



Miller Road Bridge & Roundabout Project

October 15, 2019



Celebrating
100 years
serving the people of
Washtenaw County

  @Washtenawroads



Agenda

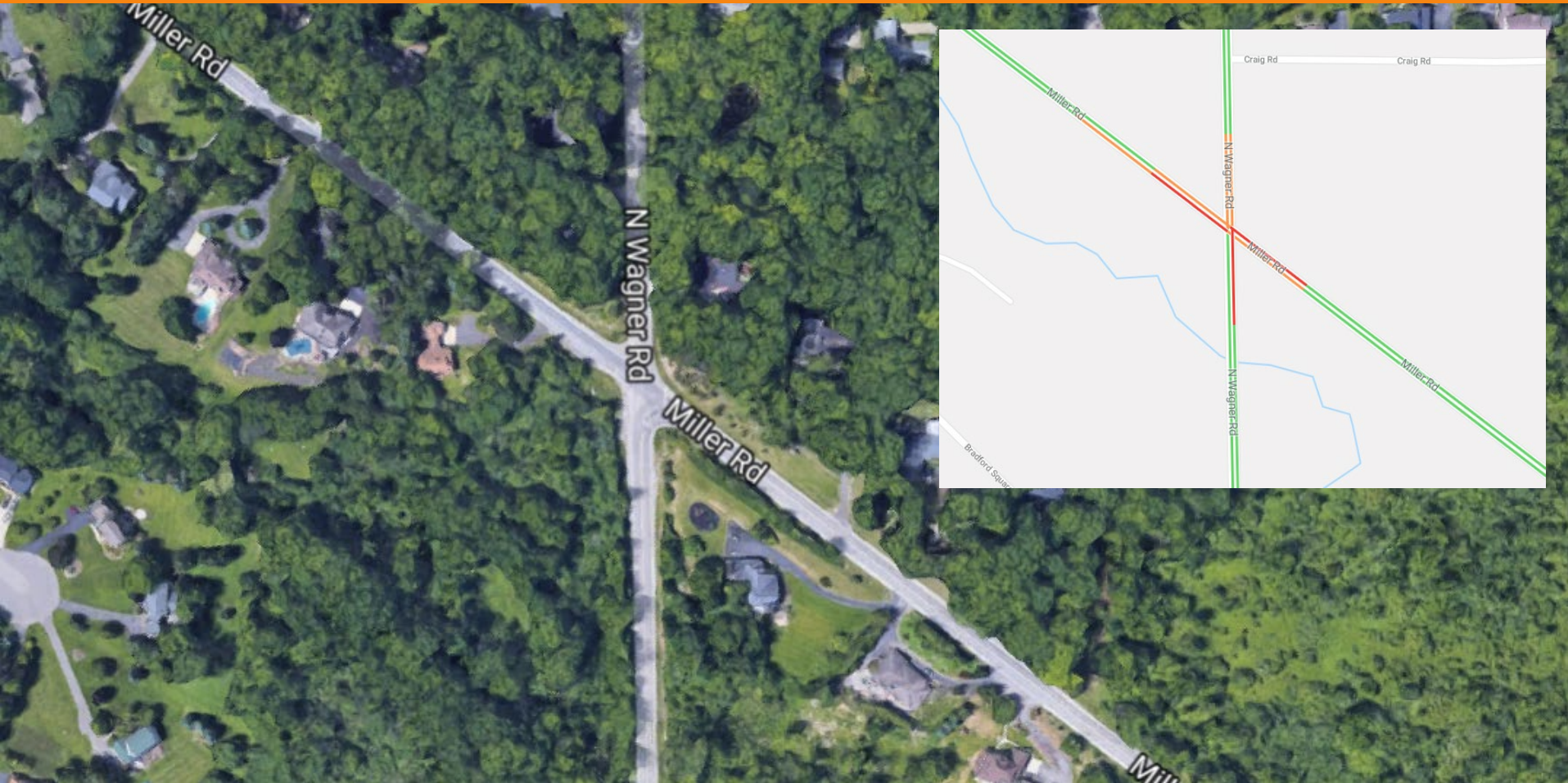
1. Project Background
2. Project Details
 1. Roundabout
 2. Bridge
 3. Resurfacing
3. Construction Schedule



