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# **GIAMPO – Policy Board**

**Tuesday, February 24, 2015**

**Regular Session**

## **Item E2**

### **City of Grand Island 1-6 Year Improvement Program**

**Staff Contact: John Adams, MPO Manager**

# **Agenda Memo E1, E2, E3, E4**

**From:** John T Adams, MPO Program manager

**Meeting:** February 24, 2015

**Subject:** Financial Constraint in Developing the Long Range Transportation Plan and Transportation Improvement Program.

**Item #'s:**

## **Background**

### **Items E1, E2, and E3 – Federal Requirements**

#### **E-1 Financial Constraint in the Development of the Long Range Transportation Plan (LRTP)**

A key component of a performance-based transportation plan is reviewing and estimating available financial resources. Developing a financial resource estimate typically involves developing an inventory of available funding streams, along with projections of funding that is forecast to be available from each funding stream over the life of the transportation plan. . The financial plan will contain information on funding sources at the Federal, State, and local levels. Reasonably expected funds will be estimated and projected over the entire lifespan of the transportation plan. When developing the financial plan, eligible projects and their phases will be prioritized and funding will be identified for each phase and the expected year of activity. Attached for your review is an excerpt from the Federal Highway Administration on Financial Planning in the Development of the Long Range Transportation Plan.

#### **E-2 City of Grand Island 1-6 Year Improvement Program**

One of the key planning activities required of the Policy Board, is the development of a Transportation Improvement Program (TIP). The TIP is developed on an annual bases identifying/programming projects that were initially identified in the LRTP. Currently, the City and County both develop 1-6 year transportation improvement plans for projects under Nebraska State Statute Section 39-2119. With the designation of the Grand Island Area becoming an MPO these activities will become a part of the federally mandated activity of the MPO, which is the development of the Transportation Improvement Program (TIP). Included is a PowerPoint presentation of the projects currently in the 1-6 program that will be presented to Grand Island City Council on February 24, 2015.

### **E-3 Proposed Dedicated Capital Improvement Fund Process**

A presentation will be made by John Collins P.E., Public Works Director, and William Clingman, Interim Finance Director.

As mentioned in E1, and E2, two (2) of the primary planning requirements of an MPO are to identify and have reasonable expectations of revenue streams to implement proposed projects, identified through the planning process. Many, if not all roadway projects have several phases (I.E., preliminary engineering, right-of-way needs, utility relocations, construction, and construction engineering, Etc.), these phases are generally spread out through several budget cycles. The presentation begins to outline possible changes to the budgeting of the Capital Improvement Program (CIP), to committing funding to projects over the life of their implementation.

### **E-4a Aerial Photography – Past Amendment to the Unified Planning Work Program (UPWP)**

Costs were solicited for aerial photography to be flown in the spring of 2015. As firm has been selected and recommendation has been made for City Council for February 24<sup>th</sup>. The anticipated period for the photography to be flown is between March 15–April 15. This is the optimal time for the photography to be taken. The high resolution photography will be used in the development of the Long Range Transportation Plan.

### **E-4b Performance-Based Long Range Transportation Plan**

The final negotiations are completed and submitted to the department of Roads for final agreements. These agreements will be taken to City Council on March 10<sup>th</sup>. The consultants will begin work shortly after the agreements are signed.

