

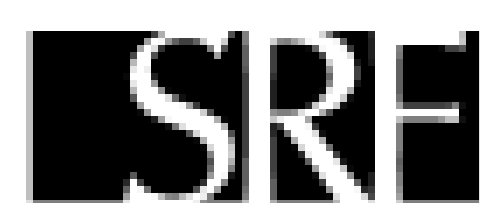
WELCOME

MARSHALL AREA

HWY 23

SAFETY ASSESSMENT

Public Open House, August 23, 2016



AGENDA

- ✓ What were the goals of the safety assessment?
- ✓ What have we learned through our community involvement?
- ✓ What are the priorities for Highway 23?
- ✓ What strategies and improvements were considered and what is being recommended?
- ✓ What are the next steps?



Hwy 23 Assessment Corridor

What were the goals of the safety assessment?

GOALS OF SAFETY ASSESSMENT

Goal 1:

Improve the safety of the Highway 23 corridor.

Goal 2:

Accommodate current and future traffic demands as urbanization continues along Highway 23 in Marshall.

Goal 3:

Improve accessibility and connectivity for all modes (i.e. cars, trucks, pedestrians, bicycles, transit).

Goal 4:

Prioritize improvements to develop a long-range plan for managing the Highway 23 corridor.



Intersection Design at Hwy 23 and CR 7

What have we learned through our community involvement?

COMMUNITY INVOLVEMENT ACTIVITIES

Activities:

6 Focus Group meetings

3 Local Community Presentations

1. Marshall Chamber
2. Adult Community Center
3. Marshall City Council/Lyon County Board

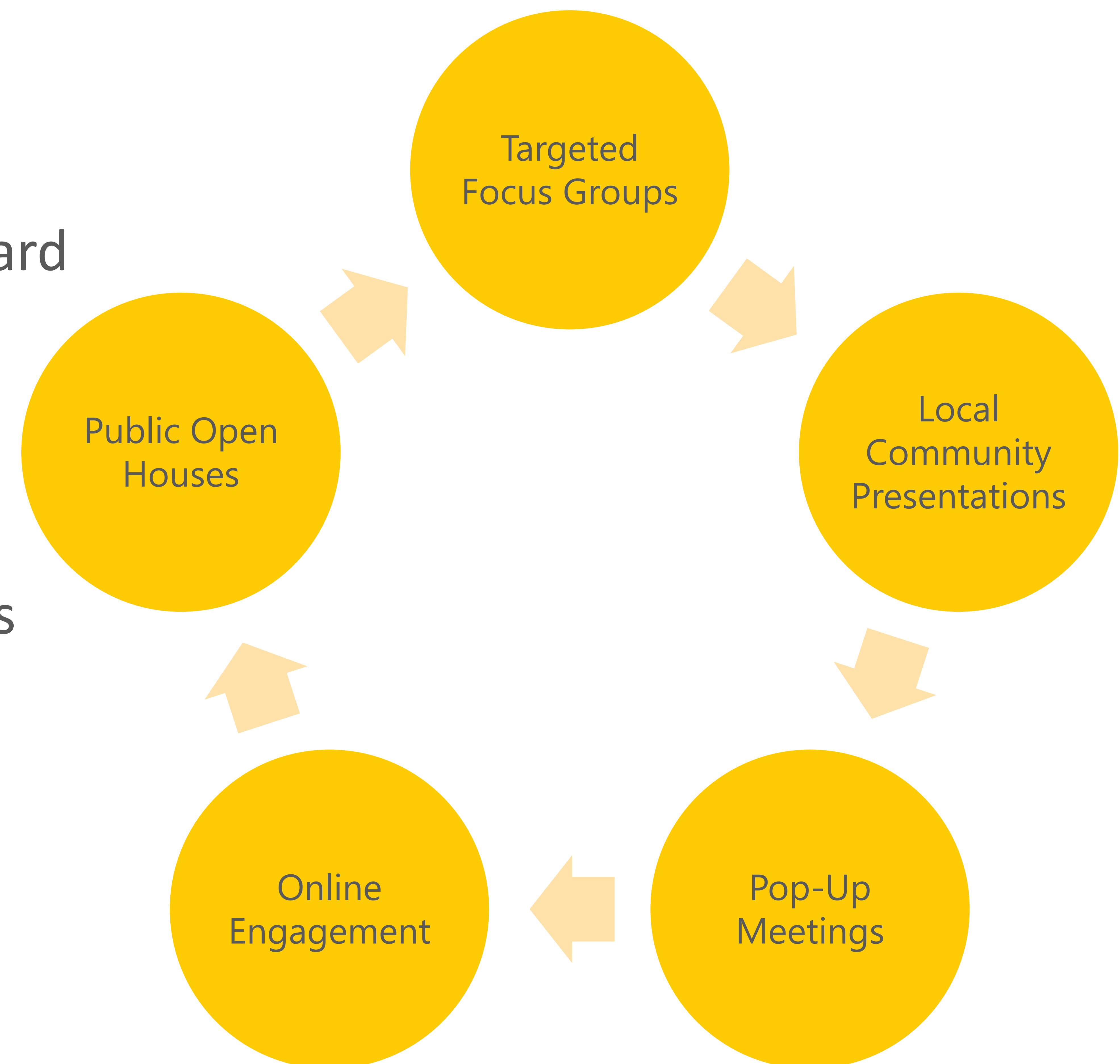
Interview on Marshall News & Views

2 Pop-Up Meetings

1. Marshall Home Show
2. YMCA Bike Safety event

2 Community Surveys + Website + Newsletters

4 Open Houses



COMMUNITY INVOLVEMENT FEEDBACK

MARSHALL AREA HWY 23 SAFETY ASSESSMENT

SURVEY #1 - INFO GATHERING

Purpose: to understand issues, concerns and priorities of stakeholders and the public along the Highway 23 corridor.

253

people responded
to the survey

TOP 3

Critical issues for Hwy 23 in Marshall

- 1 Future growth (increased traffic)
- 2 Driver Behavior
- 3 Crossing Hwy 23 (delays)

Best outlets to share info



newsletter
19.35%



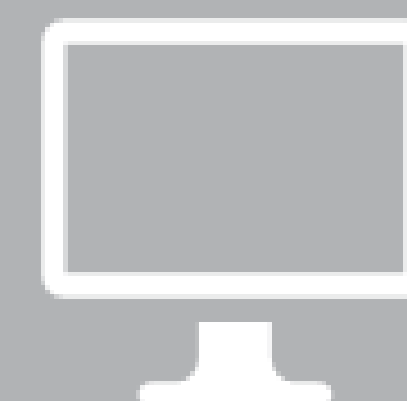
website
22%



mail
22.17%



email
72.58%



social media
20.96%



44.66%

moderately satisfied
with how Hwy 23
currently functions

Age of Responders

18 - 25	4.43%
26 - 34	16.12%
35 - 44	23.79%
45 - 54	26.2%
55 - 64	25%
65+	4.03%

Top 4 zip codes:

Marshall
Lynd
Ghent
Balaton

Top 3 Critical Issues for Hwy 23:

1. Future Growth (increased traffic)
2. Driver Behavior
3. Crossing Hwy 23 (delays)

COMMUNITY INVOLVEMENT FEEDBACK

MARSHALL AREA HWY 23 SAFETY ASSESSMENT







SURVEY #2 - CORRIDOR PRIORITIES

Purpose: to gather input from stakeholders and the public regarding priorities along the Hwy 23 corridor.

459

people responded
to the survey

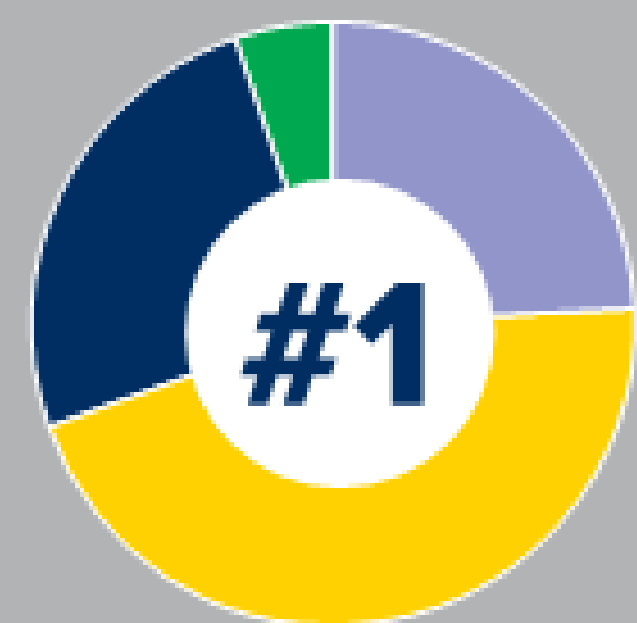
Age of Responders

18 - 25		8.49%
26 - 34		18.35%
35 - 44		26.02%
45 - 54		19.17%
55 - 64		15.06%
65+		12.87%

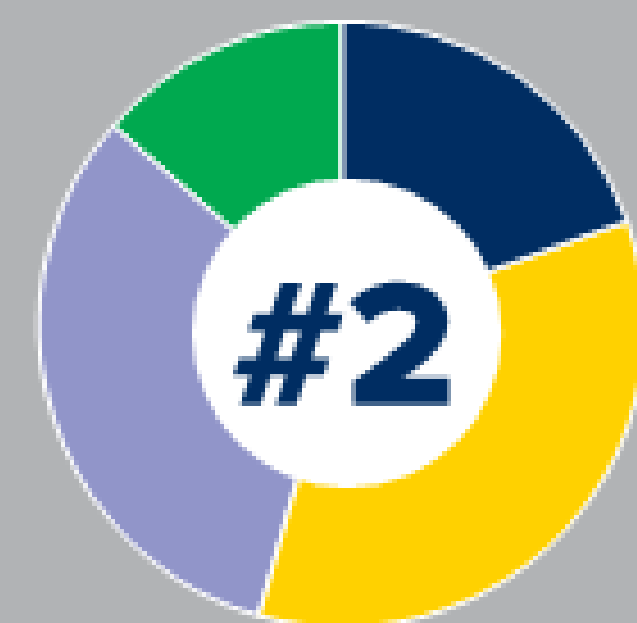
Top 3 zip codes:

Marshall
Cottonwood
Lynd

Top Concerns Along Highway



Travel speeds along Hwy 23	24.4%
Safety at intersection	45.31%
Access to, from and across Hwy 23	25.05%
Safety for pedestrians and bicyclists	5.22%



Travel speeds along Hwy 23	19.91%
Safety at intersection	34.79%
Access to, from and across Hwy 23	31.72%
Safety for pedestrians and bicyclists	13.56%

Priority Location of Concerns



Hwy 23/CR 7	34.53%
Hwy 23/4th St	8.01%
Hwy 23/Hwy 59/Canoga Park Dr.	13.53%
Hwy 23/Lyon St/ Clarice St	15.46%
Hwy 23/Hwy 19	11.04%
Hwy 23/Tiger Dr/Commencement Blvd.	13.25%
Hwy 23/CR 33	4.14%



Hwy 23/CR 7	16.29%
Hwy 23/4th St	15.74%
Hwy 23/Hwy 59/Canoga Park Dr.	12.7%
Hwy 23/Lyon St/ Clarice St	16.02%
Hwy 23/Hwy 19	15.74%
Hwy 23/Tiger Dr/Commencement Blvd.	14.36%
Hwy 23/CR 33	9.11%

Top 3 Concerns Along Highway:

1. Safety at intersections
2. Access to, from and across Hwy 23
3. Travel speeds along Hwy 23

Top 5 Priority Locations of Concerns:

1. CR 7
2. Lyon St/Clarice Ave
3. Hwy 59/Canoga Park Dr
4. Tiger Dr/Commencement Blvd
5. Hwy 19

What are the priorities for Highway 23?

