



Smith Valley & Madison Avenue Project | Public Presentation

January 17, 2018

Trent Newport, PE, LS



Public Meeting Agenda

- Welcome and Mayor Myers's Comments
- Project Presentation
- Open House

History of Project Area

- US 31 – constructed in 1940s
- Smith Valley “By-Pass” – constructed in 1970s
- Signal at Smith Valley & Madison – late 1970s
- Signal at Smith Valley & Meridian – mid 1990s
- US 31 widened 4 lanes to 6 lanes – early 1990s

Current Project Design Schedule

- Funding approved thru MPO July 2015
- Design started in late 2014
- Project booth at Freedom Fest 2015
- Public meeting held December 2016
- Design completed in October 2017



CROSSROAD
ENGINEERS, PC
Transportation &
Development Consultants



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Why this solution?

- Maximize efficiency/reduce congestion with roundabout at Madison and signal at Meridian with metering as needed
- Increase thru east/ west green time by removing left turns from Smith Valley to US 31 & from Meridian to Smith Valley
- Above improvements and added lanes to reduce delay by 45%!!
- Increase Pedestrian safety

Why a Roundabout?

Traditional intersections account for:

- 45% of all crashes - *FHWA*
- 33% of all traffic fatalities - *FHWA*

Compared to traditional intersections roundabouts:

- Reduce fatalities and injuries by 82% - *FHWA*
- Reduce total crashes by 44% - *FHWA*
- Require vehicles to travel at lower speeds

Roundabouts reduce congestion so less traffic delays

- Up to 23% typical reduction! - *Insurance Institute for Highway Safety*
- Equivalent to 325,000 fewer hours annually nationwide - *Insurance Institute for Highway Safety*

What is a Roundabout?

- One-way circular intersection
- Traffic flows counter-clockwise around a center island
- Yield at entrance
- No Parking
- No “activity” in center island



How do I drive a Roundabout?

- Slow down as you approach
- Look for pedestrians
- Yield to ALL traffic to your left
- Enter when there is a gap in traffic
- Exit at desired street

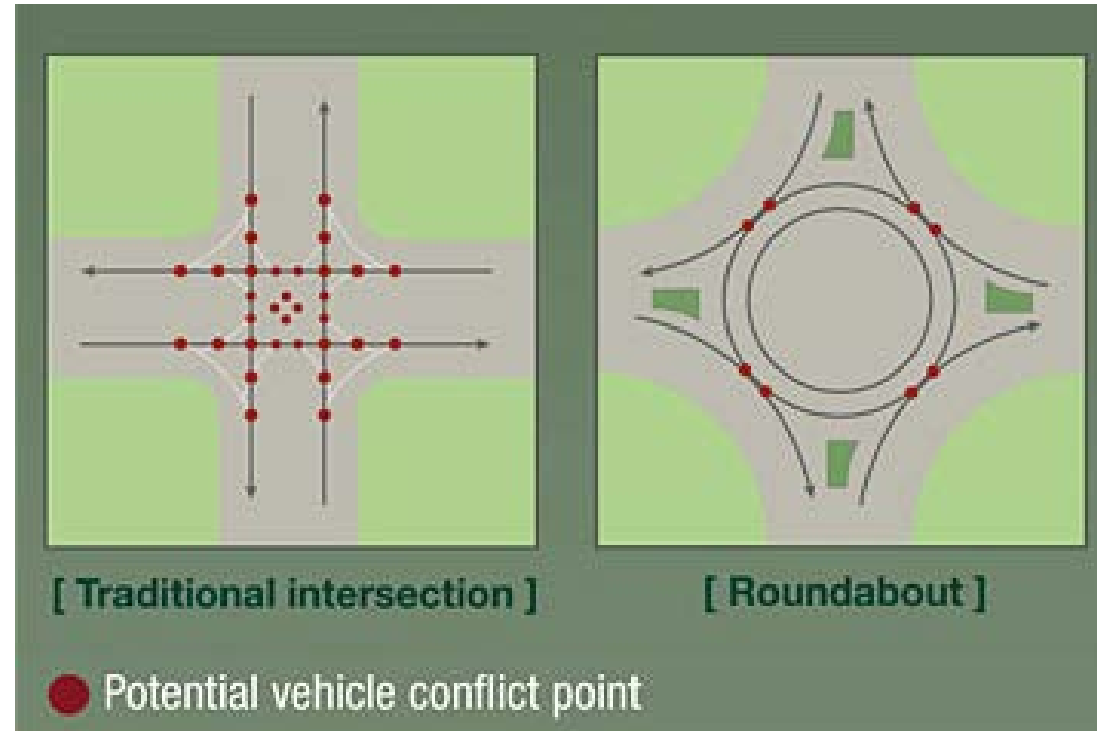


Collisions at traditional intersections are severe because:

- High Speed
- Angle of Impact



Roundabouts are Safer



(32)

(8)

Conflict points are dramatically reduced because all vehicles travel in the same direction.