# **1 & 6 YEAR STREET IMPROVEMENT PLAN 2015-2020**

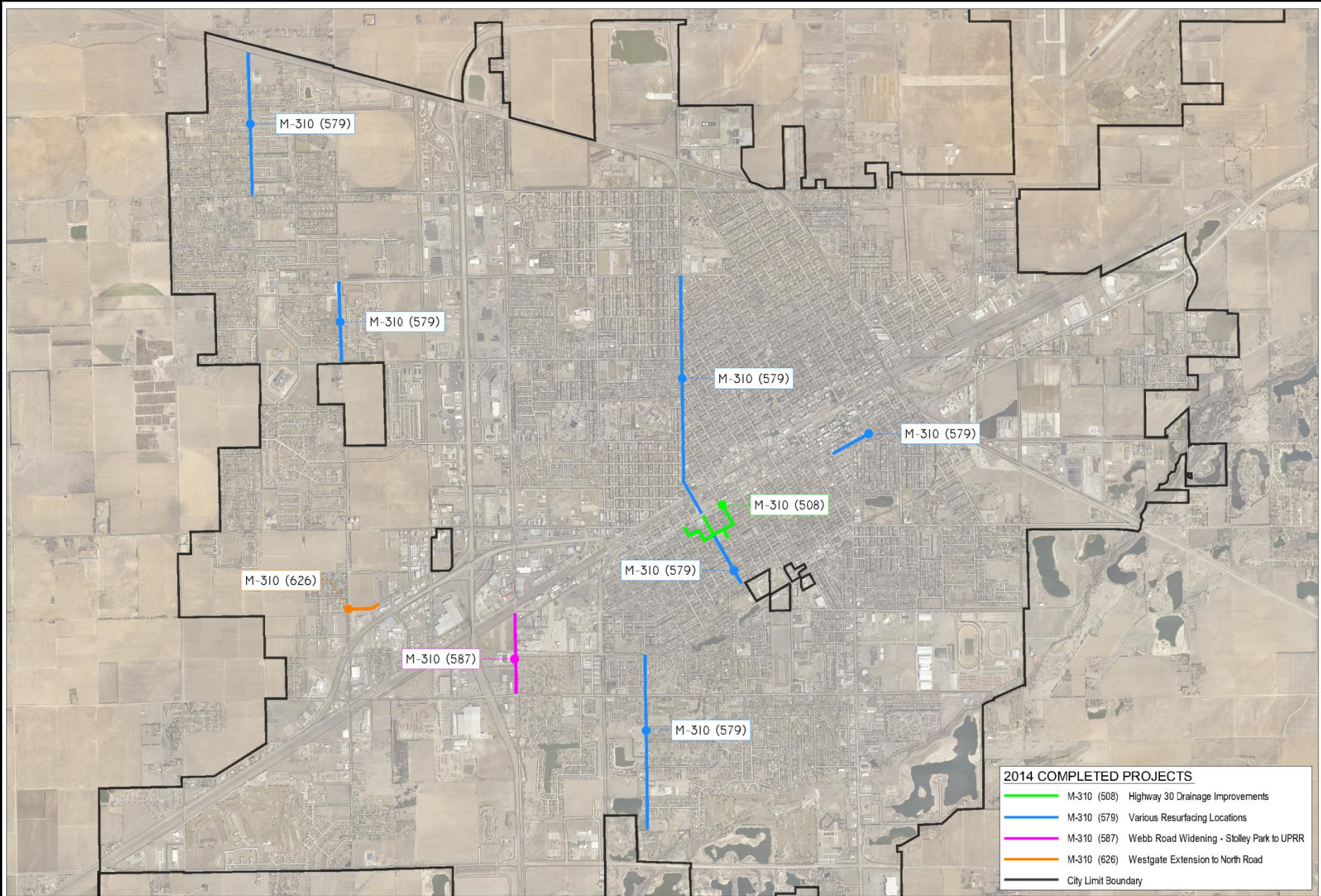
**Presented by: John Collins, PE**

## 2014 SUBSTANTIALLY COMPLETE PROJECTS (FROM 1 & 6 STREET IMPROVEMENT PLAN)

PROJECT	TOTAL PROJECT
US 30 Drainage Improvements [NDOR project]	\$ 1,825,000.00
Various Locations Resurfacing [Federal Aid Project]	\$ 3,950,000.00
Webb Road Street Improvement District No. 1260	\$ 1,700,000.00
Westgate Road Street Improvement District No. 1261	\$ 626,000.00
<b><i>TOTAL</i></b>	<b><i>\$ 8,101,000.00</i></b>