PROJECT BACKGROUND

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Miller Road at Wagner Rd





Current State

- Intersection of two primary roads
- Congestion
 - Miller Road: 9,000 vehicles/day
 - Wagner Road: 7,200 vehicles/day

In “Top 5” busiest un-signalized intersections

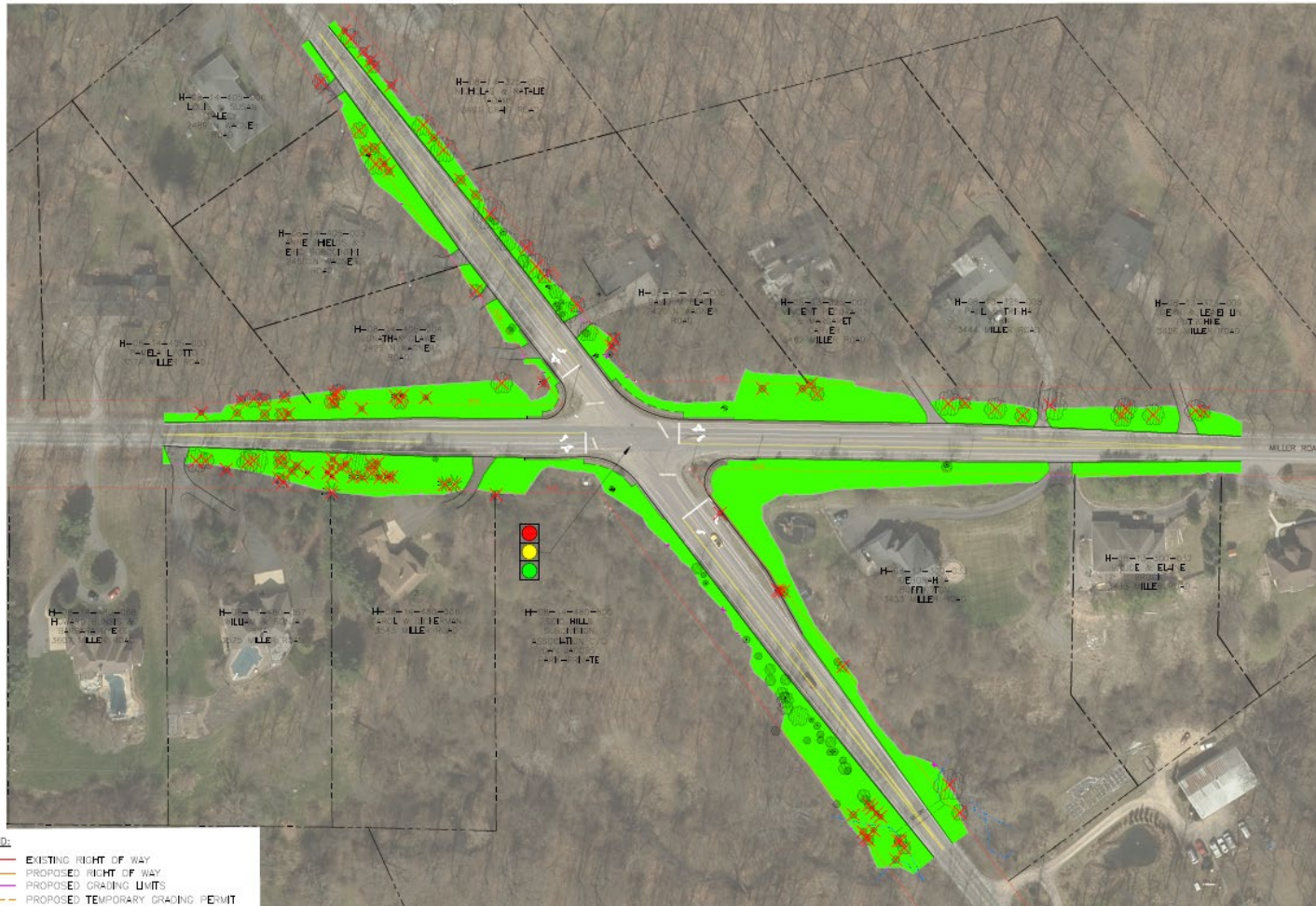
Potential Solutions





VS.



