



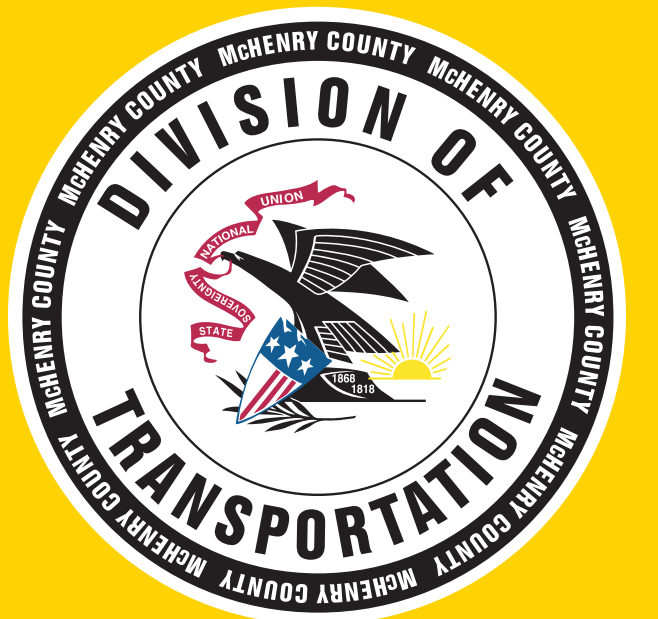
CHARLES ROAD

SAFETY IMPROVEMENTS

PUBLIC INFORMATION MEETING
Charles Road and IL120/Greenwood Road



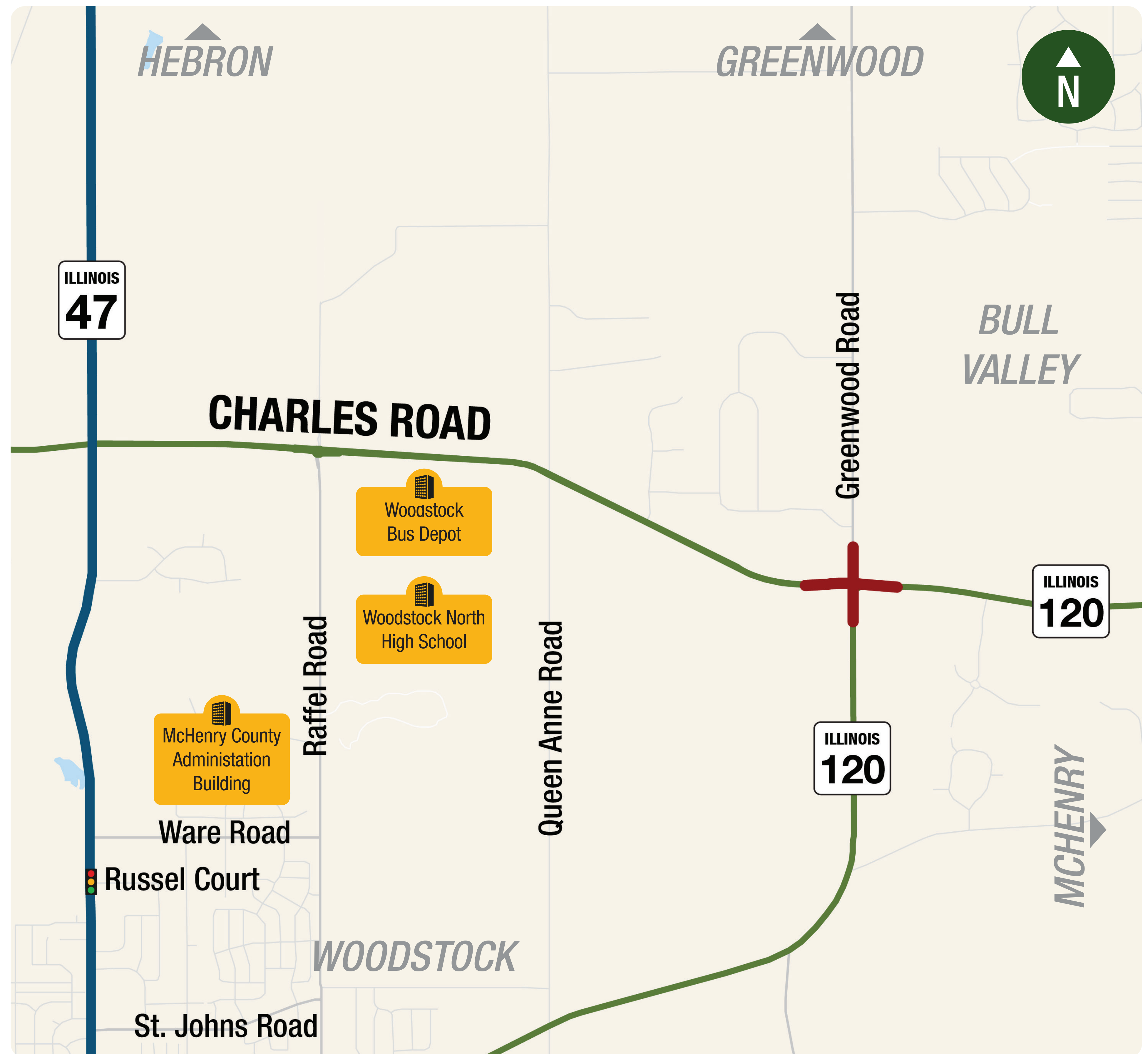
Illinois Department
of Transportation



June 4, 2024

Study Location

The study is located at the intersection of Charles Road and Illinois 120/ Greenwood Road in McHenry County.



Purpose and Need

THE PURPOSE of the project is to address the safety concerns and reduce the potential of future severe crashes. The geometric deficiencies of substandard tapers, storage lengths, and cross-sectional elements within the intersection limits will be addressed.

THE NEED for the project is a result of the crashes experienced at the intersection that include rear-end, turning, and fixed object crashes. There were 31 total intersection related crashes between 2016 and 2020.

