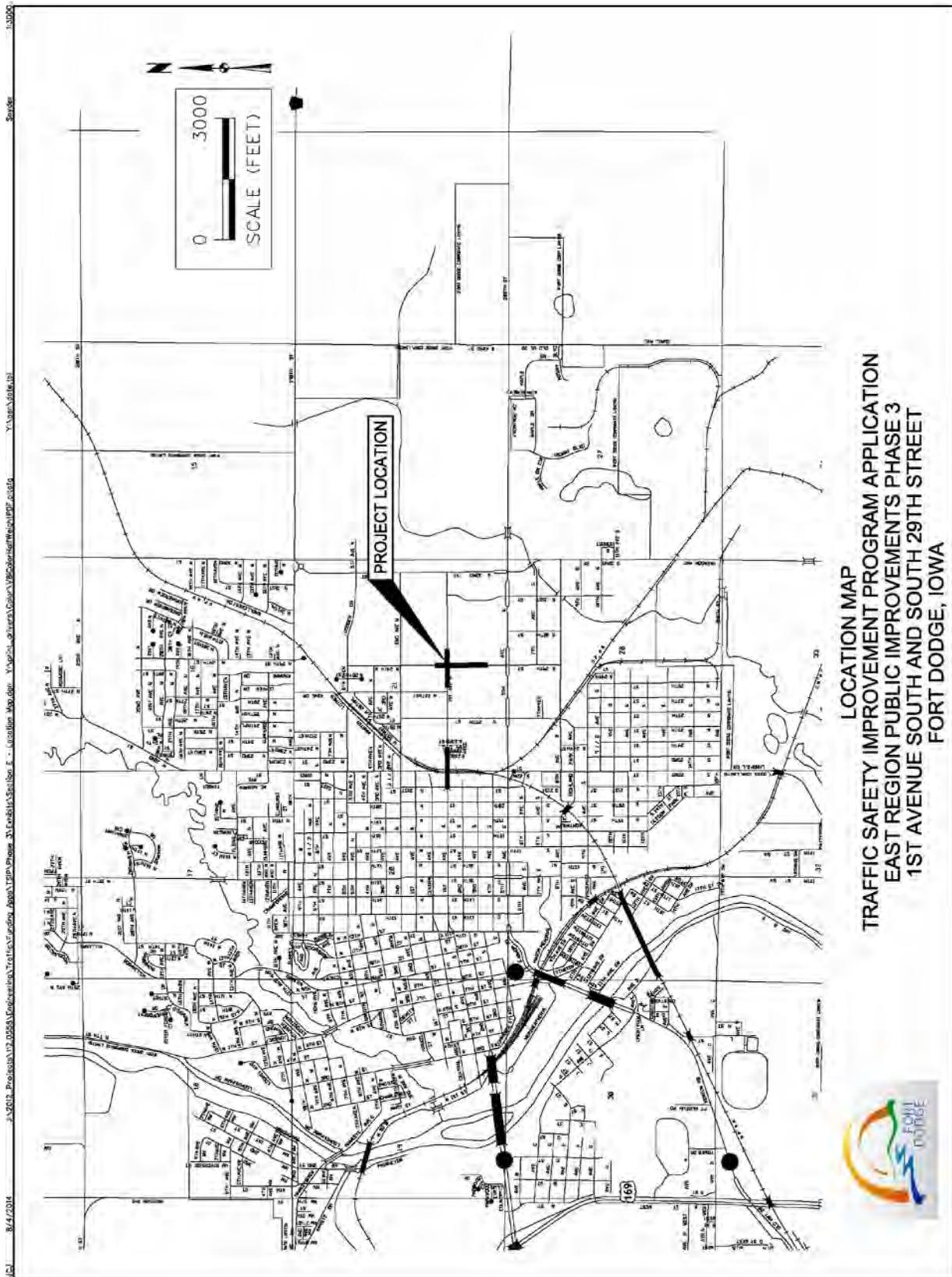
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Time Schedule

TSIP Application	August 15, 2014
TSIP Funding Award	January 2015
Preliminary Project Design	August 2014 - October 2014
Environmental Clearances	September 2014 - October 2014
Right-of-Way Acquisitions	November 2014 - January 2015
Final Design	November 2014 - January 2015
Contracts Turn-in to Iowa DOT	February 2015
Project Letting	April 2015
Project Construction	June 2015 - December 2015

Traffic Safety Improvement Program Application
East Region Public Improvements Phase 3
1st Avenue S and S 29th Street
Fort Dodge, Iowa

E



Traffic Safety Improvement Program Application
East Region Public Improvements Phase 3
1st Avenue S and S 29th Street
Fort Dodge, Iowa



Photo 1: 1st Avenue S looking east from near S 27th Street



Photo 2: 1st Avenue S looking east from near S 27th Street

Traffic Safety Improvement Program Application
East Region Public Improvements Phase 3
1st Avenue S and S 29th Street
Fort Dodge, Iowa

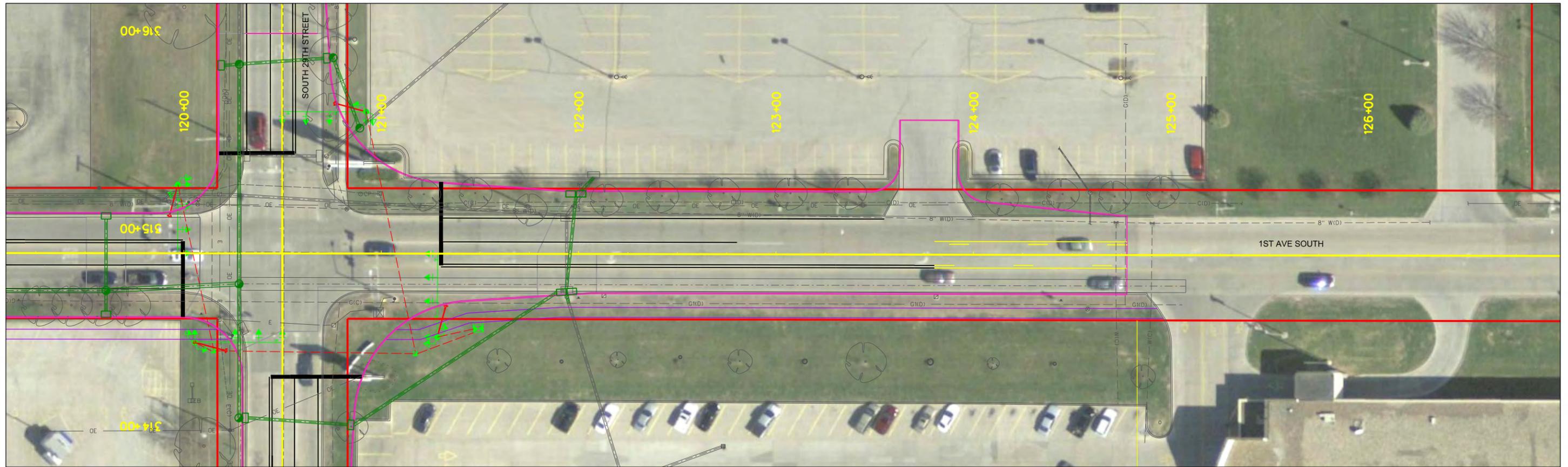
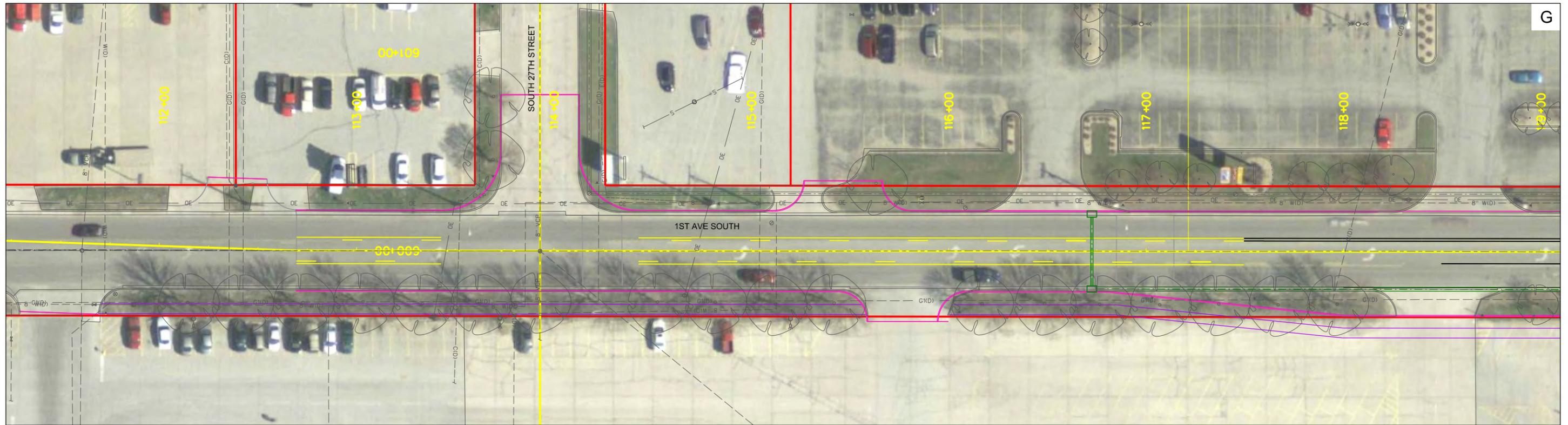