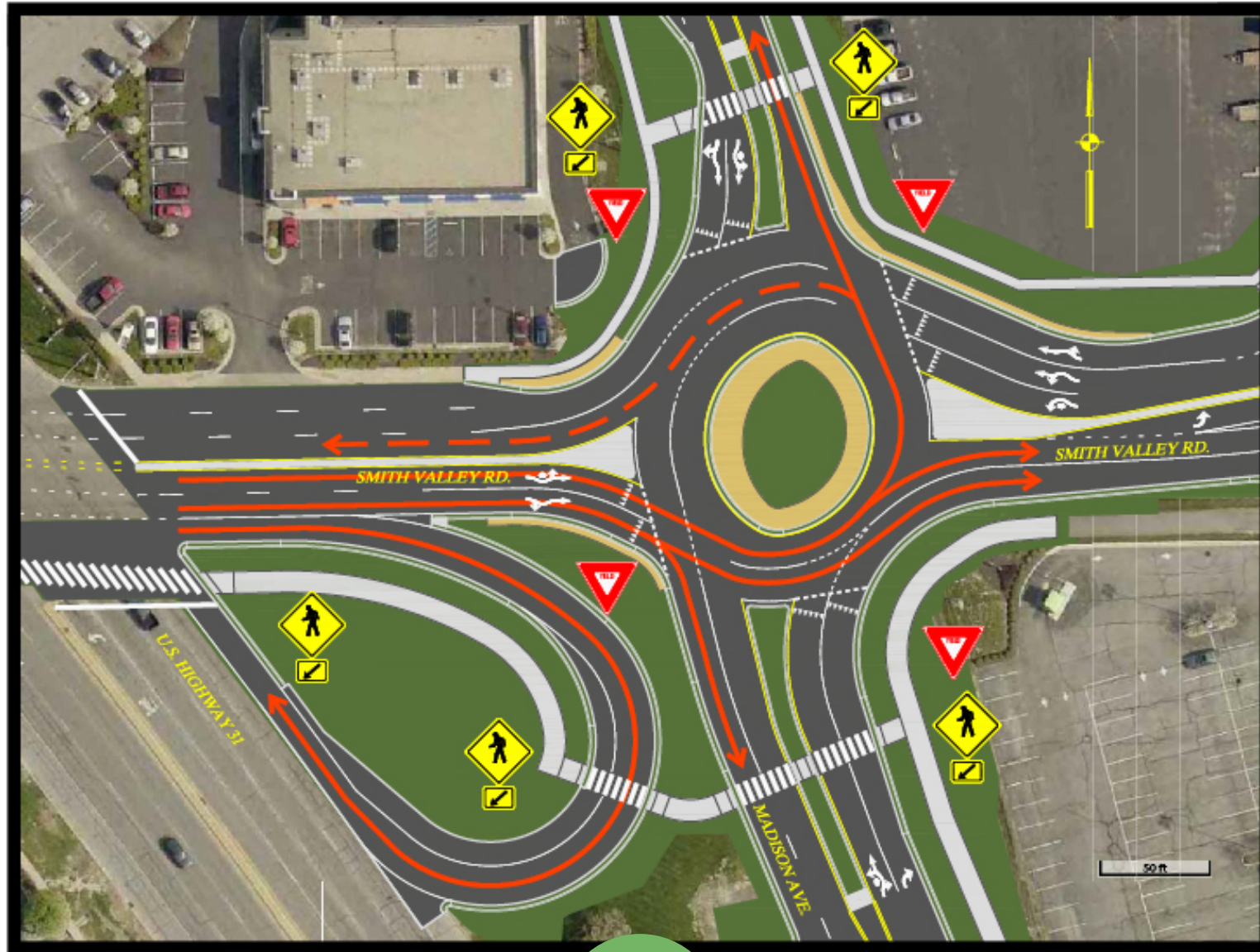
Roundabouts are Efficient

Reduced congestion and less traffic delays

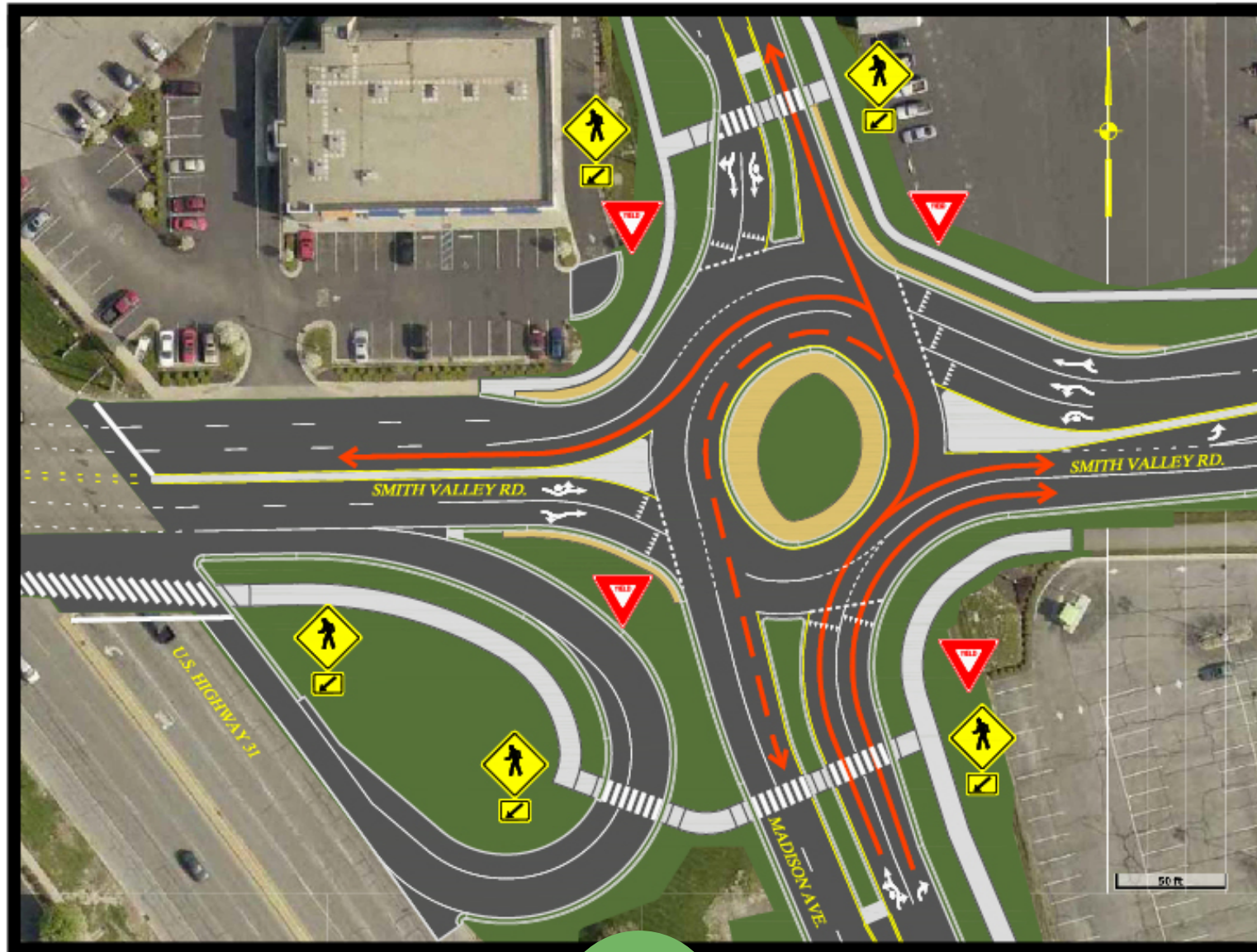
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Eastbound Movement



