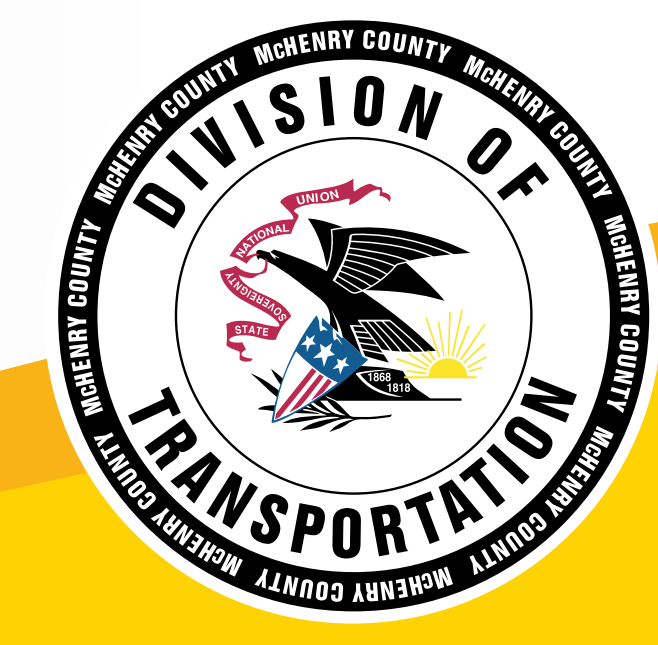




CHARLES ROAD

SAFETY IMPROVEMENTS

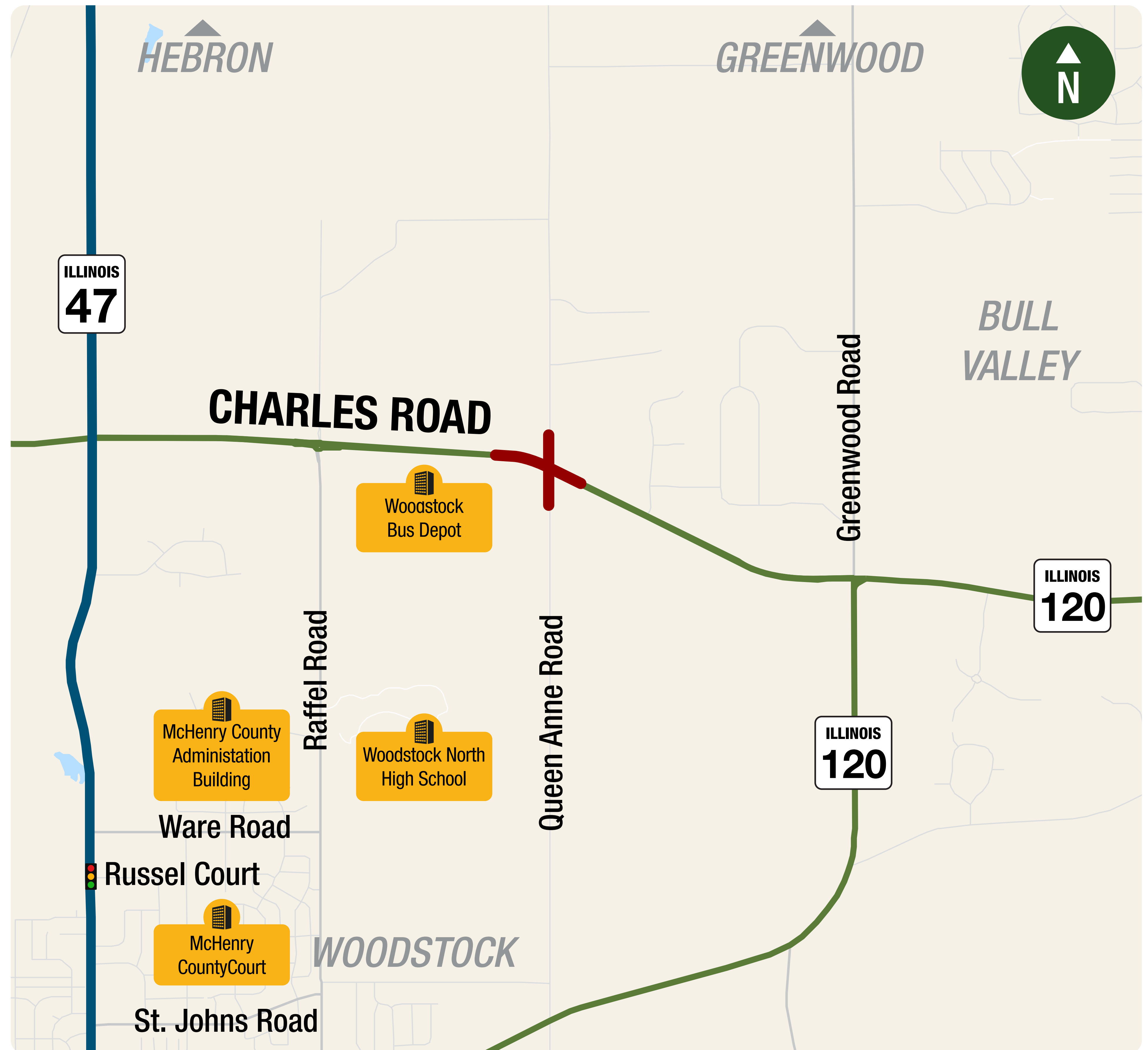
PUBLIC INFORMATION MEETING
Charles Road at Queen Anne Road



April 2, 2024

Study Location

The study is located at the intersection of Charles Road and Queen Anne Road in McHenry County.