Photo 3: S 29th Street looking south from 1st Avenue S



Photo 4: S 29th Street looking north from 1st Avenue S

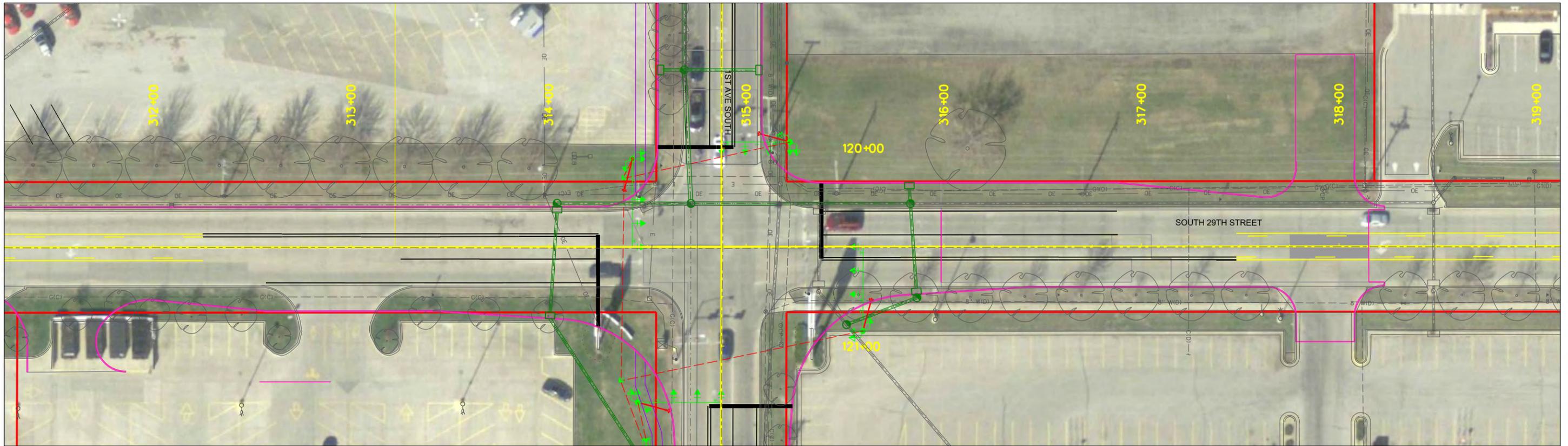
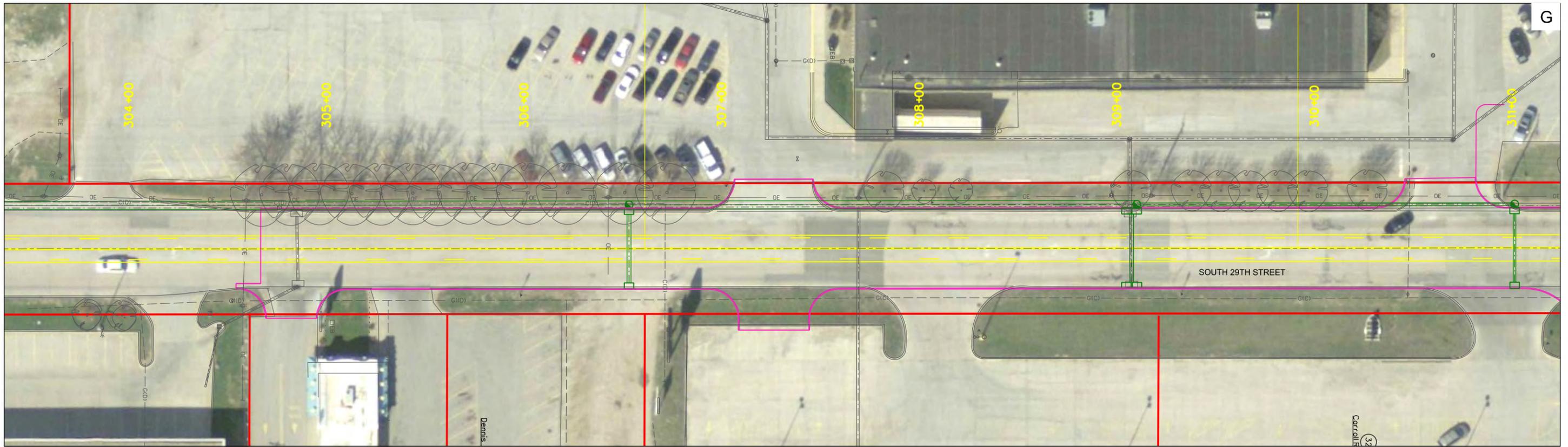
Plan View



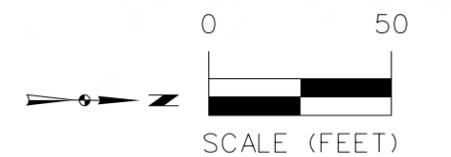
SNYDER & ASSOCIATES
Engineers and Planners

PLAN VIEW 1ST AVENUE SOUTH
TRAFFIC SAFETY IMPROVEMENT APPLICATION
EAST REGION PUBLIC IMPROVEMENTS PHASE 3
1ST AVENUE SOUTH AND SOUTH 29TH STREET
FORT DODGE, IOWA





**PLAN VIEW SOUTH 29TH STREET
TRAFFIC SAFETY IMPROVEMENT APPLICATION
EAST REGION PUBLIC IMPROVEMENTS PHASE 3
1ST AVENUE SOUTH AND SOUTH 29TH STREET
FORT DODGE, IOWA**



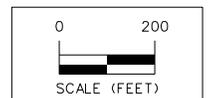
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PROJECT LOCATION

1st AVENUE S

AERIAL LOCATION
 TRAFFIC SAFETY IMPROVEMENT PROGRAM APPLICATION
 EAST REGION PUBLIC IMPROVEMENTS PHASE 3
 1ST AVENUE S AND S 29TH STREET
 FORT DODGE, IOWA





Iowa Department of Transportation
INVESTIGATING OFFICERS REPORT OF
MOTOR VEHICLE ACCIDENT

Law Enforcement Case Number:
11-0721

Legal Intervention? Private Property?

Location Literal Description
N 27TH ST AND 1ST AVE S

X-Coordinate: **00404636**
Y-Coordinate: **04706528**

If Divided Highway, Provide Route (Cardinal) Travel Direction
"N/A"

L O C A T I O N

Date of Accident **3/8/2011** Time of Accident **09:17** Hrs. County **WEBSTER - 94** Accident occurred within corporate limits of (city) **FORT DODGE - 2690**

If accident occurred outside of city limits show general vicinity: **"N/A"** of nearest city **"N/A"**

On Road, Street, or Highway: **"N/A"** At Intersection with: **"N/A"**

Note: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a milepost or definable intersection, bridge, or railroad crossing, using two distances and directions if necessary.

Distance **"N/A"** Direction **"N/A"** and **"N/A"** Direction **"N/A"** of

Milepost Number **"N/A"** Or Definable intersection, bridge, or railroad crossing **"N/A"**

U N I T

001

Driver's Name - Last **LISKA** First **HEATHER** Middle **ANN** Suffix Home/Cell Phone Number **(515) 576-0901**

Address **1721 S 15TH ST** City **FORT DODGE** State **IA** Zip **50501-0000**

Date of Birth **02/23/1985** Driver's License Number **421VV2722** Citation Charge Code 1 Citation Charge 1

Gender **FEMALE** State **IA** Class **D** Endorsements **3** Restrictions **B** Citation Charge Code 2 Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3 Citation Charge 3

Seating Position **01** Injury Status **4** Occupant Protection **1** Airbag Deployment **5** Airbag Switch Status **9** Ejection **1** Ejection Path **1** Trapped **1**

Transported to: Transported by:

Owner's Name - Last **LISKA** First **HEATHER** Middle **ANN** Suffix Owner Company Name

Address **1721 S 15TH ST** City **FORT DODGE** State **IA** Zip **50501-0000**

Insurance Co. Name **NATIONWIDE MUTUAL INS** Insurance Policy # **PPGM0024031591-1** License Plate # **K4769** State **IA** Year **2011**

VIN No. **2C8GP44G01R113736** Year **2001** Make **CHRYSLER - CHRY** Model **TOW** Style **VN** Tow # **NO** Approximate Cost to Repair or Replace **\$2,500.00**

Initial Travel Direction **4** Vehicle Action **01** Speed Limit **25** Point of Initial Impact **07** Most Damaged Area **07** Extent of Damage **2** Underride/Override **1** Private?

Total Occupants **2** Traffic Controls **01** Vehicle Config. **03** Cargo Body Type **01** Vehicle Defect **99** Driver Condition **1** Vision Obscured **01** Contributing Circumstances, Driver (up to two) **28**

SEQUENCE OF EVENTS First Event **21** Second Event **21** Third Event **21** Fourth Event **21** Most Harmful Event (by vehicle) **21**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type **1** Emergency Status **3**

Carrier Name Address City State Zip

US DOT # or MC # Number of Axles Gross Vehicle Weight Rating Placard # Hazardous Materials Released?

U N I T

002

Driver's Name - Last **STJOHN** First **PHYLLIS** Middle **JEAN** Suffix Home/Cell Phone Number **(515) 576-4560**

Address **1160 NORTH 26TH STREET** City **FORT DODGE** State **IA** Zip **50501**

Date of Birth **02/28/1931** Driver's License Number **859ZZ7010** Citation Charge Code 1 Citation Charge 1

Gender **FEMALE** State **IA** Class **C** Endorsements **NONE** Restrictions **O** Citation Charge Code 2 Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3 Citation Charge 3

Seating Position **01** Injury Status **5** Occupant Protection **2** Airbag Deployment **5** Airbag Switch Status **9** Ejection **1** Ejection Path **1** Trapped **1**

Transported to: Transported by:

Owner's Name - Last **STJOHN** First **PHYLLIS** Middle **JEAN** Suffix Owner Company Name

Address **1160 NORTH 26TH STREET** City **FORT DODGE** State **IA** Zip **50501**

Insurance Co. Name **OWNERS** Insurance Policy # **44-330-016-00** License Plate # **877CZD** State **IA** Year **2009**

VIN No. **4T1BE32K44U801423** Year **2004** Make **TOYOTA - TOYT** Model **CAM** Style **4D** Tow # **NO** Approximate Cost to Repair or Replace **\$1,500.00**

Initial Travel Direction **2** Vehicle Action **02** Speed Limit **25** Point of Initial Impact **01** Most Damaged Area **01** Extent of Damage **2** Underride/Override **1** Private?

Total Occupants **1** Traffic Controls **01** Vehicle Config. **01** Cargo Body Type **01** Vehicle Defect **99** Driver Condition **1** Vision Obscured **01** Contributing Circumstances, Driver (up to two) **15**

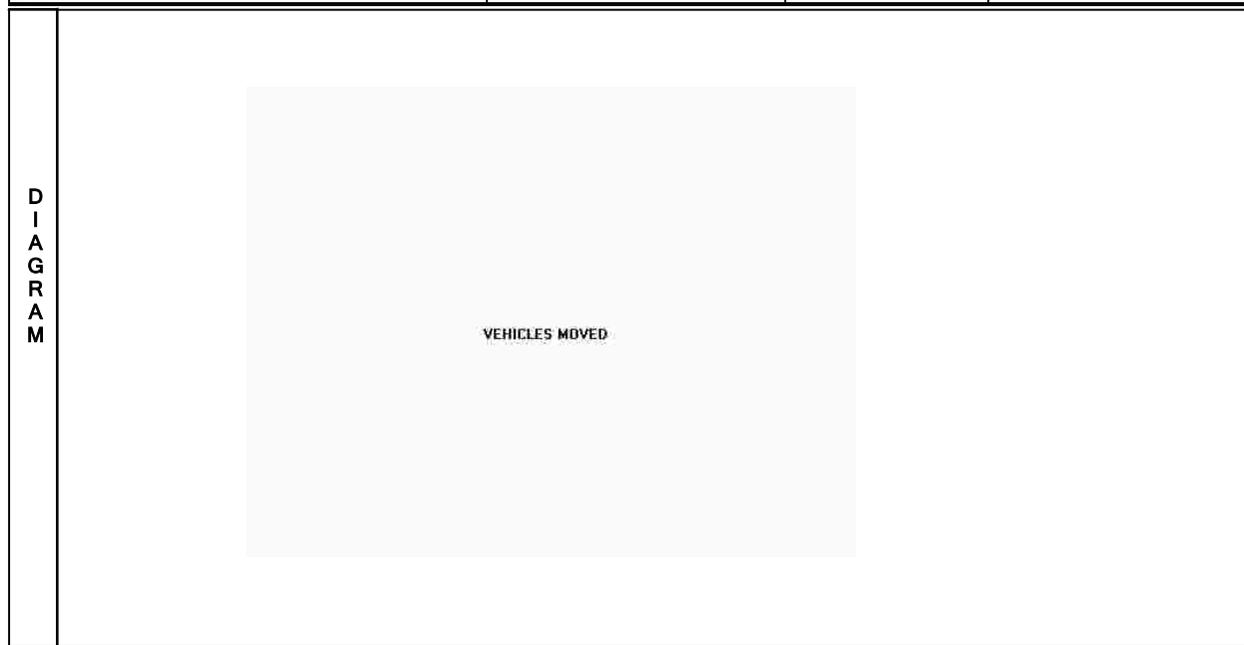
SEQUENCE OF EVENTS First Event **22** Second Event **22** Third Event **22** Fourth Event **22** Most Harmful Event (by vehicle) **22**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type **1** Emergency Status **3**

Carrier Name Address City State Zip

US DOT # or MC # Number of Axles Gross Vehicle Weight Rating Placard # Hazardous Materials Released?

