



CIP T-84 Cosgray Road Improvements

9/13/2018

Agenda

- **Welcome & Introductions**
- **Project Overview**
- **Questionnaire Summary**
- **Existing Corridor Conditions**
- **Future Conditions and Alternatives**
- **Bicycle and Pedestrian Facilities**
- **Short Term/Phased Improvements**
- **Questions & Answers**

Project Limits



Project Overview

- Evaluate existing conditions along Cosgray Road
- Evaluate proposed development along Cosgray Road
- Predict future traffic volumes
- Resident questionnaire
 - Evaluate and incorporate resident feedback
- Propose short-term and medium-term recommendations



Questionnaire Summary



80% want path system expanded



2/3 Respondents use nearby paths

- Want connections to
 - YMCA
 - CVS
 - Bo Jackson Sports Complex
 - And others

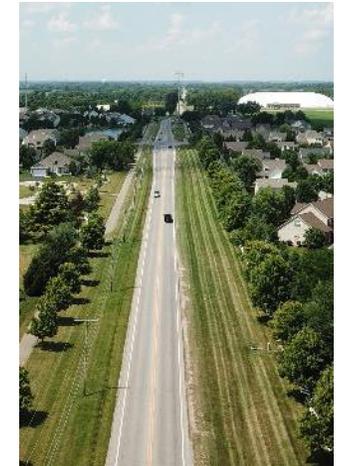


- Pedestrian crossing at Woodsvie Way (near YMCA) needs improved Street lighting at intersections or along corridor
- Biggest concern is difficulty turning left or continuing through at
 - Woodsvie Way
 - Jeffreyln Drive/ Hoffman Farms Drive



Existing Conditions

- **Two lane road**
 - 15,000 VPD with 2% Trucks
- **Open ditches (rural/high speed character)**
- **Disconnected shared use paths**
- **Limited ped/bike connections to neighborhoods**
- **High speeds: 85% of vehicles travel at or below 48-mpg**
- **Physical Constraints**
- **Traffic Issues**
 - Side Street Delay
 - **>1 minute to turn onto or cross Cosgray Road from side streets during peak periods**
 - **Long side street “back ups”**
 - Vehicle queues approaching Scioto Darby Road
 - Difficult for pedestrians & bikes to cross Cosgray



Future Conditions

- **Analysis Horizon**
 - 2022, 2032 and 2042
- **Growth**
 - Background Growth
 - Cosgray Road Extension
- **Development**
 - Jerman Tract
 - Shopping, Office, Soccer Fields
 - New Trips
 - A.M. – 280 Trips/hour
 - P.M. – 1,210 Trips/hour

- Greener Property
 - Assumed Soccer Fields and Grade School
 - New Trips
 - A.M. – 120 trips/hour
 - Saturday – 400 trips/hour
 - P.M. – 250 trips/hour
- **Unbalanced Traffic Volumes**
 - This is seen in the alternatives