\*\*DOES NOT INCLUDE ALL CIP PROJECTS





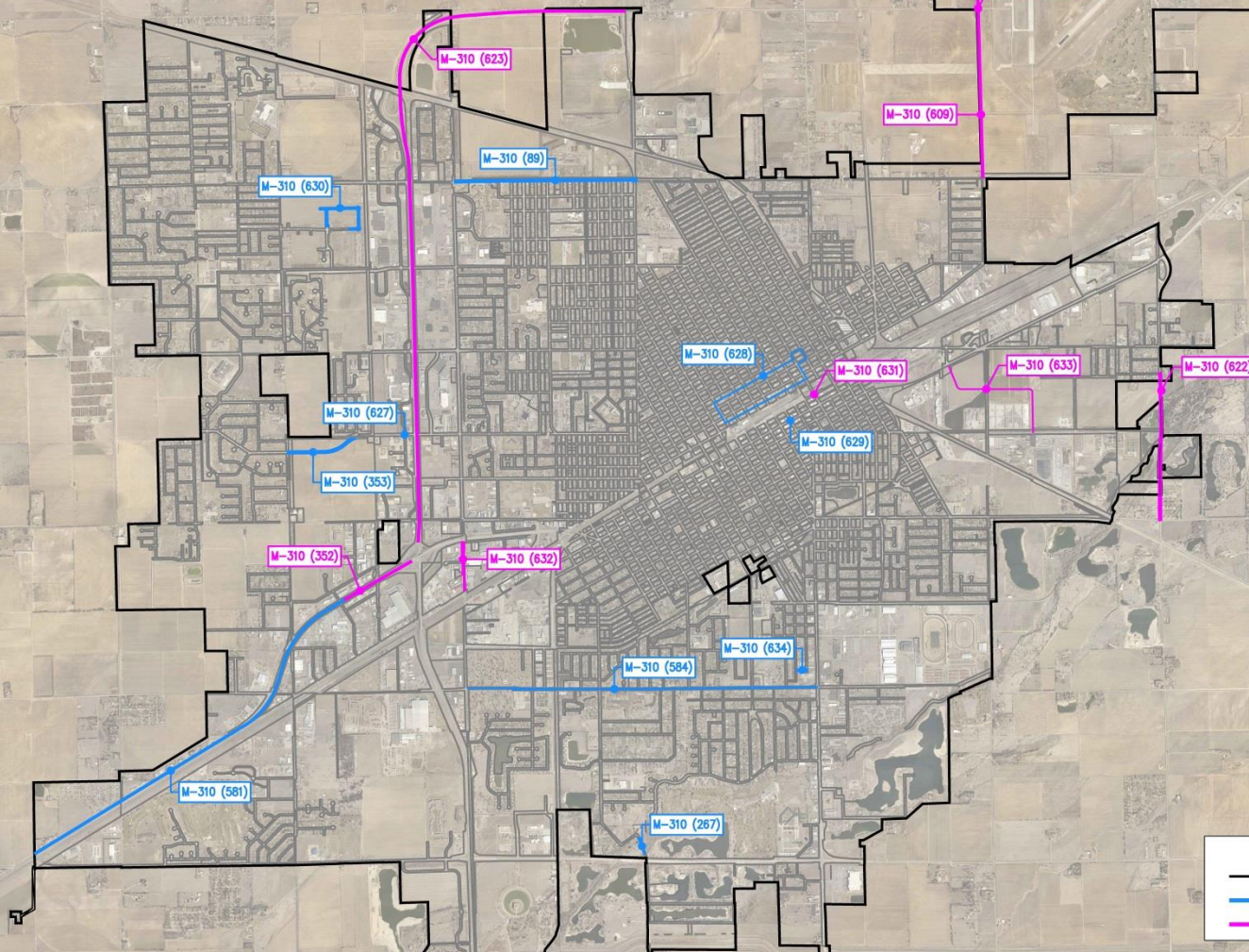


### 2015 ONE YEAR PROJECTS

M-310 (89) Capital Avenue Widening Webb to Broadwell  
M-310 (267) Blaine Street Bridges  
M-310 (353) Fairley Ave Extension  
M-310 (581) Highway 30 NDOR Resurfacing  
M-310 (584) Stolley Park Road Rehab & Lane Reconfiguration  
M-310 (627) Fairley & Diers Traffic Signal Installation  
M-310 (628) 4th & 5th Street CDBG  
M-310 (629) 3rd & Wheeler Intersection Improvements  
M-310 (630) Sterling Estates Fourth Subdivision Paving District  
M-310 (634) Delta Street Storm Sewer Installation

### 2015 SIX YEAR PROJECTS

M-310 (352) Hwy 30 Realignment  
M-310 (598) Skypark & Airport Intersection Improvements  
M-310 (599) Skypark Road Improvements - Airport to Abbott  
M-310 (609) Skypark Road Improvements - Capital to Airport  
M-310 (622) Shady Bend Road Mill, Resurfacing & Bridge Repair  
M-310 (623) NDOR Highway 261 - Grand Island & North  
M-310 (631) South Front Street Bridge Rehab  
M-310 (632) Webb Road Paving & Drainage Improvements  
M-310 (633) Talc Road & Swift Road Connector Construction



### LEGEND

— CITY LIMIT BOUNDARY  
— 1 YEAR PROJECTS  
— 6 YEAR PROJECTS

CITY OF  
**GRAND ISLAND**  
PUBLIC WORKS DEPARTMENT

SCALE: 1" = 5000'  
DATE: DECEMBER 2014  
DRAWN BY: M. SOTO  
APPVD. BY: PUBLIC WORKS


## 2015 CITY OF GRAND ISLAND I & 6 YEAR STREET IMPROVEMENT PLAN

# SOUTH BLAINE ST BRIDGE REPLACEMENTS M-310 (267)

- 🌊 Replace the north bridge structure with two box culverts
- 🌊 Replace the south bridge structure with two Arch RCP pipes
- 🌊 Widen road to improve traffic flow





 <p>CITY OF <b>Grand Island</b> PUBLIC WORKS DEPARTMENT</p>	<p>SCALE: 1" = 150' DATE: DECEMBER 2014 DRAWN BY: M. SOTO APPVD. BY: PUBLIC WORKS</p>	<p>2015 CITY OF GRAND ISLAND ONE YEAR STREET IMPROVEMENT PLAN</p>
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## CAPITAL AVENUE WIDENING – WEBB TO BROADWELL M-310 (89)

- Includes removal of existing 24' wide asphalt roadway and construction of a five lane curbed concrete roadway (four through lanes and a common turning lane).
- Reconstruction will address the deterioration of the pavement, accommodate increasing traffic volumes and widening improve motorist and pedestrian safety.
- Sanitary sewer improvements and a hike/bike trail