Purpose and Need

THE PURPOSE of the project is to address the safety concerns and reduce potential for future severe crashes. The geometric deficiencies of intersection skew, substandard sight distance, and substandard cross-sectional elements within the curve west of the intersection will be addressed.

THE NEED for the project is a result of the crashes experienced at the intersection that include angle, turning, and injury crashes. There were two fixed-object crashes that resulted in fatalities in the vicinity of the curve on the west approach.

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

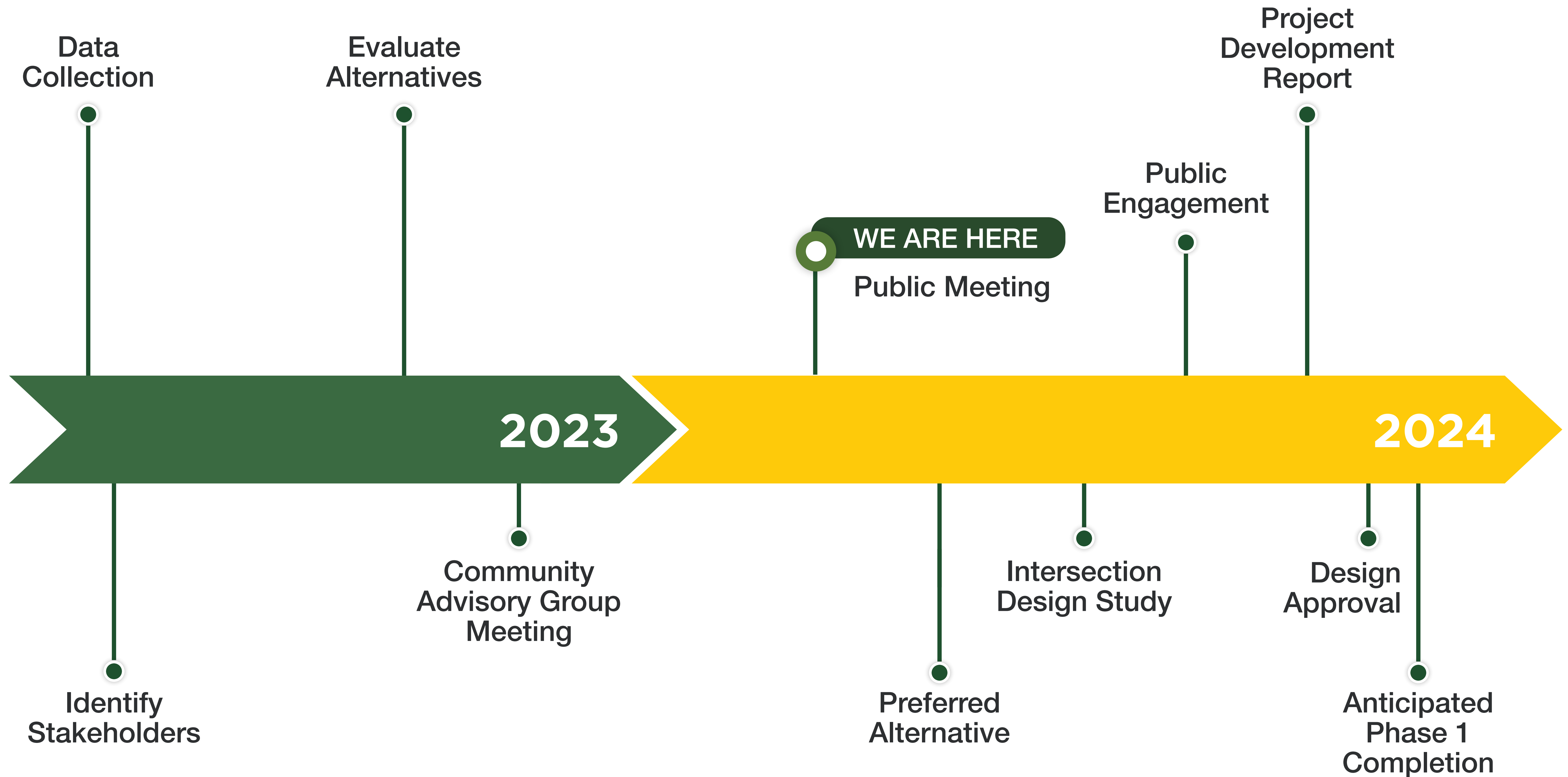
PHASE III

18-24 months
2027

Project
Construction

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

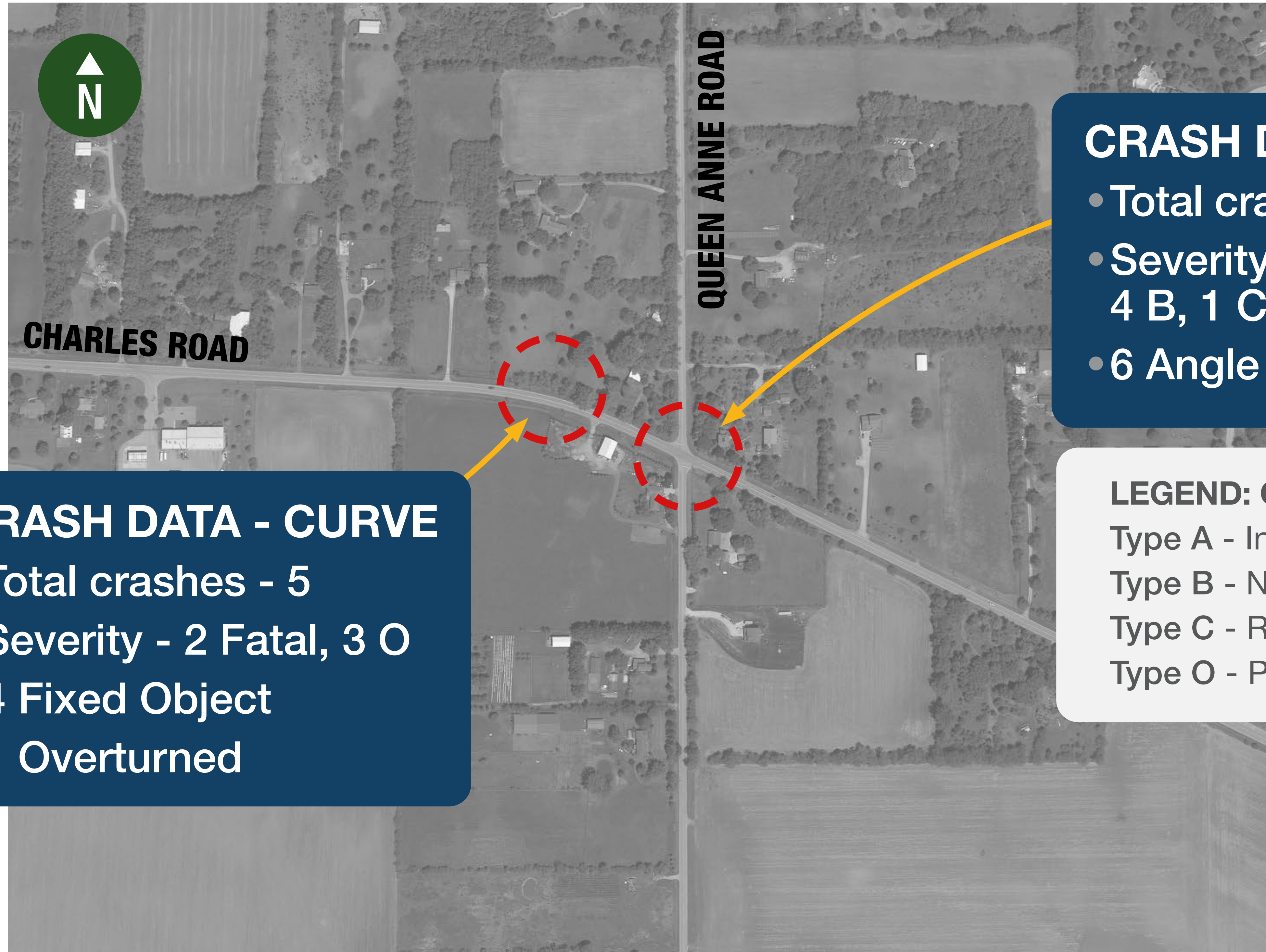
Phase I Process



Community Advisory Group Feedback

- High travel speeds
- Limited visibility due to existing features including barn, utility poles and vegetation
- Sharp curve west of the Queen Anne Road intersection unsafe for vehicles
- School buses avoid intersection due to safety concerns
- Intersection not safe for pedestrians and bicyclists
- No place for emergency vehicles to pull over due to narrow shoulders
- Consider turn lanes to remove turning vehicles from the through lanes
- Drainage concerns similar to the Raffel Road intersection

Crash Analysis: 2016-2020



CRASH DATA - INTERSECTION

- Total crashes - 12
- Severity - 2 A, 4 B, 1 C, 5 O
- 6 Angle
- 3 Rear-end
- 1 Left-turn
- 1 Overturned
- 1 Fixed object

CRASH DATA - CURVE

- Total crashes - 5
- Severity - 2 Fatal, 3 O
- 4 Fixed Object
- 1 Overturned

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 - 2021

LEGEND:

AM[PM] Design Hour Vehicle

ADT Average Daily Traffic

CHARLES ROAD

ADT = 7,800

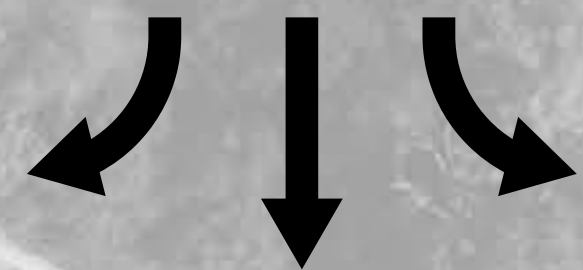
QUEEN ANNE ROAD

ADT = 1,200

ADT = 1,000

ADT = 7,800

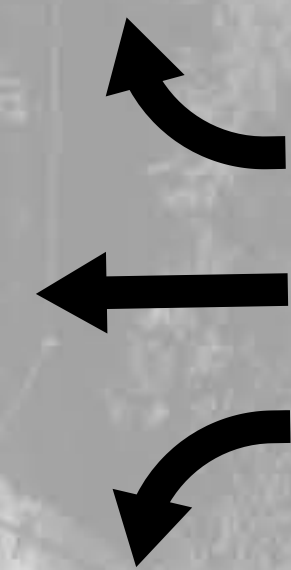
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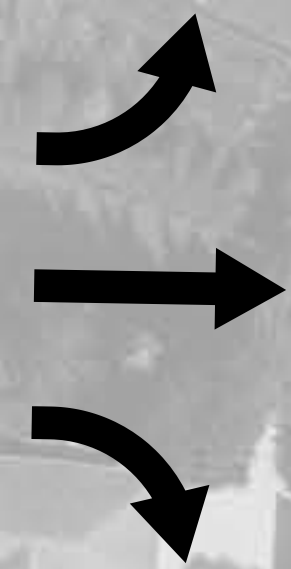
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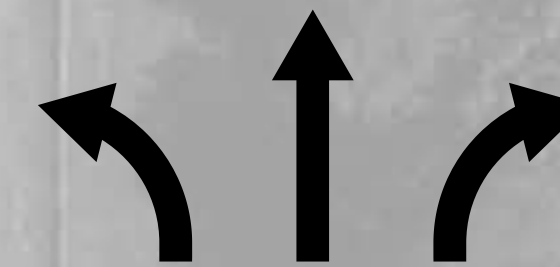
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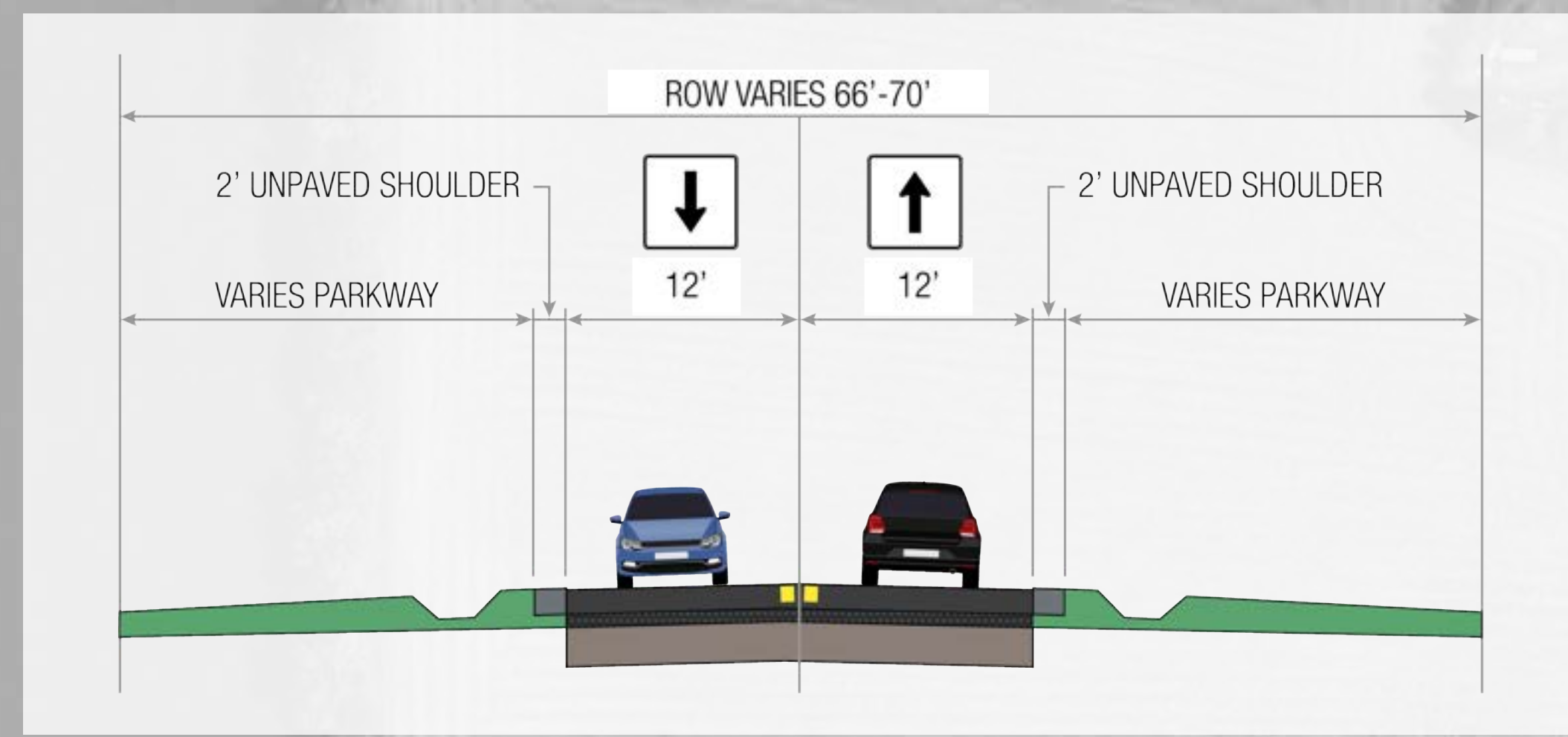




