SPRING LAKE TOWNSHIP ROUNDABOUT CONCEPT

OCTOBER 4, 2022
• Why is a roundabout being considered
  • Safety
  • Increasing Traffic
  • Efficiency
  • Community Gateway
  • Supports Long Standing Community Vision
• Concepts
• Funding
• M-104 Corridor Visioning
• Next Steps
  • Review feedback
  • Pending positive feedback – planning
• Questions/Comments/Answers/Feedback
WHY CONSIDER A ROUNDBOUGHT

Roundabout Installations:
- Improve Safety
- Promote lower speeds and traffic calming
  - Crashes may still occur, but reduced damage and injury from lower speeds
- Inexperienced high school drivers significant intersection users
- Roundabouts reduce injury crashes 75% where signals previously existed
- FHWA research indicates 37% overall collision reduction
- 90% reduction in fatality collisions
- 40% reduction in pedestrian collisions
WHY CONSIDER A ROUNDABOUT?

- Roundabout Installations:
  - Reduce conflict points
  - Improved operational performance
  - Meet a wide range of traffic conditions due to versatility in size, shape, and design
  - Reduce speeds so any accidents that do occur are minor (traffic calming)
- Local data: 27 crashes at 148th with 9 injuries in last 5 years
  - 4 total crashes at 144th with 1 injury in last 5 years.
  - 7 times more crashes and 9 times more injuries at 148th.
WHY CONSIDER A ROUNDBOUT?
Community Gateway

- Branding
- Beautification and Art
- Sense of Place and Arrival
- Incorporate Green Solutions
CONCEPT

• Easily accommodates large trucks and buses
• Community Gateway
  • Monument
  • Banners
  • Plantings
• Single lane inside roundabout – reduces conflict and confusion
CONCEPT

- Easily accommodates large trucks and buses
- Dedicated right turn lane for northbound – similar to dedicated rights suggested in Spring Lake.
- Single lane inside roundabout – reduces conflict and confusion
• Easily accommodates large trucks and buses
• Dedicated right turn lane for northbound – similar to dedicated rights suggested in Spring Lake.
• Single lane inside roundabout
• Pedestrian accommodations
OPERATIONS

- Extremely efficient
- Often enter roundabout without stopping
- Vehicles can safely enter the roundabout from multiple approaches simultaneously
- Roundabouts excel in off peak periods
  - No waiting for a green light with no cross traffic
FUNDING

• Ottawa County Road Commission could pursue Federal Funding via MPO
• MDOT may be able to participate with funding
• Legislative Earmark at State or Federal level
• Construction expected to be roughly $3,000,000 in 2026
  • Includes Inflation to 2026 - $600,000
  • Property Acquisition Costs - $500,000
  • Design and Construction Engineering - $300,000
• Township participation
ROUNDABOUT NEXT STEPS

• Evaluate public opinion – from this meeting and previous
• If consensus is to move forward:
  • Seek and acquire additional funding
  • Begin Design Process
  • Construction tentatively in 2026
    • Shovel ready project available for multiple funding mechanisms
• Corridor work contingent on MDOT funding and scheduling