Project Development Process

WE ARE
HERE

PHASE I

18-24 months
2022-2024

Preliminary
Engineering &
Environmental Studies

PHASE II

18-24 months
2025-2026

Contract Plan
Preparation &
Land Acquisition

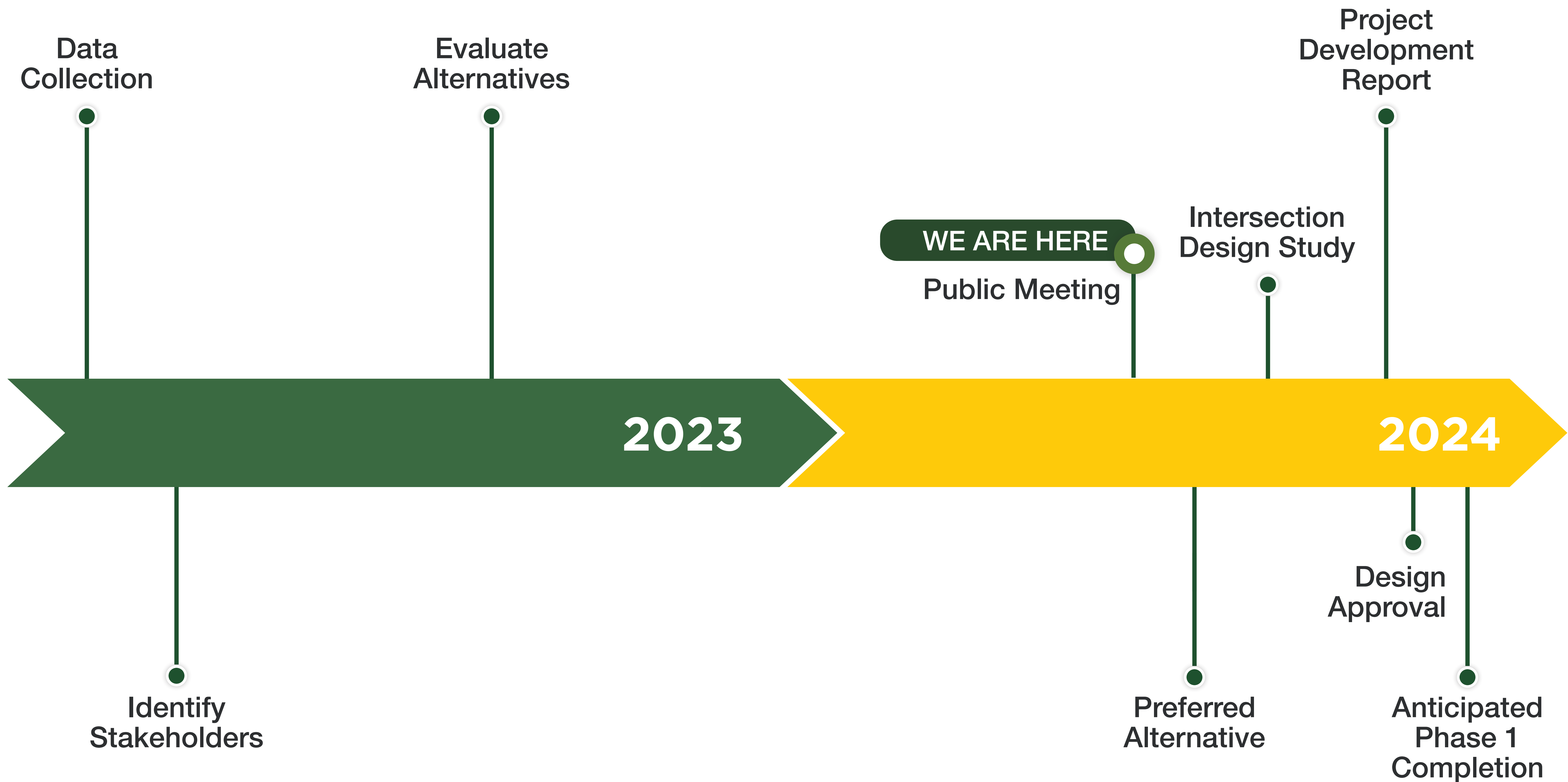
PHASE III

18-24 months
2027

Project
Construction

*Phase II and Phase III are dependent upon
availability of funding and project readiness*