Northbound Movement

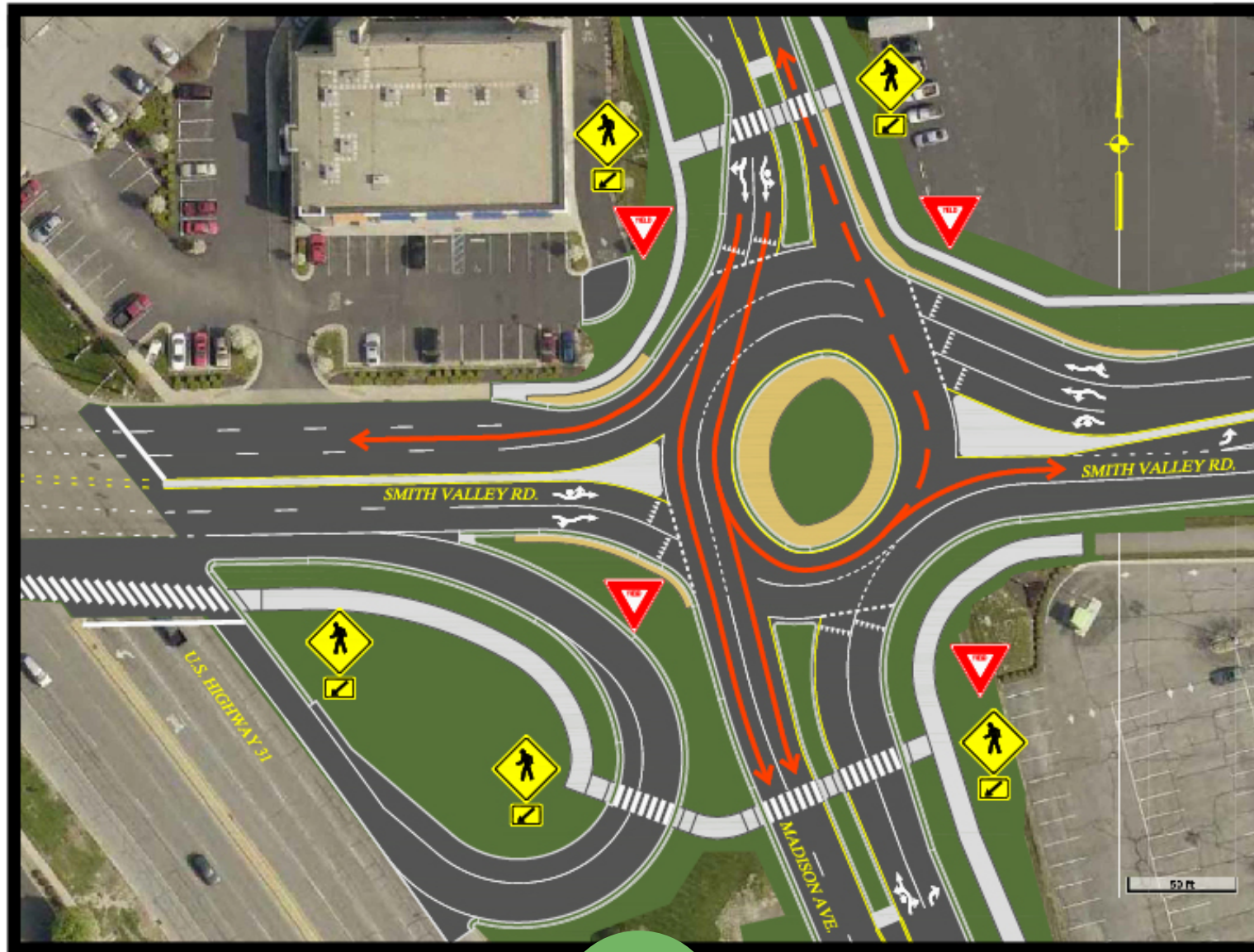


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Southbound Movement

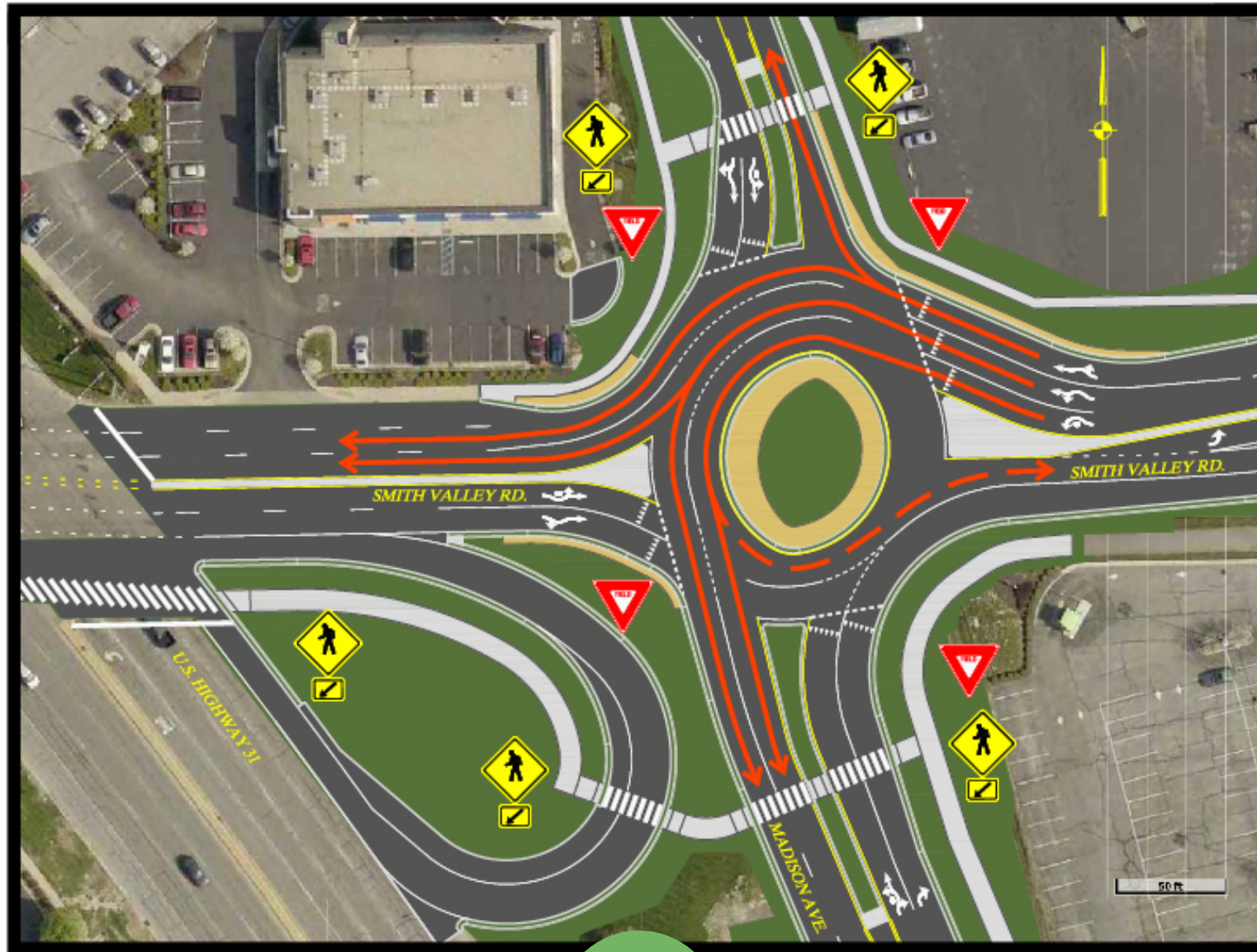


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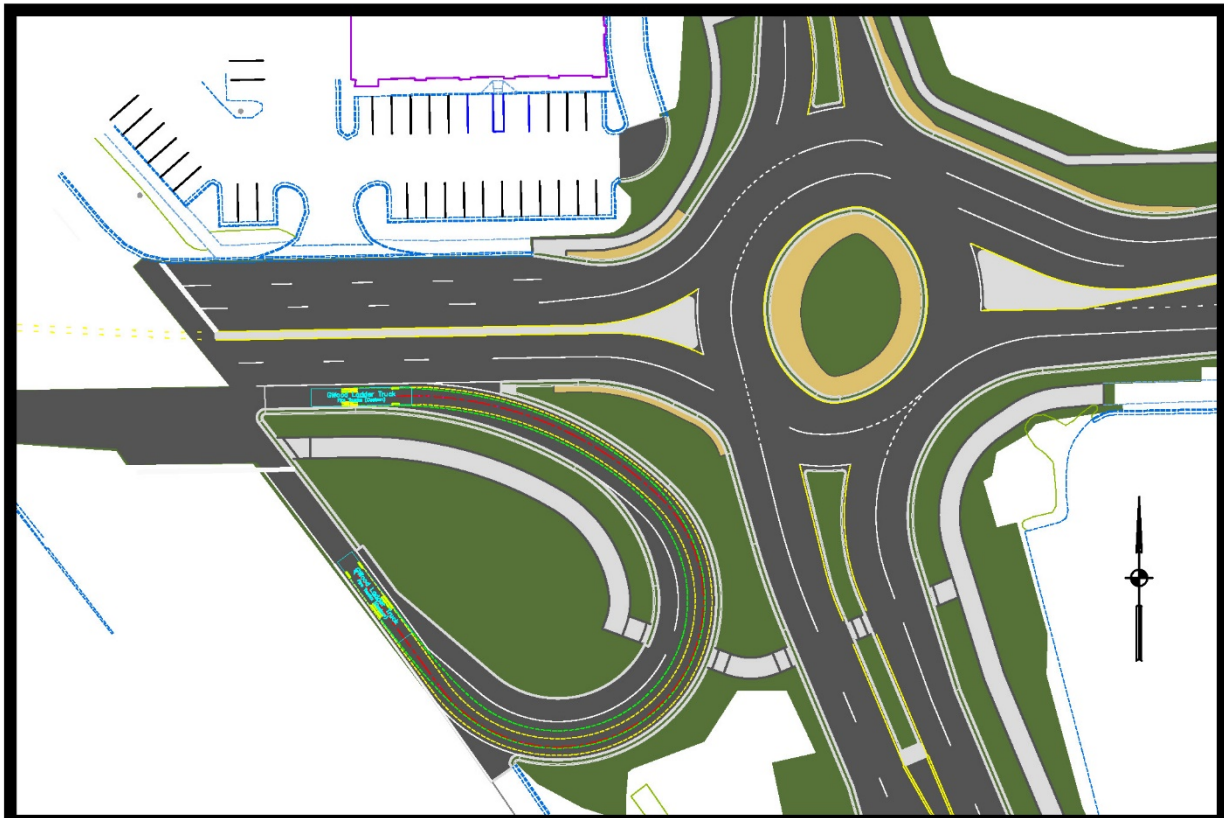
Westbound Movement