HIGHWAY 23 PRIORITIES

Priority 1

- **Implement improvements at CR 7**
- **Implement improvements at Lyon St/Clarice Ave**
- Implement other ongoing corridor-wide safety improvements
- Continue ongoing public education with improvements

Priority 2

- **Implement improvements at 4th Street and Tiger Dr**
- Evaluate corridor for potential change in posted speed limit
- **Re-Evaluate Hwy 59 and Hwy 19 intersections for improvement needs**

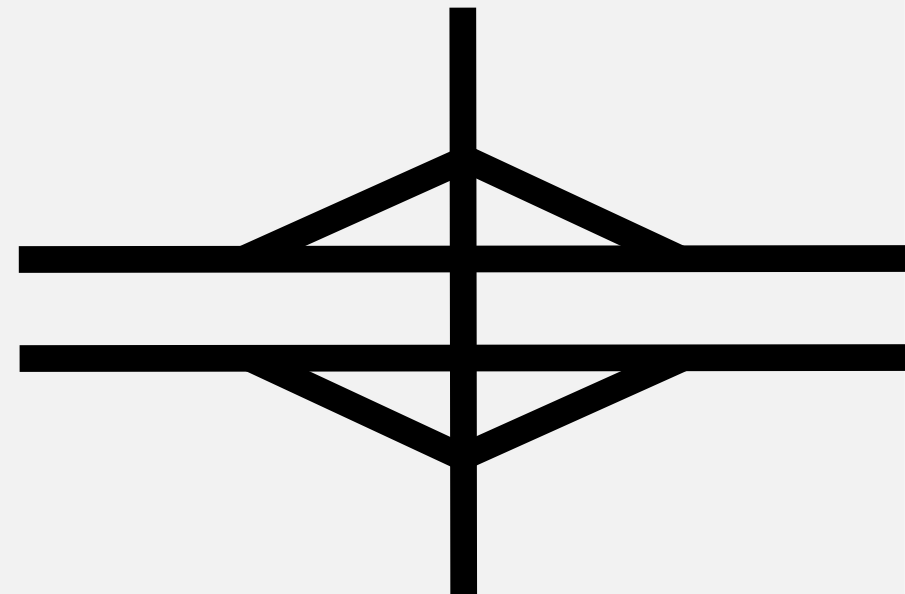
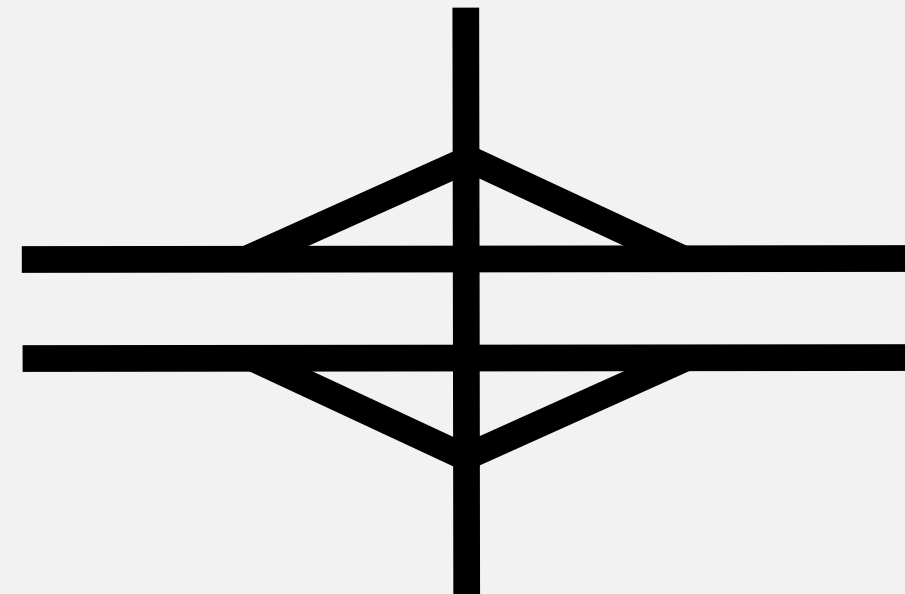
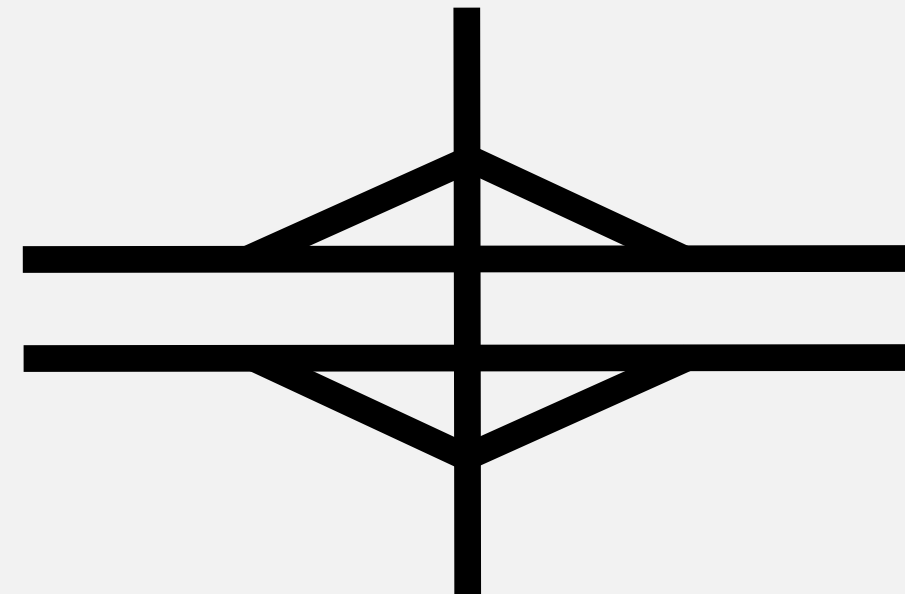
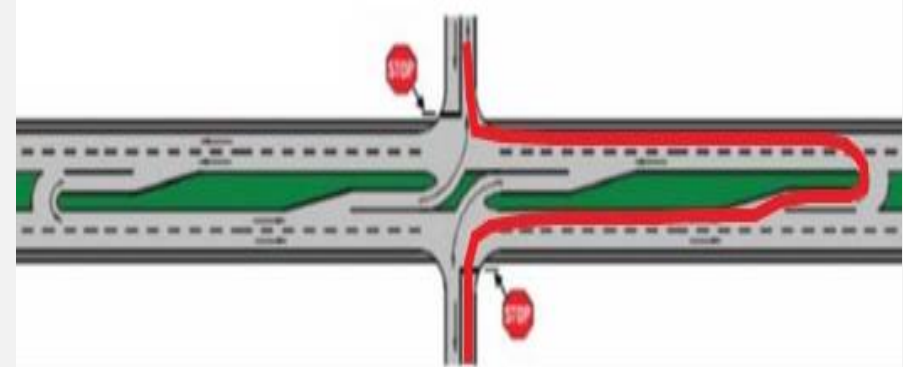



















Priority 3

- Implement improvements at CR 33
- Restrict or close access at Canoga Park Dr
- Restrict or close access at Travis Rd
- Close access at 269th Avenue
- Restrict or close access at Spruce Ln
- Close access at O'Connell St

