Spring Grove Road at Miller Road

SAFETY INITIATIVE
McHENRY COUNTY
Spring Grove Rd at Miller Rd

WELCOME!

Thank you for visiting the McHenry County Division of Transportation's Public Information Meeting for the Spring Grove Road at Miller Road Intersection Phase I Study — part of the McHenry County Intersection Safety Initiative.

We appreciate you taking time to learn about this study and provide input.

Existing Conditions

- One lane in each direction
- Substandard paved shoulder widths
- Maintain existing two-way stop

What is a Phase I Study?

It includes:

- **Preliminary Engineering**
- **Environmental Studies**

Why is this Phase I Study needed?

The Phase I Study will result in an established purpose and need for project work.

It allows us to understand problems and develop solutions that are the best fit for the community.

It provides knowledge about social, economic and environmental impacts of roadway improvements.

The Phase I Study will gather input from residents and stakeholders early in the planning process.

Study Purpose and Need

The Purpose of the project is to improve safety for all users of the intersection.

The Need for the project includes addressing the geometric deficiencies of the Spring Grove Road at Miller Road intersection due to the history of crashes, which includes angle crashes, that were a result of:

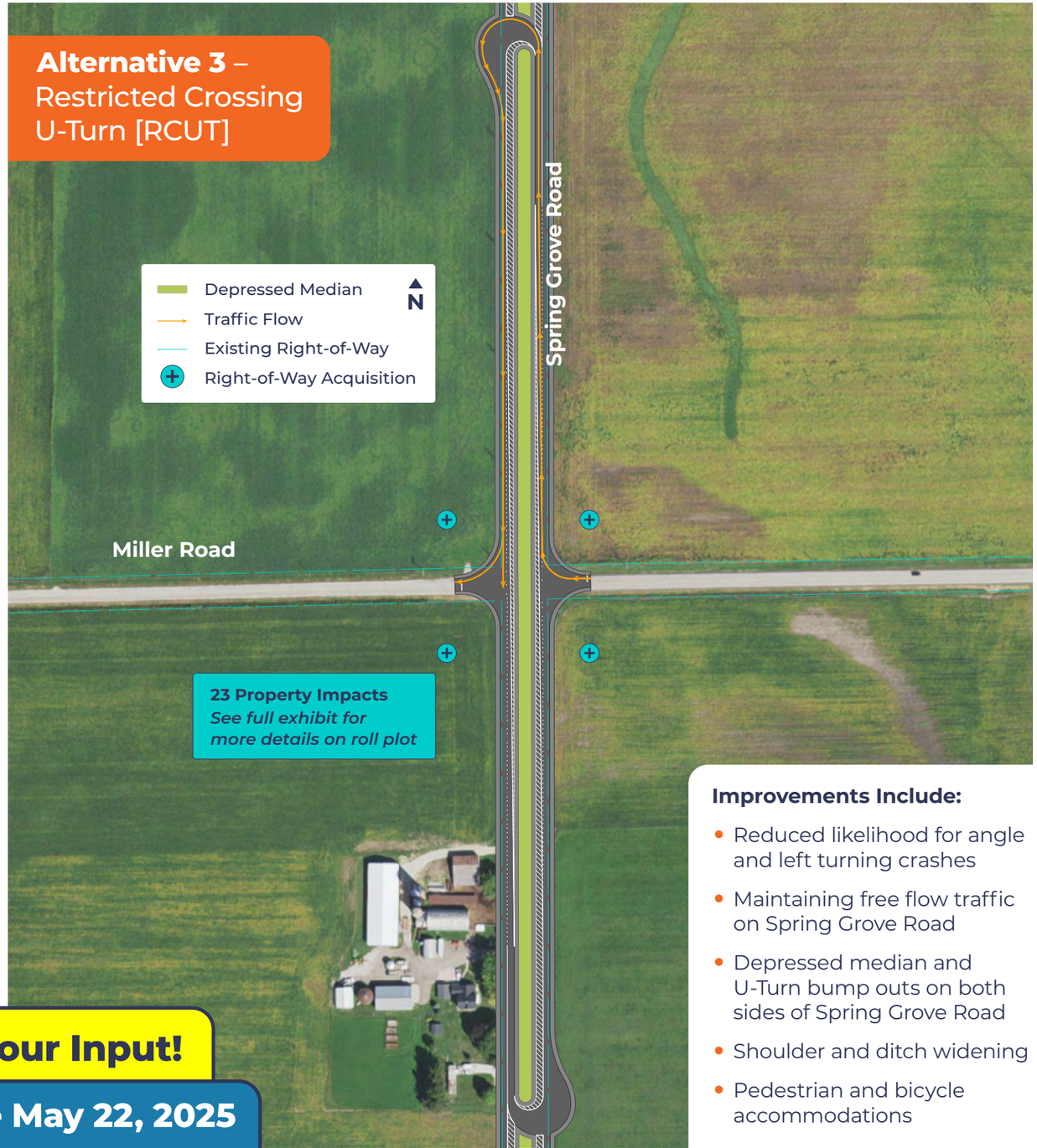
- Disregarding traffic control devices
- Failure to yield the right-of-way
- Seasonal limited sight distance
- Seasonal high traffic volumes
- Lack of familiarity with intersection from non-local motorists

Alternative 2 – Roundabout

Improvements Include:

- Improved safety
  - 90% reduction in fatal crashes
  - 83% reduction in angle crashes
  - 75% reduction in injury crashes
    Federal Highway Administration, FHWA
- Reduced conflict points
- Slower speeds through the intersection
- Shoulder and ditch widening
- Pedestrian and bicycle accommodations

Alternative 3 – Restricted Crossing U-Turn [RCUT]



Improvements Include:

- Reduced likelihood for angle and left turning crashes
- Maintaining free flow traffic on Spring Grove Road
- Depressed median and U-Turn bump outs on both sides of Spring Grove Road
- Shoulder and ditch widening
- Pedestrian and bicycle accommodations

We Need Your Input!