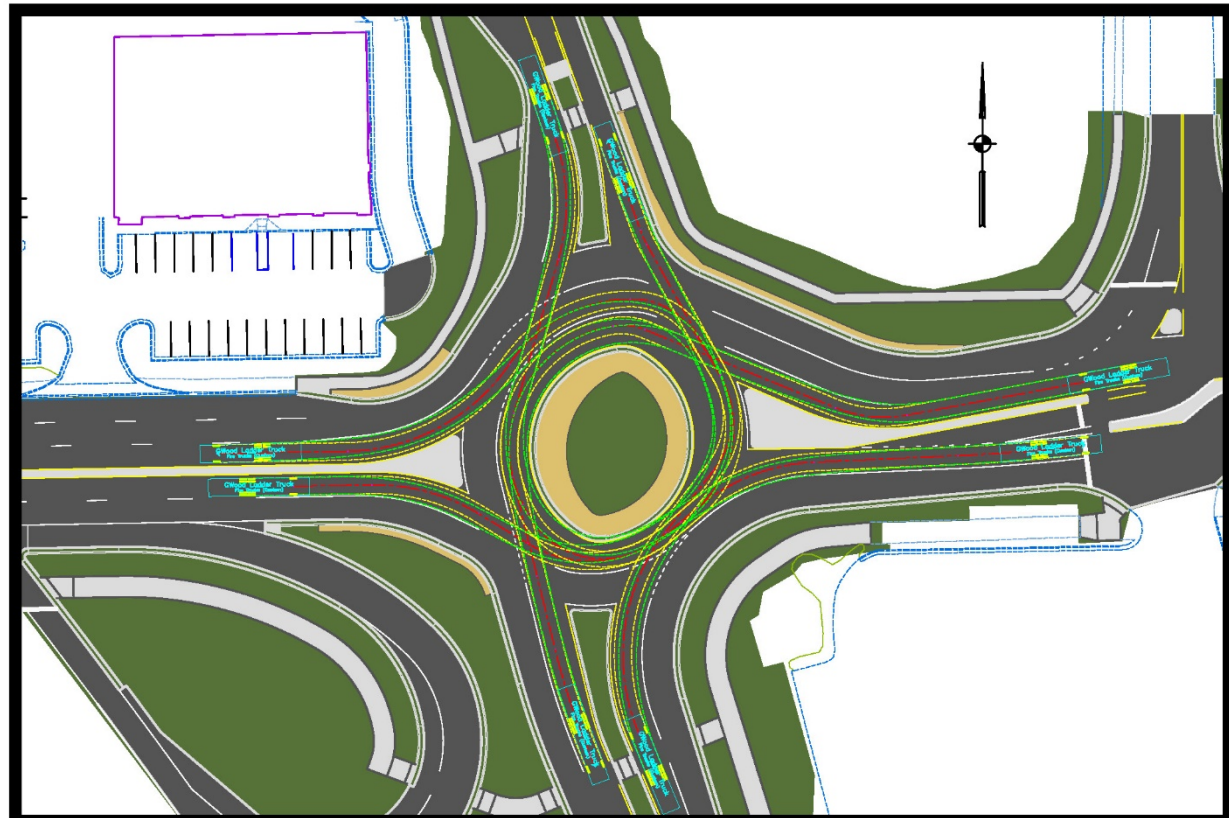
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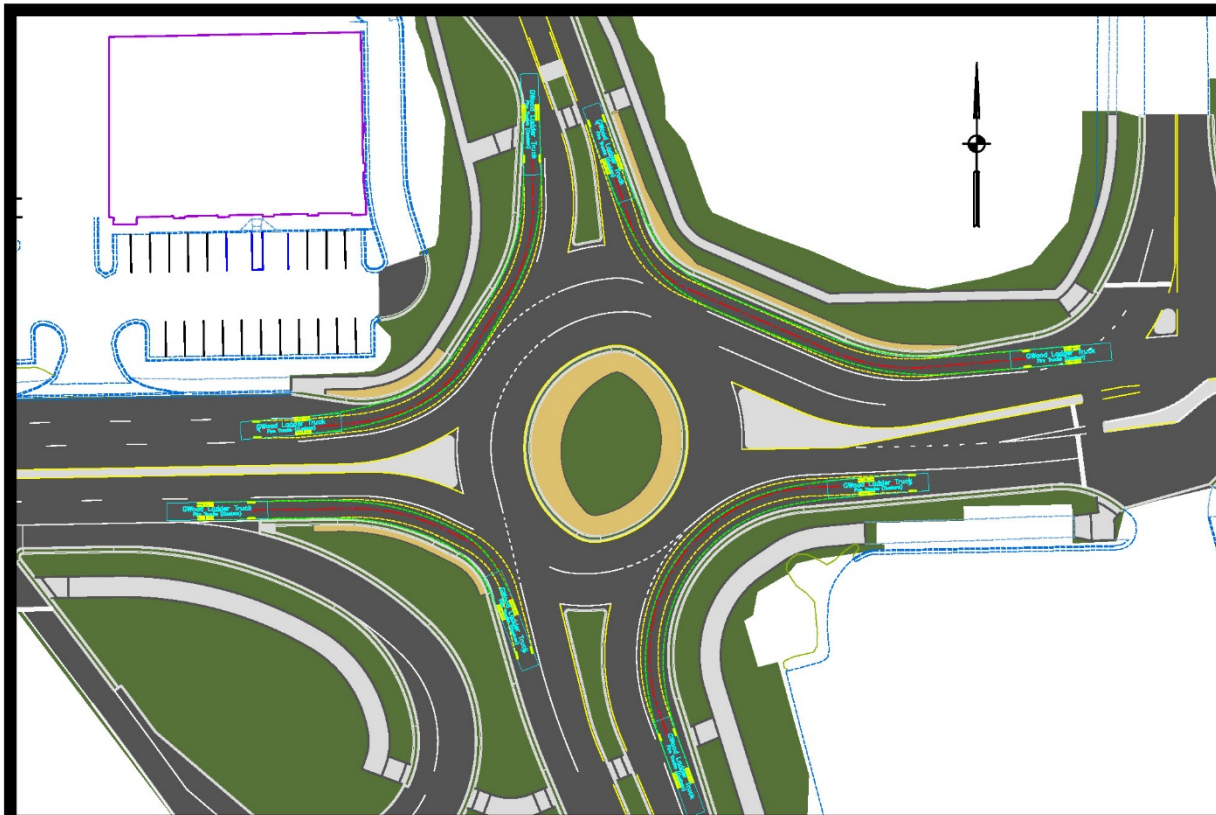
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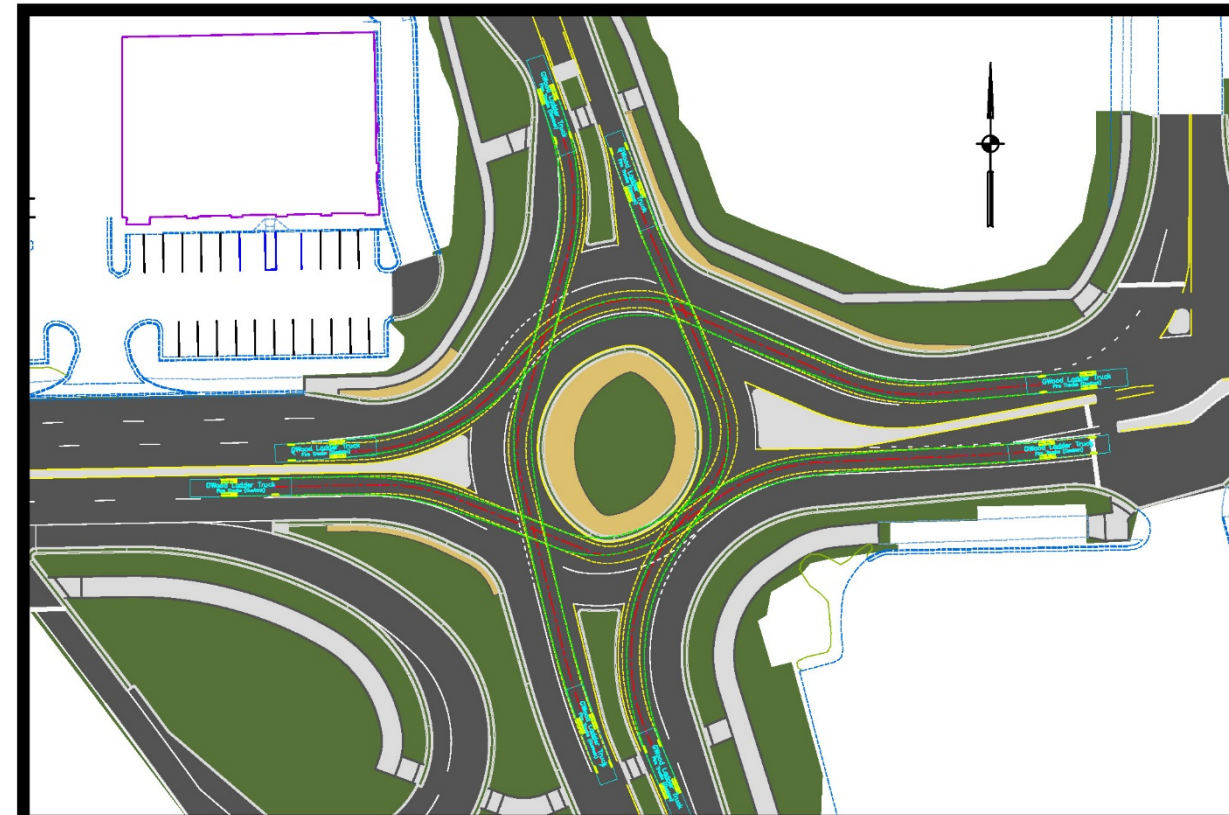
**SMITH VALLEY ROAD AND MADISON AVENUE
LADDER FIRE TRUCK PATH - JUG HANDLE MOVEMENT**