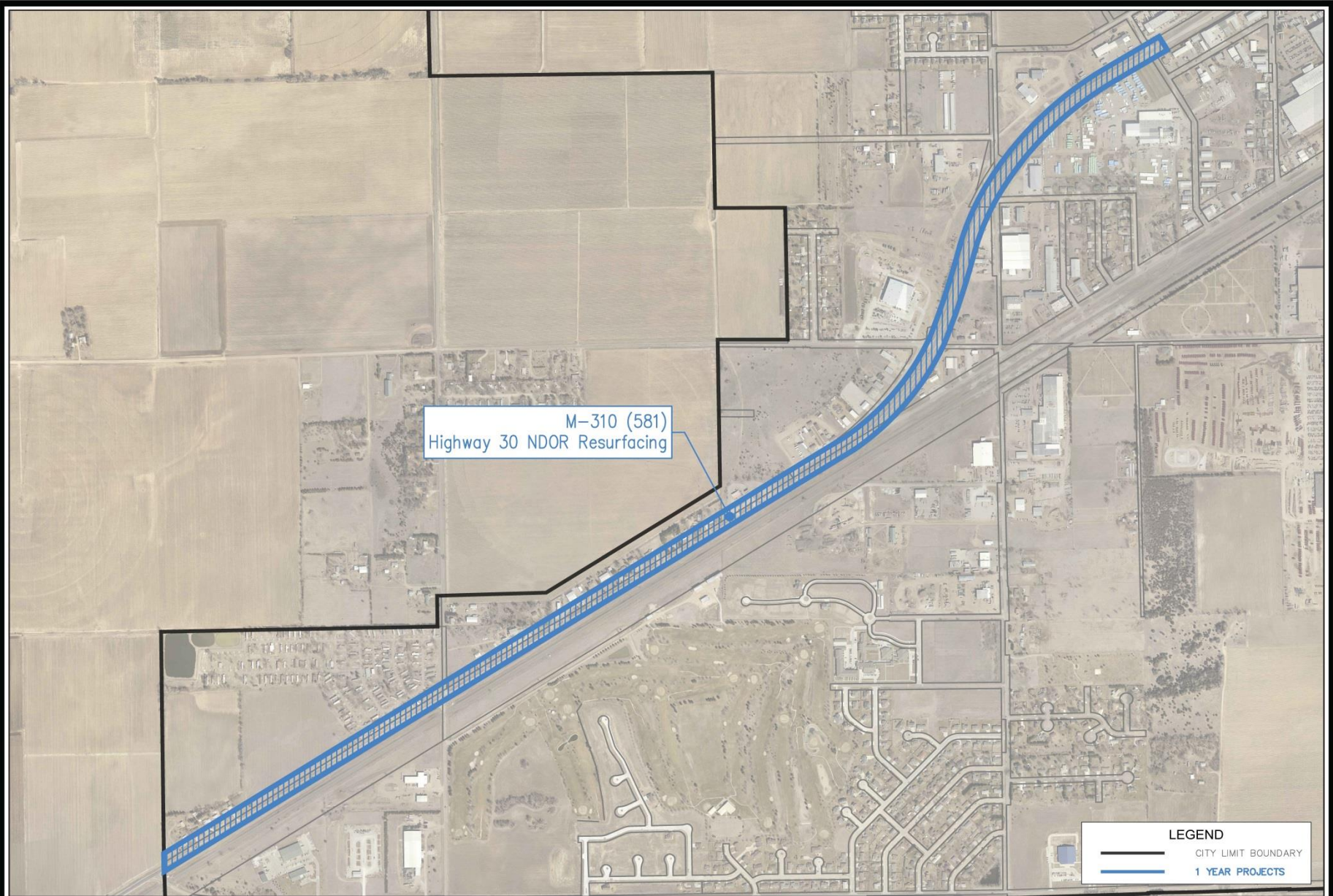






## HIGHWAY 30 RESURFACING M-310 (581)

- 🌊 Roadway asphalt resurfacing from Wood River to Grand Island
- 🌊 NDOR project with City participation