Comments due May 22, 2025

What issues do you have at this intersection?

What safety concerns do you experience at the intersection?

Do you experience delay at the intersection?

Comment on the alternatives!

Alternative 4 – Shoulder Widening with Left Turn Lanes

Improvements Include:

- Widened shoulders
- Added left turn lanes on Spring Grove Road
- Maintaining free flow traffic on Spring Grove Road
- Pedestrian and bicycle accommodations

Scan QR code to visit online meeting website and make comments

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Alternatives Evaluation

Evaluation Category	Alternative 1 Existing Intersection (No Build)	Alternative 2 Roundabout	Alternative 3 Restricted Crossing U-Turn [RCUT]	Alternative 4 Shoulder Widening with Left Turn Lanes
Crash Reduction	✕	✓	✓	✓
Speed Reduction	–	✓	✕	✕
Intersection Visibility	–	✓	✓	~
Turn Movement Improvements	✕	✓	~	✓
Improved Shoulders	–	✓	✓	✓
Environmental Impacts		~	✕	~
Number of Properties Impacted	–	4	23	4
Cost	–	$	$$	$

– No change ✕ 23 $$ Negative impact ~ 4 $ Moderate improvement/impact ✓ Satisfactory improvement/impact

Project Schedule Process

PHASE 1: PRELIMINARY ENGINEERING & ENVIRONMENTAL STUDIES (IN-PROGRESS)

2024 - 2026

We Are Here

PHASE 1 SCHEDULE

2024
Gathering & Analyzing Existing Data
- Purpose and Need
- Traffic and Safety Analysis
- Drainage Studies
- Environmental Surveys
- Stakeholder Meeting

2025
Develop & Analyze Initial Alternatives
- Identify concepts to address project needs
- Identify opportunities to minimize impacts
- Public Information Meeting #1 Spring 2025

2025–2026
Identify Preferred Alternative
- Use public feedback to evaluate the initial alternatives
- Develop preferred alternative
- Public Information Meeting #2 Fall 2025

2026
Completion of Phase 1 / Design Approval

PHASE 2
LAND ACQUISITION & CONTRACT PLAN PREPARATION

2026 - 2028*

PHASE 3
PROJECT CONSTRUCTION

2028*

*Pending project readiness and funding availability

Safety & Crash History

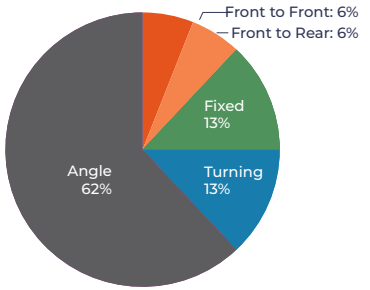
Deficiencies or problems contributing to crashes:

- **Disregarding traffic control devices or failing to yield right-of-way to oncoming traffic**
  - Misconception that intersection is an all-way stop
  - Limited sight distance during growing season
  - Insufficient gaps for turning vehicles, especially during busy fall weekends
- **Lack of paved shoulders on Miller Road**
- **Lack of familiarity with intersection from non-local motorists**

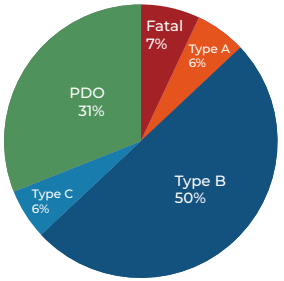
Crash History (2019 – 2023)

16	26	2	1
Crashes	Injuries	Serious Injuries	Fatality
	17 Angle **8** Turning **1** Front to Rear (Rear End)	**2** Turning	**1** Angle

By Crash Type



By Crash Severity



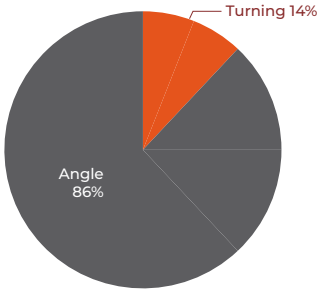
Crash Category Definitions

Type A: Incapacitating Injury
Type B: Non-Incapacitating Injury
Type C: Non-Evident Injury
PDO: Property Damage Only

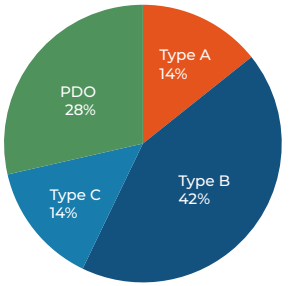
Crash History (2019 – 2023) *Fall Weekends Only*

7	14	2	0
Crashes	Injuries	Serious Injuries	Fatality
	8 Angle **6** Turning	**2** Turning	

By Crash Type



By Crash Severity



By Potential Crash Cause: Each crash may have up to two potential causes identified.