ACCIDENT ENVIRONMENT		ROADWAY CHARACTERISTICS Major Contributing Circumstances:		WORKZONE RELATED? NO	SEQUENCE OF EVENTS
Location of First Harmful Event	1	Weather Conditions	Environment	Location	First Harmful Event of Crash (use codes 11-42 only) 22
Manner of Crash/Collision	4	(up to two) 03	Roadway	Type	
Light Conditions	1	Surface Conditions	Type of Roadway Junction/Feature	Workers Present?	



NARRATIVE

Describe what happened (refer to vehicles by number)

ON TUESDAY, 3-8-2011, I OFFICER WALKER WAS DISPATCHED TO 1ST AVE S. AND S. 27TH STREET IN REFERENCE TO A MOTOR VEHICLE ACCIDENT.

UPON THIS OFFICER'S ARRIVAL I SPOKE WITH BOTH THE DRIVERS OF UNIT 1 AND UNIT 2.

UNIT 1- DRIVER STATED THAT SHE WAS TRAVELING WEST BOUND ON 1ST AVE S. WHEN UNIT 2 TURNED FROM THE TURNING LANE AND RAN INTO HER. UNIT 2 WAS OCCUPIED BY TWO, THE DRIVER OF UNIT 2 COMPLAINED OF PAIN TO HER LEFT ARM, EMERGENCY MEDICAL PERSONNEL WAS NOTIFIED BUT THIS DRIVER WAS NOT TRANSPORTED TO THE HOSPITAL. UNIT 2 HAD MINOR DAMAGE TO THE DRIVER SIDE, THE PASSENGER A CHILD WAS NOT INJURED.

UNIT2 - DRIVER STATED THAT SHE WAS TRAVELING EASTBOUND ON 1ST AVE S. AND WENT TO TURN LEFT ONTO S. 27TH STREET TO HEAD NORTH. WHILE SHE WAS MAKING THE LEFT HAND TURN SHE DID NOT SEE THE OTHER VEHICLE, BECAUSE IT CAME SO FAST. THIS UNIT STRUCK UNIT 1 IN ON AN ANGLE IN THE DRIVER SIDE DOOR. THIS UNIT WAS OCCUPIED BY ONE NO INJURIES REPORTED, DRIVER WAS ISSUED A CITATION FOR UNSAFE TURNING

W I T N E S S	Witness Name - Last DUCKETT	First NANCY	Middle ANN	Suffix	
	Address 520 1ST ST NW		City FORT DODGE	State IA	Zip Code 50501-0000
	Home/Cell Phone # (515) 570-3090		Work Phone #		

Officer WALKER LEIGHTON	Badge No. 39	Time Officer Notified of Accident 09:17	Hrs.	Time Officer Arrived At Scene 09:21	Hrs.
Name of Agency FORT DODGE POLICE DEPARTMENT	Date of Report 03/08/2011	Investigation made at scene? YES	T.I. #		
Report Reviewed By: BESHEY, DAVID	Date Reviewed 03/11/2011	Agency Specific	Other Technical Investigation Agency		



Iowa Department of Transportation

INVESTIGATING OFFICERS REPORT OF MOTOR VEHICLE ACCIDENT

Law Enforcement Case Number:
12-2664

Legal Intervention? Private Property?

Location Literal Description
2900 BLOCK OF 1ST AVE S

X-Coordinate: **00404936**
Y-Coordinate: **04706527**

If Divided Highway, Provide Route (Cardinal) Travel Direction
"N/A"

**L
O
C
A
T
I
O
N**

Date of Accident **8/17/2012** Time of Accident **13:00** Hrs. County **WEBSTER - 94** Accident occurred within corporate limits of (city) **FORT DODGE - 2690**

If accident occurred outside of city limits show general vicinity: **"N/A"** of nearest city **"N/A"**

On Road, Street, or Highway: **"N/A"** At Intersection with: **"N/A"**

Note: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a milepost or definable intersection, bridge, or railroad crossing, using two distances and directions if necessary.

Distance **"N/A"** Direction **"N/A"** and **"N/A"** Direction **"N/A"** of

Milepost Number **"N/A"** Or Definable intersection, bridge, or railroad crossing **"N/A"**

**U
N
I
T**

Driver's Name - Last **MINARD** First **KELLEE** Middle **LYNN** Suffix Home/Cell Phone Number **(515) 227-5223**

Address **700 S 17TH ST APT E215** City **FORT DODGE** State **IA** Zip **50501**

Date of Birth **01/05/1953** Driver's License Number **165CC6358** Citation Charge Code 1 Citation Charge 1

Gender **FEMALE** State **IA** Class **C** Endorsements **NONE** Restrictions **B** Citation Charge Code 2 Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: **1 - NONE** Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3 Citation Charge 3

Alcohol Test Given? **1 - NONE** Test Results: **1 - NONE** Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 4 Citation Charge 4

Seating Position **01** Injury Status **3** Occupant Protection **2** Airbag Deployment **5** Airbag Switch Status **9** Ejection **1** Ejection Path **1** Trapped **1**

Transported to: Transported by:

Owner's Name - Last **MINARD** First **KELLEE** Middle **LYNN** Suffix Owner Company Name

Address **700 S 17TH ST APT E215** City **FORT DODGE** State **IA** Zip **50501**

Insurance Co. Name **EMC** Insurance Policy # **69A6168** License Plate # **497ZZ** State **IA** Year **2012**

VIN No. **1GMDX03E4XD152169** Year **1999** Make **PONTIAC - PONT** Model **MONTANA** Style **MINIVAN** Tow # **NO** Approximate Cost to Repair or Replace **\$0.00**

Initial Travel Direction **4** Vehicle Action **01** Speed Limit **25** Point of Initial Impact **05** Most Damaged Area **05** Extent of Damage **1** Underride/Override **1** Private? **\$0.00**

Total Occupants **01** Traffic Controls **01** Vehicle Config. **03** Cargo Body Type **01** Vehicle Defect **01** Driver Condition **1** Vision Obscured **01** Contributing Circumstances, Driver (up to two) **28**

SEQUENCE OF EVENTS First Event **21** Second Event Third Event Fourth Event **21** Most Harmful Event (by vehicle) **21**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type **1** Emergency Status **3**

Carrier Name Address City State Zip

US DOT # or MC # Number of Axles Gross Vehicle Weight Rating Placard # Hazardous Materials Released?

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T**

Driver's Name - Last **BLOCK** First **TAMI** Middle **RENEE** Suffix Home/Cell Phone Number **(515) 408-8283**

Address **29837 640TH ST** City **MANSON** State **IA** Zip **50563**

Date of Birth **01/04/1972** Driver's License Number **032AA8378** Citation Charge Code 1 Citation Charge 1

Gender **FEMALE** State **IA** Class **C** Endorsements **NONE** Restrictions **NONE** Citation Charge Code 2 Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: **1 - NONE** Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3 Citation Charge 3

Alcohol Test Given? **1 - NONE** Test Results: **1 - NONE** Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 4 Citation Charge 4

Seating Position **01** Injury Status **9** Occupant Protection **2** Airbag Deployment **9** Airbag Switch Status **9** Ejection **1** Ejection Path **1** Trapped **1**

Transported to: Transported by:

Owner's Name - Last **BLOCK** First **TAMI** Middle **RENEE** Suffix Owner Company Name

Address **29837 640TH ST** City **MANSON** State **IA** Zip **50563**

Insurance Co. Name **AMERICAN FAMILY MUTUAL** Insurance Policy # **177045350809FPPAIA** License Plate # **824YPW** State **IA** Year **2013**

VIN No. **1C3EU4537SF527476** Year **1995** Make **CHRYSLER - CHRY** Model **LEBARON GTC** Style **PASSENGER** Tow # **NO** Approximate Cost to Repair or Replace **\$0.00**

Initial Travel Direction **4** Vehicle Action **01** Speed Limit **25** Point of Initial Impact **01** Most Damaged Area **01** Extent of Damage **1** Underride/Override **1** Private? **\$0.00**

Total Occupants **03** Traffic Controls **02** Vehicle Config. **01** Cargo Body Type **01** Vehicle Defect **99** Driver Condition **9** Vision Obscured **99** Contributing Circumstances, Driver (up to two) **09**

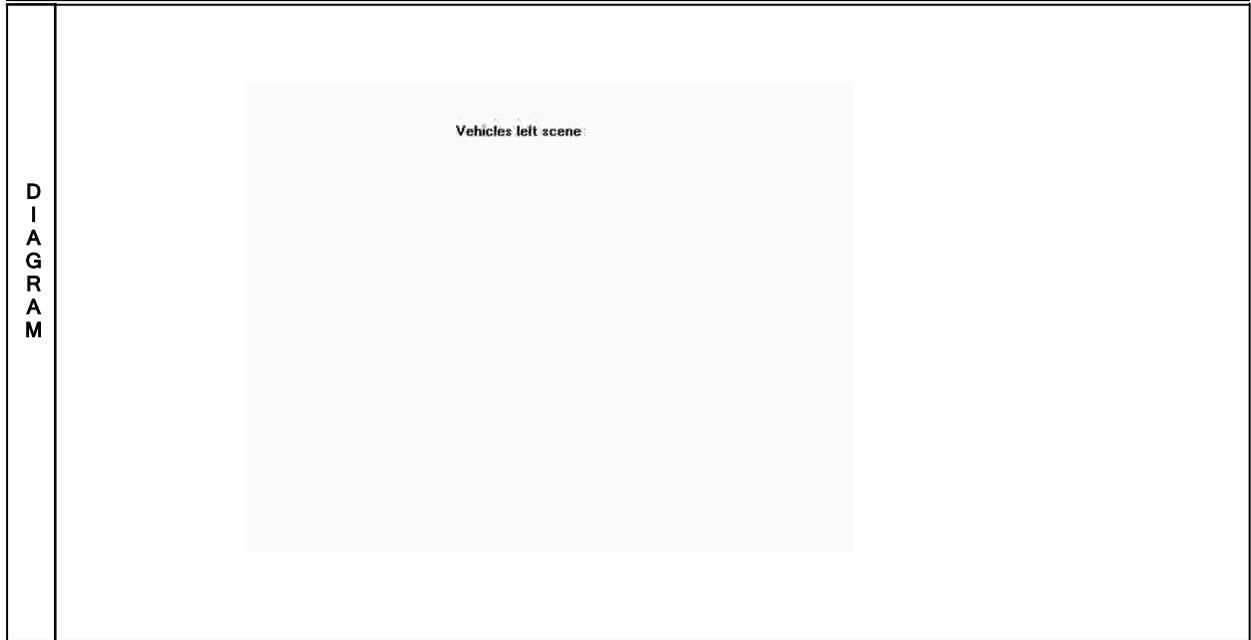
SEQUENCE OF EVENTS First Event **21** Second Event Third Event Fourth Event Most Harmful Event (by vehicle) **21**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type **1** Emergency Status **3**

Carrier Name Address City State Zip

US DOT # or MC # Number of Axles Gross Vehicle Weight Rating Placard # Hazardous Materials Released?