Signalized Intersection Concept



- LEGEND:**
- EXISTING RIGHT OF WAY
 - PROPOSED RIGHT OF WAY
 - PROPOSED GRADING LIMITS
 - PROPOSED TEMPORARY GRADING PERMIT
 - EXISTING WATERWAY
 - WETLAND BOUNDARY
 - PROPOSED DITCH CENTERLINE
 - PROPOSED BOX CULVERT
 -  TREE REMOVAL
 -  TREES REMOVED FOR SIGNAL OPTION BUT NOT REMOVED FOR ROUNDABOUT OPTION



MILLER ROAD & WAGNER ROAD - TRAFFIC SIGNAL CONCEPT

(THIS CONCEPT WAS CONSIDERED, BUT WAS DISMISSED AND IS NOT BEING ADVANCED)





H-08-14-405-005
ANNE SHIELDS & ERIC SOBOCINSKI
2455 N WAGNER ROAD

H-08-13-325-008
PAUL & TRISHA YORK
3444 MILLER ROAD

H-08-13-325-006
DAVID M. BLACK
2420 N WAGNER ROAD

H-08-13-325-007
VINCENT PECORARO &
MARGARET CARVER
3462 MILLER ROAD

H-08-14-405-004
JONATHAN GLAWE
2425 N WAGNER ROAD

H-08-14-480-066
CAROL W. DICKERMAN
3543 MILLER ROAD

H-08-13-300-033
DEBORAH A. BUFFINGTON
3453 MILLER ROAD

- Diameter: ~120 feet
- Estimated Cost: \$1,000,000

Benefits of Roundabouts

- Higher level of service
- Improved mobility
- Enhanced safety
- Improved air quality
- Smaller footprint

Examples of Success



Before v. After: Textile Road @ Hitchingham Road



ROUNDAABOUT OPERATIONS

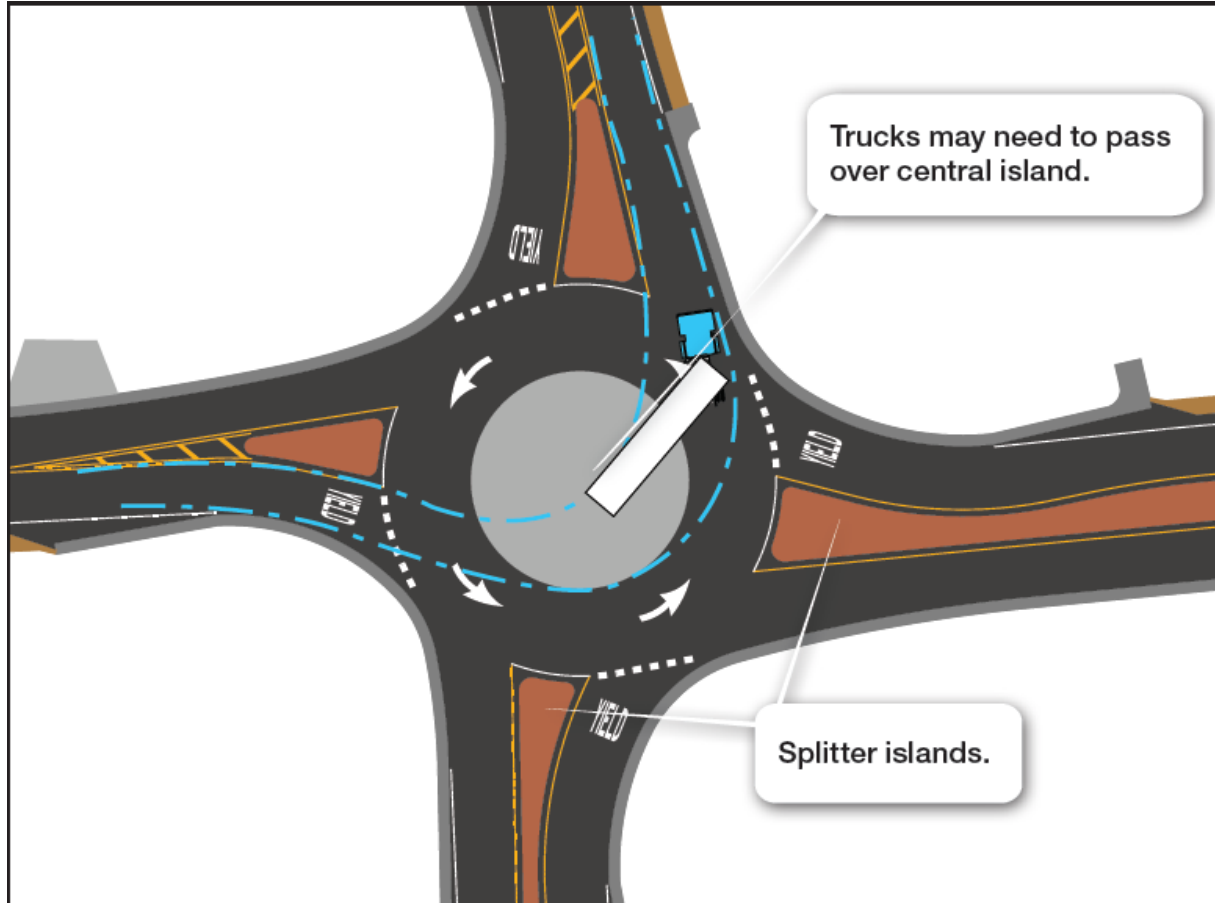
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Roundabout