M-310 (581)  
Highway 30 NDOR Resurfacing

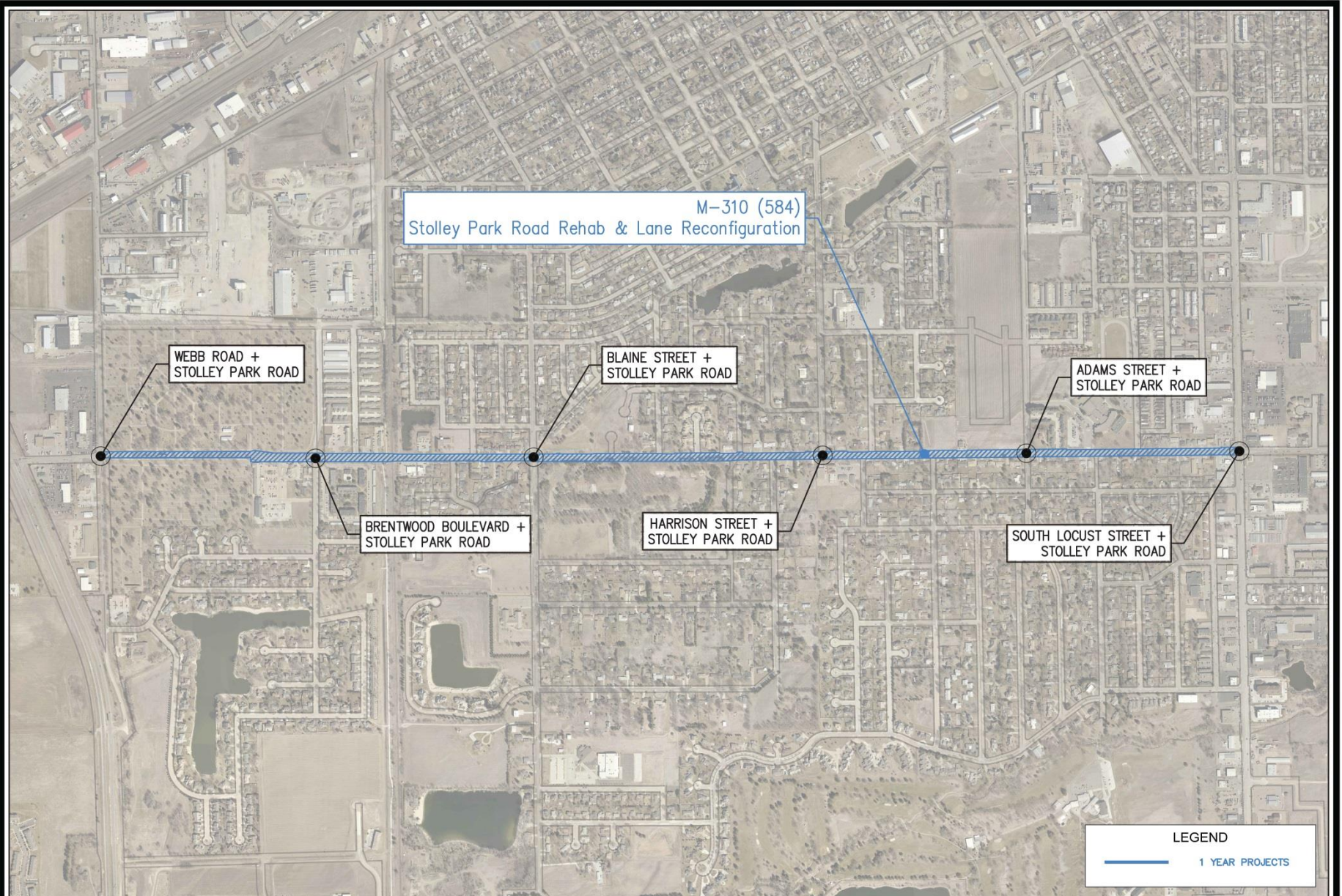
LEGEND

- CITY LIMIT BOUNDARY
- 1 YEAR PROJECTS

## STOLLEY PARK ROAD PAVEMENT MAINTENANCE & INTERSECTION STUDY M-310 (584)

- Restriping for new lane designations from two lane to three or five lane section.
- Intersection evaluations for potential signalization.
- Pavement determination for repairs and/or increased pavement structure to accommodate truck traffic.