Phase I Process





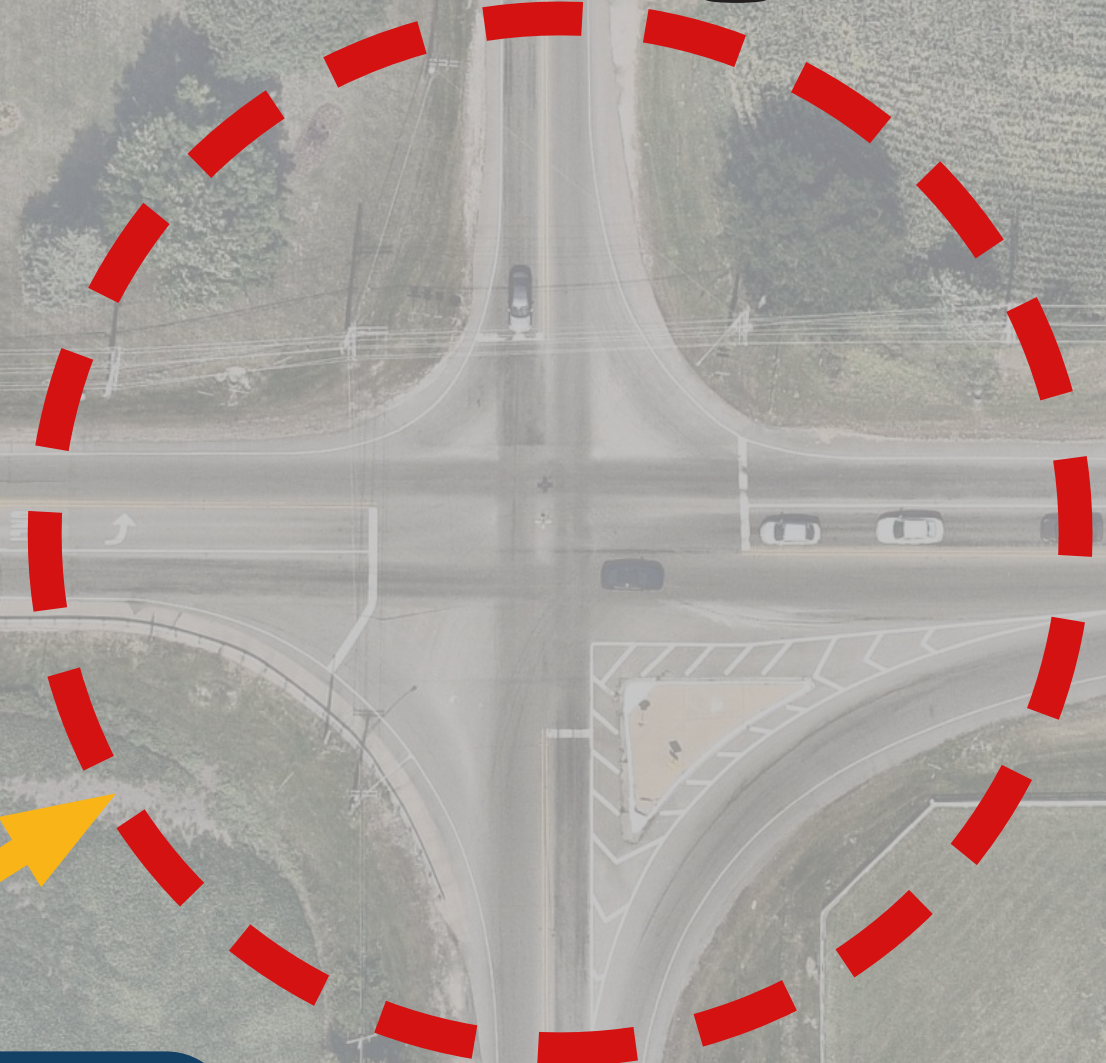
SUMMARY OF INTERSECTION-RELATED CRASHES

2016-2020

CHARLES ROAD

GREENWOOD ROAD

IL 120



CHARLES RD AND IL 120/GREENWOOD

- Total crashes - 31
- Severity - 1 A, 1 B, 3 C, 26 O
- 8 Angle
- 15 Rear-end
- 5 Left-turn
- 3 Hit fence, sign, guardrail, or pole

LEGEND: CRASH SEVERITY TYPE

- Type A - Incapacitating injury
- Type B - Non-Incapacitating injury
- Type C - Reported/Not-evident injury
- Type O - Property Damage Only



TRAFFIC VOLUMES

Year - 2022

LEGEND:

AM[PM] Design Hour Vehicle

ADT Average Daily Traffic

CHARLES ROAD

ADT = 6,000

GREENWOOD ROAD

ADT = 6,000

IL 120

ADT = 10,700

ADT = 10,700

IL 120

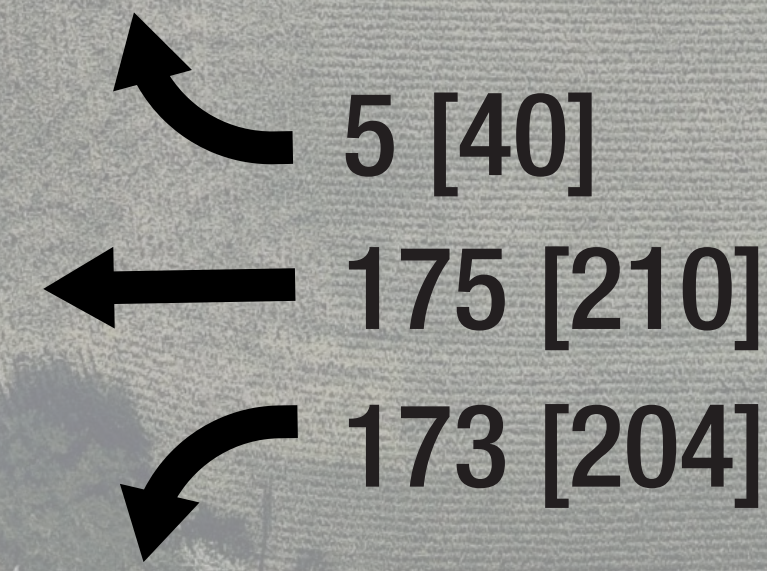
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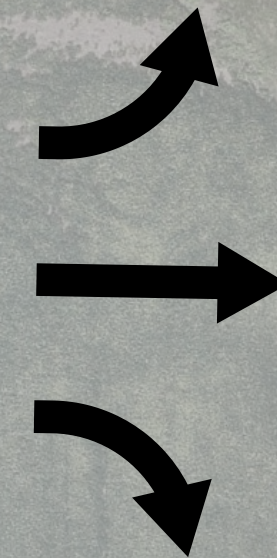
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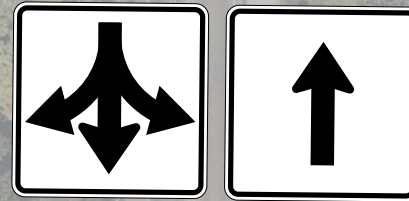
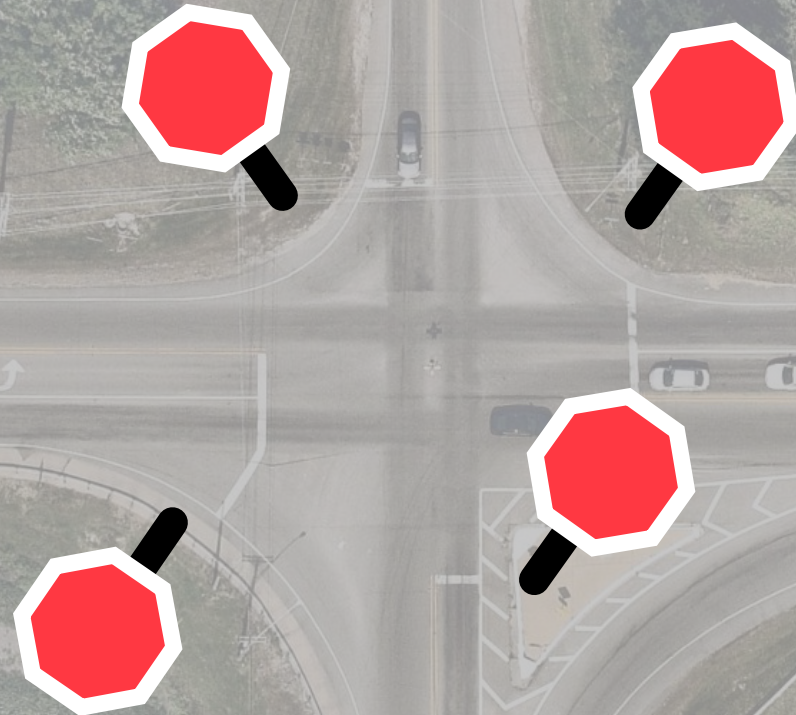
EXISTING CONDITIONS