ACCIDENT ENVIRONMENT			ROADWAY CHARACTERISTICS Major Contributing Circumstances:		WORKZONE RELATED? NO	SEQUENCE OF EVENTS
Location of First Harmful Event	1	Weather Conditions	Environment	9	Location	First Harmful Event of Crash (use codes 11-42 only) 21
Manner of Crash/Collision	3	(up to two)	Roadway	99	Type	
Light Conditions	1	Surface Conditions	Type of Roadway Junction/Feature	01	Workers Present?	



NARRATIVE

Describe what happened (refer to vehicles by number)

ON 8/2012 AT 1355 I, NATHAN WOLFE, WAS DISPATCHED TO 700 S 17TH ST FOR A 2 CAR ACCIDENT. WHEN I ARRIVED ON SCENE MINARD STATED THAT SHE WAS IN AN ACCIDENT FRIDAY 8/17/12 AROUND 1300.

MINARD STATES THAT SHE WAS IN THE WESTBOUND STOP LIGHT AT THE 2900 BLOCK OF 1ST AVE S WHEN SHE WAS REAR ENDED BY BLOCK. MINARD STATES THAT SHE NOR BLOCK HAD A CELL PHONE TO CALL AND NOTIFY LAW ENFORCEMENT. MINARD AND BLOCK EXCHANGED INFORMATION AND THEY BOTH LEFT THE SCENE.

MINARD STATES THAT WHEN SHE GOT HOME THAT DAY SHE WAS IN ENORMOUS PAIN FROM THE ACCIDENT.

I DID NOT FIND ANY DAMAGE TO MINARD'S VAN AND SHE STATES THAT THERE WAS NO DAMAGE DONE TO BLOCK'S VEHICLE.

DIAGRAM WAS NOT COMPLETED DUE TO THE FACT THAT THE ACCIDENT WAS REPORTED 3 DAYS AFTER IT HAPPENED AND THE VEHICLES WERE NO LONGER AT THE SCENE.

Officer WOLFE NATHAN	Badge No. 2139	Time Officer Notified of Accident 13:55 Hrs.		Time Officer Arrived At Scene 13:57 Hrs.
Name of Agency FORT DODGE POLICE DEPARTMENT	Date of Report 08/20/2012	Investigation made at scene?	T.I. #	
Report Reviewed By: WILSON, MATT	Date Reviewed 08/20/2012	Agency Specific	Other Technical Investigation Agency	



Iowa Department of Transportation
INVESTIGATING OFFICERS REPORT OF
MOTOR VEHICLE ACCIDENT

Law Enforcement Case Number:
13-1293

Legal Intervention? Private Property?

Location Literal Description
2800 BLK 1ST AVE S

X-Coordinate: **00404815**
Y-Coordinate: **04706527**

If Divided Highway, Provide Route (Cardinal) Travel Direction
"N/A"

LOCATION

Date of Accident: **5/13/2013** Time of Accident: **13:20** Hrs. County: **WEBSTER - 94** Accident occurred within corporate limits of (city): **FORT DODGE - 2690**

If accident occurred outside of city limits show general vicinity: **"N/A"** of nearest city **"N/A"**

On Road, Street, or Highway: **"N/A"** At Intersection with: **"N/A"**

Note: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a milepost or definable intersection, bridge, or railroad crossing, using two distances and directions if necessary.

Distance **"N/A"** Direction **"N/A"** and **"N/A"** Direction **"N/A"** of

Milepost Number **"N/A"** Or Definable intersection, bridge, or railroad crossing **"N/A"**

UNIT 001

Driver's Name - Last: **FOSTER** First: **SAMANTHA** Middle: **LOUISE** Suffix: Home/Cell Phone Number: **(515) 570-3211**

Address: **216 N 19TH ST** City: **FORT DODGE** State: **IA** Zip: **50501-0000**

Date of Birth: **10/15/1992** Driver's License Number: **034CC4449** Citation Charge Code 1: Citation Charge 1

Gender: **FEMALE** State: **IA** Class: **C** Endorsements: **NONE** Restrictions: **NONE** Citation Charge Code 2: Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3: Citation Charge 3

Seating Position: **01** Injury Status: **4** Occupant Protection: **9** Airbag Deployment: **5** Airbag Switch Status: **9** Ejection: **1** Ejection Path: **1** Trapped: **1**

Transported to: Transported by:

Owner's Name - Last: **FOSTER** First: **SAMANTHA** Middle: **LOUISE** Suffix: Owner Company Name

Address: **216 N 19TH ST** City: **FORT DODGE** State: **IA** Zip: **50501-0000**

Insurance Co. Name: **INTEGRITY MUTUAL** Insurance Policy #: **FA1601369-12** License Plate #: **BBM384** State: **IA** Year: **2013**

VIN No.: **5YFBUEE7DP119099** Year: **2013** Make: **TOYOTA - TOYT** Model: **COA** Style: **4D** Tow #: **NO** Approximate Cost to Repair or Replace: **\$540.00**

Initial Travel Direction: **2** Vehicle Action: **11** Speed Limit: **25** Point of Initial Impact: **05** Most Damaged Area: **05** Extent of Damage: **2** Underride/Override: **1** Private?

Total Occupants: **1** Traffic Controls: **02** Vehicle Config.: **01** Cargo Body Type: **01** Vehicle Defect: **01** Driver Condition: **1** Vision Obscured: **01** Contributing Circumstances, Driver (up to two): **28**

SEQUENCE OF EVENTS: First Event: **21** Second Event: Third Event: Fourth Event: Most Harmful Event (by vehicle): **21**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type: **1** Emergency Status: **3**

Carrier Name: Address: City: State Zip

US DOT # or MC #: Number of Axles: Gross Vehicle Weight Rating: Placard #: Hazardous Materials Released?

UNIT 002

Driver's Name - Last: **WITTMACK** First: **CHELSEA ROSE** Middle: Suffix: Home/Cell Phone Number: **(515) 351-9728**

Address: **1524 2ND ST** City: **WEBSTER CITY** State: **IA** Zip: **50595-0000**

Date of Birth: **07/01/1991** Driver's License Number: **264DD5561** Citation Charge Code 1: Citation Charge 1

Gender: **FEMALE** State: **IA** Class: **C** Endorsements: **NONE** Restrictions: **NONE** Citation Charge Code 2: Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3: Citation Charge 3

Seating Position: **01** Injury Status: **5** Occupant Protection: **1** Airbag Deployment: **9** Airbag Switch Status: **9** Ejection: **1** Ejection Path: **1** Trapped: **1**

Transported to: Transported by:

Owner's Name - Last: **WITTMACK** First: **CHELSEA ROSE** Middle: Suffix: Owner Company Name

Address: **1524 2ND ST** City: **WEBSTER CITY** State: **IA** Zip: **50595-0000**

Insurance Co. Name: **PROGRESSIVE CASUALTY** Insurance Policy #: **901043184** License Plate #: **275XQW** State: **IA** Year: **2013**

VIN No.: **2B3HD46RX1H690262** Year: **2001** Make: **DODGE - DODG** Model: **INTREPID** Style: **4D** Tow #: **NO** Approximate Cost to Repair or Replace: **\$0.00**

Initial Travel Direction: **2** Vehicle Action: **01** Speed Limit: **25** Point of Initial Impact: **01** Most Damaged Area: Extent of Damage: **1** Underride/Override: **1** Private?

Total Occupants: **1** Traffic Controls: **02** Vehicle Config.: **01** Cargo Body Type: **01** Vehicle Defect: **01** Driver Condition: **1** Vision Obscured: **01** Contributing Circumstances, Driver (up to two): **27**

SEQUENCE OF EVENTS: First Event: **21** Second Event: Third Event: Fourth Event: Most Harmful Event (by vehicle): **21**

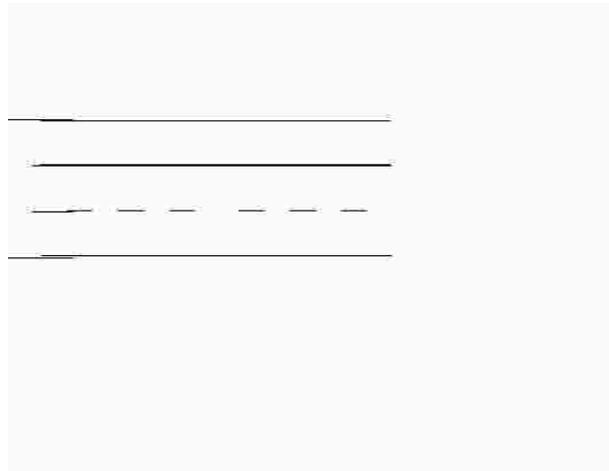
Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type: **1** Emergency Status: **3**

Carrier Name: Address: City: State Zip

US DOT # or MC #: Number of Axles: Gross Vehicle Weight Rating: Placard #: Hazardous Materials Released?

ACCIDENT ENVIRONMENT			ROADWAY CHARACTERISTICS Major Contributing Circumstances:		WORKZONE RELATED? NO	SEQUENCE OF EVENTS
Location of First Harmful Event	1	Weather Conditions	Environment	1	Location	First Harmful Event of Crash (use codes 11-42 only) 21
Manner of Crash/Collision	3	(up to two)	Roadway	01	Type	
Light Conditions	1	Surface Conditions	Type of Roadway Junction/Feature	11	Workers Present?	

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NARRATIVE

Describe what happened (refer to vehicles by number)

NARRATIVE BY OFFICER RUGGLES.

WHILE ON PATROL IN FORT DODGE ON THE 13TH OF MAY, 2013, I WAS DISPATCHED TO FORT DODGE FORD ON THE 2800 BLK OF 5TH AVE S IN REFERENCE TO A 10-50.

ONCE THERE, I SPOKE TO SAMANTHA FOSTER, WHO SAID THAT SHE WAS REAR-ENDED ON THE 2800 BLK OF 1ST AVE S. SAMATHA SAID THAT SHE AND THE OTHER DRIVER THEN PULLED INTO A PARKING LOT AND LOOKED OVER THE VEHICLES, AND SAMATHA SAID THAT THE OTHER DRIVER CHELSEA WHITMAAK WAS VERY ILL-TEMPERED, AND QUICKLY SCROLLED DOWN INSURANCE INFORMATION AND LEFT AFTER SEEING NO DAMAGE.

SAMANTHA ALSO HAD HER MOTHER PRESENT, AND COMPLAINED ABOUT HER NECK AND BACK BEING SORE, BUT DECLINED MEDICAL ATTENTION CITING SHE HAD MADE A CHIROPRACTOR APPT. FOR THE NEXT MORNING. I PHONED CHELSEA AND HAD HER COME TO MY LOCATION (ACROSS THE STREET) TO GET HER INFORMATION FOR A REPORT. SAMANTHA HAD MINOR DAMAGE TO THE REAR BUMPER AND AN ESTIMATE FOR ABOUT \$540.00 IN DAMAGES.