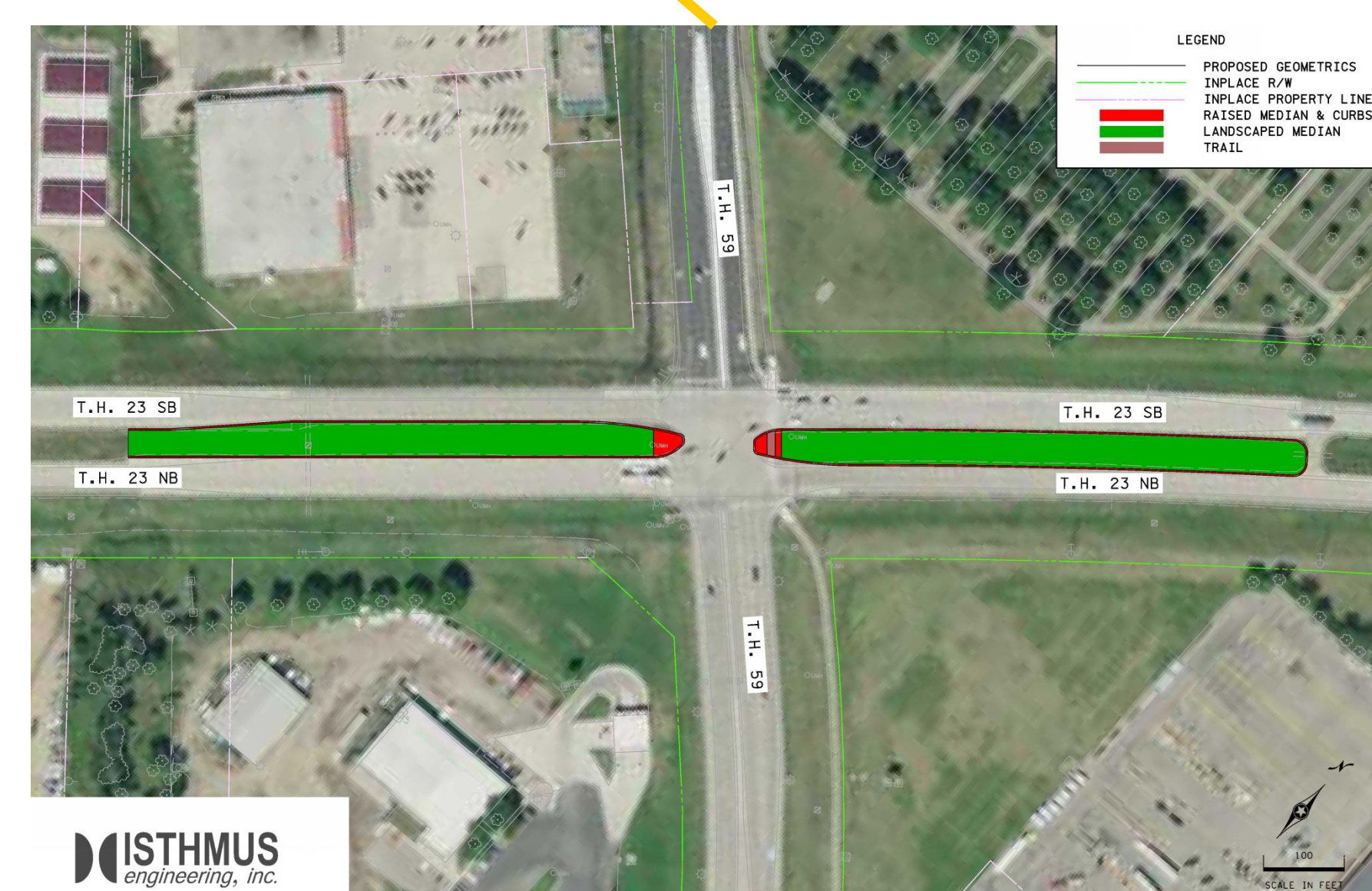
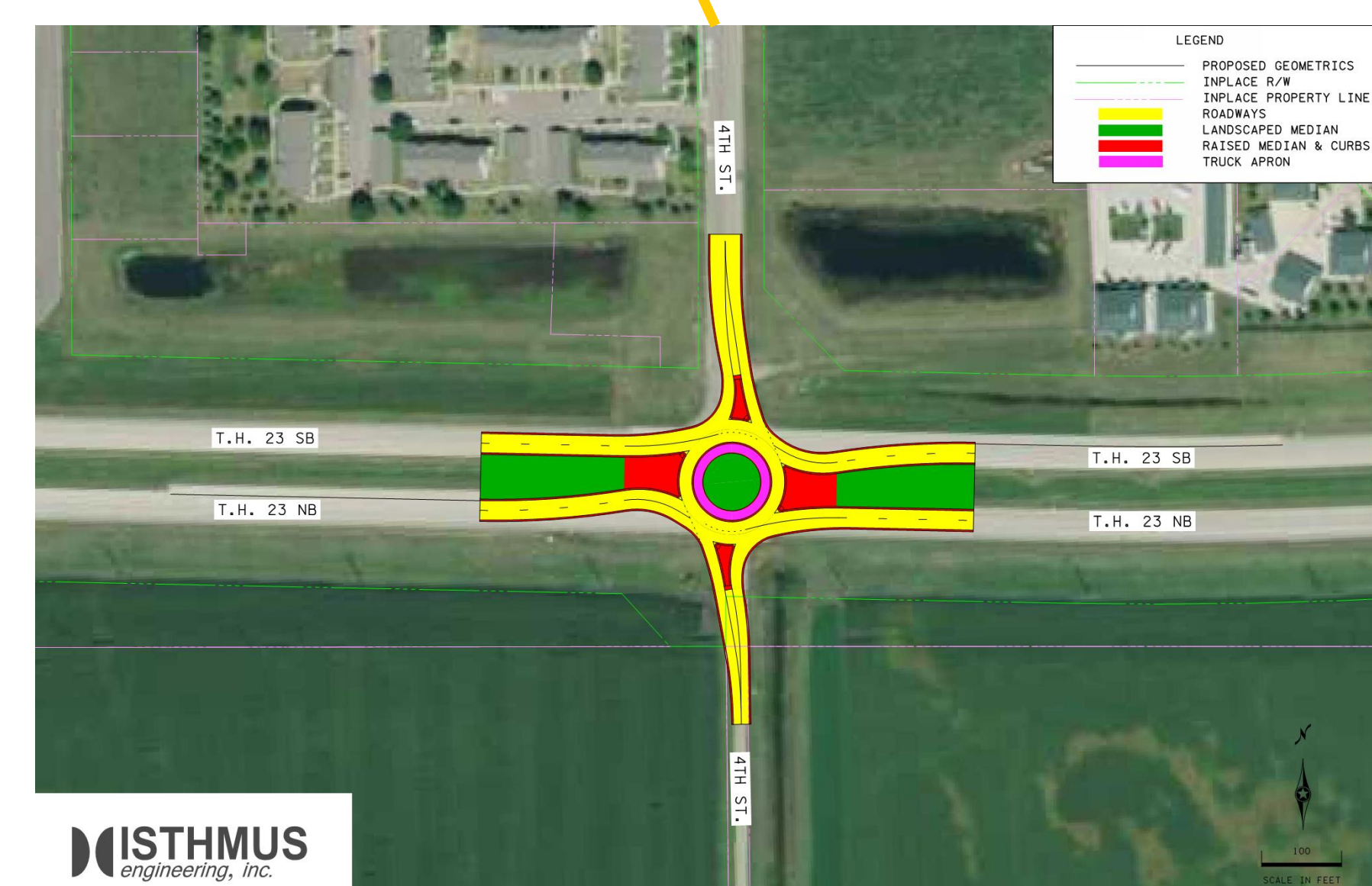
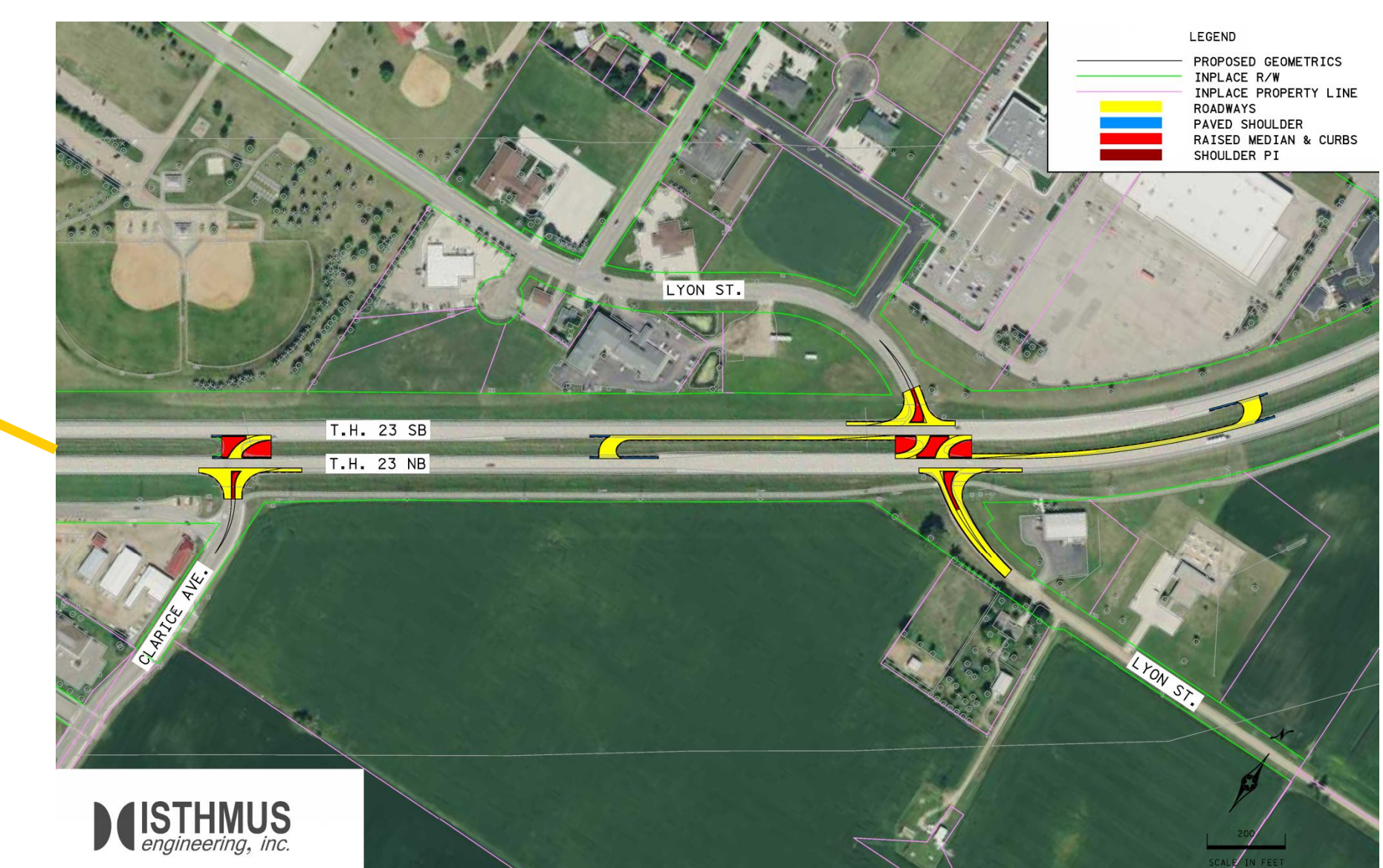
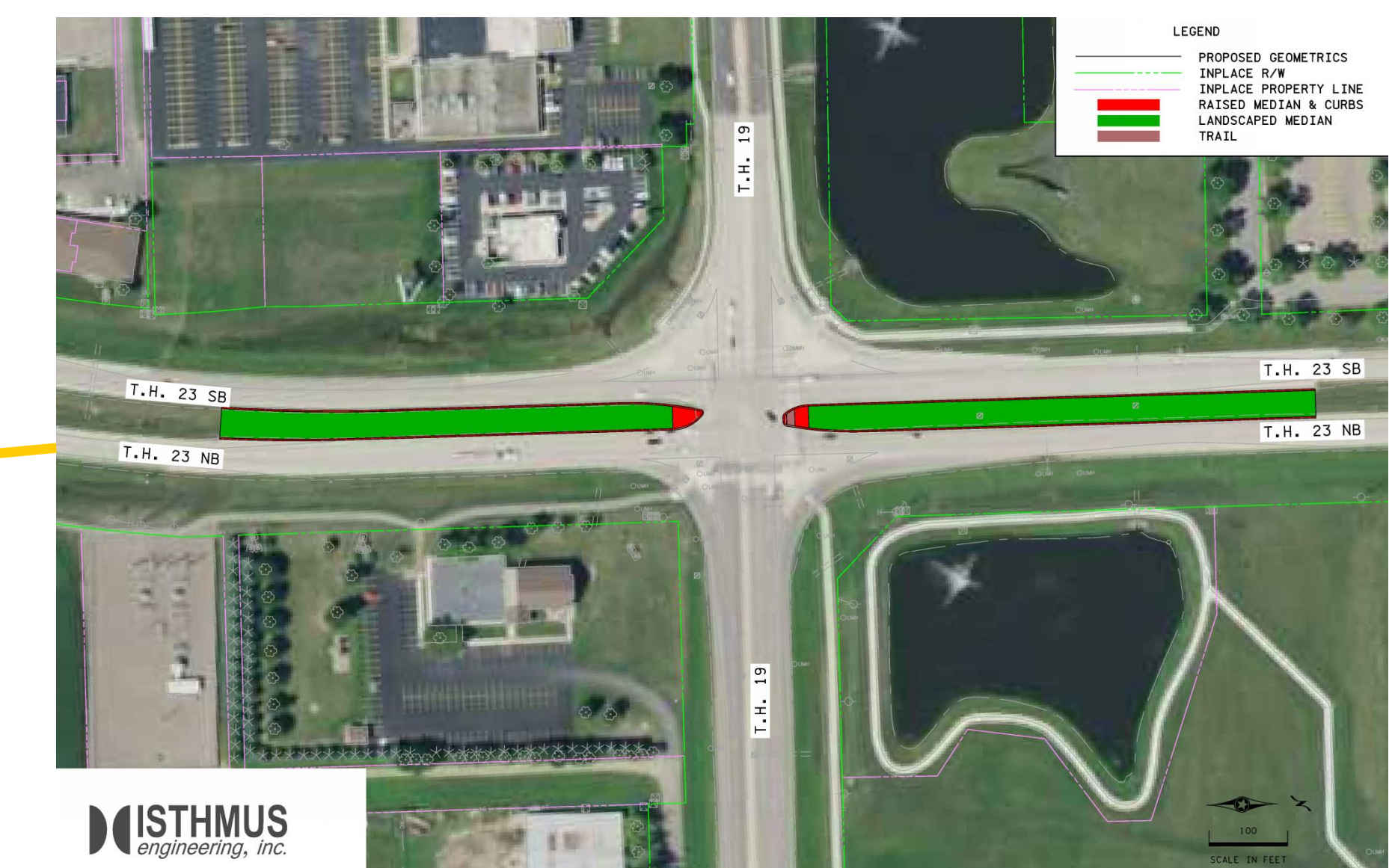