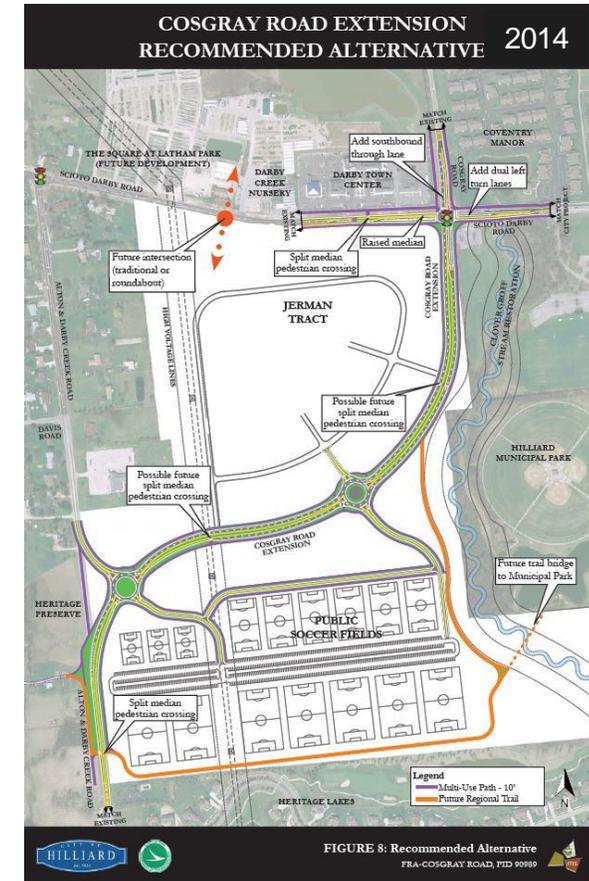


FIGURE 8: Recommended Alternative
FRA-COSGRAY ROAD, PID 90989

Long Term Alternatives

Option 1: Signalized Intersection Corridor



Option 2: Roundabout Intersection Corridor

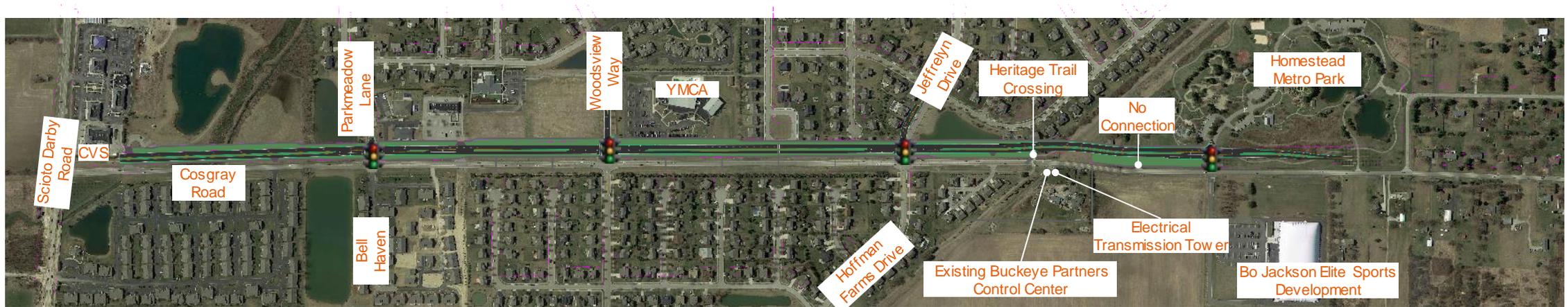


Option 1: Signalized Intersection Corridor

- **Traffic Signals with Turn Lanes**
- **Traffic Signal Warrants**
 - Woodsvieview Way – **Now**
 - Jeffreylyn Drive/Hoffman Farms Drive – Anticipated around 2028
 - Parkmeadow Lane/Bell Haven – Anticipated around 2032
 - Homestead Park – Depends on Greener Park Development
- **Advantages (compared to roundabout alternative)**
 - Driver familiarity of the rules
- Slightly less property impacts at the intersections
- **Disadvantage (compared to roundabout alternative)**
 - Higher construction cost
 - Increased potential for injury crashes
 - Increased delay on Cosgray Road
 - Increased delay on Side Streets
 - Longer pedestrian crossings and delays
 - Higher speeds along Cosgray Road



Option 1: Signalized Intersection Corridor



Typical Section



Intersection Overview

Option 2: Roundabout Intersection Corridor

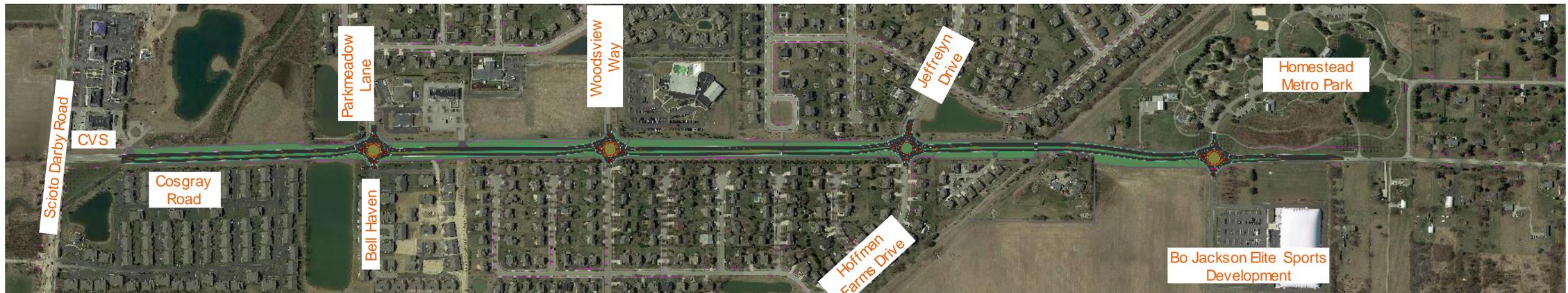
- **Advantages (compared to signal alternative)**