NO CITATIONS WERE ISSUED, NO WITNESSES IDENTIFIED.

Officer RUGGLES NICK	Badge No. 2122	Time Officer Notified of Accident 14:03	Hrs.	Time Officer Arrived At Scene 14:04	Hrs.
Name of Agency FORT DODGE POLICE DEPARTMENT	Date of Report 05/13/2013	Investigation made at scene? NO	T.I. #		
Report Reviewed By: WILSON, MATT	Date Reviewed 05/13/2013	Agency Specific	Other Technical Investigation Agency		



Iowa Department of Transportation
INVESTIGATING OFFICERS REPORT OF
MOTOR VEHICLE ACCIDENT

Law Enforcement Case Number:
13-3488

Legal Intervention? Private Property?

Location Literal Description
2900 BLOCK 1ST AVE S

X-Coordinate: **00404957**
Y-Coordinate: **04706524**

If Divided Highway, Provide Route (Cardinal) Travel Direction
"N/A"

LOCATION

Date of Accident: **11/23/2013** Time of Accident: **18:30** Hrs. County: **WEBSTER - 94** Accident occurred within corporate limits of (city): **FORT DODGE - 2690**

If accident occurred outside of city limits show general vicinity: **"N/A"** of nearest city **"N/A"**

On Road, Street, or Highway: **"N/A"** At Intersection with: **"N/A"**

Note: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a milepost or definable intersection, bridge, or railroad crossing, using two distances and directions if necessary.

Distance **"N/A"** Direction **"N/A"** and **"N/A"** Direction **"N/A"** of

Milepost Number **"N/A"** Or Definable intersection, bridge, or railroad crossing **"N/A"**

UNIT

Driver's Name - Last: **ELDRIDGE** First: **JODY** Middle: **LYNN** Suffix: Home/Cell Phone Number: **(515) 408-4540**

Address: **1900 MAIN ST APT 32** City: **MANSON** State: **IA** Zip: **50563**

Date of Birth: **10/07/1980** Driver's License Number: **703YY1275** Citation Charge Code 1: Citation Charge 1

Gender: **FEMALE** State: **IA** Class: **C** Endorsements: **NONE** Restrictions: **B** Citation Charge Code 2: Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3: Citation Charge 3

Seating Position: **01** Injury Status: **4** Occupant Protection: **9** Airbag Deployment: **5** Airbag Switch Status: **9** Ejection: **1** Ejection Path: **1** Trapped: **1**

Transported to: Transported by:

Owner's Name - Last: **ELDRIDGE** First: **JODY** Middle: **LYNN** Suffix: Owner Company Name

Address: **1900 MAIN ST APT 32** City: **MANSON** State: **IA** Zip: **50563**

Insurance Co. Name: **AMERICAN FAMILY MUTUAL** Insurance Policy #: **1945-1103-01-63FPPAIA** License Plate #: **645YHF** State: **IA** Year: **2013**

VIN No.: **KNAGE124975133274** Year: **2007** Make: **KIA - KIA** Model: **OPTIMA** Style: **4DR** Tow #: **NO** Approximate Cost to Repair or Replace: **\$5,000.00**

Initial Travel Direction: **4** Vehicle Action: **01** Speed Limit: **25** Point of Initial Impact: **02** Most Damaged Area: **02** Extent of Damage: **4** Underride/Override: **1** Private?

Total Occupants: **1** Traffic Controls: **01** Vehicle Config.: **01** Cargo Body Type: **01** Vehicle Defect: **01** Driver Condition: **1** Vision Obscured: **08** Contributing Circumstances, Driver (up to two): **26**

SEQUENCE OF EVENTS: First Event: **21** Second Event: Third Event: Fourth Event: Most Harmful Event (by vehicle): **21**

Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type: **1** Emergency Status: **3**

Carrier Name: Address: City: State Zip

US DOT # or MC #: Number of Axles: Gross Vehicle Weight Rating: Placard #: Hazardous Materials Released?

UNIT

Driver's Name - Last: **GALLENTE** First: **LEE** Middle: **OSCAR** Suffix: Home/Cell Phone Number: **(515) 832-4161**

Address: **526 BANK ST** City: **WEBSTER CITY** State: **IA** Zip: **50595**

Date of Birth: **03/14/1974** Driver's License Number: **540XX6100** Citation Charge Code 1: Citation Charge 1

Gender: **MALE** State: **IA** Class: **C** Endorsements: **NONE** Restrictions: **NONE** Citation Charge Code 2: Citation Charge 2

Alcohol Test Given? **1 - NONE** Test Results: Drug Test Given? **1 - NONE** Test Results: Citation Charge Code 3: Citation Charge 3

Seating Position: **01** Injury Status: **5** Occupant Protection: **9** Airbag Deployment: **5** Airbag Switch Status: **9** Ejection: **1** Ejection Path: **1** Trapped: **1**

Transported to: Transported by:

Owner's Name - Last: **GALLENTE** First: **LEE** Middle: **OSCAR** Suffix: Owner Company Name

Address: **526 BANK ST** City: **WEBSTER CITY** State: **IA** Zip: **50595**

Insurance Co. Name: **FARM BUREAU MUTUAL** Insurance Policy #: **7722697** License Plate #: **700PNH** State: **HL** Year: **2014**

VIN No.: **1FMPU16525LA51402** Year: **2005** Make: **FORD - FORD** Model: **EXPEDITION** Style: **MV** Tow #: **NO** Approximate Cost to Repair or Replace: **\$3,000.00**

Initial Travel Direction: **3** Vehicle Action: **02** Speed Limit: **25** Point of Initial Impact: **08** Most Damaged Area: **08** Extent of Damage: **3** Underride/Override: **1** Private?

Total Occupants: **2** Traffic Controls: **01** Vehicle Config.: **04** Cargo Body Type: **01** Vehicle Defect: **01** Driver Condition: **1** Vision Obscured: **08** Contributing Circumstances, Driver (up to two): **17,26**

SEQUENCE OF EVENTS: First Event: **04** Second Event: **21** Third Event: Fourth Event: Most Harmful Event (by vehicle): **21**

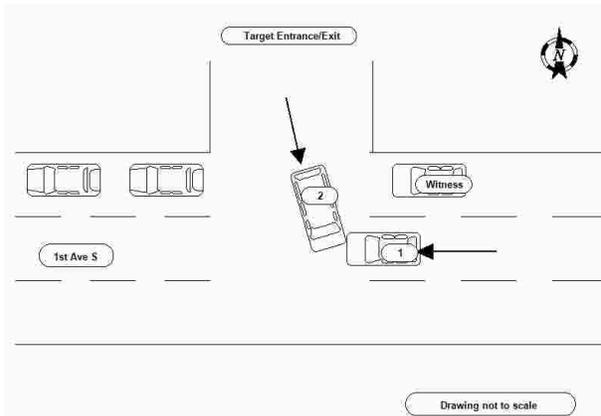
Commercial Trailer Attached to Power Unit: State Year Attached to Trailer Unit: State Year Emergency Vehicle Type: **1** Emergency Status: **3**

Carrier Name: Address: City: State Zip

US DOT # or MC #: Number of Axles: Gross Vehicle Weight Rating: Placard #: Hazardous Materials Released?

ACCIDENT ENVIRONMENT		ROADWAY CHARACTERISTICS Major Contributing Circumstances:		WORKZONE RELATED? NO	SEQUENCE OF EVENTS
Location of First Harmful Event	1	Weather Conditions	Environment	Location	First Harmful Event of Crash (use codes 11-42 only)
Manner of Crash/Collision	5	(up to two)	Roadway	Type	21
Light Conditions	4	Surface Conditions	Type of Roadway Junction/Feature	Workers Present?	
		1	04		

D I A G R A M



NARRATIVE

Describe what happened (refer to vehicles by number)

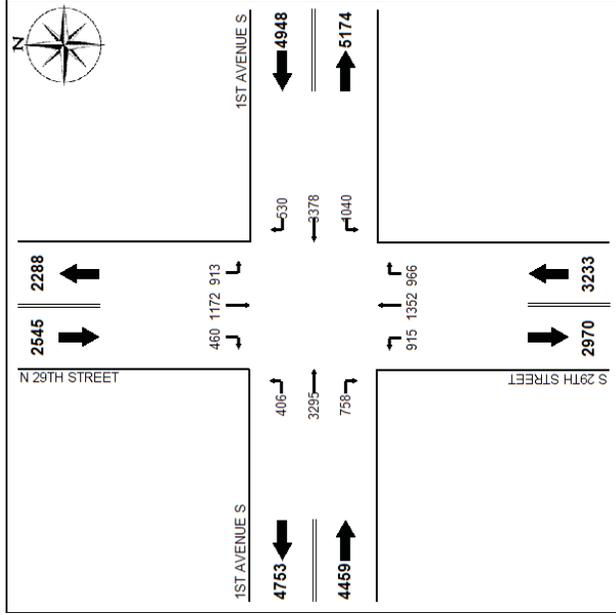
Officer Slama was sent to a crash that happened in front of the Target store on 1st Ave S (2900 block 1st Ave S). Both units had pulled into the Target parking lot when officer arrived on scene. There was still debris in the roadway where the crash had occurred, straight south of the Target parking lot entrance. Unit 1 was west bound on 1st Ave S in the turning lane. Unit 2 was at the Target exit, going to turn left - east onto 1st Ave S. An witness was stopped at the Target entrance. She had stated that she was stopped for the traffic ahead of her (all waiting for the traffic light at 1st Ave S and 29th St).

Unit 2 pulled out of the Target lot turning left and driver 2 stated he didn't see unit 1 and the two crashed in the turning lane. Driver 1n stated she was just heading west bound when Unit 2 pulled in front of her. Witness stated unit 2 pulled out from the Target lot and struck unit 1 going around her in the center lane. Unit 1 and Unit 2 were able to pull out of traffic. Driver 1 stated she was okay, but had a complaint of pain in her wrist and that she had hit her head. Unit 2 driver and passenger (one of his children) were okay. Photos were taken of the vehicles. Unit 1 was not able to be driven any farther and was left in the Target lot until driver decided what to do with it. Unit 2 was drivable.