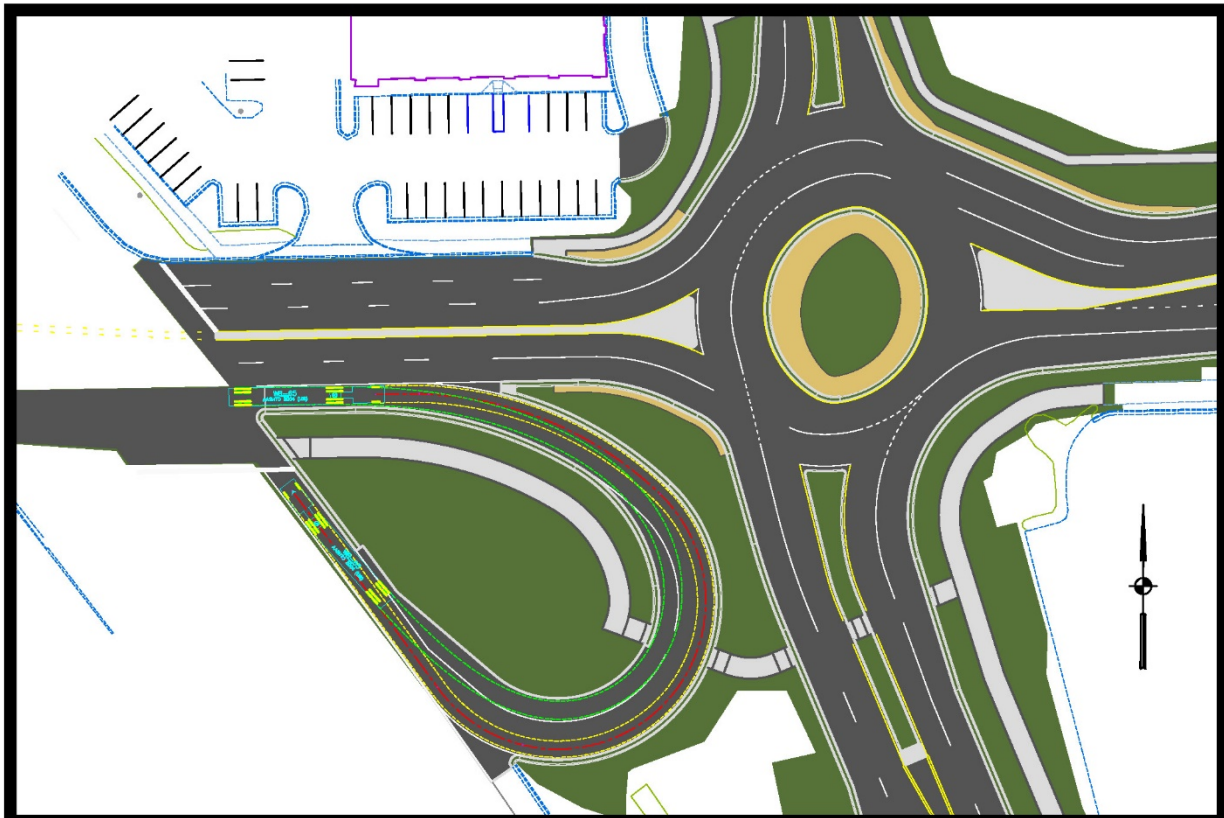
**SMITH VALLEY ROAD AND MADISON AVENUE
LADDER FIRE TRUCK PATH - LEFT TURN FROM ALL DIRECTIONS**



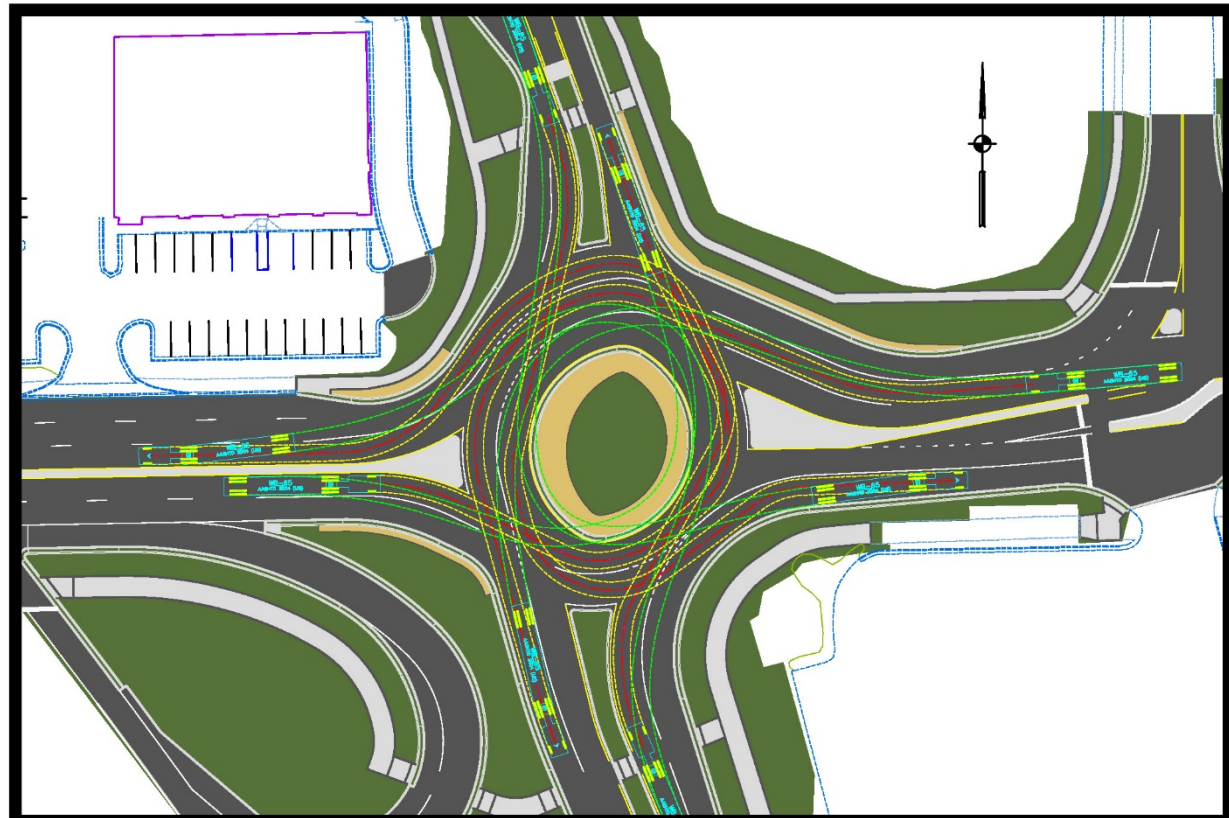
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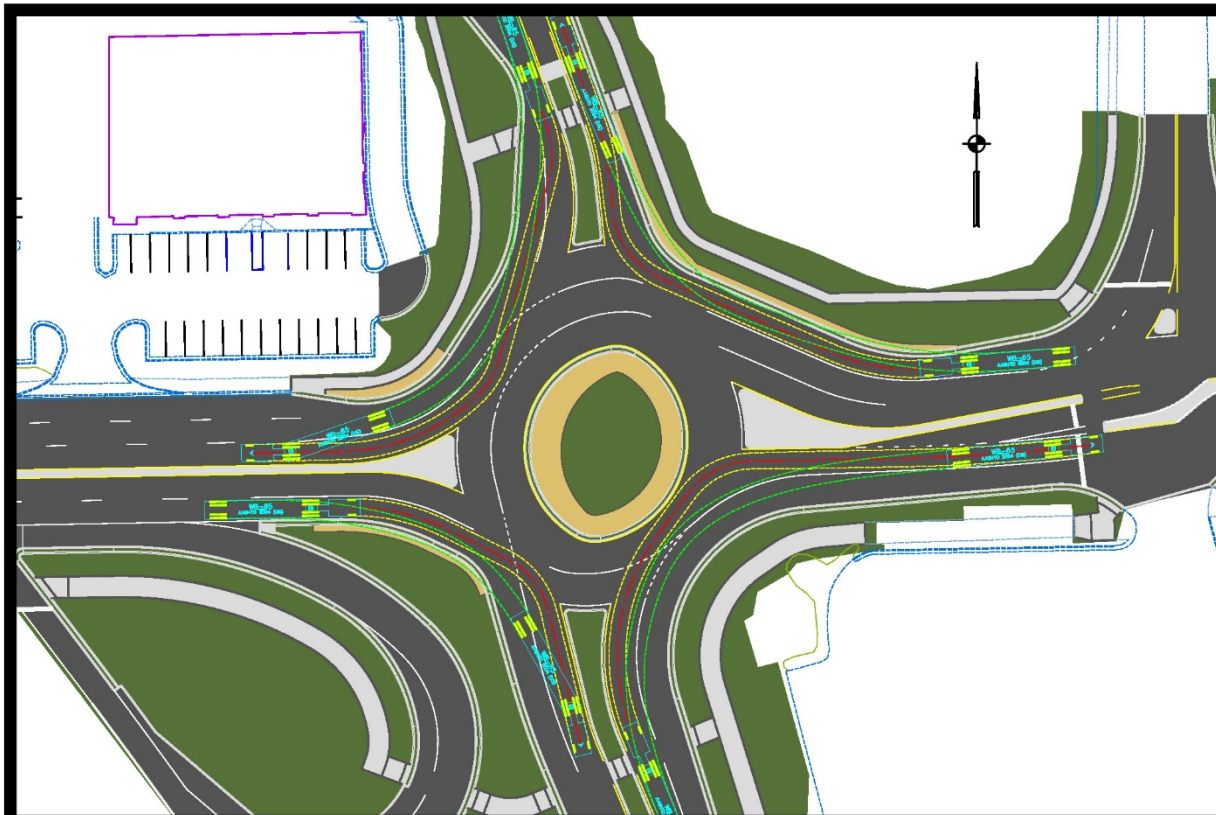
**SMITH VALLEY ROAD AND MADISON AVENUE
LADDER FIRE TRUCK PATH - THRU MOVEMENTS**