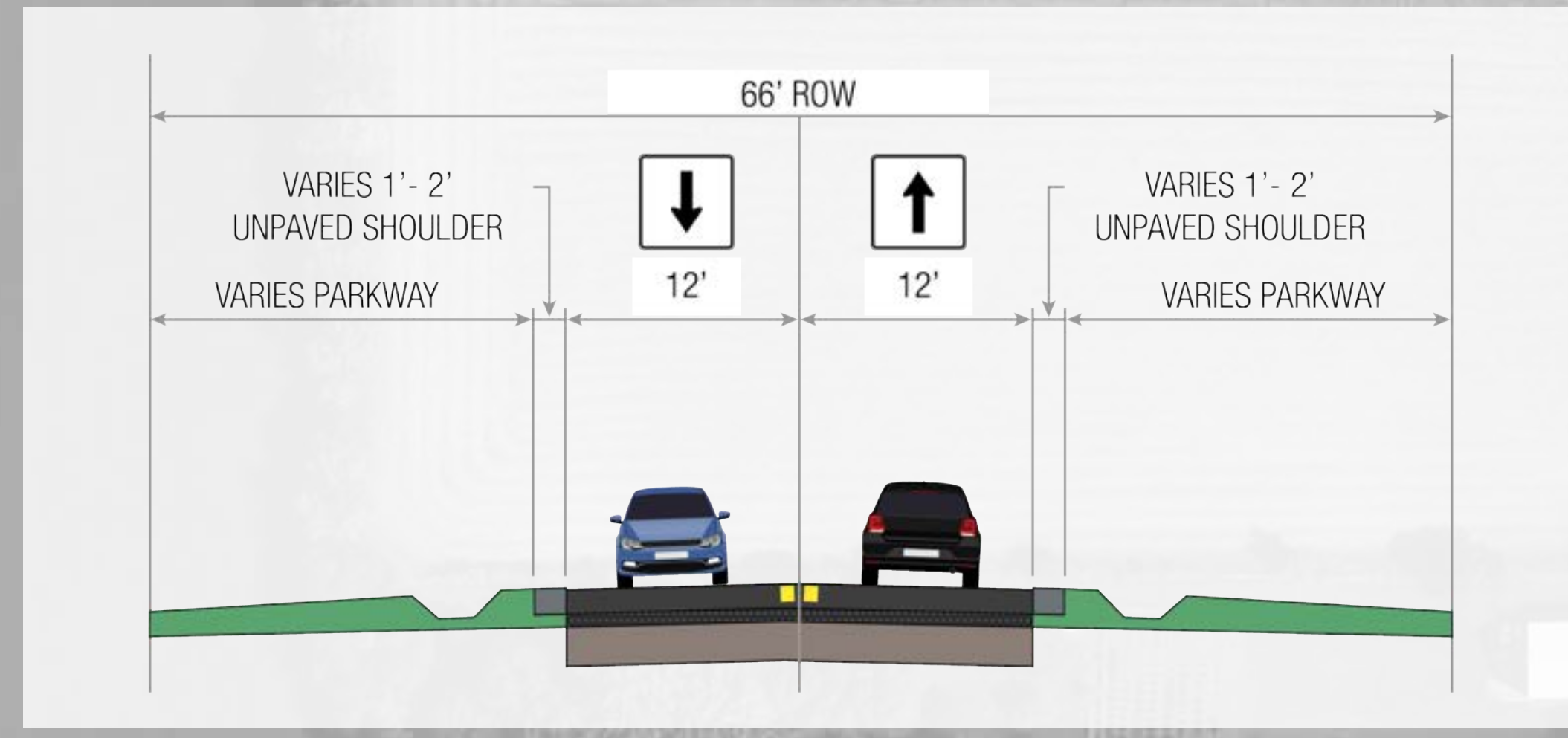
PRINCIPAL ARTERIAL
CHARLES ROAD

SPEED
LIMIT
55

EXISTING CHARLES RD



EXISTING QUEEN ANNE RD

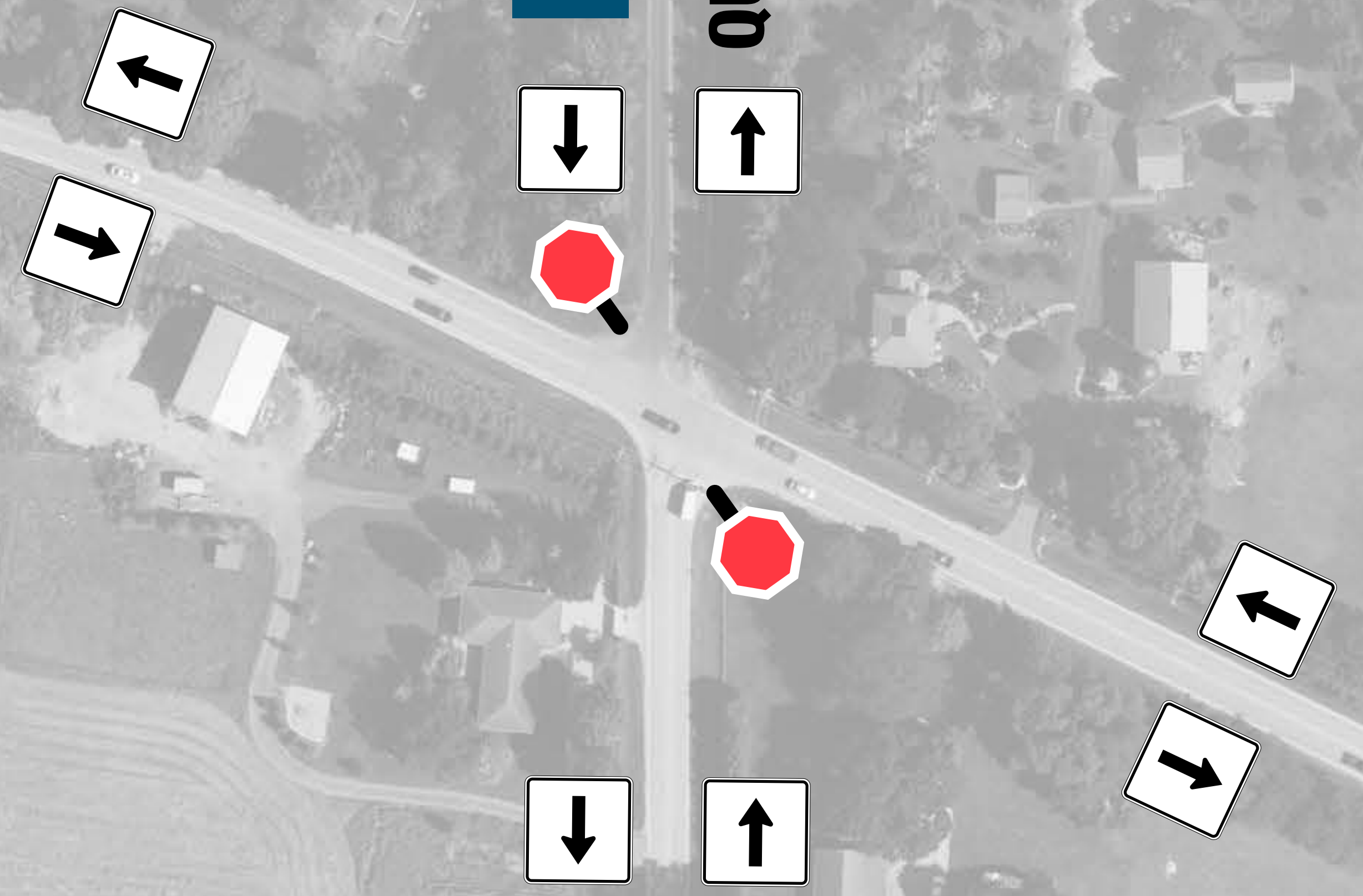


SPEED
LIMIT
55

LOCAL ROAD

QUEEN ANNE ROAD

EXISTING CONDITIONS
Stop-Controlled Intersection



SPEED
LIMIT
55

SPEED
LIMIT
45

COLLECTOR



CHARLES ROAD

EX ROW

EX ROW