WITNESSES	Witness Name - Last LANNING	First VICKI	Middle	Suffix
	Address		City DAKOTA CITY	State IA
	Home/Cell Phone # (515) 604-1960		Work Phone #	
Officer SLAMA BRYAN	Badge No. 2115	Time Officer Notified of Accident 18:33 Hrs.		Time Officer Arrived At Scene 18:35 Hrs.
Name of Agency FORT DODGE POLICE DEPARTMENT	Date of Report 11/23/2013	Investigation made at scene? YES	T.I. #	
Report Reviewed By: MERNKA, DENNIS	Date Reviewed 11/24/2013	Agency Specific	Other Technical Investigation Agency	

Iowa Department of Transportation
Turning Movement Traffic Count Summary
 Annualized Daily Traffic For All Vehicles

Station Number: 94433841099
 Count Date: Thursday, April 07, 2011
 County: Webster
 Location Description: 1st Ave S & S 29th St
 Volume Factor: 1.730
 Pass Class Factor: 1.733
 SU Class Factor: 1.546
 Combo Class Factor: 1.621

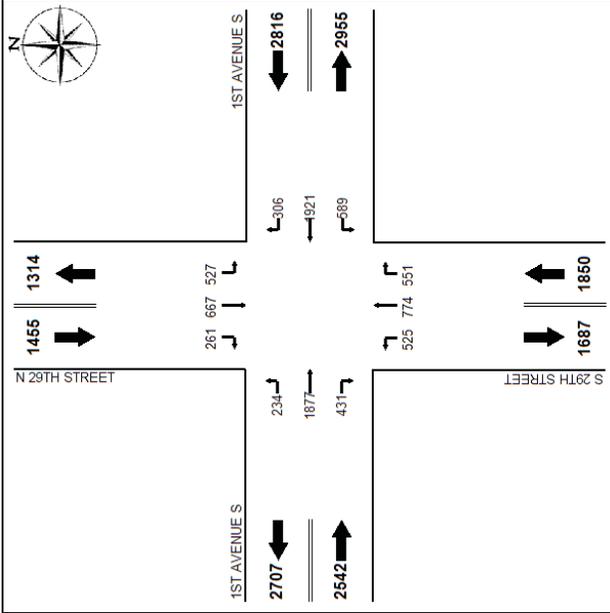


Raw Data-All Vehicles:

	N Leg			E Leg			S Leg			W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
07:00	6	3	0	1	12	3	3	5	4	0	2	7
07:15	6	11	4	3	31	2	4	4	3	1	16	8
07:30	5	15	3	5	49	2	5	5	4	0	34	9
07:45	8	23	4	2	56	6	7	15	7	2	39	17
08:00	16	21	2	2	65	4	5	16	12	4	40	11
08:15	16	14	14	8	44	3	9	13	10	2	41	15
08:30	9	19	8	8	49	8	17	8	14	2	45	10
08:45	13	28	8	7	43	5	14	15	12	4	50	20
11:00	8	24	14	20	59	12	25	26	21	6	61	15
11:15	18	28	11	18	71	6	14	26	20	14	67	20
11:30	26	41	9	24	79	8	12	31	26	12	88	23
11:45	16	29	10	29	80	9	24	25	29	13	75	27
12:00	24	28	9	30	70	13	22	33	19	6	81	13
12:15	29	19	11	30	89	14	34	35	23	13	81	14
12:30	22	27	14	27	73	10	26	42	31	14	78	24
12:45	33	15	15	32	70	11	32	32	37	7	76	11
15:00	14	22	13	18	98	14	21	28	28	11	95	13
15:15	27	35	12	22	77	19	28	34	21	12	68	17
15:30	33	30	10	15	93	14	18	36	12	15	93	17

	N Leg			E Leg			S Leg			W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
15:45	20	29	12	28	92	18	27	21	33	13	103	15
16:00	17	27	14	31	94	15	25	37	17	17	96	11
16:15	23	34	9	30	88	24	16	25	21	9	84	13
16:30	22	27	18	34	94	16	27	65	28	9	102	29
16:45	22	26	12	66	66	15	23	41	23	8	67	22
17:00	25	29	9	28	89	15	24	44	25	7	100	14
17:15	21	24	11	31	86	15	25	44	31	11	92	17
17:30	25	28	2	22	70	11	21	40	15	9	59	13
17:45	23	27	8	30	65	14	20	35	13	13	52	13

Iowa Department of Transportation
Turning Movement Traffic Count Summary
 Vehicle Type: Passenger Vehicles



Station Number:
 94433841099

Count Date:
 Thursday, April 07, 2011

County:
 Webster

Location Description:
 1st Ave S & S 29th St

Volume Factor: N/A
 Pass Class Factor: N/A
 SU Class Factor: N/A
 Combo Class Factor: N/A

Raw Data-Passenger Vehicles:

	N Leg			E Leg			S Leg			W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
07:00	6	3	0	1	9	3	2	4	4	0	18	7
07:15	6	11	4	3	30	2	4	4	3	1	14	8
07:30	5	14	3	2	47	2	5	5	2	0	34	8
07:45	8	23	3	2	55	6	7	15	7	2	38	17
08:00	16	20	2	2	65	4	5	16	11	4	39	11
08:15	16	14	13	6	43	3	9	13	10	2	40	14
08:30	9	19	7	8	47	8	16	7	14	2	44	9
08:45	13	28	8	7	41	5	14	15	12	4	46	20
11:00	8	24	13	19	58	12	25	26	21	6	61	15
11:15	18	29	11	17	71	6	14	25	20	14	66	19
11:30	26	41	9	24	77	8	12	30	26	12	88	23
11:45	16	29	10	29	77	9	24	25	27	13	74	26
12:00	24	28	9	30	70	13	22	32	19	6	81	13
12:15	29	18	10	29	88	14	34	35	23	13	80	14
12:30	22	27	14	27	72	10	26	40	31	14	78	23
12:45	33	15	15	32	68	11	32	32	36	7	76	11
15:00	14	22	13	18	97	14	21	28	28	11	95	13
15:15	27	33	12	22	76	19	28	34	21	12	68	17
15:30	33	30	10	15	91	14	17	36	12	15	92	17

	N Leg			E Leg			S Leg			W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
15:45	20	24	12	26	91	18	27	21	33	13	103	15
16:00	17	27	14	30	94	15	25	37	17	17	94	11
16:15	23	32	9	30	87	24	16	25	20	9	82	13
16:30	22	27	18	34	94	16	27	65	28	9	101	29
16:45	22	26	12	66	64	15	23	41	23	8	67	22
17:00	25	29	9	27	88	15	24	44	25	7	97	13
17:15	21	23	11	31	86	15	25	44	31	11	91	17
17:30	25	28	2	22	70	11	21	40	15	9	59	13
17:45	23	27	8	30	65	14	20	35	13	13	51	13

Iowa Department of Transportation

Turning Movement Traffic Count Summary

Vehicle Type: Single-Unit Trucks

Station Number:
94433841099

Count Date:
Thursday, April 07, 2011

County:
Webster

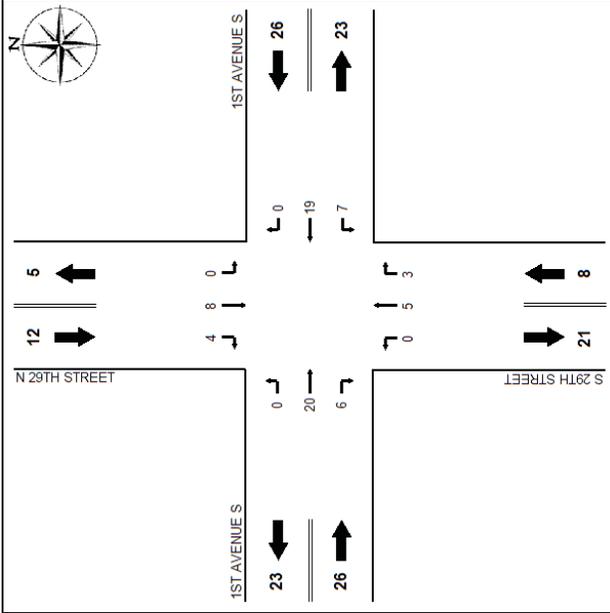
Location Description:
1st Ave S & S 29th St

Volume Factor: N/A

Pass Class Factor: N/A

SU Class Factor: N/A

Combo Class Factor: N/A

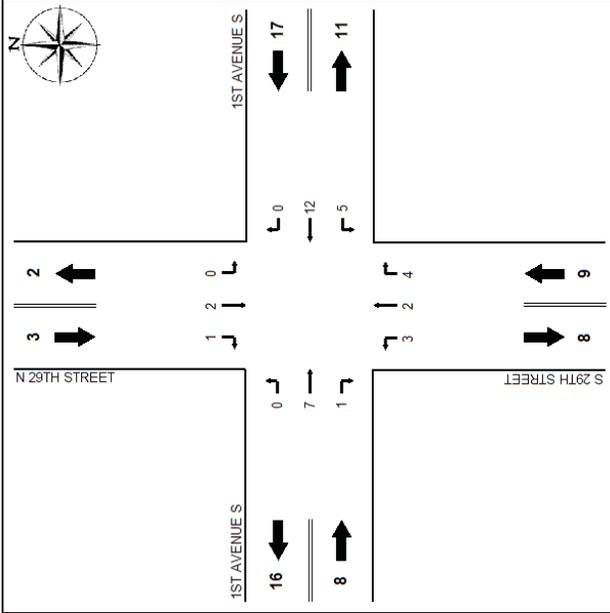


Raw Data-Single-Unit Trucks:

	N Leg			E Leg			S Leg			W Leg		
	L	T	R	L	T	R	L	T	R	L	T	R
07:00	0	0	0	0	0	0	0	0	0	0	0	0
07:15	0	0	0	0	0	0	0	0	0	0	0	0
07:30	0	0	0	0	0	0	0	0	0	0	0	0
07:45	0	0	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0	0	0
08:15	0	0	0	0	0	0	0	0	0	0	0	0
08:30	0	0	0	0	0	0	0	0	0	0	0	0
08:45	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0	0	0
12:45	0	0	0	0	0	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0	0	0	0	0	0
15:15	0	0	0	0	0	0	0	0	0	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0	0	0