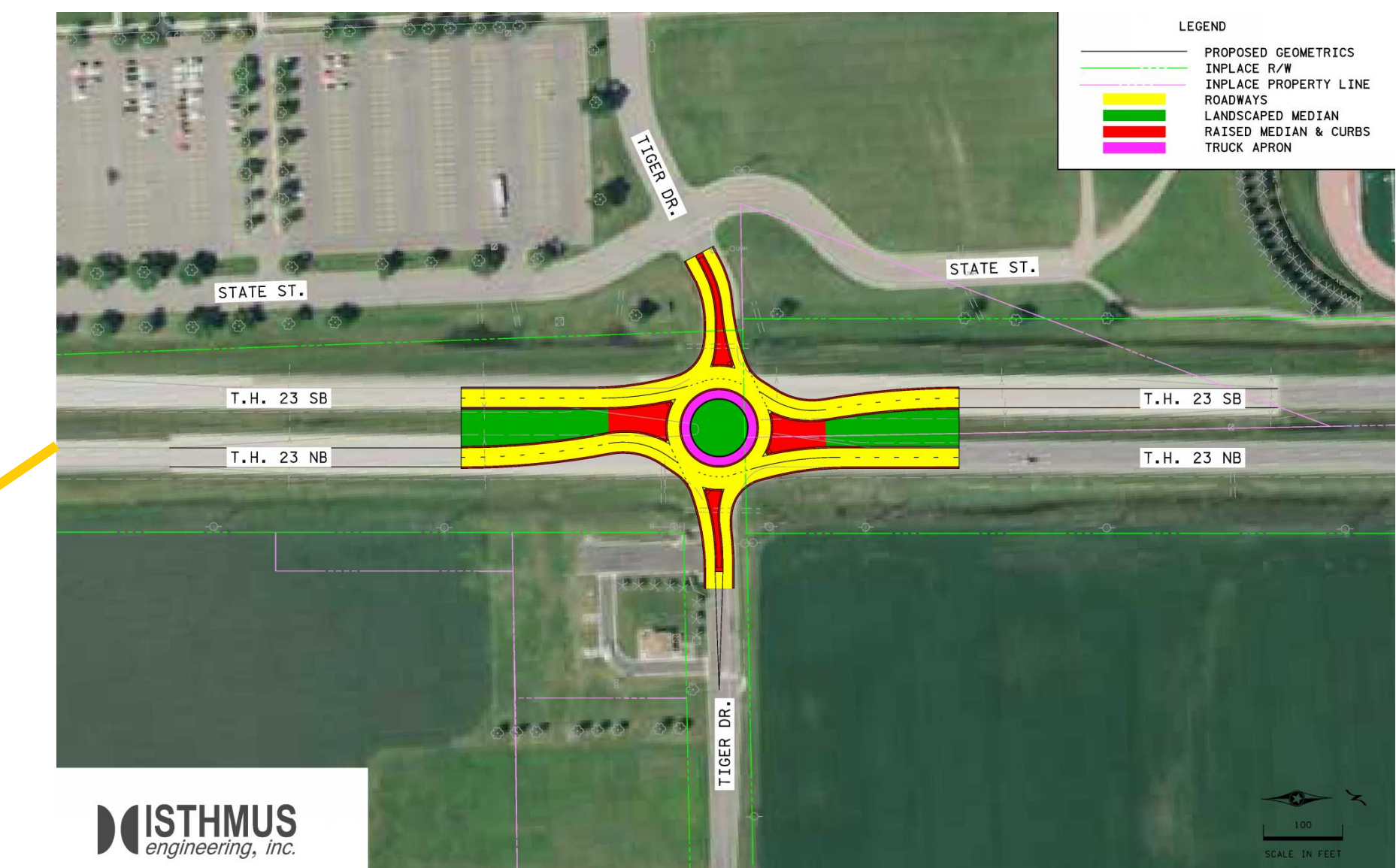
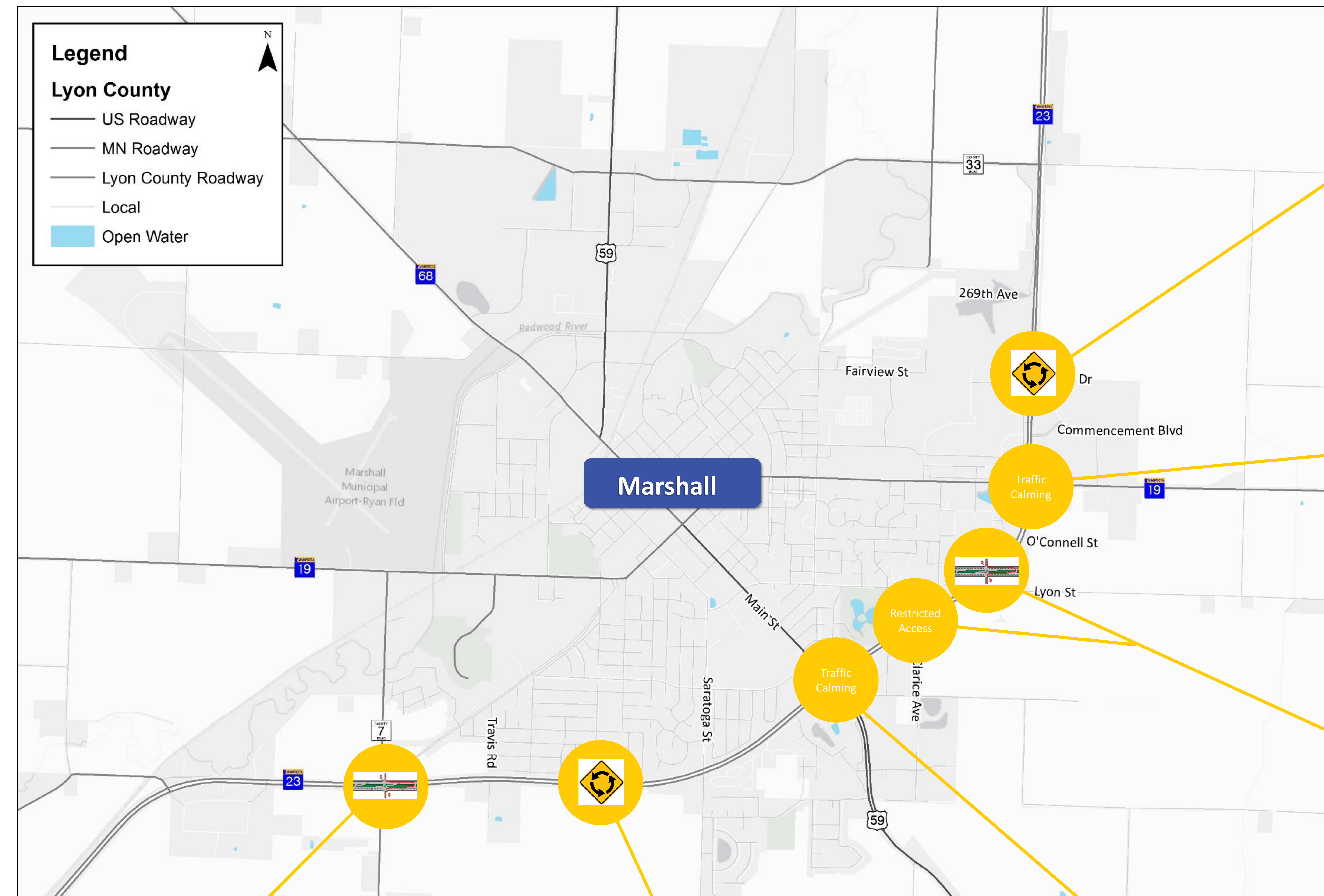
*** Priorities are contingent on funding and project delivery opportunities.**