- Lower Cost
- Decrease potential for injury crashes
- Reduced delay on Cosgray Road
- Reduced delay on side streets

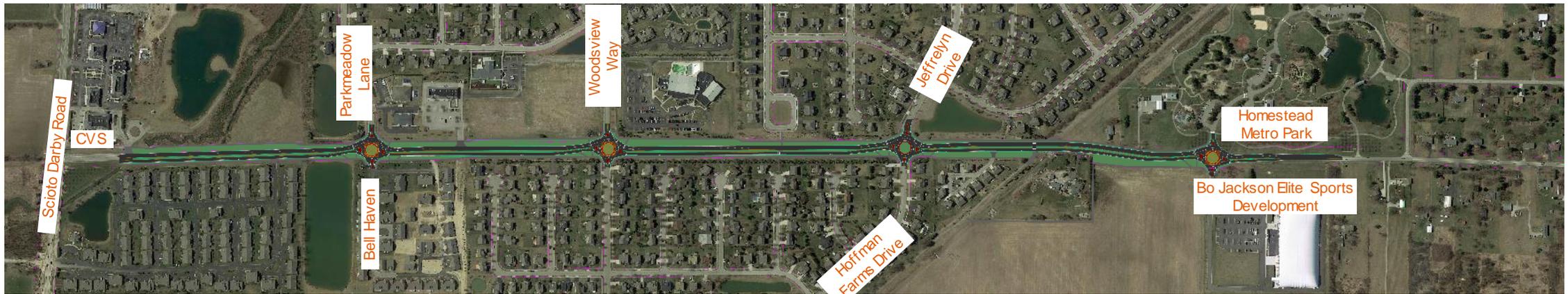
- Lower speeds along Cosgray Road

- **Disadvantages (compared to signal alternative)**

- Slightly more property impacts at the intersection



Option 2: Roundabout Intersection Corridor



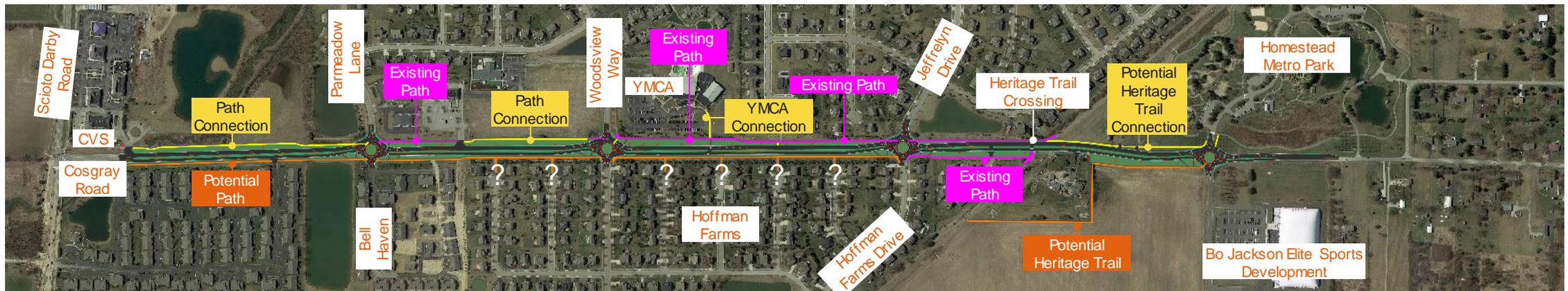
Typical Section



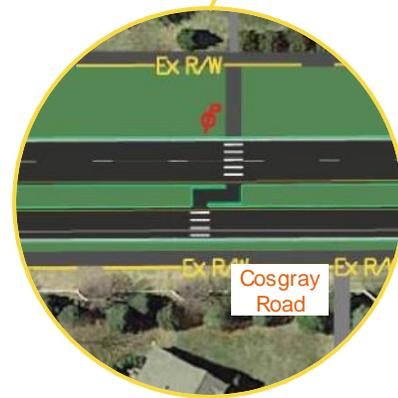
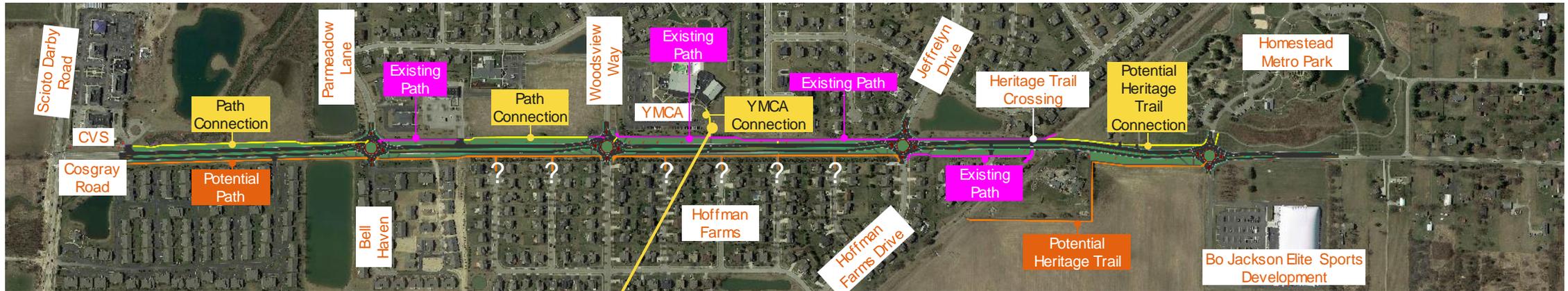
Intersection Overview