Stop-Controlled Intersection

CHARLES ROAD

PRINCIPAL ARTERIAL

SPEED LIMIT 55



SPEED LIMIT 55

MINOR ARTERIAL

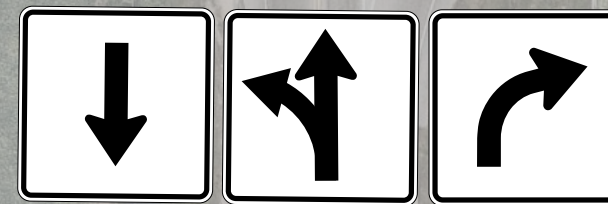
GREENWOOD ROAD

SPEED LIMIT 55



IL 120

PRINCIPAL ARTERIAL



PRINCIPAL ARTERIAL

IL 120

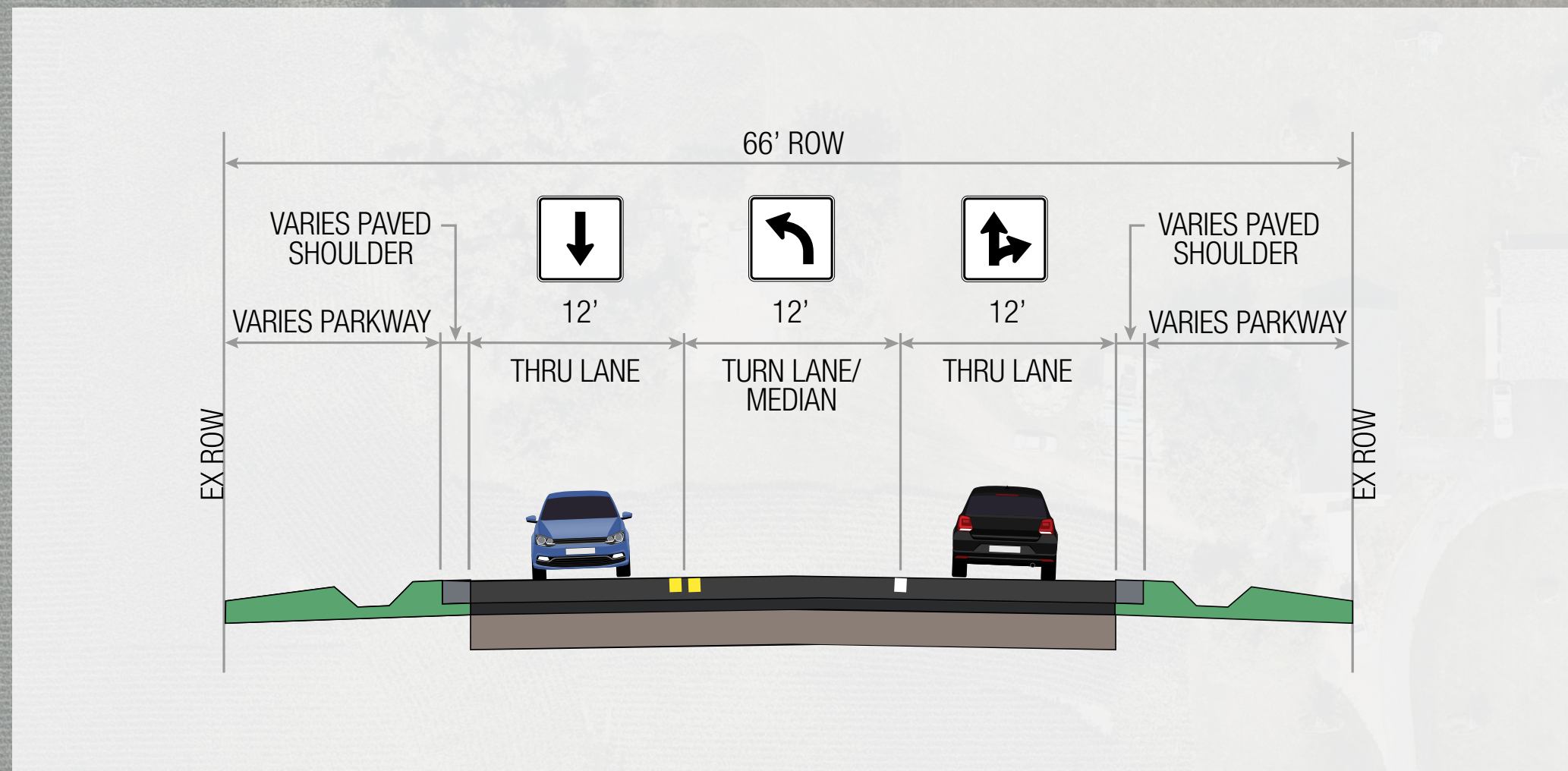
SPEED LIMIT 55