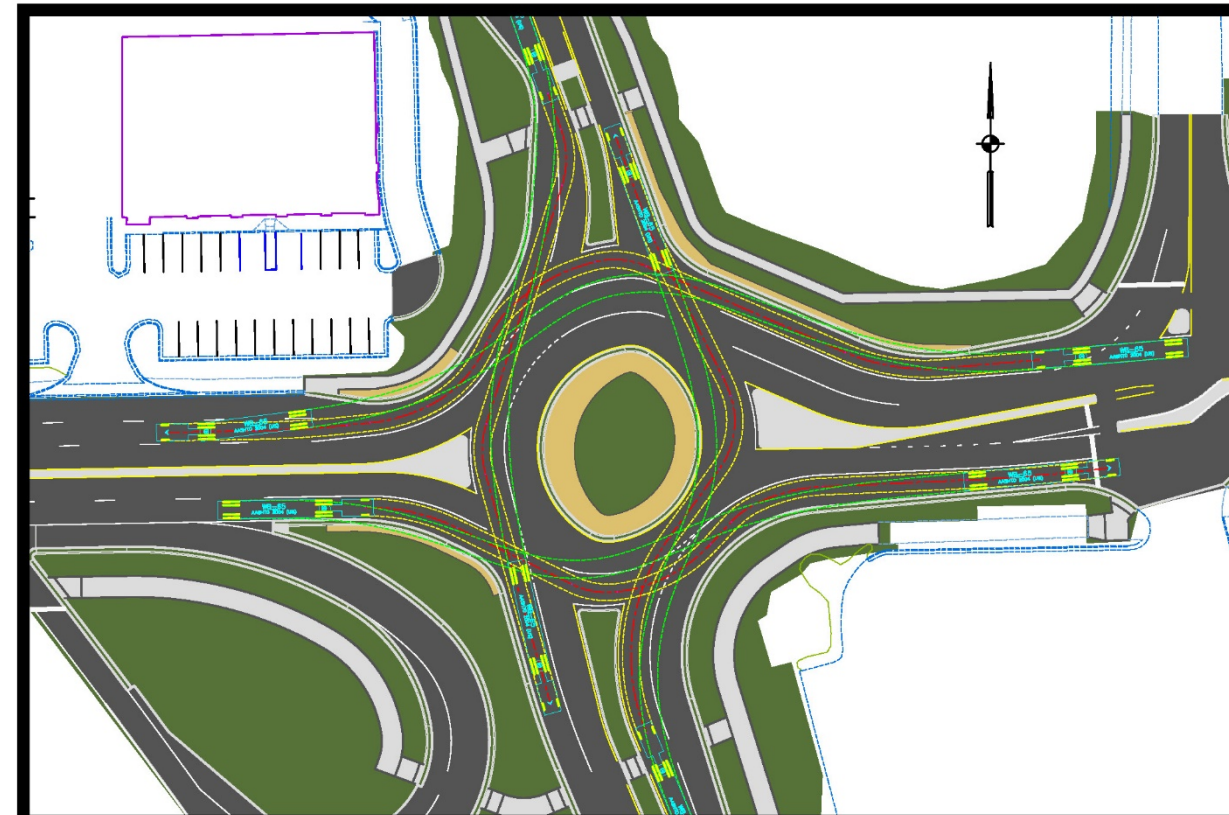
**SMITH VALLEY ROAD AND MADISON AVENUE
WB-65 TRACTOR TRAILER PATH - JUG HANDLE MOVEMENT**