Iowa Department of Transportation Turning Movement Traffic Count Summary

Vehicle Type: Combination Trucks



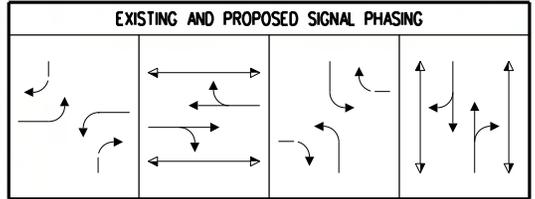
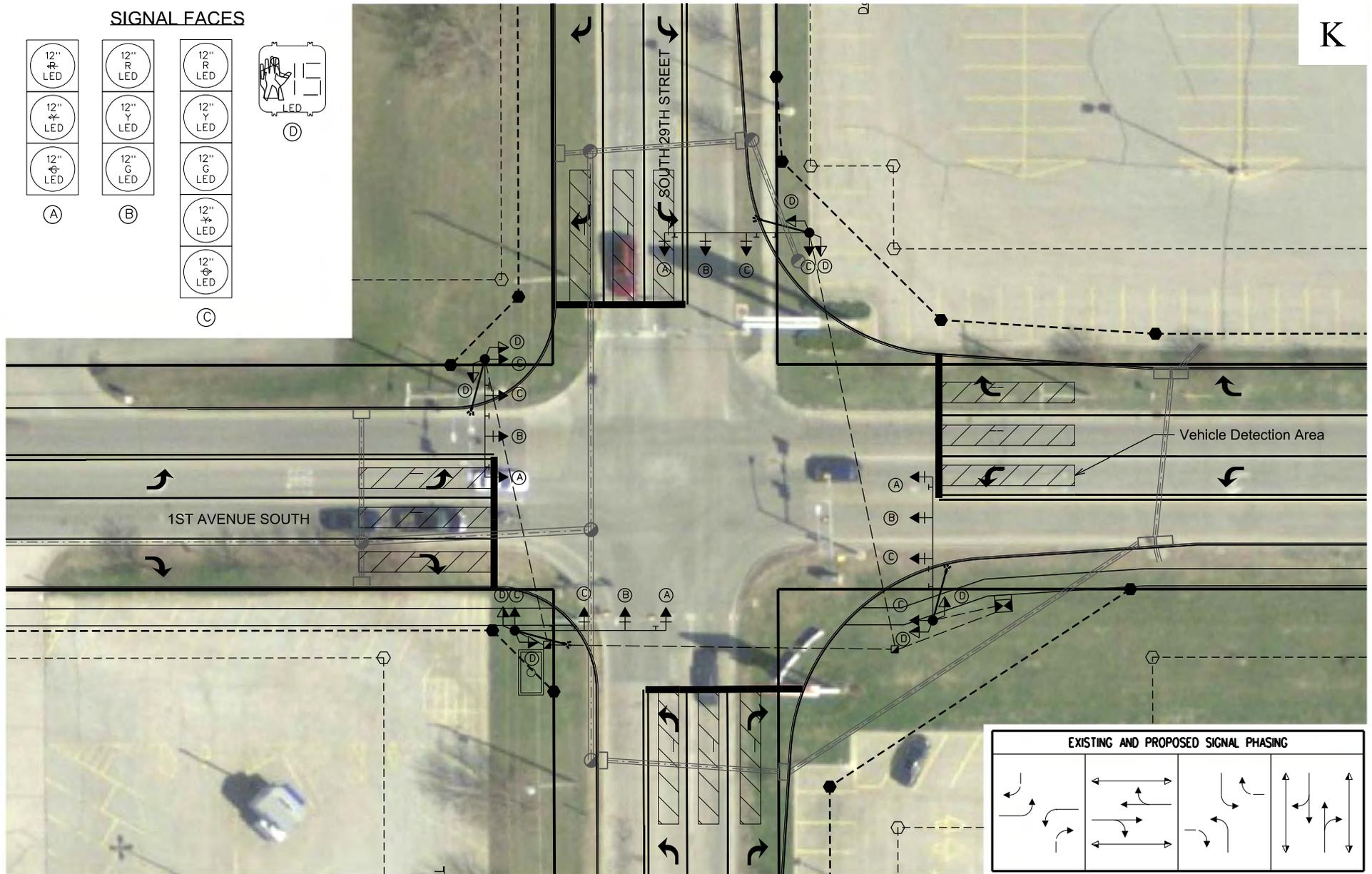
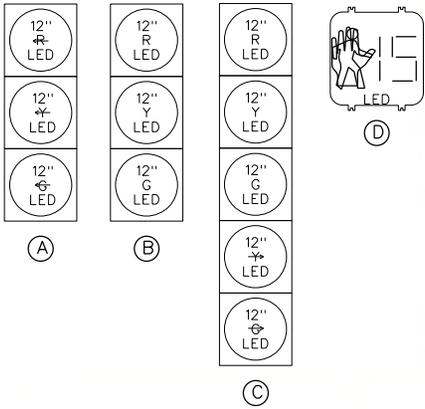
Station Number: 94433841099
 Count Date: Thursday, April 07, 2011
 County: Webster
 Location Description: 1st Ave S & S 29th St
 Volume Factor: N/A
 Pass Class Factor: N/A
 SU Class Factor: N/A
 Combo Class Factor: N/A

Raw Data-Combination Trucks:

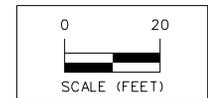
	N Leg		E Leg		S Leg		W Leg	
	L	R	L	R	L	R	L	R
07:00	0	0	0	0	1	0	0	1
07:15	0	0	1	0	0	0	0	1
07:30	0	0	2	2	0	0	1	0
07:45	0	1	0	0	0	0	0	0
08:00	0	0	0	0	0	0	1	0
08:15	0	0	1	1	0	0	0	0
08:30	0	0	0	0	1	0	0	0
08:45	0	0	0	0	0	0	0	0
11:00	0	0	1	1	0	0	0	0
11:15	0	0	0	0	0	0	0	0
11:30	0	0	0	2	0	1	0	0
11:45	0	0	0	1	0	0	1	0
12:00	0	0	0	0	0	0	0	1
12:15	0	0	1	0	0	0	0	0
12:30	0	0	0	1	0	1	0	0
12:45	0	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0	0
15:15	0	0	0	0	0	0	0	0
15:30	0	0	0	0	1	0	0	1

	N Leg		E Leg		S Leg		W Leg	
	L	R	L	R	L	R	L	R
15:45	0	0	0	1	0	0	0	0
16:00	0	0	0	0	0	0	0	0
16:15	0	1	0	0	0	0	1	0
16:30	0	0	0	0	0	0	0	1
16:45	0	0	0	0	0	0	0	0
17:00	0	0	1	0	0	0	0	1
17:15	0	1	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0

SIGNAL FACES



TRAFFIC SIGNAL LAYOUT
TRAFFIC SAFETY IMPROVEMENT PROGRAM APPLICATION
EAST REGION PUBLIC IMPROVEMENTS PHASE 3
1ST AVENUE S AND S 29TH STREET
FORT DODGE, IOWA



Benefit/Cost Ratio Calculations

The assumptions applied to the Benefit/Cost Calculations were based on recommended information provided by the Iowa DOT Office of Traffic and Safety and previous application history:

- Service Life: 20 years – based on the right turn lane installation and driveway consolidation
- Crash Reduction Factor: 19% - a conservative estimate for the combination of improvements. Right turn lane installation at 1st Avenue South and South 29th Street – 15% (range from 8% to 41%). Driveway consolidation – 5% (reduction of 5 driveways, equation estimation crash reduction factor). Data from the <http://www.cmfclearinghouse.org/> website.

This reduction factor may be conservative based on the crash history detailed in Section I and as described in the Narrative. Many of the crashes could be contributed to potentially a vehicle slowing at the traffic signal to turn right, entering/exiting a driveway, and narrow lanes.

- Growth: According to the Iowa DOT Traffic Count Data, traffic levels along this corridor have not changed on 1st Avenue S from 1999 to 2011. There was some fluctuation in 2003 (decrease of 30%) and no counts were taken in 2007. However, for the potential regrowth of the commercial area, a growth rate of 1% per year was assumed over the service life of the improvements.

Traffic Safety Improvement Program Application
 East Region Public Improvements Phase 3
 1st Avenue S and S 29th Street
 Fort Dodge, Iowa

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Road Segment Benefit / Cost Safety Analysis		Rev. 5/14
Iowa DOT Office of Traffic & Safety		
County:	Webster	Prepared by: City of Fort Dodge Date Prepared: Jul 18, 2014
Location:	1st Ave S from 750' west to 400' east of S 29th St & S 29th St from 300' north to 1,000' south of 1st Ave S	
Improvement		
Proposed Improvement(s): 1st Avenue South & South 29th St Reconstruction (driveway consolidation, increase clear zone, signalization @ 1st Ave & 29th St)		
\$ 375,000	Estimated Improvement Cost, EC	20 Est. Improvement Life, years, Y
\$ -	Other Annual Cost (after initial year), AC	19 Crash Reduction Factor (integer), CRF
\$ -	Present Value Other Annual Costs, OC	4.0% Discount Rate, INT
$OC = \frac{AC}{INT} \left(1 - \frac{1}{(1+INT)^Y} \right)$		\$375,000 Present Value All Costs, COST = EC + OC
Traffic Volume Data		
Source:	Iowa DOT	2011 Date of traffic count
Two-way		
Length (mi.)	veh/day	Description
0.14	10,122	1st Ave S
0.08	9,211	1st Ave S
0.06	4,833	S 29th St
0.19	6,200	S 29th St
0.47	miles total	
1.0%	Projected Traffic Growth (0% - 10%), G	
3,603	Current Vehicle Miles / Day, VM	
4,396	End of Life Veh. Miles / Day	
1,314,940	Current Veh. Miles / Year, AM	
28,953,680	Total Projected Veh. Miles Over Life of Project, TVMT	
		$TVMT = \frac{AM}{-G} \left(1 - \left(\frac{1+G}{1} \right)^Y \right)$
Crash Data		
2009	First full year -->	2013 Last full year
6	Additional months	
5.5	years, Time Period, T	
values as of Dec. 2007		
Fatal Crashes	→	1 Fatalities @ \$4,500,000 \$ -
	→	1 Major Injuries @ \$325,000 \$ 325,000
12 Injury Crashes	→	1 Minor Injuries @ \$65,000 \$ 65,000
	→	12 Possible Injuries @ \$35,000 \$ 420,000
62	Property Damage Only	(assumed cost per crash) \$7,400 \$ 547,600
-OR- enter all Property Costs of all crashes:		
74	Total Crashes, TA	Total \$ Loss, LOSS \$ 1,357,600
13.45	Current Crashes / Year, AA = TA / T	1,023.2 Crashes / HMVM, Crash Rate, CR
\$ 18,346	Cost per Crash, AVCR = LOSS / TA	CR = TA × 10 ⁸ / (AM × T)
296.3	Total Expected Crashes, TCR = CR × TVMT / 10⁸	\$692,730 Present Value of Avoided Crashes, BENEFIT
2.56	Crashes Avoided First Year AAR = AA × CRF / 100	
\$ 46,899	Crash Costs Avoided in First Year, AAR × AVCR	
56.3	Total Avoided Crashes, TCR × CRF / 100	$BEN = \frac{AVCR \times AAR}{(INT - G)} \left(1 - \left(\frac{1+G}{1+INT} \right)^Y \right)$
Benefit / Cost Ratio		
Benefit : Cost = \$692,730 : \$375,000 = 1.85 : 1		

Traffic Safety Improvement Program Application
East Region Public Improvements Phase 3
1st Avenue S and S 29th Street
Fort Dodge, Iowa

Appendix

- Crash Summary (2009- May 2014)
- Crash Diagram (2009-May 2014)



Major Cause Summary

Ft Dodge East Region Phase 3

Report Version 1.1 Jan 2005

Analysis Years: 2009 [17], 2010 [16], 2011 [9], 2012 [8], 2013 [18], 2014 [6]

Crash Summary:		Injury Summary:		Surface Condition Summary:	
Fatal	-	Fatal	-	Dry	42
Major Injury	1	Major Injury	1	Wet	13
Minor Injury	1	Minor Injury	1	Ice	4
Possible/Unknown	10	Possible	11	Snow	7
PDO	62	Unknown	1	Slush	5
Total Crashes	74	Total Injuries	14	Sand/Dirt/Oil/Gravel	-
				Water	-
				Other	1
				Unknown	2
				Not Reported	-
				Total Crashes	74

TOT Property Damage: \$277,215

AVG Property Damage: \$3,746

Major Cause Summary:

- | | |
|--|---|
| <ul style="list-style-type: none"> Animal 1 Ran Traffic Signal 1 Ran Stop Sign 5 Crossed Centerline FTYROW: At Uncontrolled Intersection FTYROW: Making Right Turn on Red Signal 2 FTYROW: From Stop Sign FTYROW: From Yield Sign 5 FTYROW: Making Left Turn 9 FTYROW: From Driveway FTYROW: From Parked Position FTYROW: To Pedestrian FTYROW: Other (explain in narrative) Traveling Wrong Way or on Wrong Side of Rd 3 Driving Too Fast for Conditions Exceeded Authorized Speed 2 Made Improper Turn Improper Lane Change 6 Followed Too Close Disregarded Railroad Signal Disregarded Warning Sign Operating Vehicle in Reckless/Aggressive Manner | <ul style="list-style-type: none"> Improper Backing Illegally Parked/Unattended 2 Swerving/Evasive Action Over-Correcting/Over-Steering Downhill Runaway Equipment Failure Separation of Units Ran Off Road - Right Ran Off Road - Straight Ran Off Road - Left 2 Lost Control 1 Inattentive/Distracted By: Passenger Inattentive/Distracted By: Use of Phone or Other 1 Inattentive/Distracted By: Fallen Object 1 Inattentive/Distracted By: Fatigued/Asleep 2 Other: Vision Obstructed Oversized Load/ Oversized Vehicle Cargo/Equipment Loss or Shift 22 Other: Other Improper Action 6 Unknown 3 Other: No Improper Action None Indicated |
|--|---|

Selection Filter:

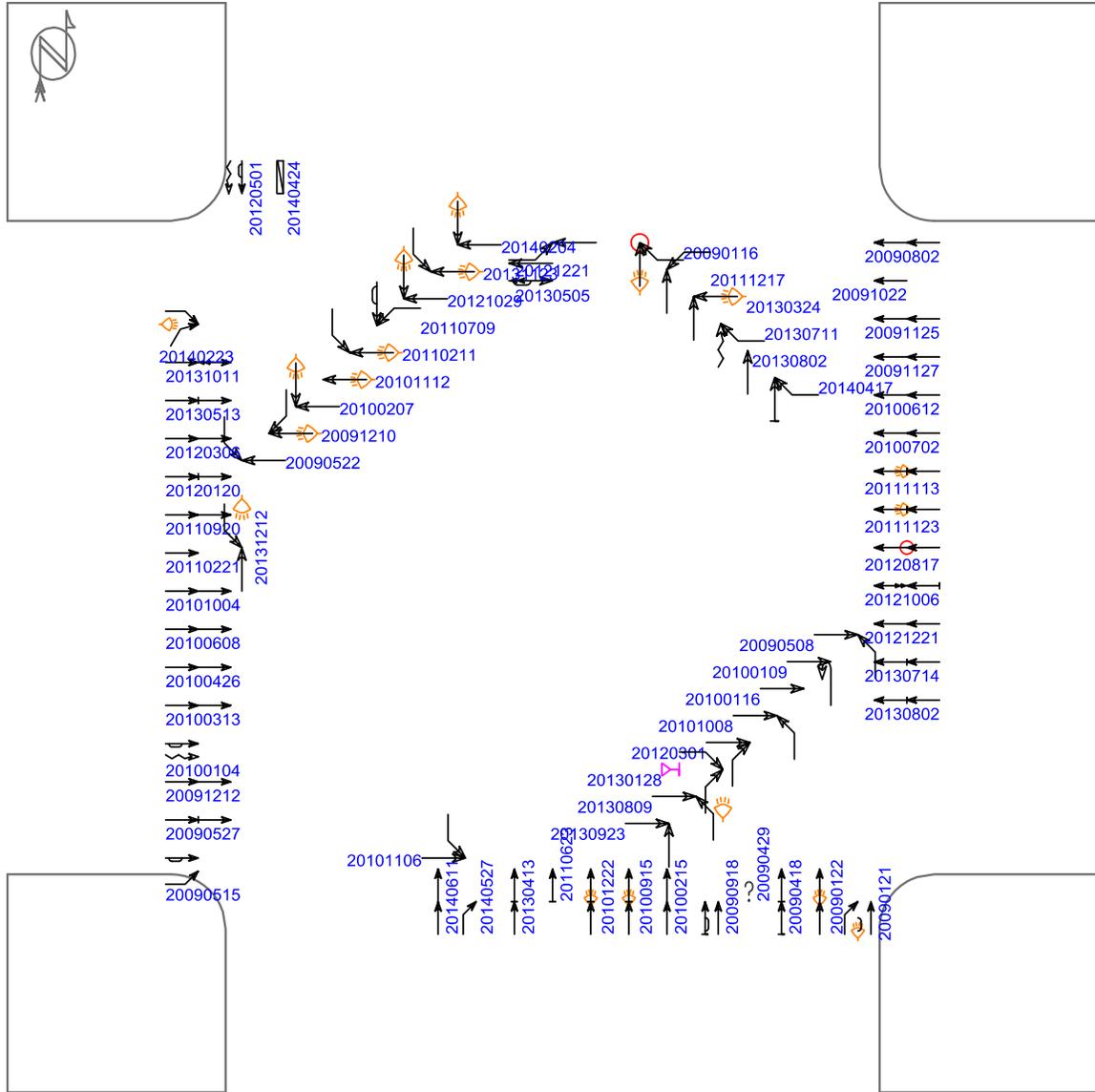
((YEAR <> 2004 and YEAR <> 2005 and YEAR <> 2006 and YEAR <> 2007 and YEAR <> 2008))

Analyst:

Notes:

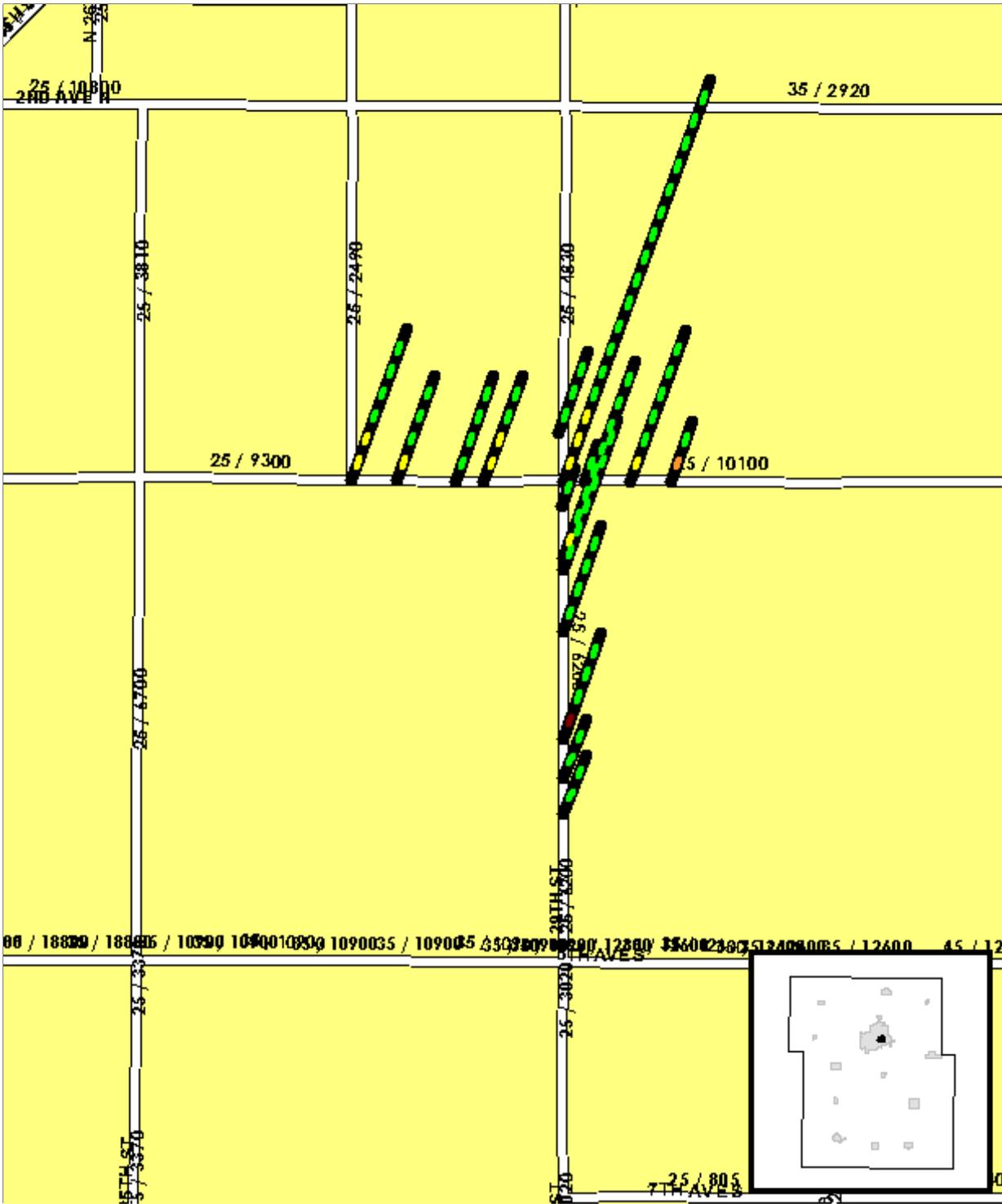
Ft Dodge East Region Phase 3

2009 - May 2014 Reportable Crashes



(1) crashes could not be placed in this schematic

- | | | | |
|--------------|------------------|--------------|------------------|
| ← Straight | ▭ Parked | ⊗ Pedestrian | ▣ Fixed objects: |
| ⊥ Stopped | ⚡ Erratic | ⊗ Bicycle | ▣ General |
| ← Unknown | ⚡ Out of control | ○ Injury | ▣ Signal |
| ↔ Backing | ↘ Right turn | ⊙ Fatality | ▣ Tree |
| ↔ Overtaking | ↙ Left turn | 🕒 Nighttime | ▣ Pole |
| ↔ Sideswipe | ↻ U-turn | 🚔 DUI | ▣ Curb |
| | | | ▣ Animal |
| | | | ◁ 3rd vehicle |
| | | | * Extra data |



Analyst:

Notes:

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE SUBMITTAL OF AN APPLICATION FOR TRAFFIC SAFETY IMPROVEMENT PROGRAM (TSIP) FUNDING FOR EAST REGION PHASE THREE PROJECT WHICH INCLUDES ADDING RIGHT TURN LANES AT ALL APPROACHES AND REPLACEMENT OF TRAFFIC SIGNALS TO THE INTERSECTION OF SOUTH 29TH STREET AND 1ST AVENUE SOUTH, REPLACEMENT OF TRAFFIC SIGNAL AND REMOVAL OF FIVE DRIVEWAYS TO CONSOLIDATE AND IMPROVE ACCESS.

WHEREAS, the Iowa Department of Transportation has established the TSIP and provides funding for locations where vehicular safety is a concern and documented.

WHEREAS, the South 29th Street and 1st Avenue South intersection has been identified as a location where vehicular safety and traffic flow could be improved and funded by TSIP.

WHEREAS, the improvements, including the addition of right turn lanes and the installation of a new traffic signals, will help reduce crashes in this area and improve traffic operations.

NOW, THEREFORE, BE IT RESOLVED by the City Council of Fort Dodge, Iowa, as follows:

1. The City Council supports and approves the application for TSIP funding.
2. The City Council hereby commits the additional City funds necessary for construction of the project beyond any TSIP funding.
3. The City Council hereby commits to accepting and maintaining these improvements.
4. The Mayor is hereby authorized to execute the application on behalf of the City.

PASSED AND APPROVED this 11th day of August, 2014.

AYE: _____

NAY: _____

OTHER: _____

Matt Bemrich, Mayor

ATTEST:

Jeff Nemmers, City Clerk