- Entering traffic yields
- Counterclockwise movement
- Islands control speed



Trucks and Large Vehicles





ROUNDAABOUT PROJECT

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The Plan

- Single-lane roundabout
- Concrete curb and gutter
- Stamped concrete
- Potential landscaping in central island
- Street lights
- Improved drainage

Nighttime Illumination



Final Product

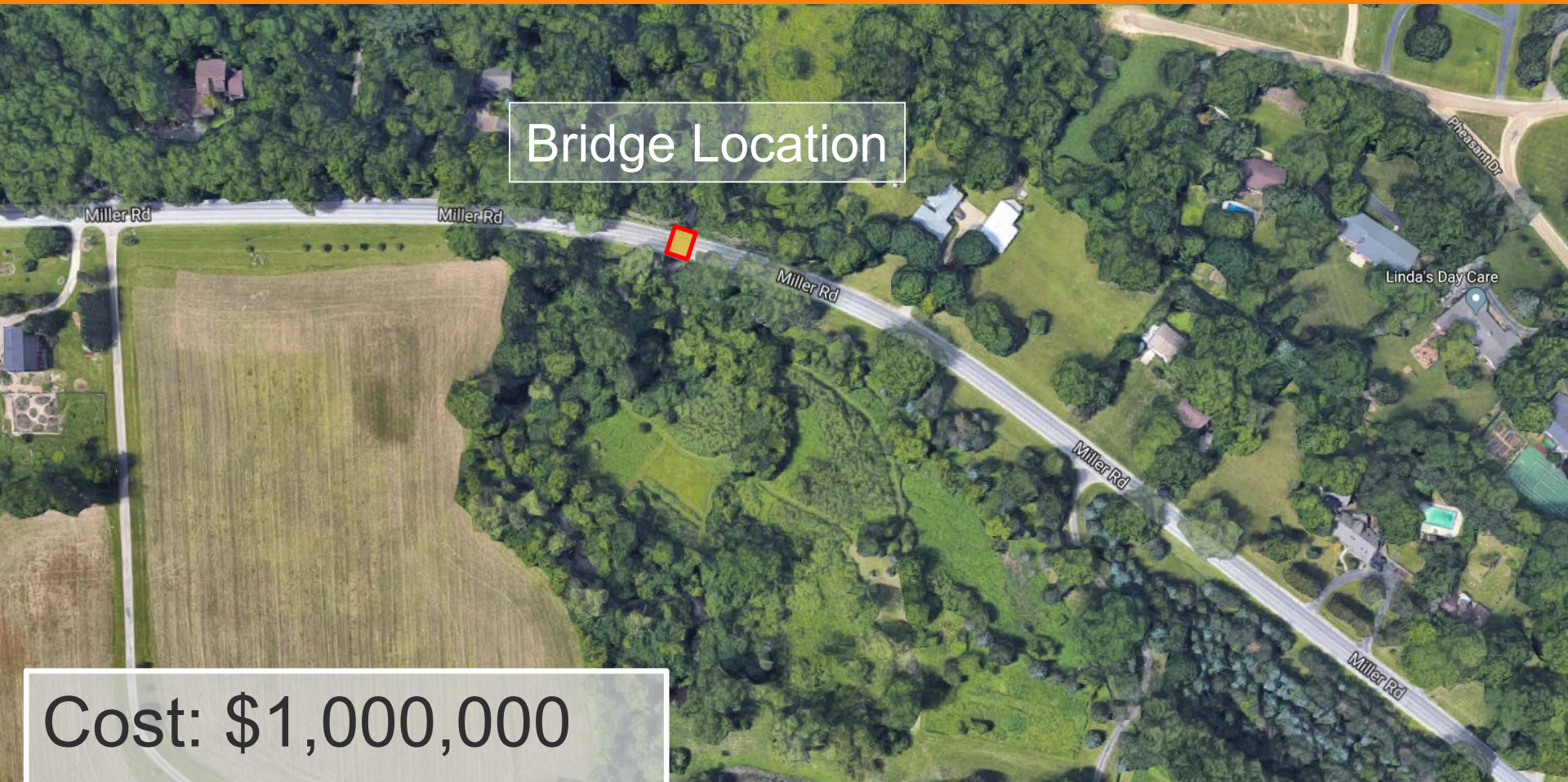




BRIDGE PROJECT

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Miller Road over Honey Creek Bridge



Bridge Location

Cost: \$1,000,000

Current State

- Built in 1930s
- Structurally deficient – weight restricted
- Functionally obsolete
 - Narrow
 - Compound, horizontal curve