What strategies and improvements were considered
and what is being recommended?

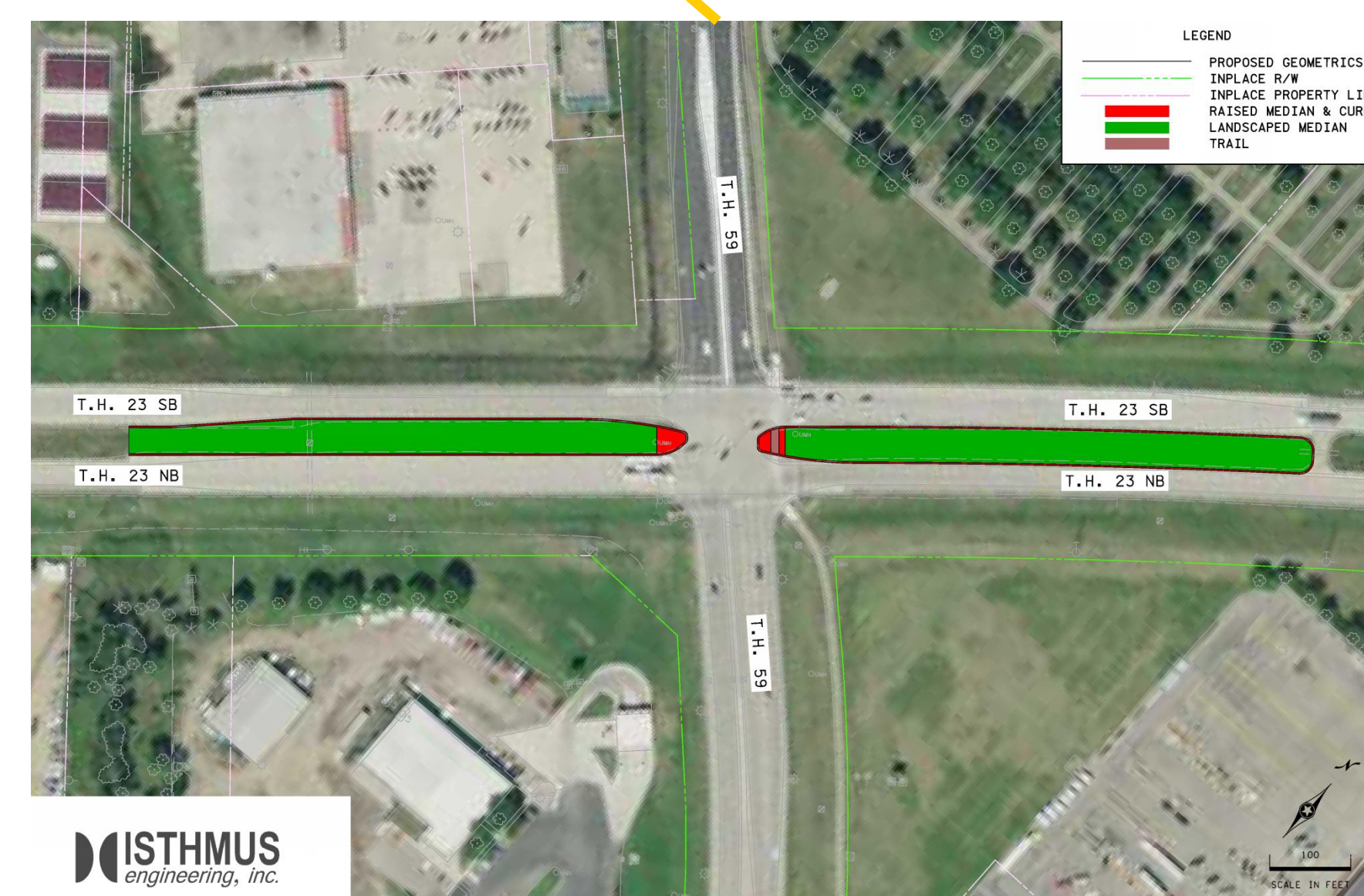
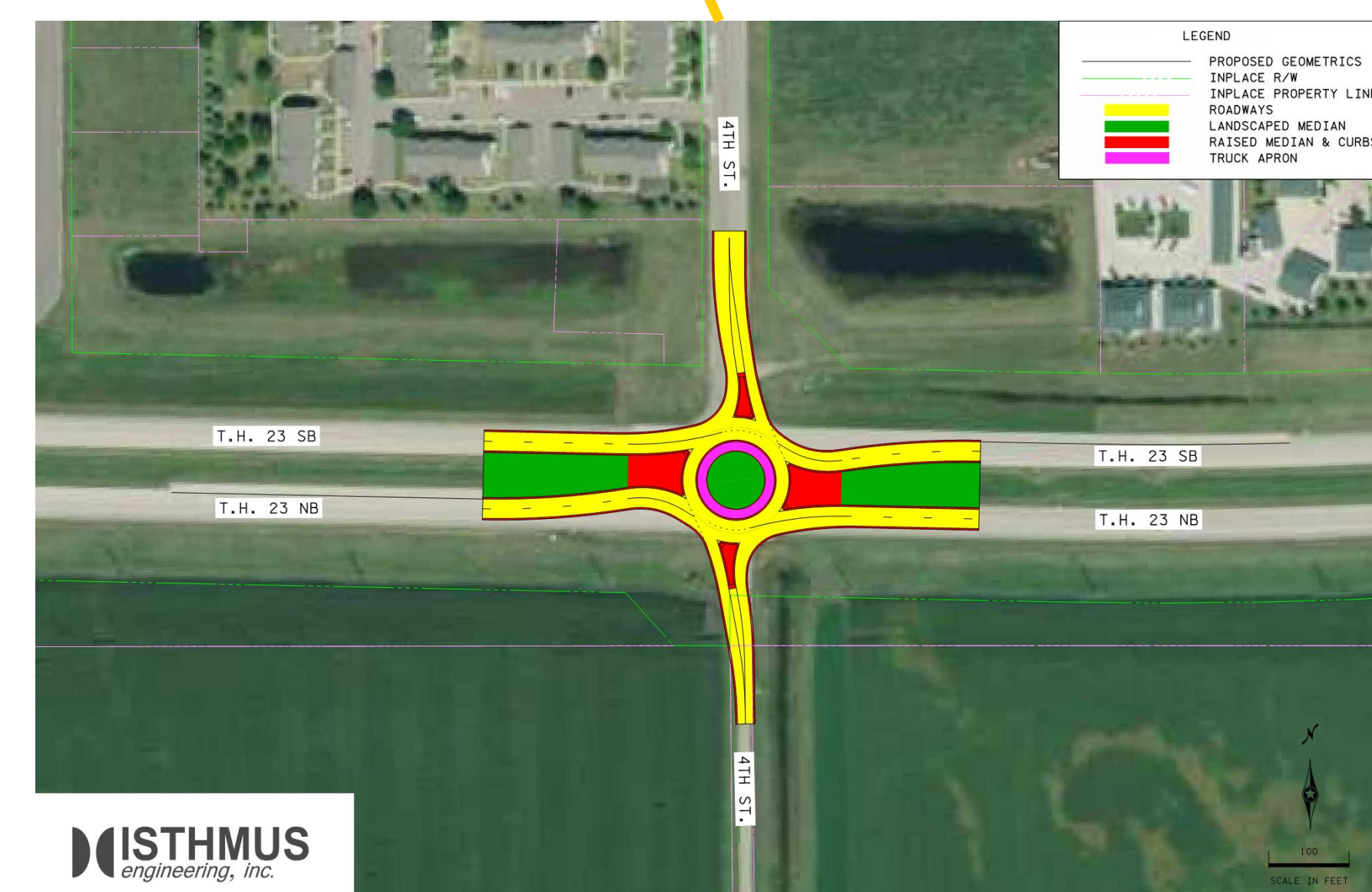
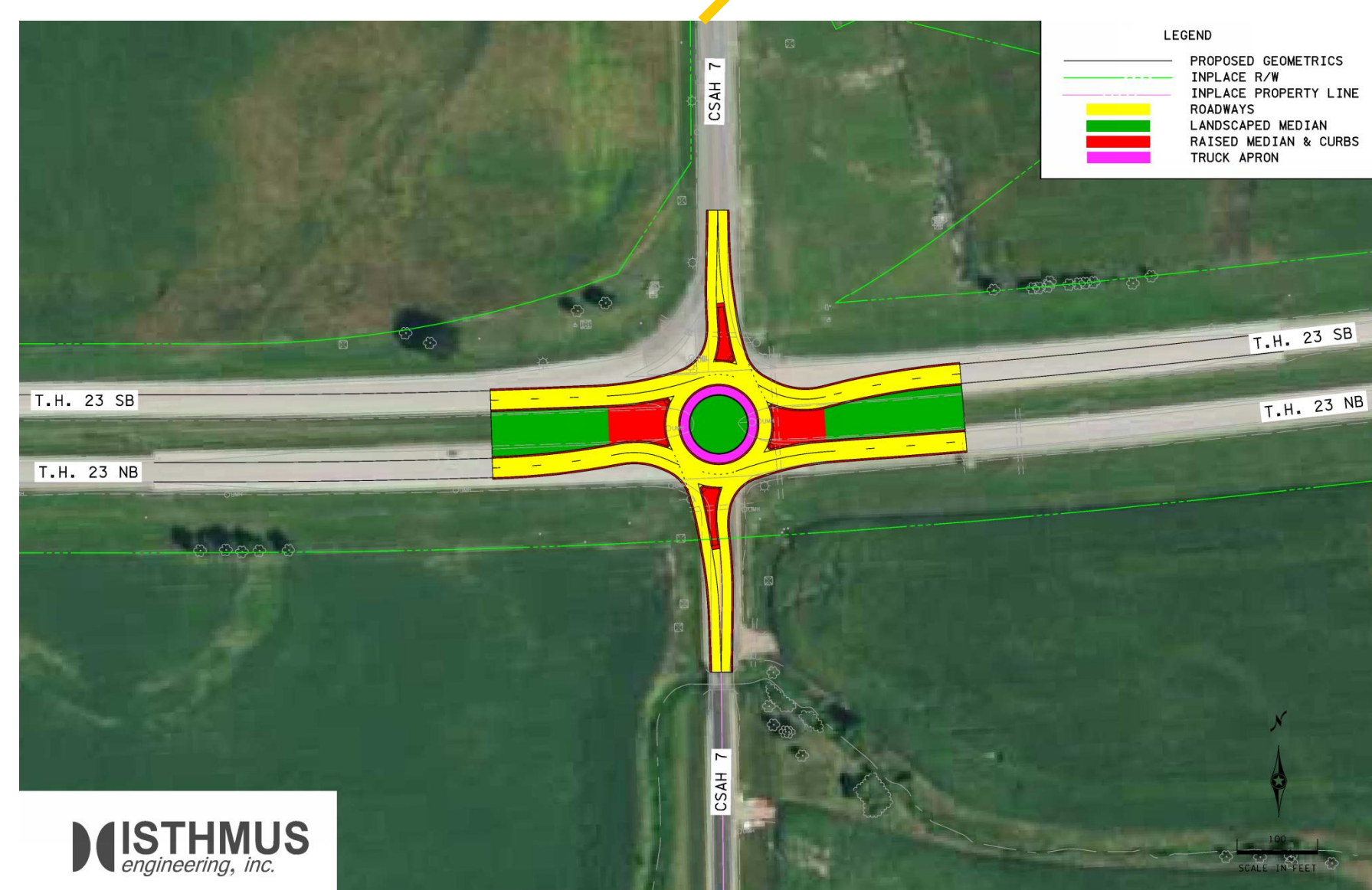