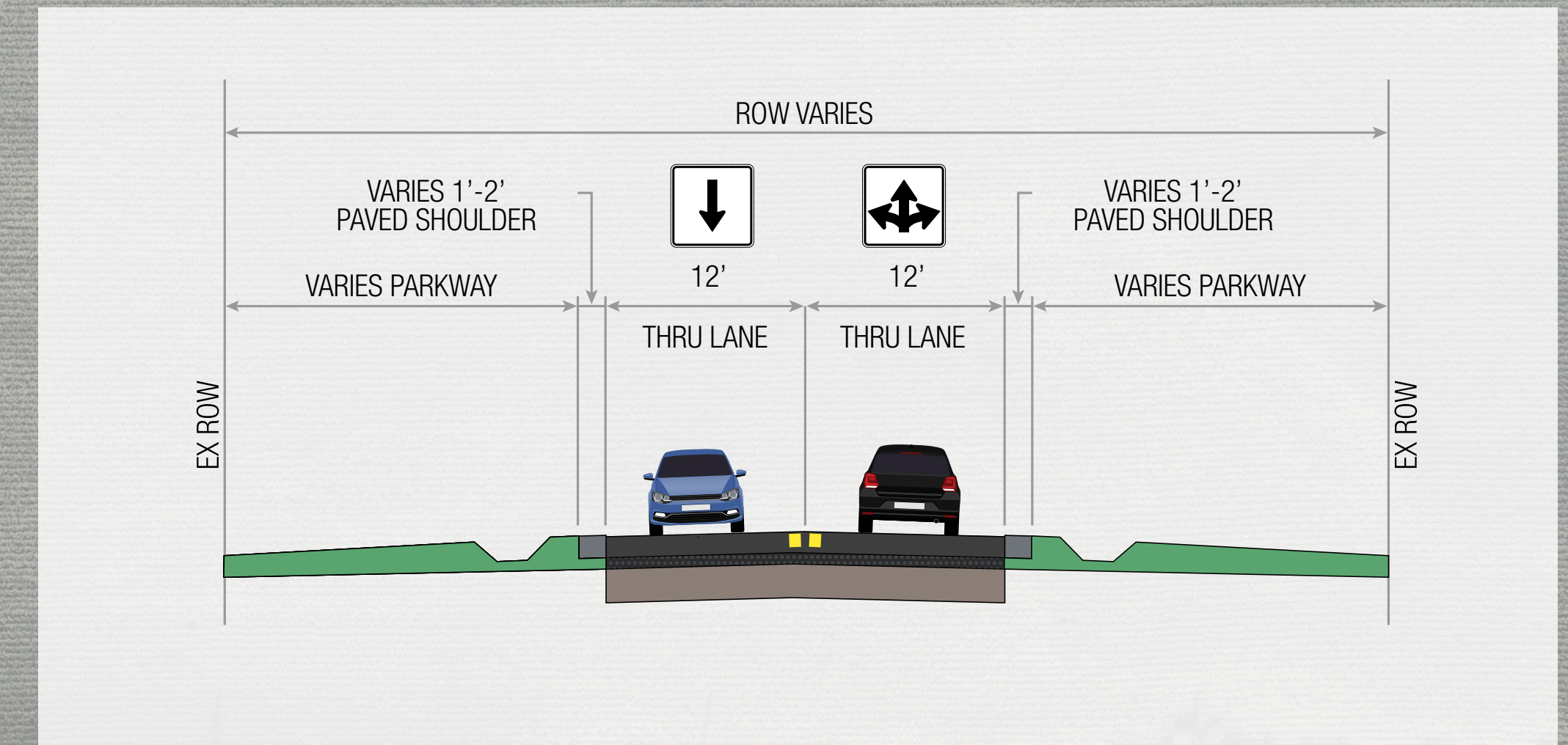
TYPICAL SECTIONS

Existing Conditions

Existing Charles Road West Approach



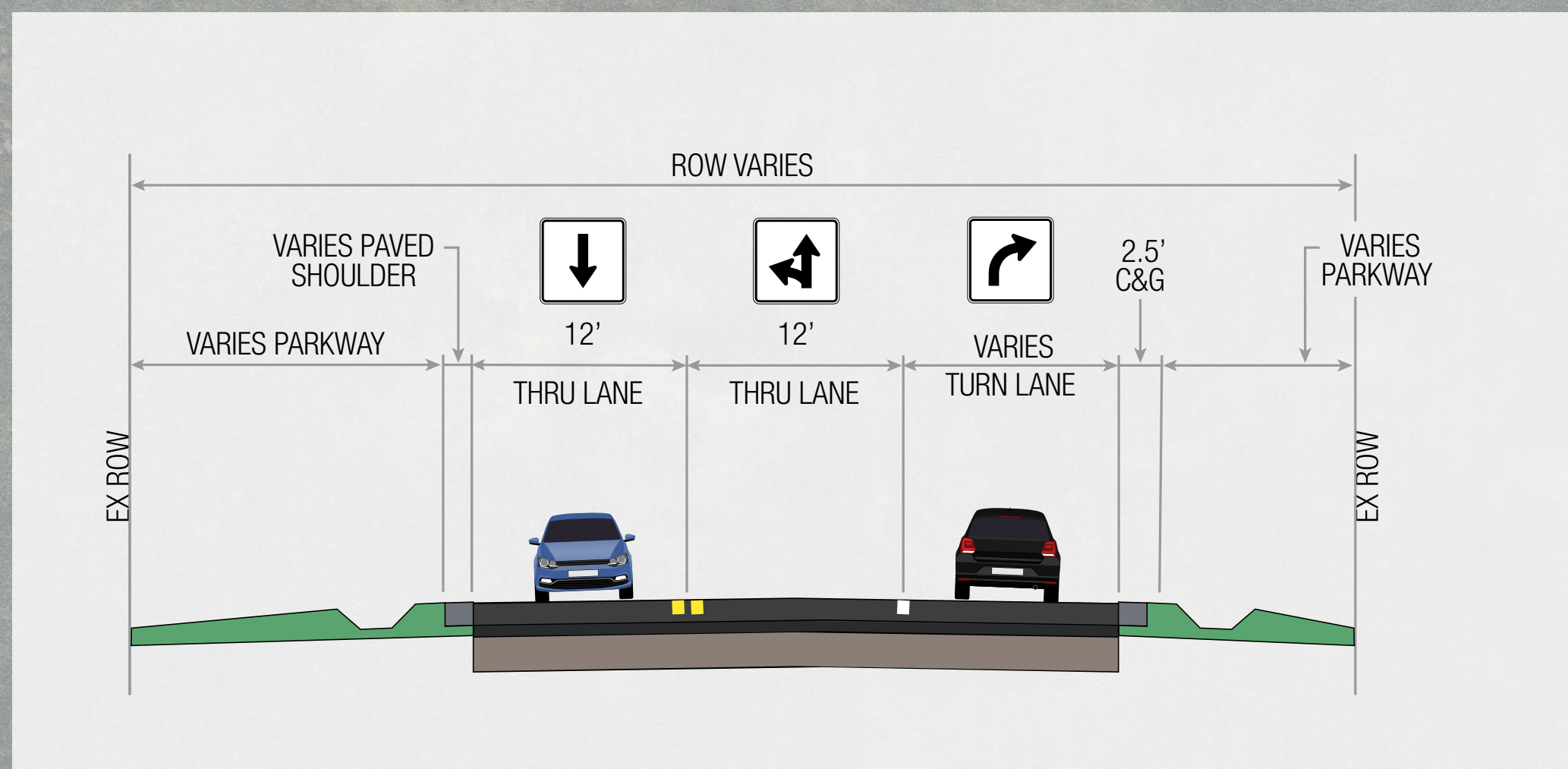
Existing Greenwood Road North Approach



GREENWOOD ROAD

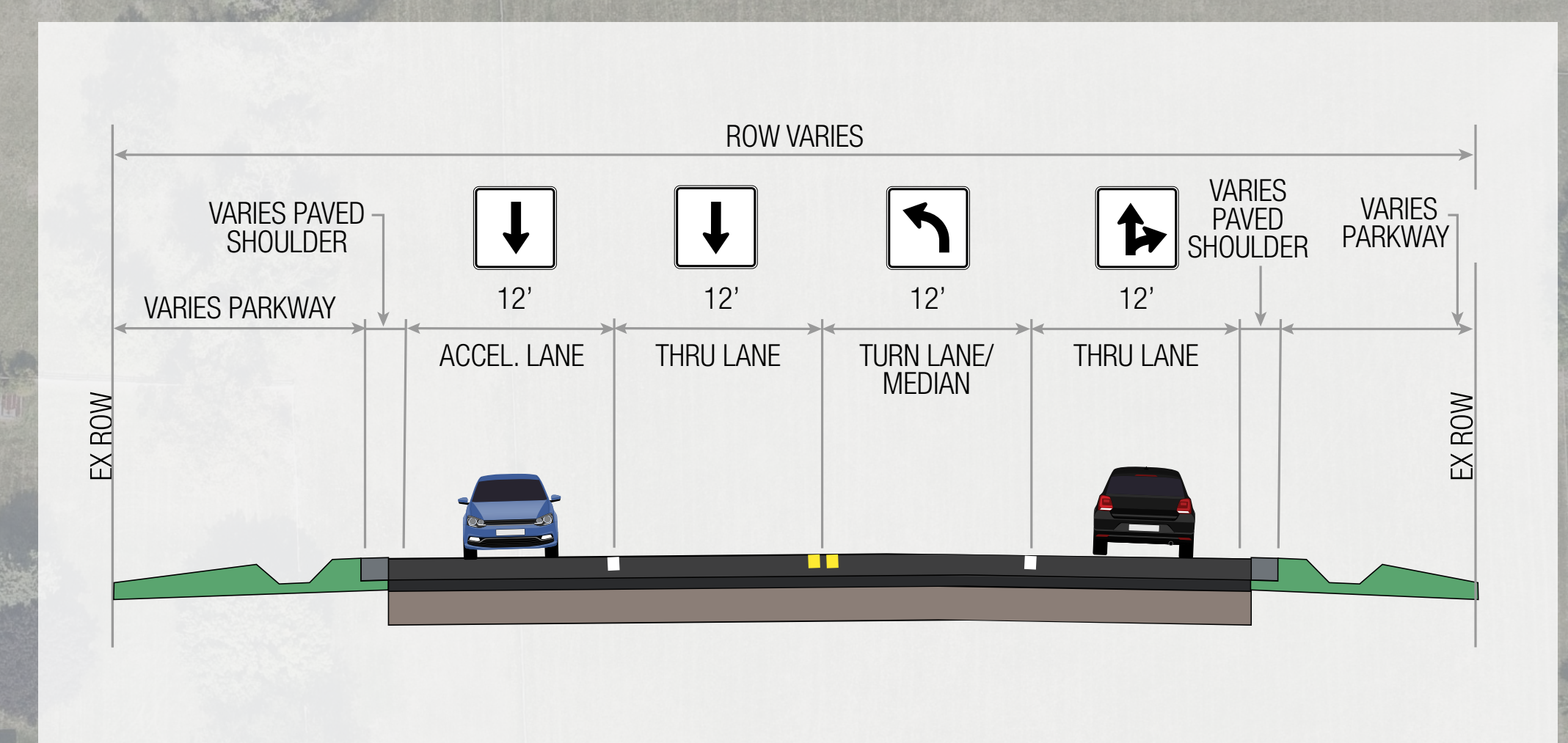
CHARLES ROAD

Existing IL 120 South Approach



IL 120

Existing IL 120 East Approach



IL 120



LEGEND:

⊕ ROW Acquisition

ALTERNATIVE 1

Signalized Intersection

IMPROVEMENTS INCLUDE:

- North-South left turn lanes added on IL 120/Greenwood Road
- Removes eastbound acceleration lane, decreasing impervious area
- Shoulder and ditch widening
- Remove free flow northbound right turn