Current State



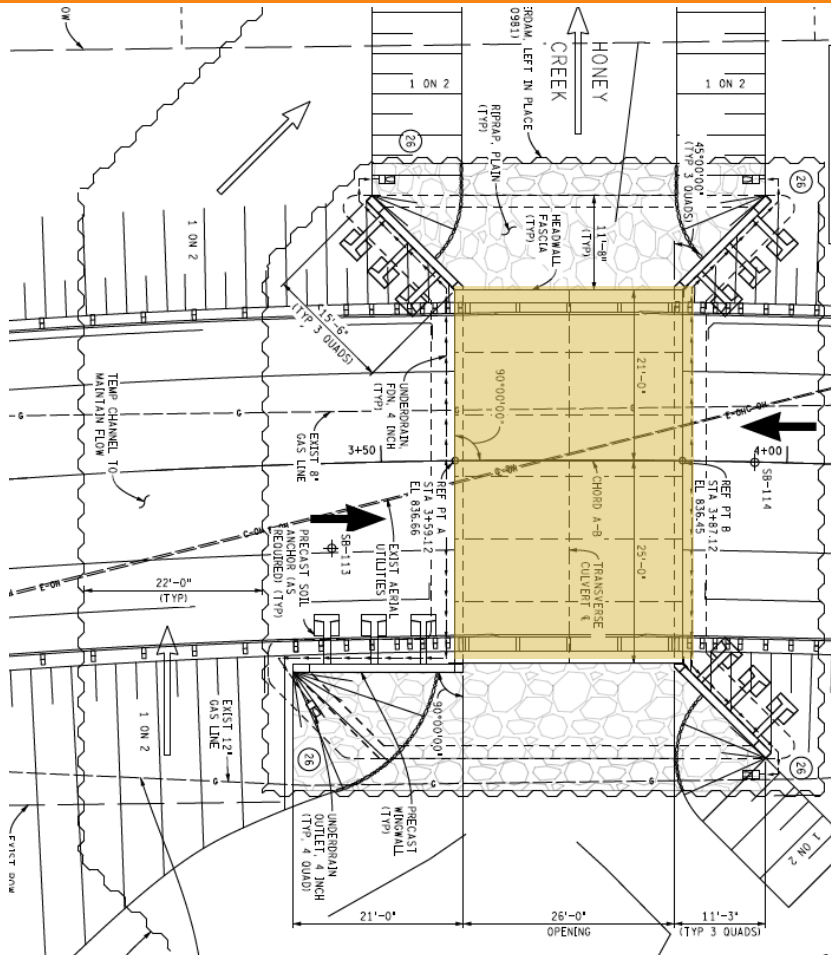
Miller Road over Honey Creek Bridge

Correction of Horizontal Curve



NOTE: ROAD RESURFACING IS PROPOSED FROM THIS LOCATION TO THE EAST. THIS RESURFACING WILL NOT CHANGE CURRENT EDGE OF PAVEMENT LOCATION.

Examples





RESURFACING PROJECT

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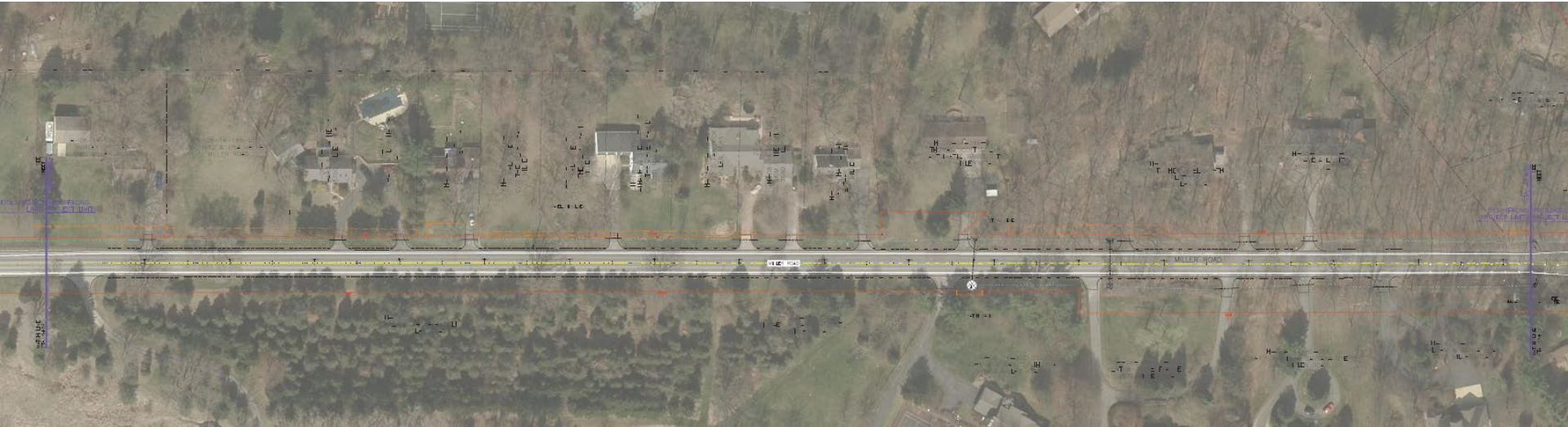
Current State

- Existing pavement in poor condition



Miller Road Resurfacing

Between Bridge and Roundabout



Potential Solutions

Pulverize and Resurface

- Keep road width within current footprint
- Fix pavement problems
- Minimal tree removal and impact to property

Pulverize, Widen and Resurface

- Re-ditching, new culverts and driveway approaches
- Widen paved shoulders
- Significant tree removal
- Need for grading permits from property owners

Tree Removal

Project Segment	Initial Design	Current Design
Roundabout	~81 trees	~72 trees
Bridge	~37 trees	~21 trees
Resurfacing	~76 trees	0 trees
Totals	~194 trees	~93 trees

The Plan

- Pulverize and resurface 1/3 mile between bridge and intersection
- Funding source: local funds