M-310 (584)  
Stolley Park Road Rehab & Lane Reconfiguration

WEBB ROAD +  
STOLLEY PARK ROAD

BLAINE STREET +  
STOLLEY PARK ROAD

ADAMS STREET +  
STOLLEY PARK ROAD

BRENTWOOD BOULEVARD +  
STOLLEY PARK ROAD

HARRISON STREET +  
STOLLEY PARK ROAD

SOUTH LOCUST STREET +  
STOLLEY PARK ROAD

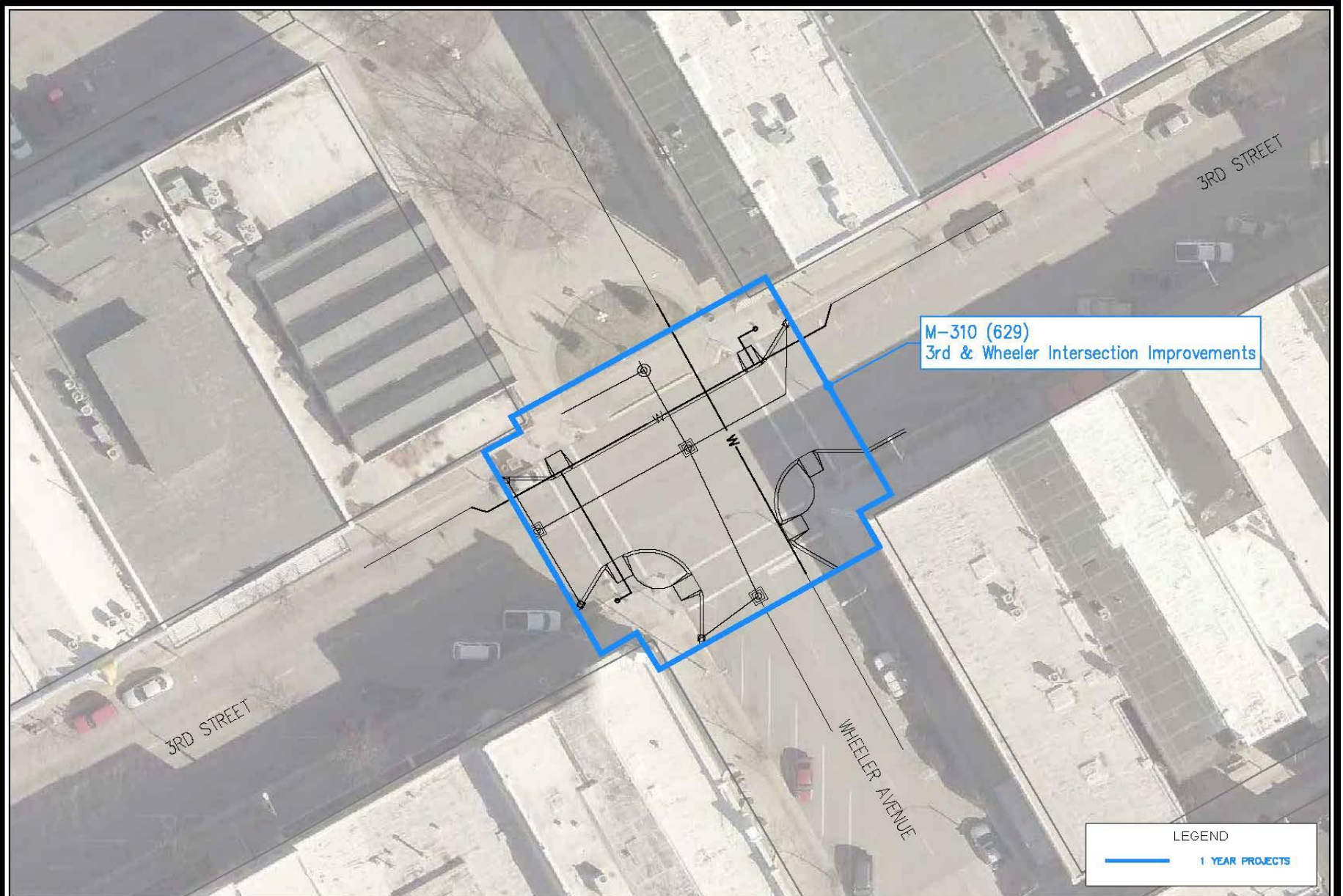
LEGEND

1 YEAR PROJECTS

## 3<sup>RD</sup> STREET & WHEELER AVENUE INTERSECTION IMPROVEMENTS M-310 (629)

- Coordinated with KC Plaza construction.
- Intersection bump outs to make area more pedestrian friendly.
- Drainage improvements including new storm sewer.
- Replace existing water main.







4<sup>TH</sup> STREET & 5<sup>TH</sup> STREET;  
EDDY STREET TO SYCAMORE  
STREET HANDICAP RAMP INSTALLATION  
M-310 (628)

🌐 \$800,000 Community Development Block Grant (CDBG) with 50% city match to install handicap ramps.





M-310 (628)  
4th & 5th Street CDBG

LEGEND

1 YEAR PROJECTS

CITY OF  
**GRAND ISLAND**  
PUBLIC WORKS DEPARTMENT

SCALE: 1" = 400'  
DATE: DECEMBER 2014  
DRAWN BY: M. SOTO  
APPVD. BY: PUBLIC WORKS

2015 CITY OF GRAND ISLAND  
ONE YEAR STREET IMPROVEMENT PLAN



FAIDLEY AVE EXTENSION;  
NORTH RD TO IRONGATE AVE  
M-310 (353)

- 🌐 This project will extend paving to join the two (2) existing segments of Faidley Avenue, between North Road and Irongate Avenue