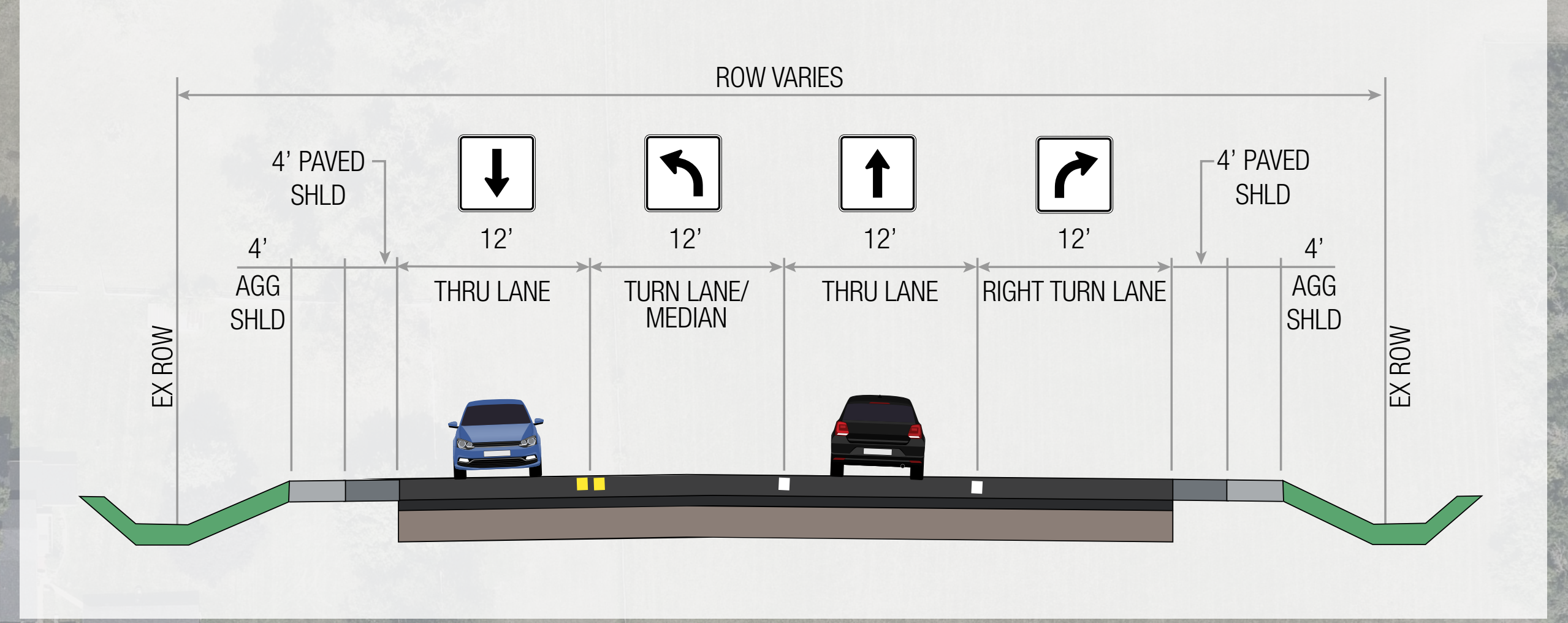
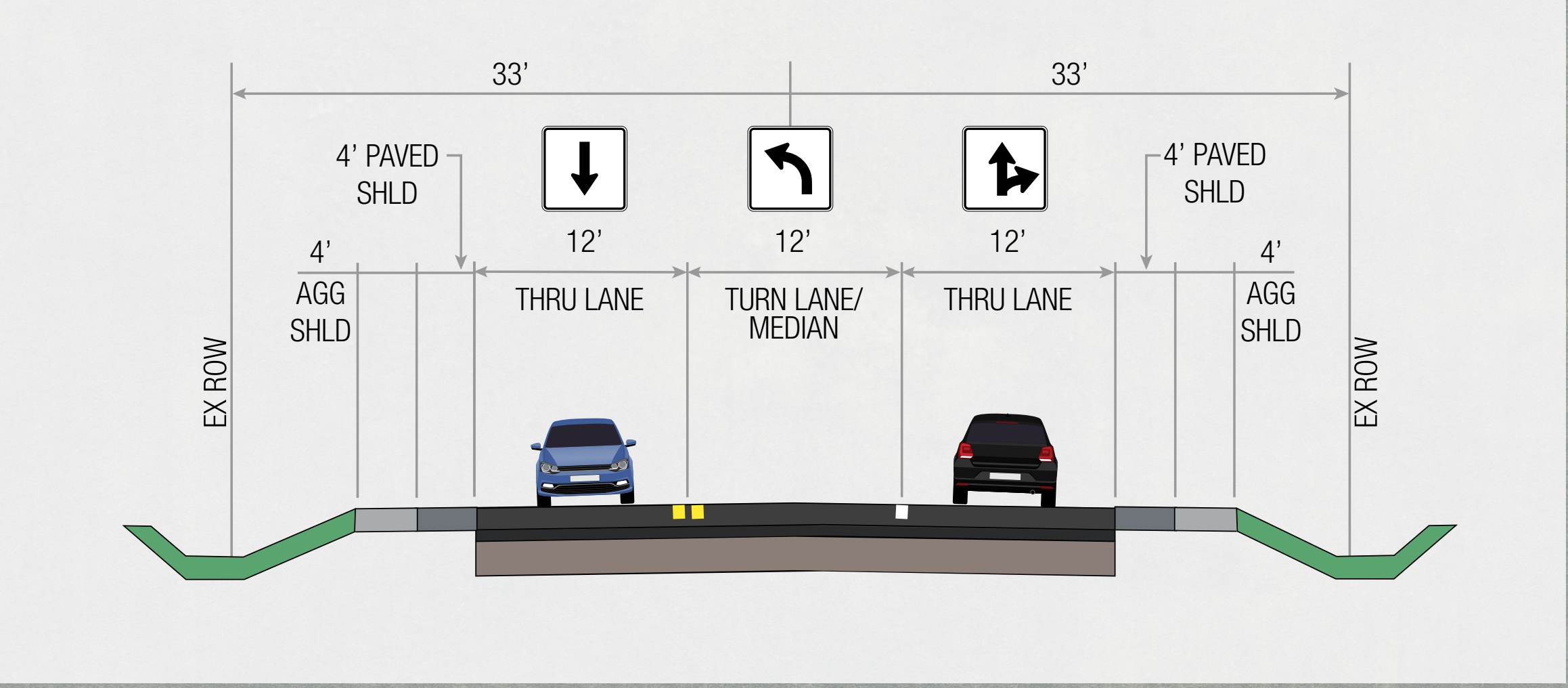
CHARLES ROAD

GREENWOOD ROAD

IL 120

Typical Section - Charles Road West Approach, Greenwood Road North Approach, and IL 120 East Approach