QUEEN ANNE ROAD

EX ROW

EX ROW

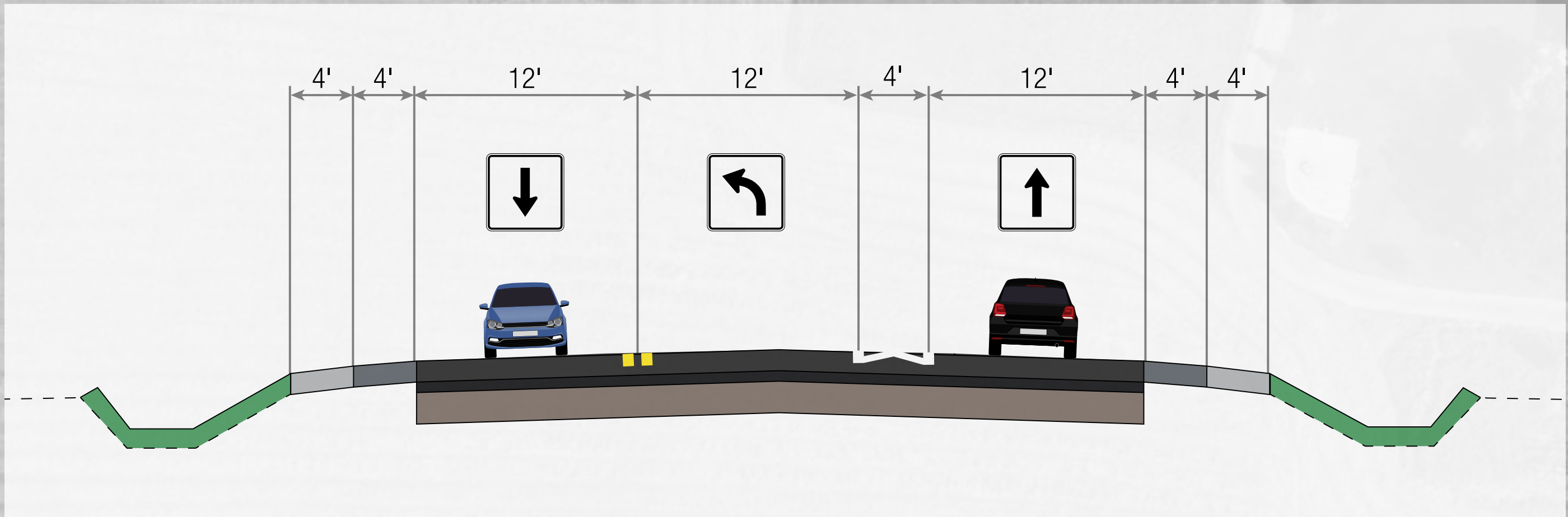
ALTERNATIVE 1

Stop-Controlled Intersection

IMPROVEMENTS INCLUDE:

- East-West left turn lanes on Charles Road
- Southbound right turn lane on Queen Anne Road
- Shoulder and ditch widening

Typical Section - Charles Road at Queen Anne Road



EX ROW

EX ROW

EX ROW

EX ROW