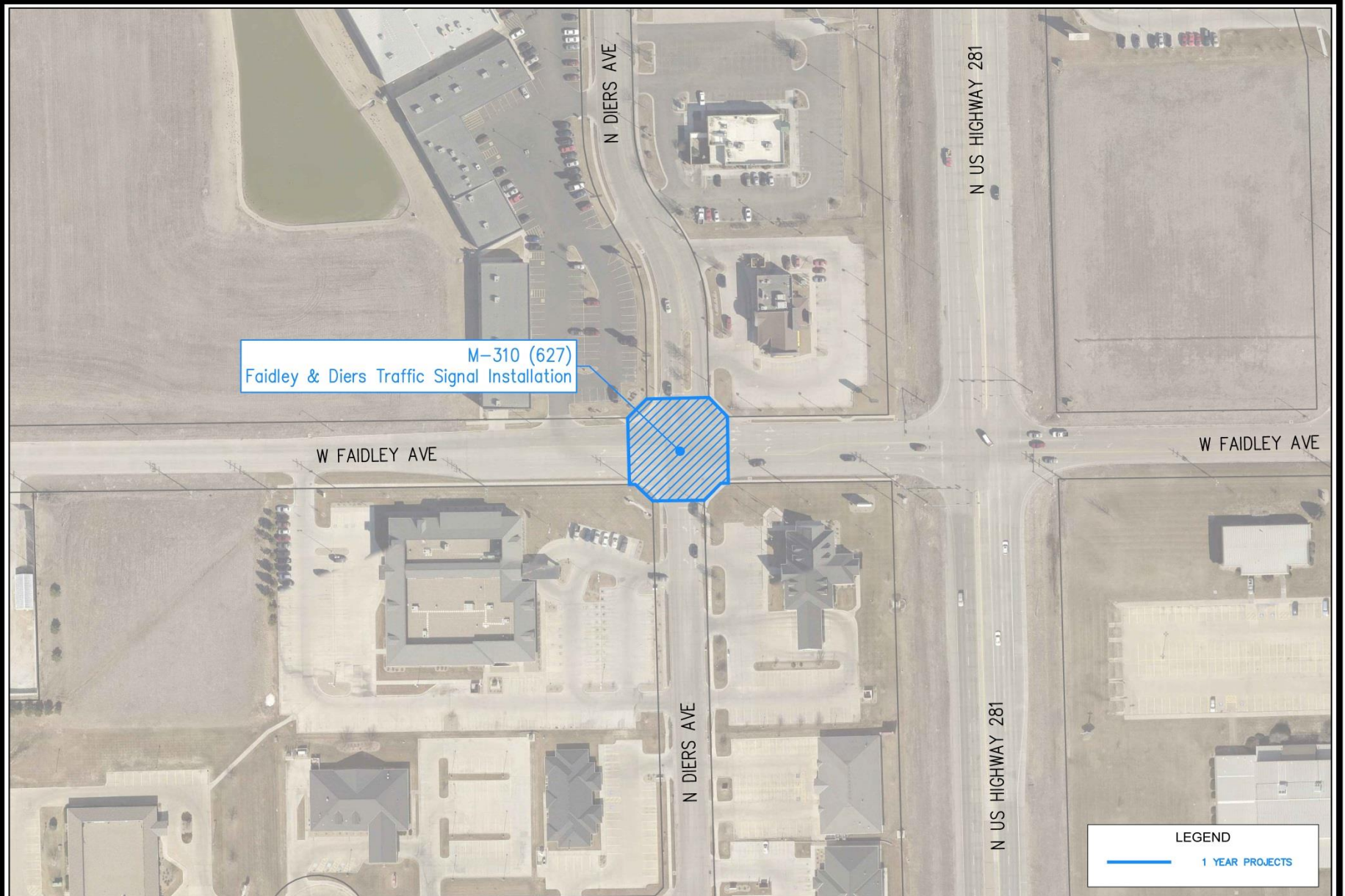




# FAIDLEY AVENUE & DIERS AVENUE TRAFFIC SIGNAL INSTALLATION M-310 (627)

- With the extension of Faidley Avenue west to North Road the projected increase in traffic is anticipated to warrant a traffic signal.
- The radii at this intersection will be widened to better accommodate turns.