**SMITH VALLEY ROAD AND MADISON AVENUE
WB-65 TRACTOR TRAILER PATH - LEFT TURN FROM ALL DIRECTIONS**

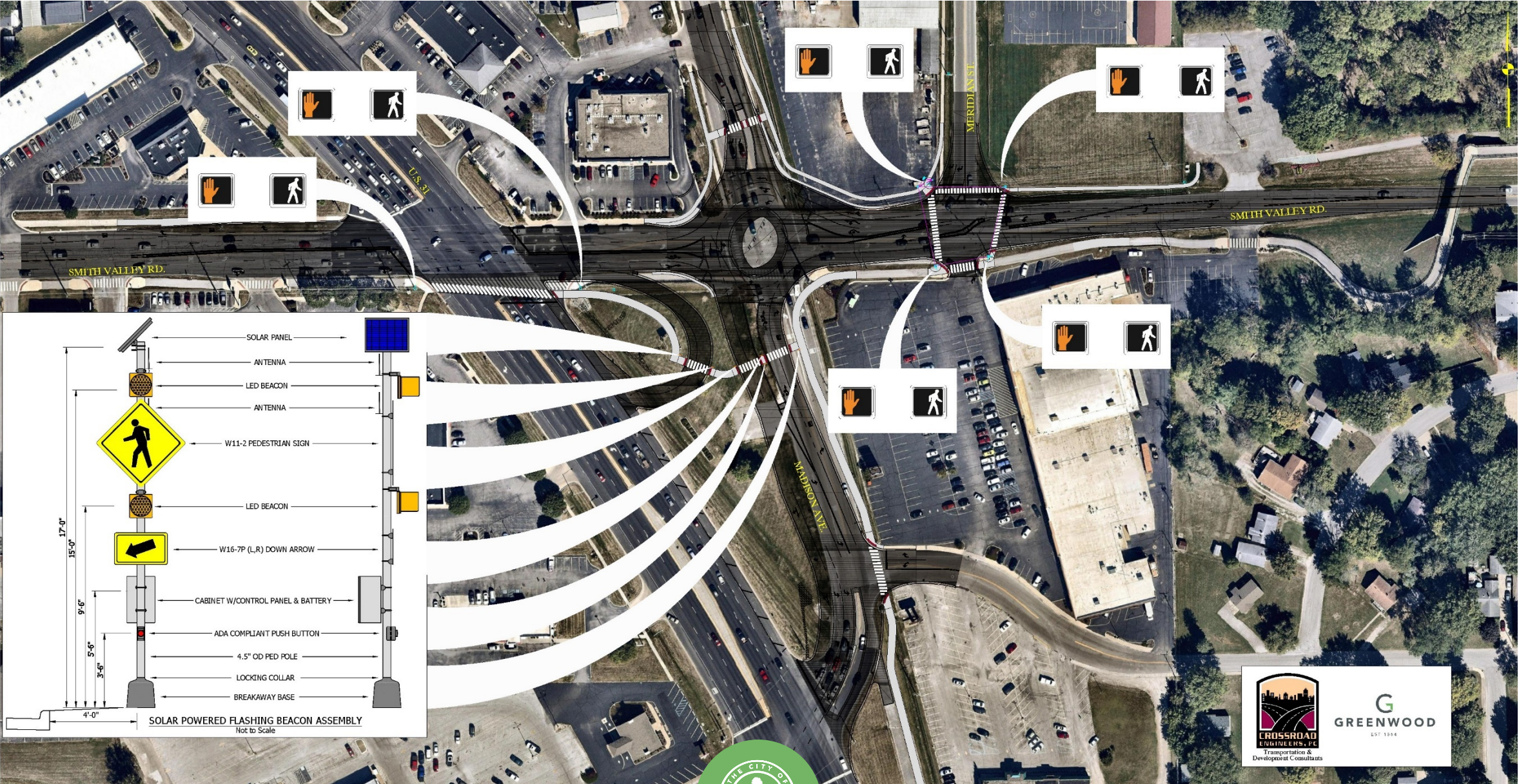


**SMITH VALLEY ROAD AND MADISON AVENUE
WB-65 TRACTOR TRAILER PATH - RIGHT TURN FROM ALL DIRECTIONS**



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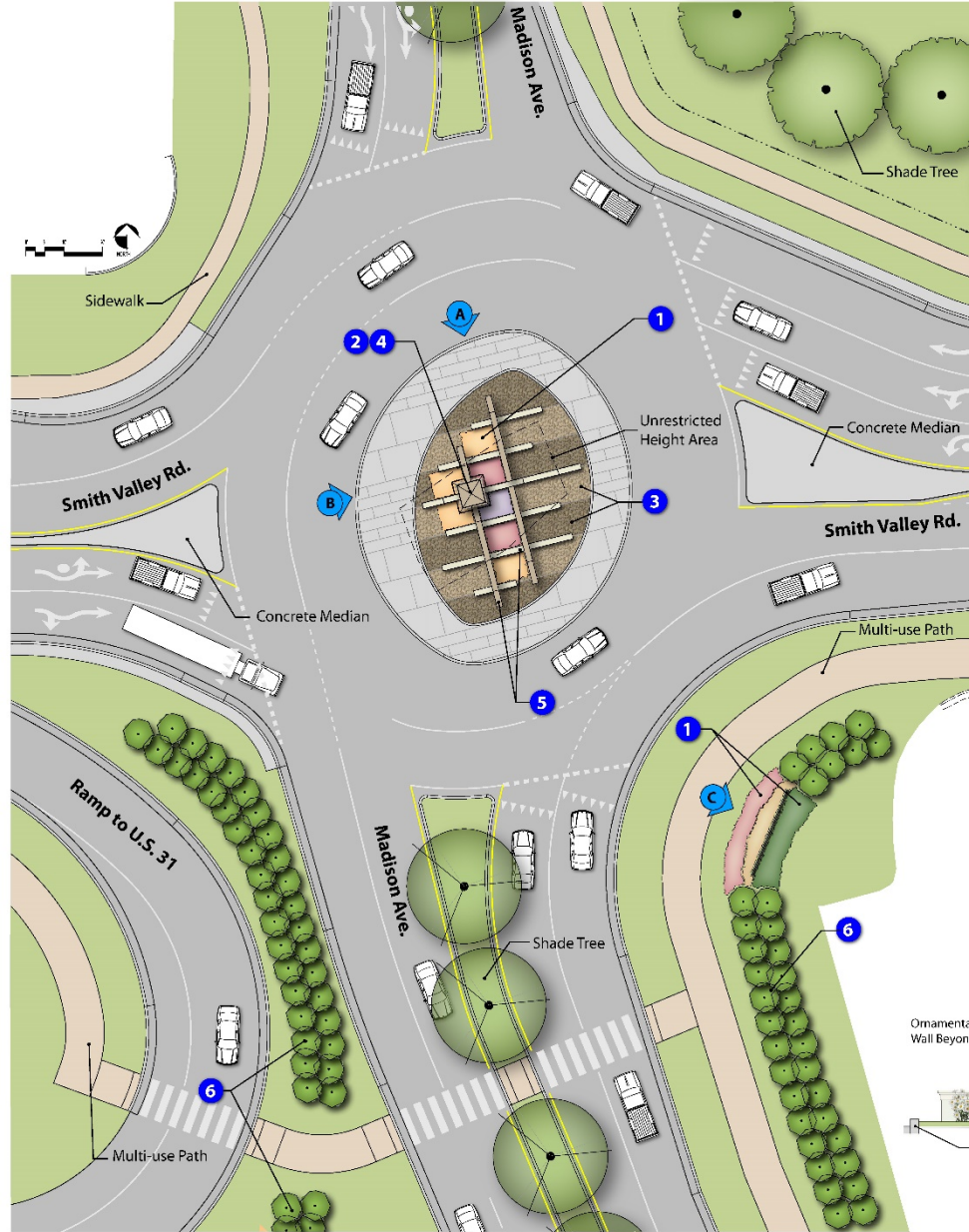
PEDESTRIAN IMPROVEMENTS



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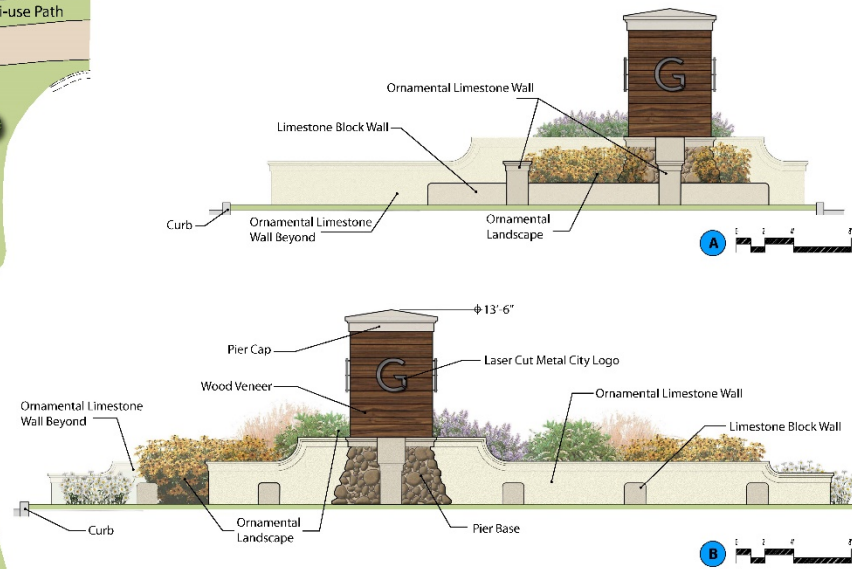
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- 1. LANDSCAPE PLANTING: Includes options like 'TO-SO, PEAK-TO-PHOSPHOR', '1. TIPS-HILLS BY ANNA'S SWISSFORM CUL', 'ESTABLISHED: NOBLESSE', 'BACKLIT LASER CUT METAL SIGN ON WOOD', 'FIELDSTONE VENEER WITH LIMESTONE CAP', 'LIMESTONE BLOCK WALL', 'DECORATIVE STONE MULCH', 'LIMESTONE VENEER WITH LIMESTONE CAP', and 'LIMESTONE BLOCK WALL'.