CHARLES ROAD

EX ROW

EX ROW

QUEEN ANNE ROAD

EX ROW

EX ROW

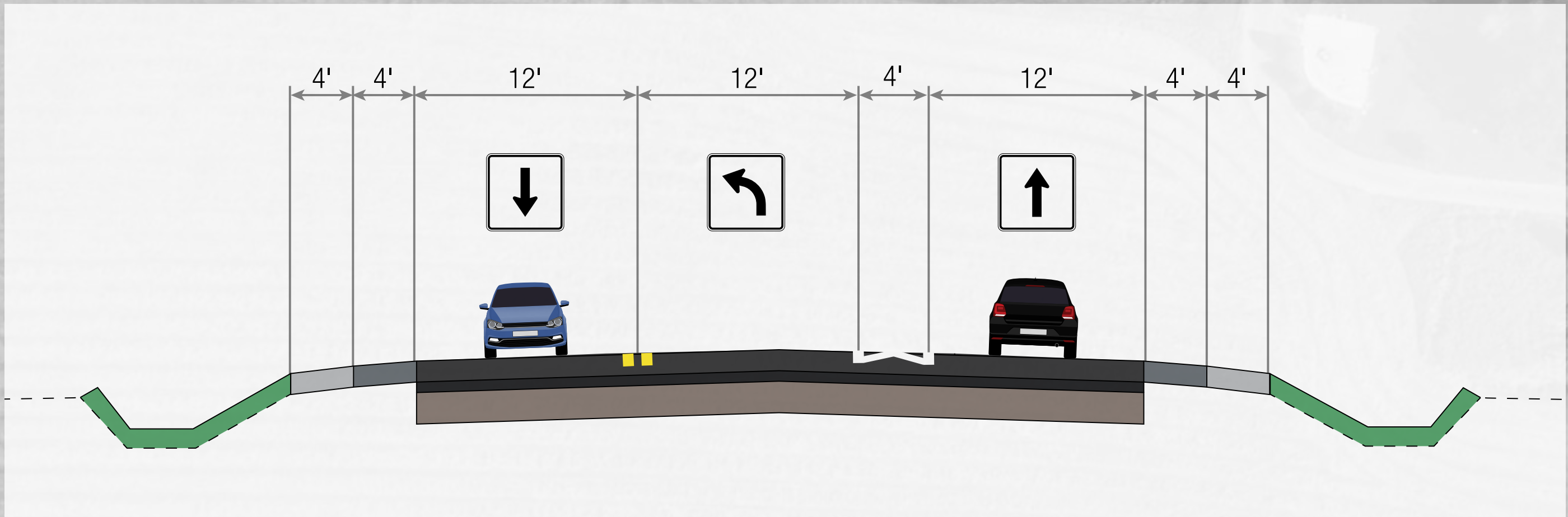
ALTERNATIVE 2

Stop-Controlled Intersection

IMPROVEMENTS INCLUDE:

- Realigns Charles Road to reduce intersection skew
- East-West left turn lanes on Charles Road
- Southbound right turn lane on Queen Anne Road
- Shoulder and ditch widening