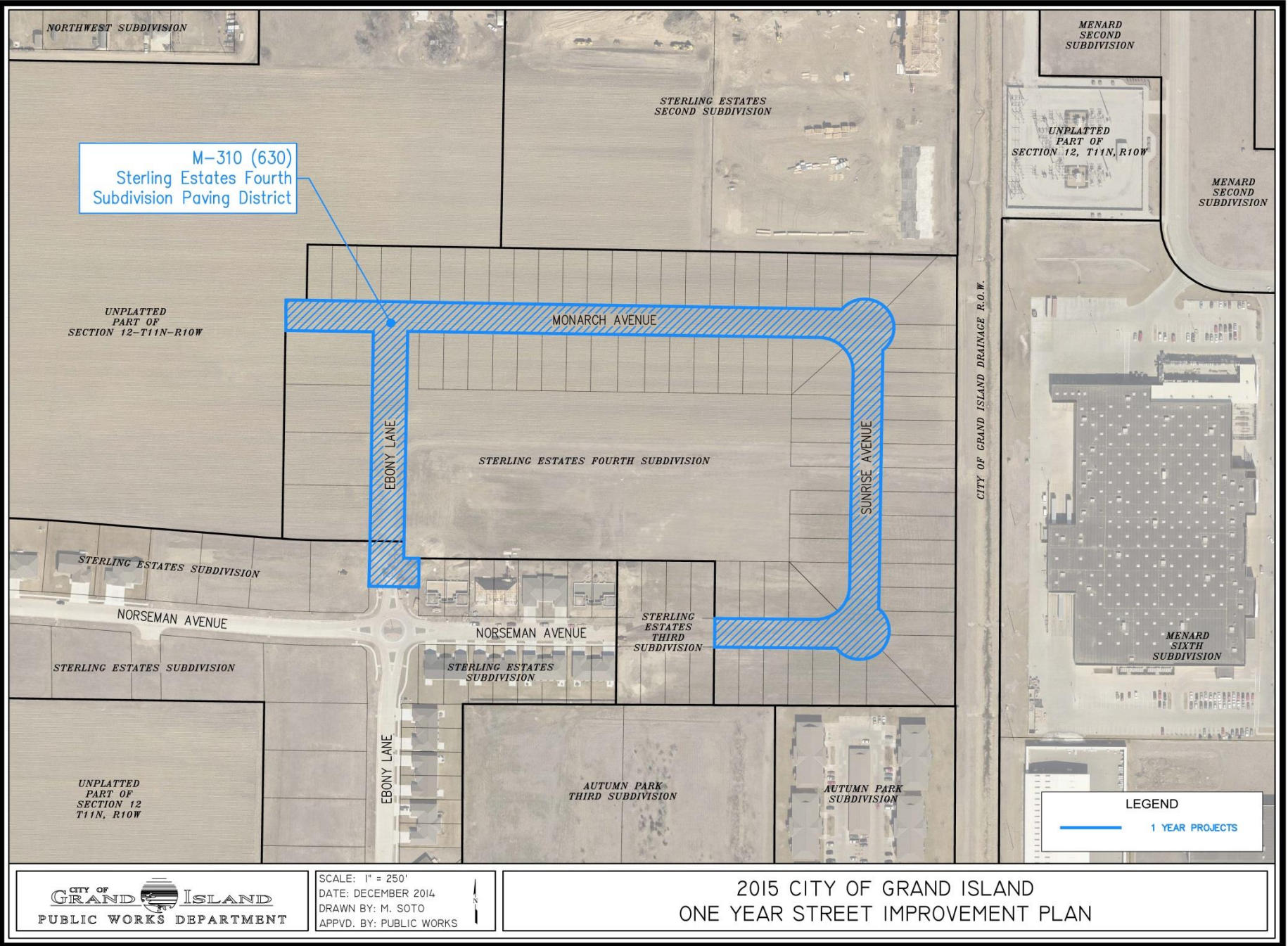






## STERLING ESTATES PAVING DISTRICT NO. 1263 M-310(630)

- The District will consist of finishing the pavement around Niedfelt Park including Ebony Lane, Monarch, Norseman, and Sunrise Avenues.
- The project consists of new 37' roadway with parking along Ebony Lane for Niedfelt Park.



# DELTA STREET STORM SEWER IMPROVEMENTS M-310 (634)

- Install additional catch basins.
- Connect this area to existing storm sewer.





# 1 & 6 YEAR STREET IMPROVEMENT PLAN

	2015	2016	2017	2018	2019
<b>OBLIGATED TO OTHER AGENCIES</b>					
4th St & 5th St; Sycamore St to Eddy St ADA Ramps (CDBG)	\$ 400,000.00				
Hwy 30 Realignment [\$18,000,000 total project cost]					\$ 9,000,000.00
Capital Avenue Widening - Webb to Broadwell [\$10,166,000 total project cost]	\$ 2,307,990.00	\$ 1,331,010.00			
Hwy 30 Resurfacing [\$5,745,000 total project cost]			\$ 584,000.00		
Hwy 281 in GI & North [\$6,019,000 total project cost]			\$ 1,166,000.00		
<b>RECONSTRUCTION/NEW CONSTRUCTION</b>					
South Blaine St Bridge Replacements	\$ 595,000.00				
Stolley Park Rd Pavement Maintenance & Intersection Study		\$ 500,000.00			
3rd St & Wheeler Ave Intersection Improvements	\$ 250,000.00				
Sterling Estates Paving District No. 1263	\$ 650,000.00				
Faidley Ave & Diers Ave Traffic Signal Installation		\$ 250,000.00			
South Front St Bridge Rehab - Bridge Deck Rehab		\$ 600,000.00			
Webb Road Paving & Drainage Improvements (UPRR to New Hwy 30)		\$ 250,000.00			
Talc Rd/ Swift Rd Connector Construction		\$ 1,500,000.00			
Shady Bend Rd - Mill & Resurface/Bridge Repair			\$ 250,000.00		
Skypark Improvements - Capital Ave to Airport Rd				\$ 800,000.00	
Skypark Improvements - Airport Rd to Abbott Rd					\$ 700,000.00
Airport Rd & Skypark Rd Intersection Improvement			\$ 45,000.00		
Faidley Ave Extension from North Rd to EOC (heading East)	\$ 1,000,000.00				
Delta St Storm Sewer Improvements	\$ 55,000.00				
<b>TOTAL</b>	<b>\$ 5,257,990.00</b>	<b>\$ 4,431,010.00</b>	<b>\$ 2,045,000.00</b>	<b>\$ 800,000.00</b>	<b>\$ 9,700,000.00</b>

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