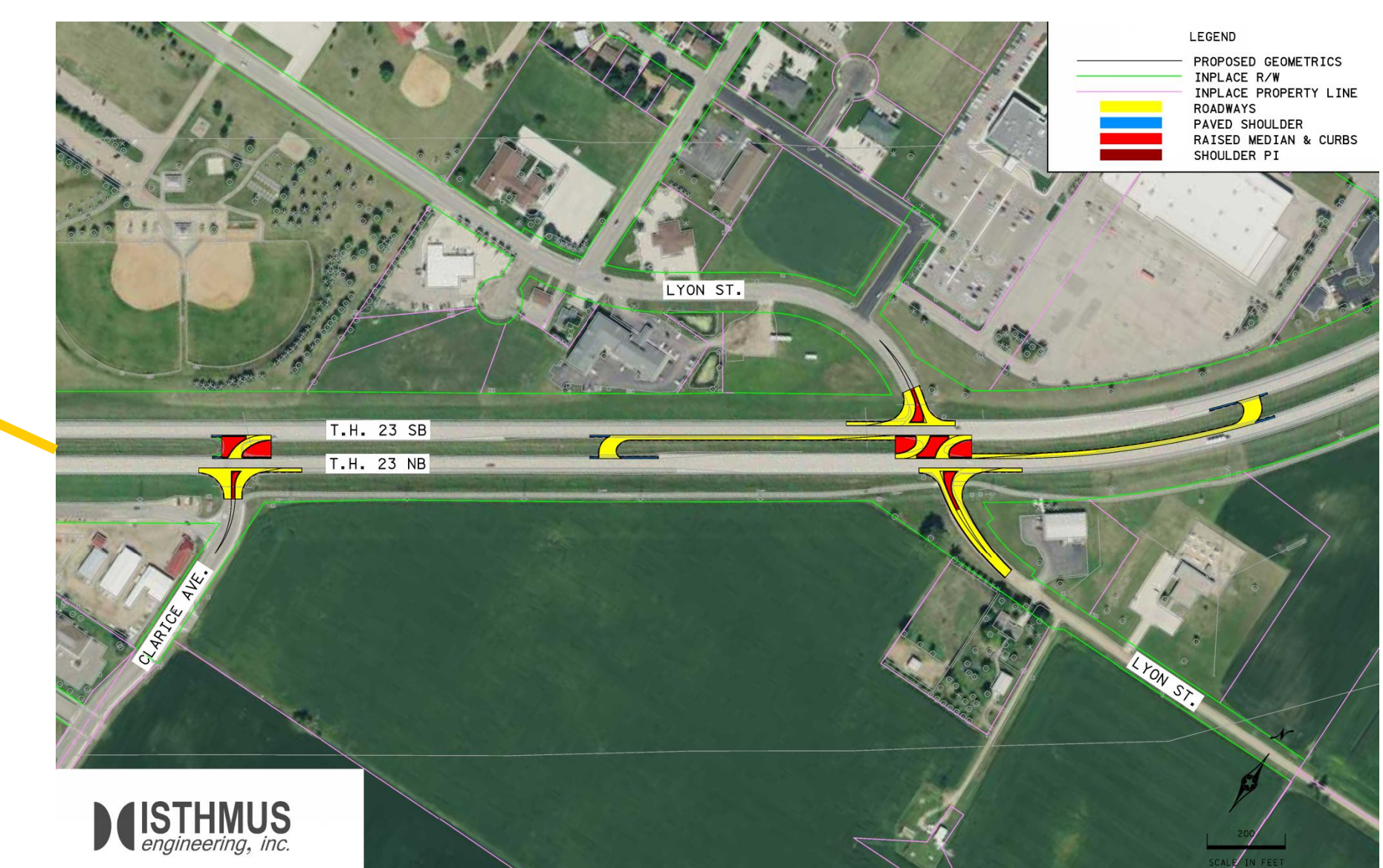
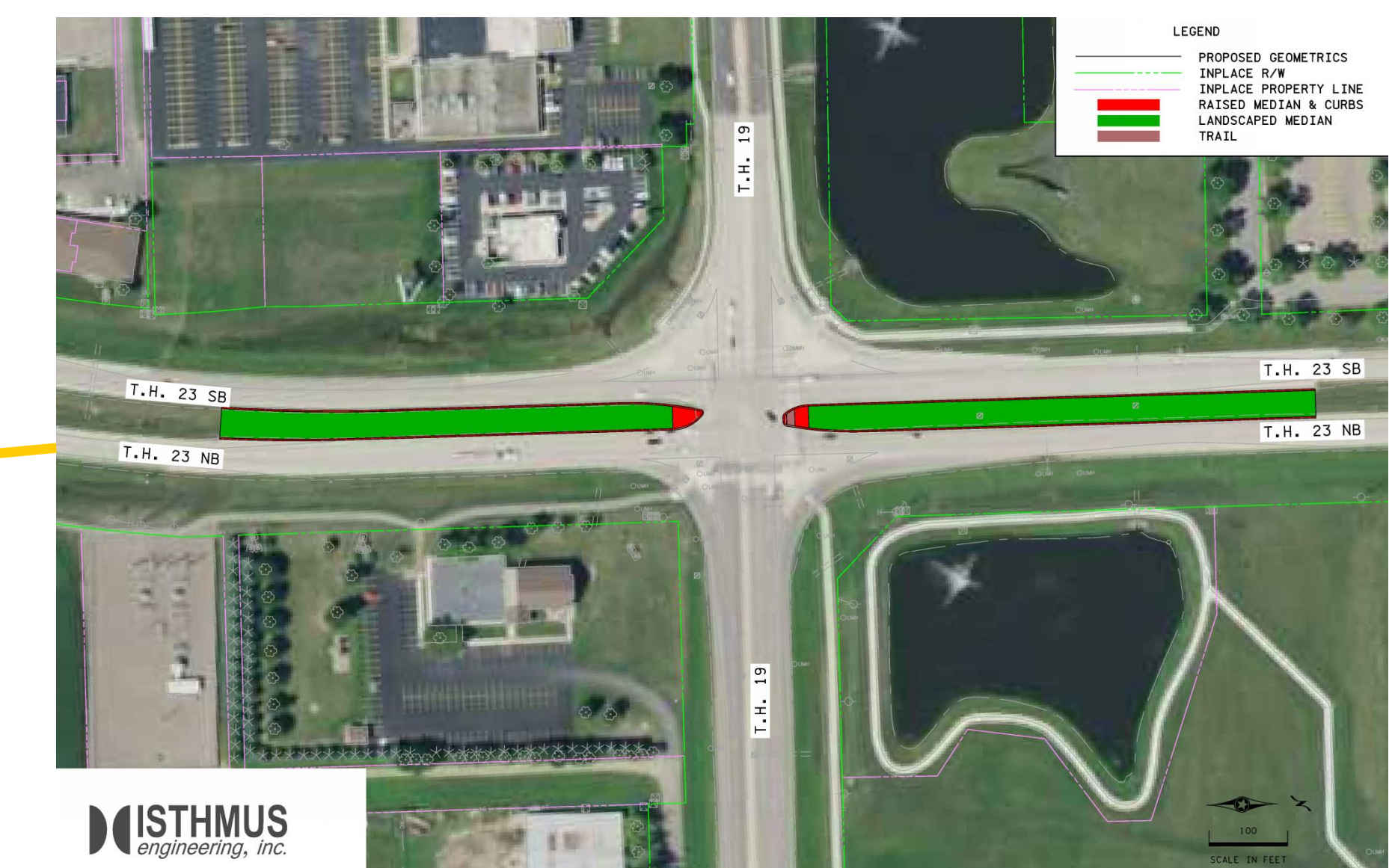
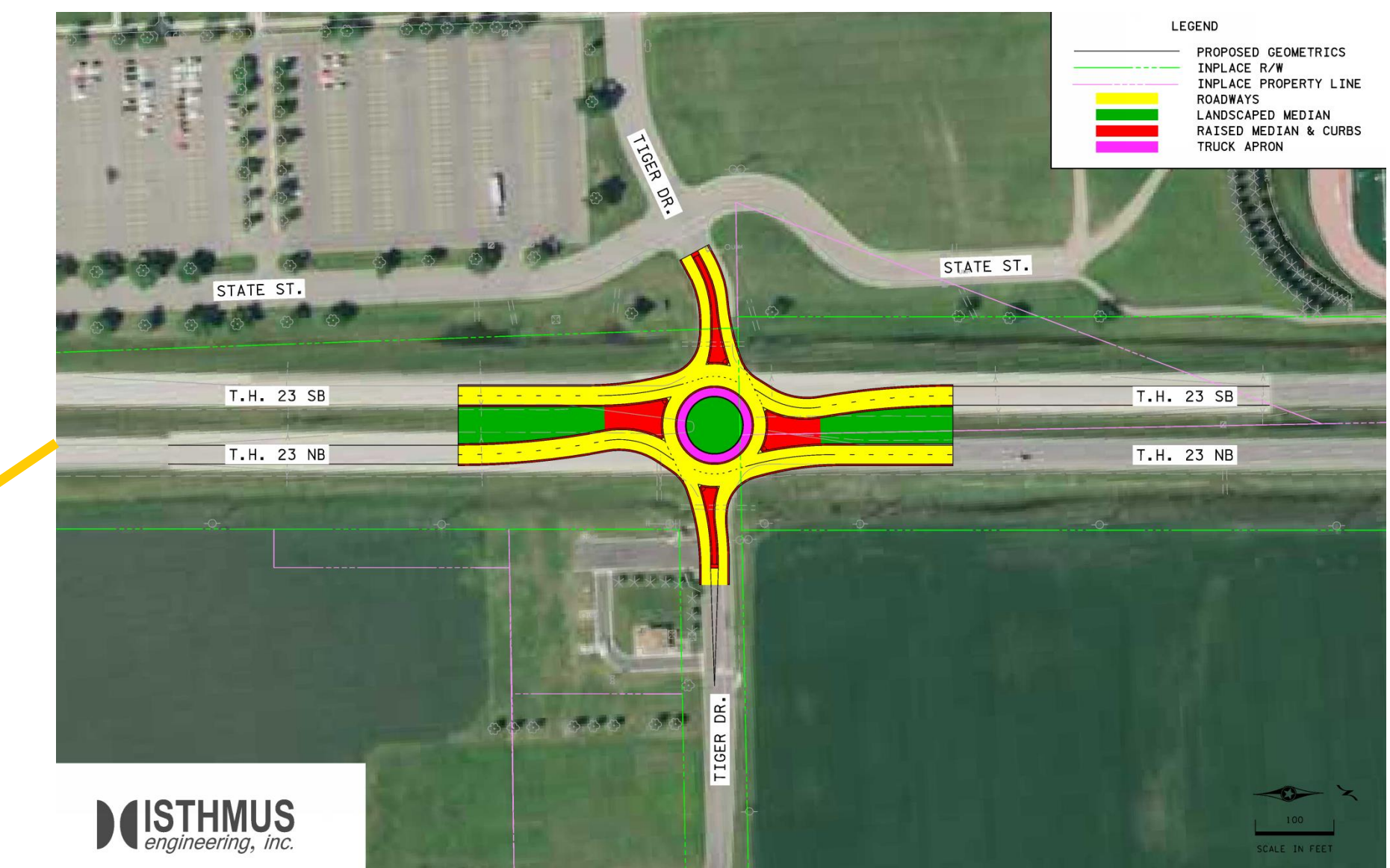
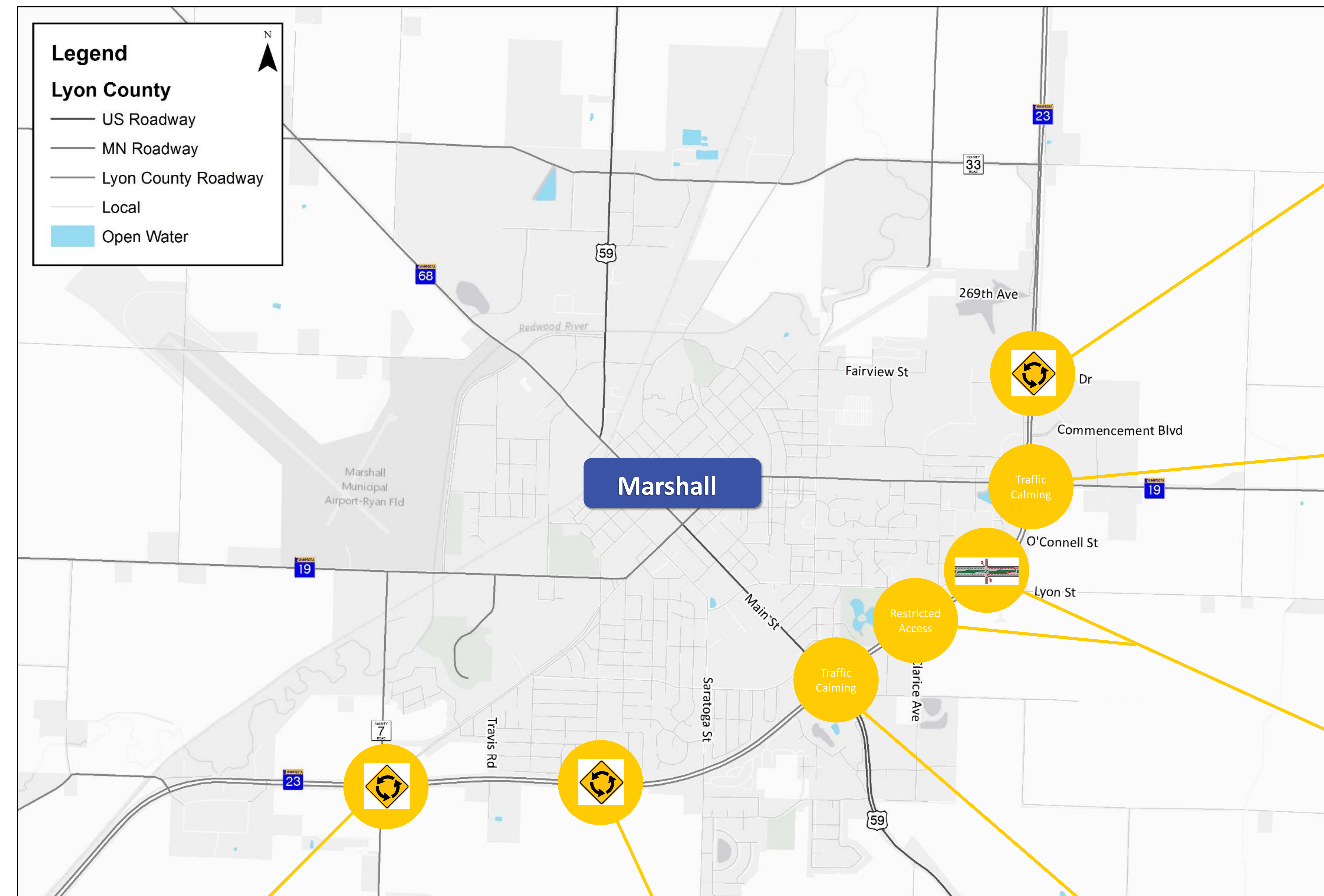
CORRIDOR IMPROVEMENT PLANS