Bicycle and Pedestrian Improvements

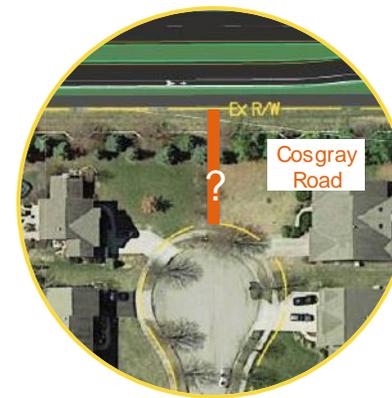
- **Expand the existing path system along Cosgray Road**
 - Fill the gaps in the path along west side
 - If space exists, potential path on east side
 - Add connection to YMCA front door?
 - Sidewalk connections to cul-de-sacs in Hoffman Farms?
- **Improvements at intersections to easily cross Cosgray Road**
- **Mid-Block crossing with median to improve access to YMCA**
- **Street lighting to improve visibility at crossing locations**



Bicycle and Pedestrian Improvements



Mid-Block Crossing



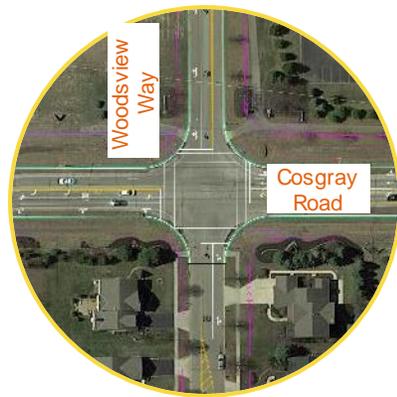
Hoffman Farms cul-de-sac
 Connections

A Phased Approach: Short Term Improvements (2-10 years)

- **Why?** Spread out costs & focus on priority needs first
- **Fill in path gaps south of Woodview Way**
- **First priority – Woodview Way**
 - Traffic Signal
 - Single lane roundabout
- **Second Priority – Greener Property/Homestead Park**
 - Dependant on Greener property development
 - Once Greener property develops, intersection improvement is needed
- **Jeffrelyn Drive/Hoffman Farms Drive**
 - Traffic Signal added when warranted
 - Single lane roundabout



Short Term Improvements (2-10 years)

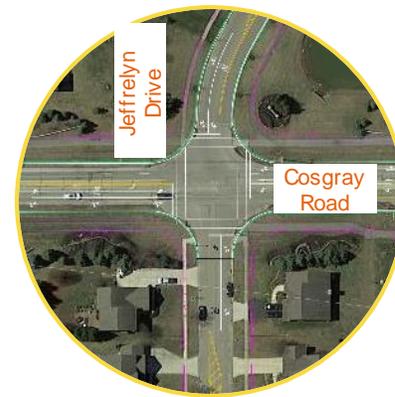


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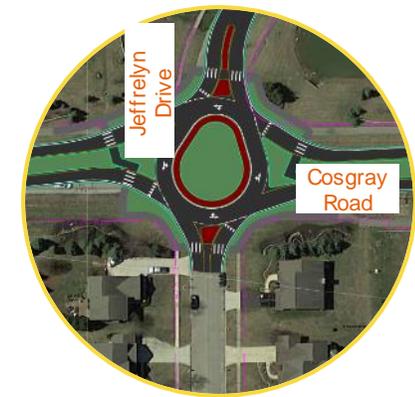


First Priority

or



Second Priority



Questions?

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