TIMELINE & DETOUR

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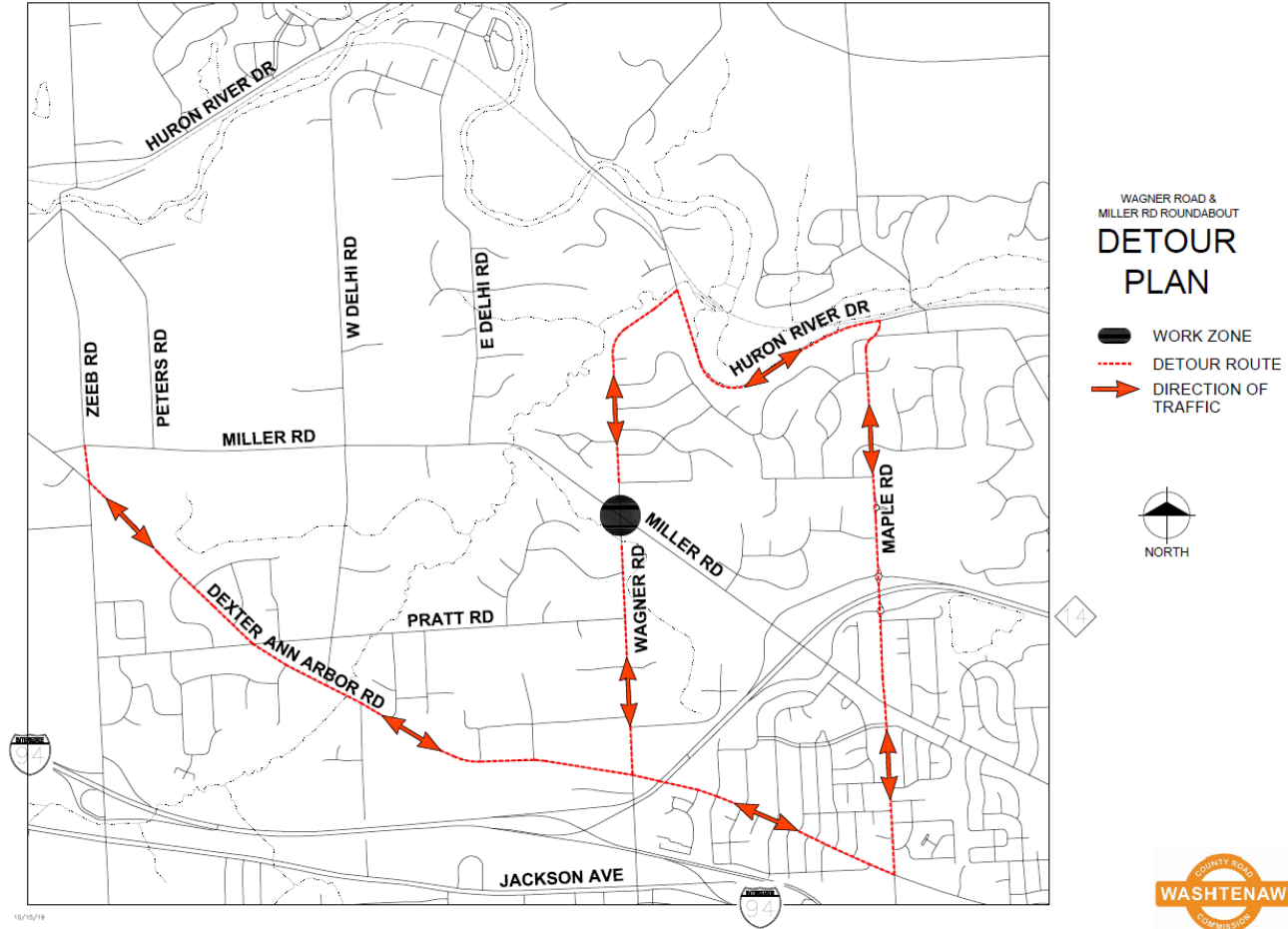
Proposed Construction Schedule

- Tree removal: Spring
- Utilities relocation: Spring
- Roundabout: May – July
- Bridge and road resurfacing: July – August

Impacts to Traffic

- Roundabout Construction
 - Intersection will be closed to **ALL** traffic
 - Property owners will be provided access during construction
 - Detour will be posted