Corridor Plan	CR 7	4th Street	Hwy 59	Clarice Avenue/ Lyon Street	Hwy 19	Tiger Drive
Corridor Plan A: Lower Posted Speed Limit	55 MPH			45 MPH		
Corridor Plan B: Grade-Separated Facility with Three Interchanges		X		X		X
Corridor Plan C: J-Turns at CR 7, 4 th Street, Lyon St, and Tiger Dr			Traffic Calming		Traffic Calming	
Corridor Plan D: Roundabouts at 4 th Street, Lyon St, and Tiger Dr J-Turn at CR 7			Traffic Calming		Traffic Calming	
Corridor Plan E: Roundabouts at 4 th Street, and Tiger Dr J-Turn at CR 7 and Lyon St			Traffic Calming		Traffic Calming	
Corridor Plan F: Roundabouts at CR 7 and Tiger Dr J-Turns at 4 th Street and Lyon St			Traffic Calming		Traffic Calming	
Corridor Plan G: Roundabouts at CR 7, 4 th Street, and Tiger Dr J-Turn at Lyon St			Traffic Calming		Traffic Calming	

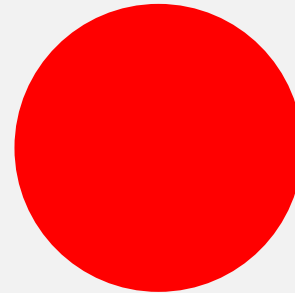
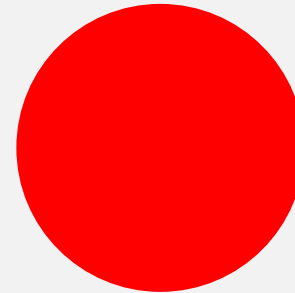
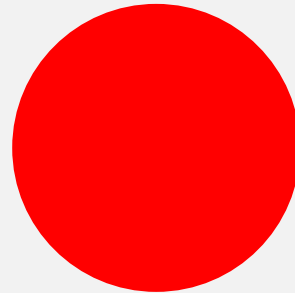
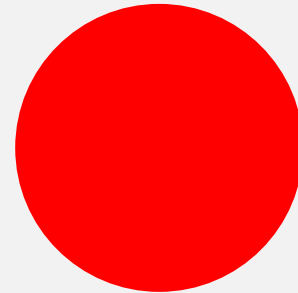
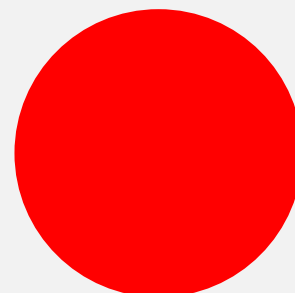
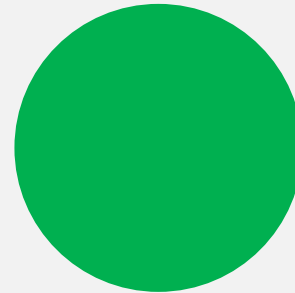

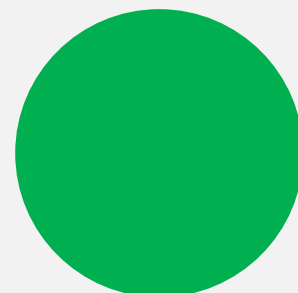

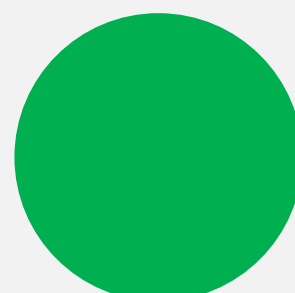
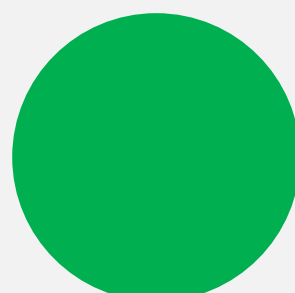
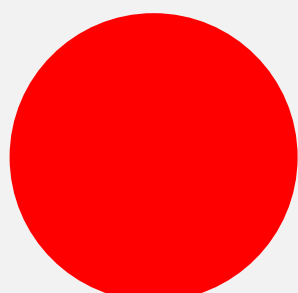
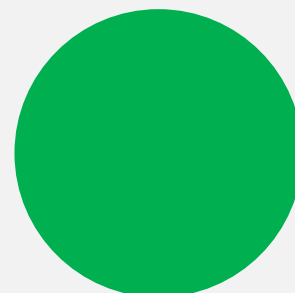
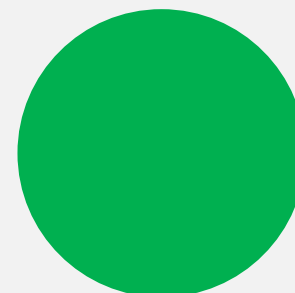


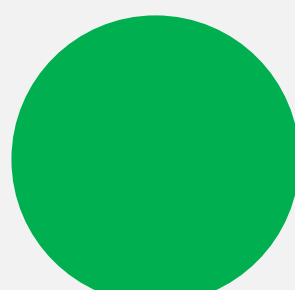
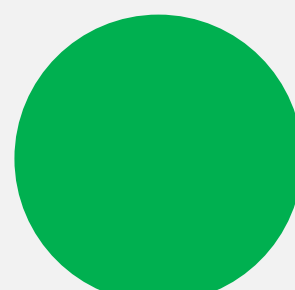
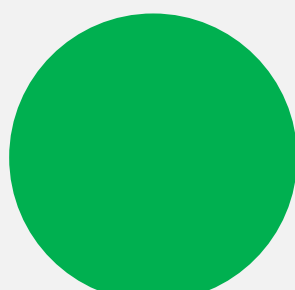








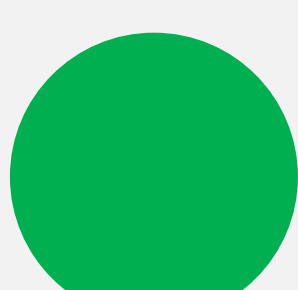
RECOMMENDED CORRIDOR PLAN E






RECOMMENDED CORRIDOR PLAN G



COMPARISON OF CORRIDOR IMPROVEMENT PLANS

Corridor Plan	Reduces travel speeds along Hwy 23?	Improves safety at intersections?	Improve safety of access to, from and across Hwy 23?	Improves safety for pedestrians and bicyclists?	Estimated Project Cost
Corridor Improvement Plan A: Lower Posted Speed Limit					\$
Corridor Improvement Plan B: Grade-Separated Facility with Three Interchanges					\$\$\$\$\$
Corridor Improvement Plan C: J-Turns at CR 7, 4 th Street, Lyon St, and Tiger Dr					\$\$\$
Corridor Improvement Plan D: Roundabouts at 4 th Street, Lyon St, and Tiger Dr J-Turn at CR 7					\$\$\$
Corridor Improvement Plan E: Roundabouts at 4 th Street and Tiger Dr J-Turn at CR 7 and Lyon St					\$\$\$
Corridor Improvement Plan F: Roundabouts at CR 7 and Tiger Dr J-Turns at 4 th Street and Lyon St					\$\$\$
Corridor Improvement Plan G: Roundabouts at CR 7, 4 th Street, and Tiger Dr J-Turn at Lyon St					\$\$\$

*** Recommended corridor plans are contingent on funding and project delivery opportunities.**

-  Does not meet objective \$ = <\$5M
-  Acceptably meets objective \$\$\$ = \$5M-\$10M
-  Best meets objective \$\$\$\$\$ = \$60M-\$80M