Typical Section - IL 120 South Approach





LEGEND:

(+) ROW Acquisition

ALTERNATIVE 2

Roundabout

IMPROVEMENTS INCLUDE:

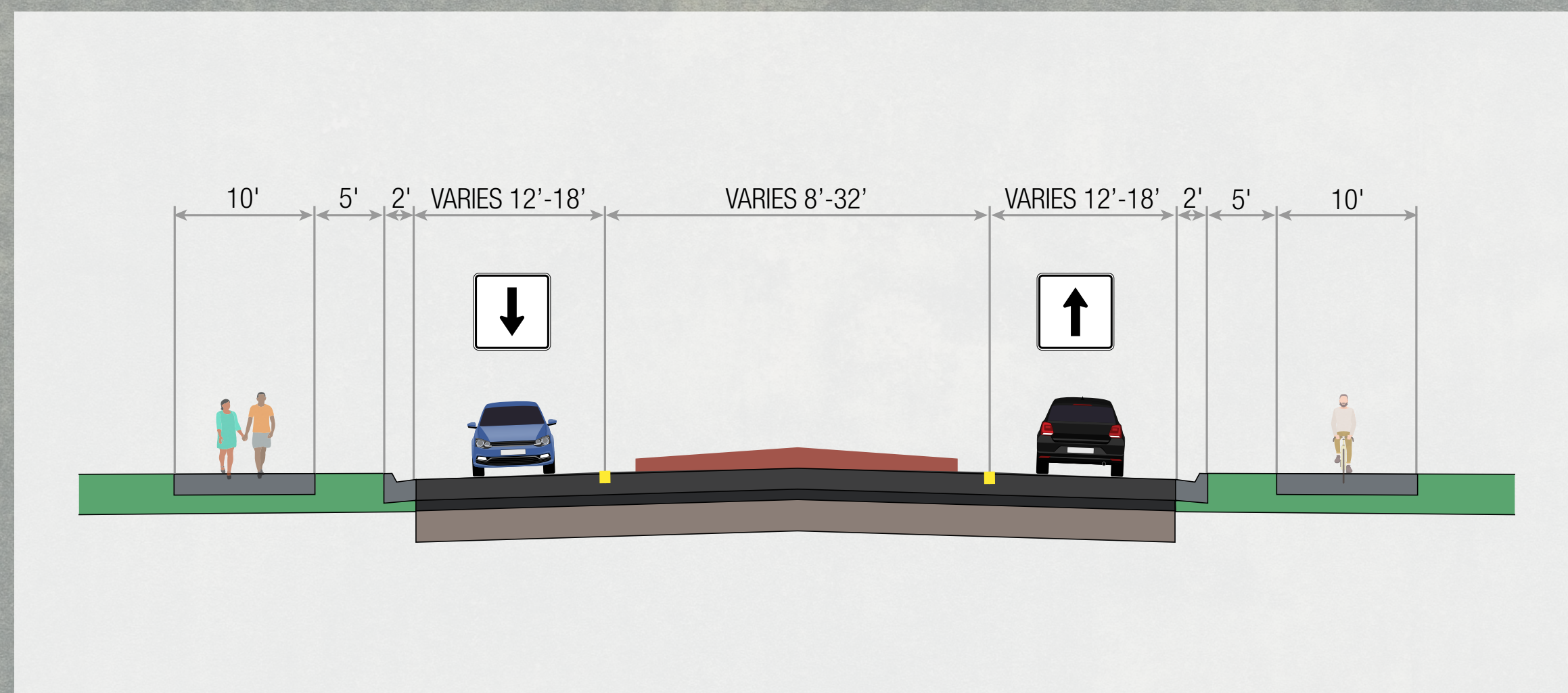
- Removes stop control at all four intersection approaches
- Shoulder and ditch widening
- Pedestrian and bicyclist access
- Intersection lighting

CHARLES ROAD

GREENWOOD ROAD

IL 120

Typical Section - All Intersection Approaches



Alternatives Evaluation

ALTERNATIVE	1. EXISTING CONDITIONS	2. SIGNAL	3. ROUNDABOUT
POTENTIAL FOR SEVERE CRASHES	Increase	Increase	Decrease
WIDENED SHOULDERS	✘	✔	✔
TURN MOVEMENT IMPROVEMENTS	✘	✔	✔
PEDESTRIAN ACCESS	✘	✘	✔
INTERSECTION OPERATION	●	●	●
WETLAND IMPACTS	None	None	None
IMPERVIOUS AREA	No Change	Decrease	Increase
PARCELS IMPACTED	None	2	4
ESTIMATED CONSTRUCTION COST (\$M)	None	\$3.8	\$2.8

Public Input Needed

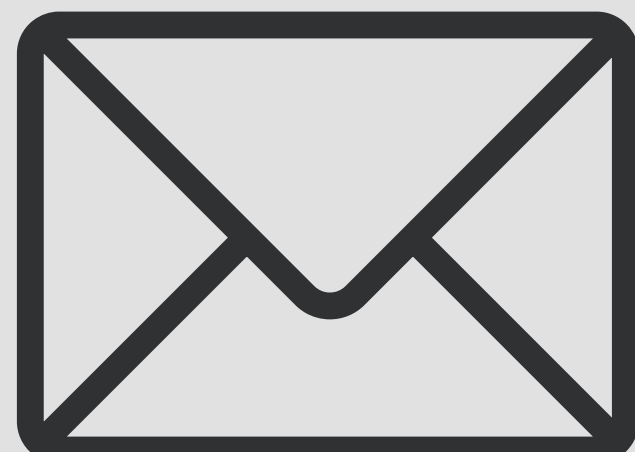
WHAT ISSUES DO YOU HAVE AT THE INTERSECTION?

WHAT SAFETY CONCERNS DO YOU EXPERIENCE AT THE INTERSECTION?

DO YOU EXPERIENCE DELAYS AT THE INTERSECTION?

COMMENTS ON THE ALTERNATIVES

MAIL



**MCHENRY COUNTY DIVISION
OF TRANSPORTATION**

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COMMENT FORMS

Due June 25, 2024