CUSTOM LASER CUT METAL SIGN PANEL

6. VISUAL BARRIER USING SHRUBS



G Roundabout at Smith Valley Road and Madison Avenue Scheme
Greenwood, Indiana



January 12th, 2018



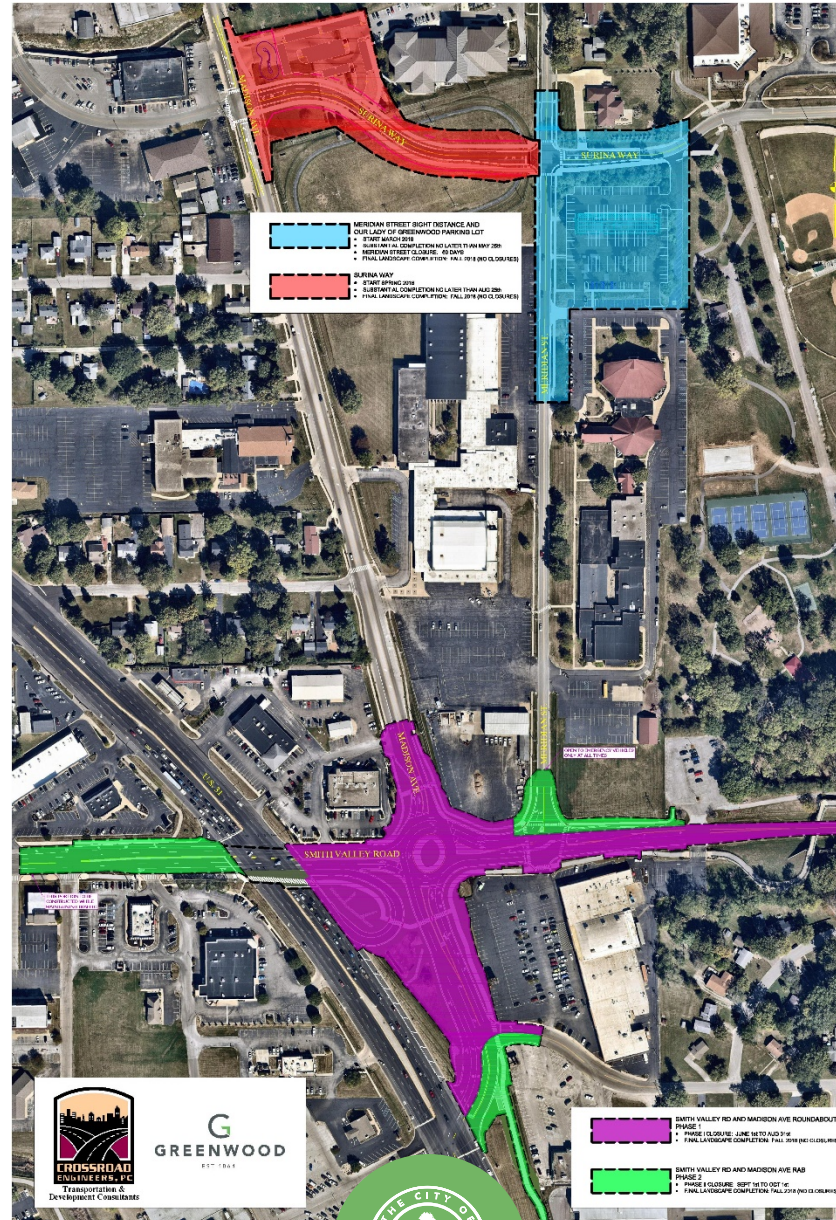
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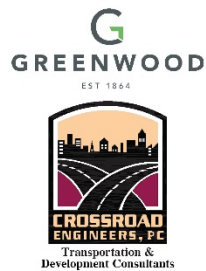
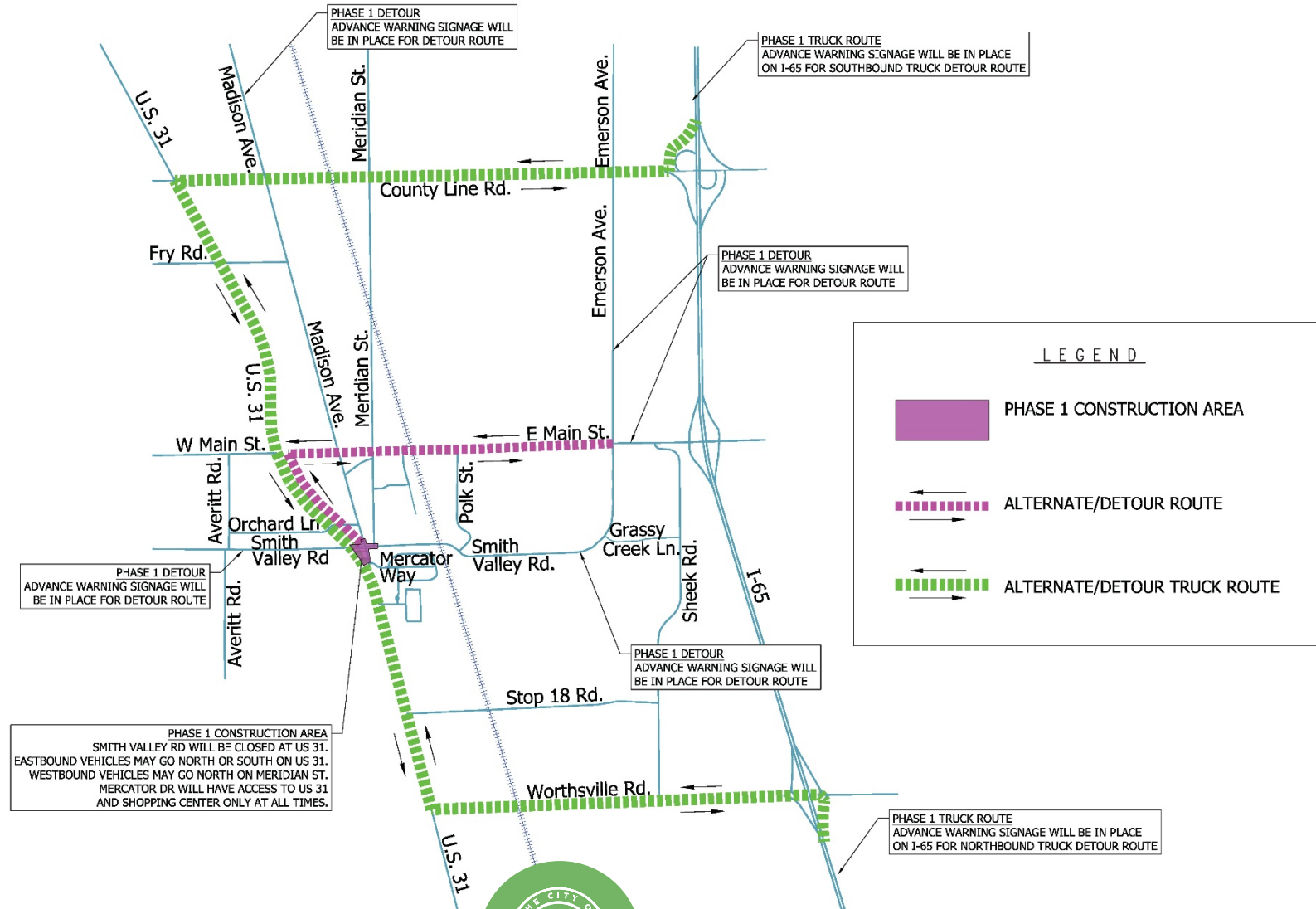
Project Information & Schedule

- Projected Construction Cost approx. \$3,000,000 with INDOT contributing \$500,000 and the remainder being a 80% federal/20% local split
- 0.6 Acres of Permanent Right of Way needed
- Project to bid in January
- Construction in phases
 - Phase 1 – 90 days starting June 1st
 - Phase 2 – 30 days following Phase 1
 - Complete landscaping in fall 2018

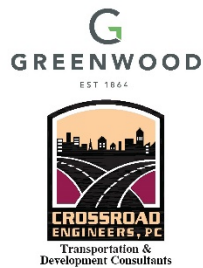
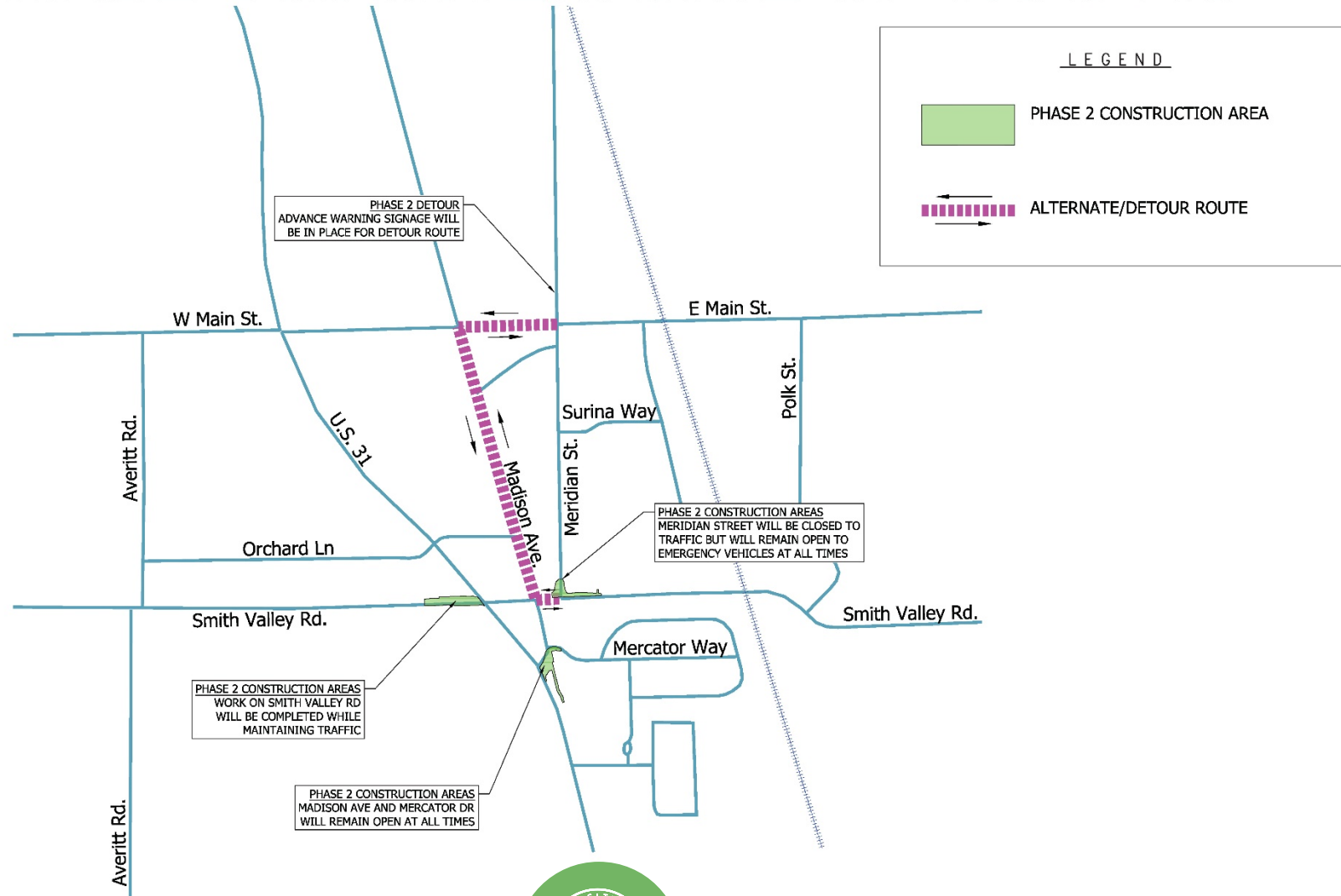
2018 PROJECT SCHEDULES



SMITH VALLEY ROAD AND MADISON AVENUE PHASE 1 MAINTENANCE OF TRAFFIC



SMITH VALLEY ROAD AND MADISON AVENUE PHASE 2 MAINTENANCE OF TRAFFIC





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