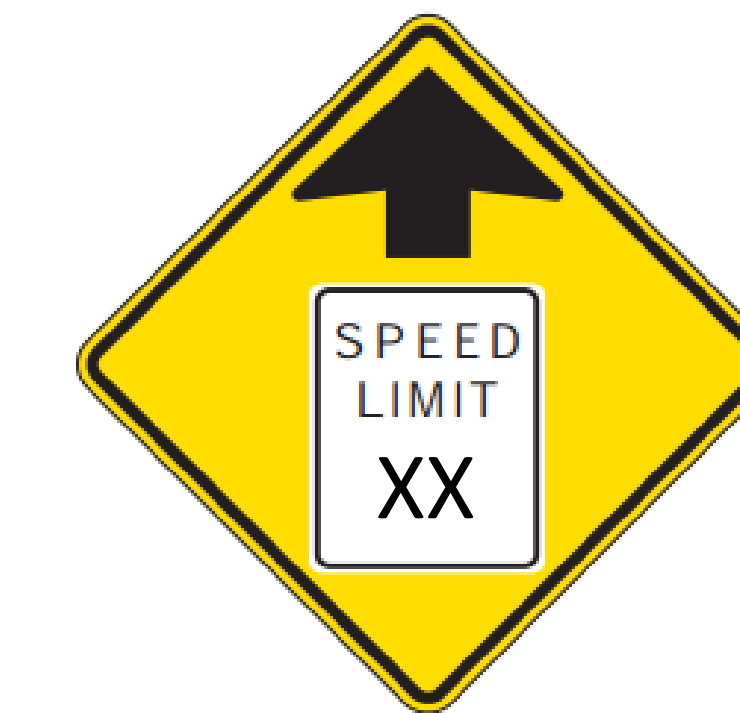


OTHER ONGOING STRATEGIES

ENGINEERING:

- (ES) Install advanced signing for reduced speed ahead
- (SC) Install trees and landscaping along Hwy 23 to serve as speed calming measures
- (SC) Strategically locate driver feedback signs to assist with speed calming
- (SC) Review posted speed limit in conjunction with highway characteristic changes

Speed Calming = SC
Enhanced Signing = ES



Advanced
Signing



Driver
Feedback Signs

ENFORCEMENT:

- Work with law enforcement to enhance enforcement of posted speed limit



Enforcement
Campaign

EDUCATION:

- Conduct education campaign regarding speeding and distracted driving

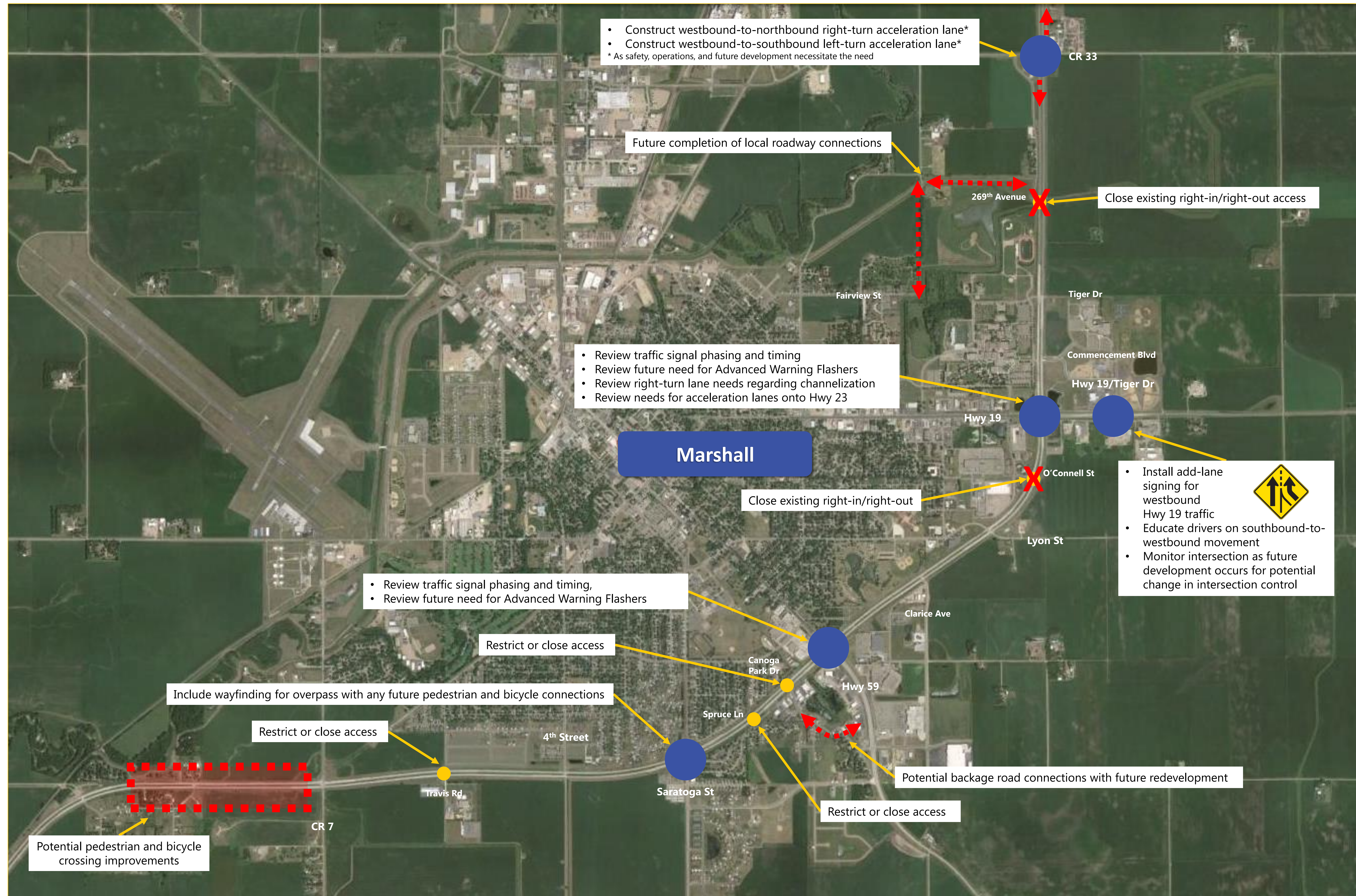


Education
Campaign

EVALUATION:

- Evaluate changes in travel speeds following any improvements
- Evaluate for local frontage/backage road connections with future development
- Evaluate potential removal of advanced warning flashers at traffic signals

OTHER ONGOING STRATEGIES



What are the next steps?

PROJECT DEVELOPMENT AND DELIVERY PROCESS

Planning

- Identify projects needs and priorities
- Develop project scope and schedule
- Identify funding opportunities
- Public outreach

Design

- Develop construction plans
- Obtain appropriate permits
- Public outreach

Construction

- Construct project
- Public outreach

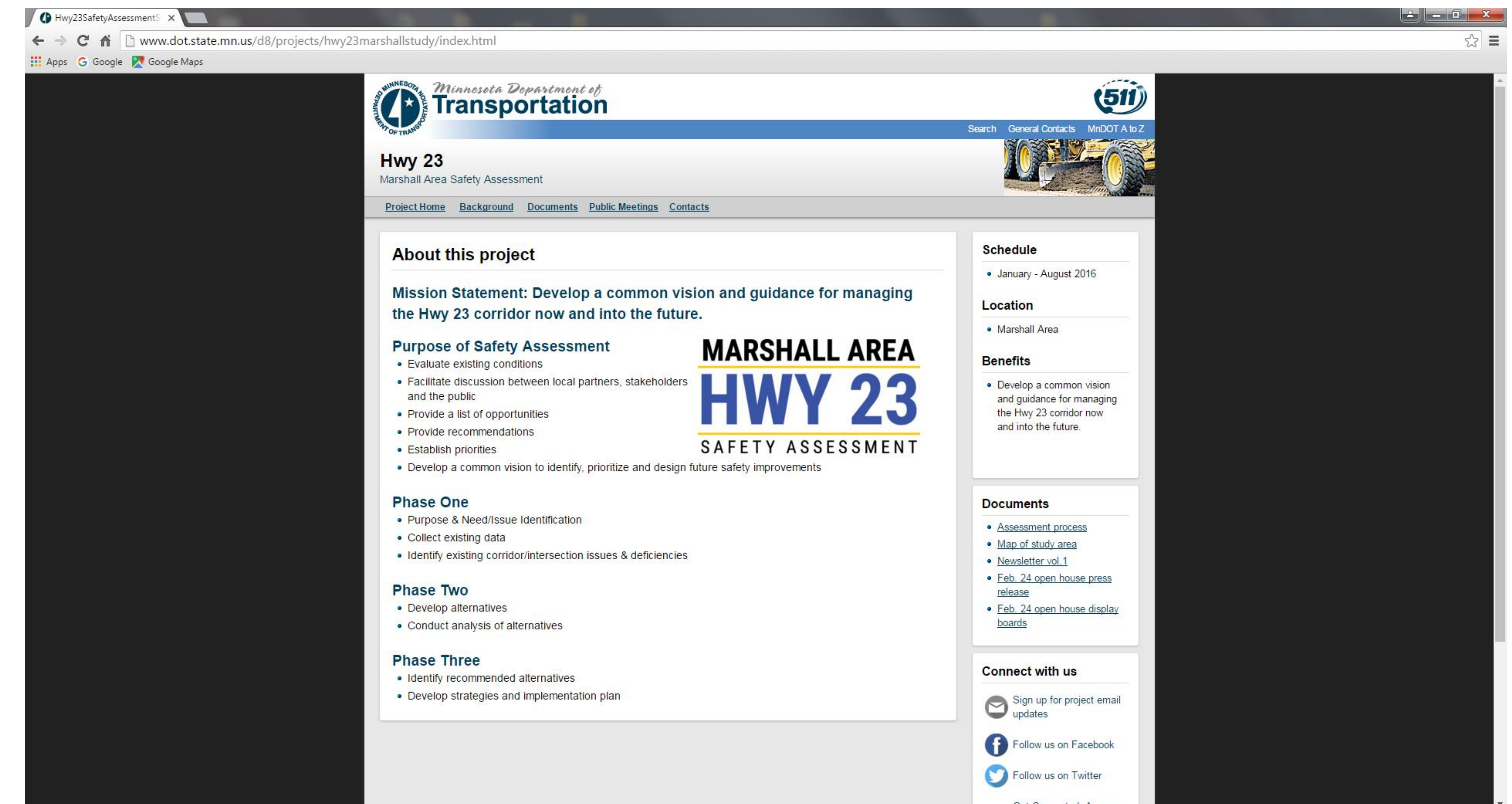
It takes approximately 2-5 years to develop and deliver a project!

THANK YOU!

Leif Garnass
SRF Consulting Group, Inc.
marshallhighway23@srfconsulting.com
763-452-4725

Lindsey Knutson
MnDOT Project Manager
Lindsey.Knutson@state.mn.us
320-214-6333

Ryan Barney
MnDOT Project Manager
Ryan.Barney@state.mn.us
320-214-6326



Assessment website:

<http://www.dot.state.mn.us/d8/projects/hwy23marshallstudy/index.html>