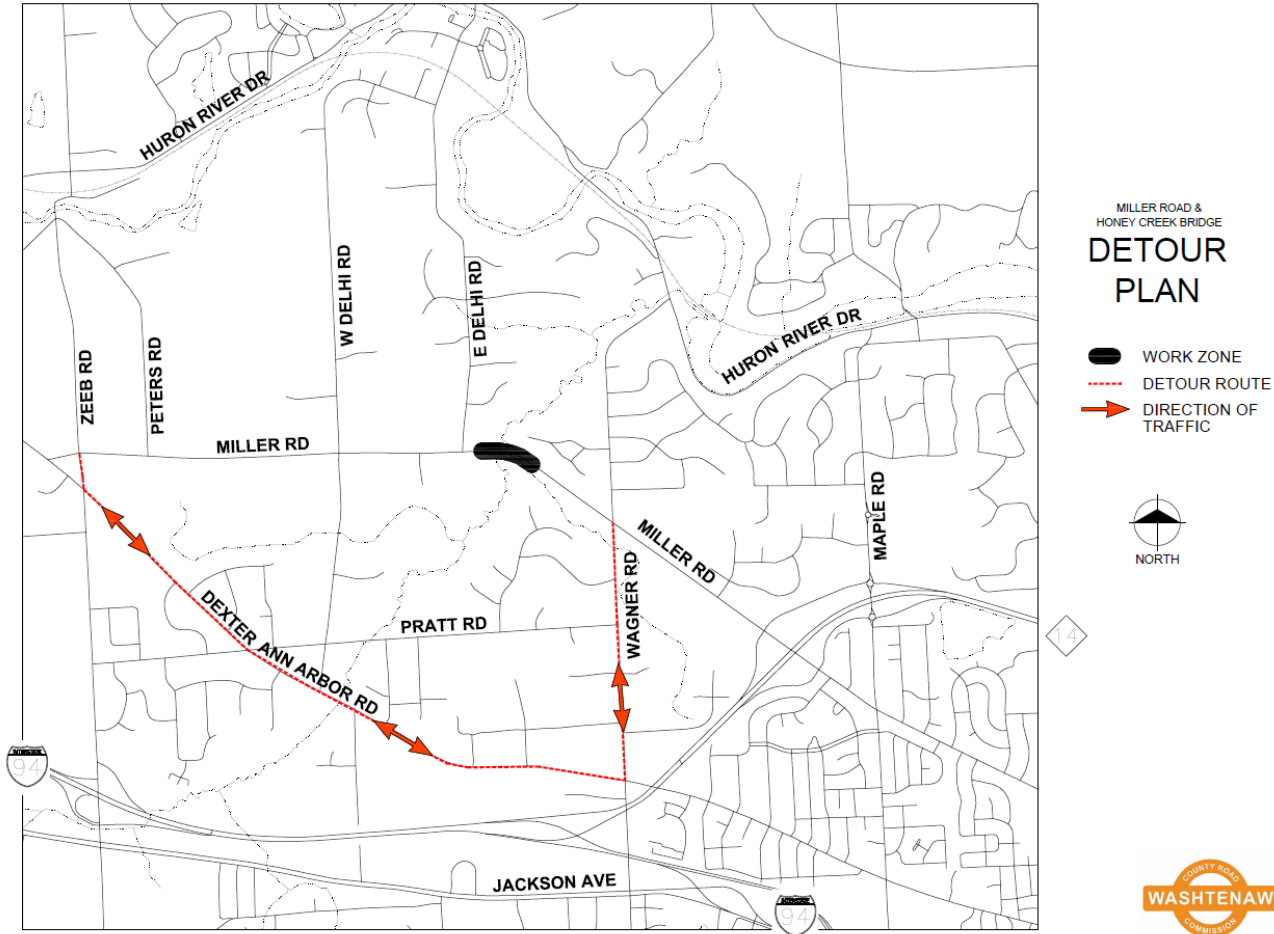
Posted Detour - Roundabout



Impacts to Traffic

- Bridge Construction and Road Resurfacing
 - 3 legs of intersection will be reopened
 - Bridge closed to **ALL** traffic
 - Property owners will be provided access during construction
 - Detour will be posted

Posted Detour – Bridge & Resurfacing



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