Typical Section - Charles Road at Queen Anne Road





CHARLES ROAD

EX ROW

QUEEN ANNE ROAD

EX ROW

EX ROW

EX ROW

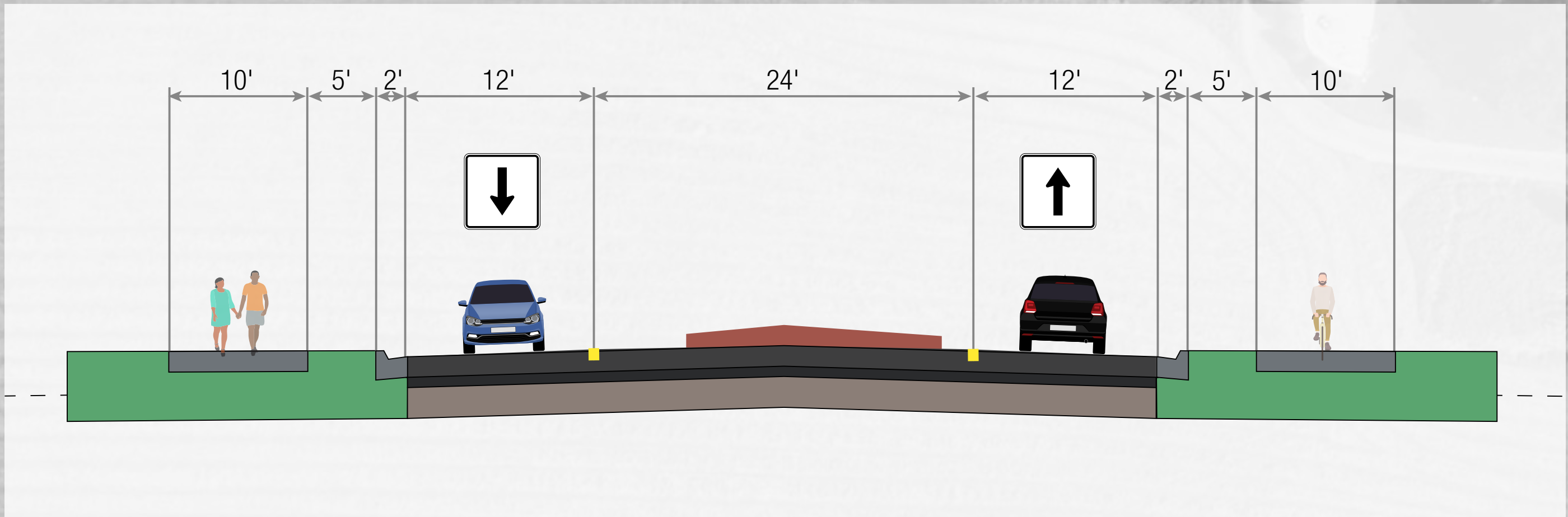
ALTERNATIVE 3

Roundabout Intersection

IMPROVEMENTS INCLUDE:

- Removes stop control on Queen Anne Road
- Shoulder and ditch widening
- Speed reduction
- Pedestrian and bicyclist access
- Intersection lighting

Typical Section - Charles Road at Queen Anne Road



Alternatives Evaluation

ALTERNATIVE	1. EXISTING ALIGNMENT	2. NEW ALIGNMENT	3. ROUNDABOUT
SPEED REDUCTION	✗	✗	✓
INTERSECTION SKEW & VISIBILITY	✗	✓	✓
IMPROVED SHOULDERS	✓	✓	✓
TURN MOVEMENT IMPROVEMENTS	✓	✓	✓
PEDESTRIAN ACCESS	✗	✗	✓
INTERSECTION OPERATION	●	●	●
WETLAND IMPACTS	None	None	None
PARCELS IMPACTED	4	6	4
ESTIMATED COST (\$M)	\$2.6	\$3.6	\$3.0

Public Input Needed

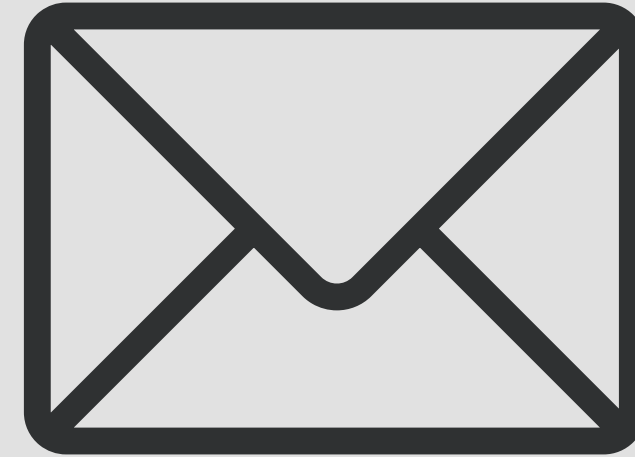
WHAT ISSUES DO YOU HAVE AT THIS INTERSECTION?

WHAT SAFETY CONCERNS DO YOU EXPERIENCE AT THE INTERSECTION?

DO YOU EXPERIENCE DELAY AT THE INTERSECTION?

COMMENTS ON THE ALTERNATIVES

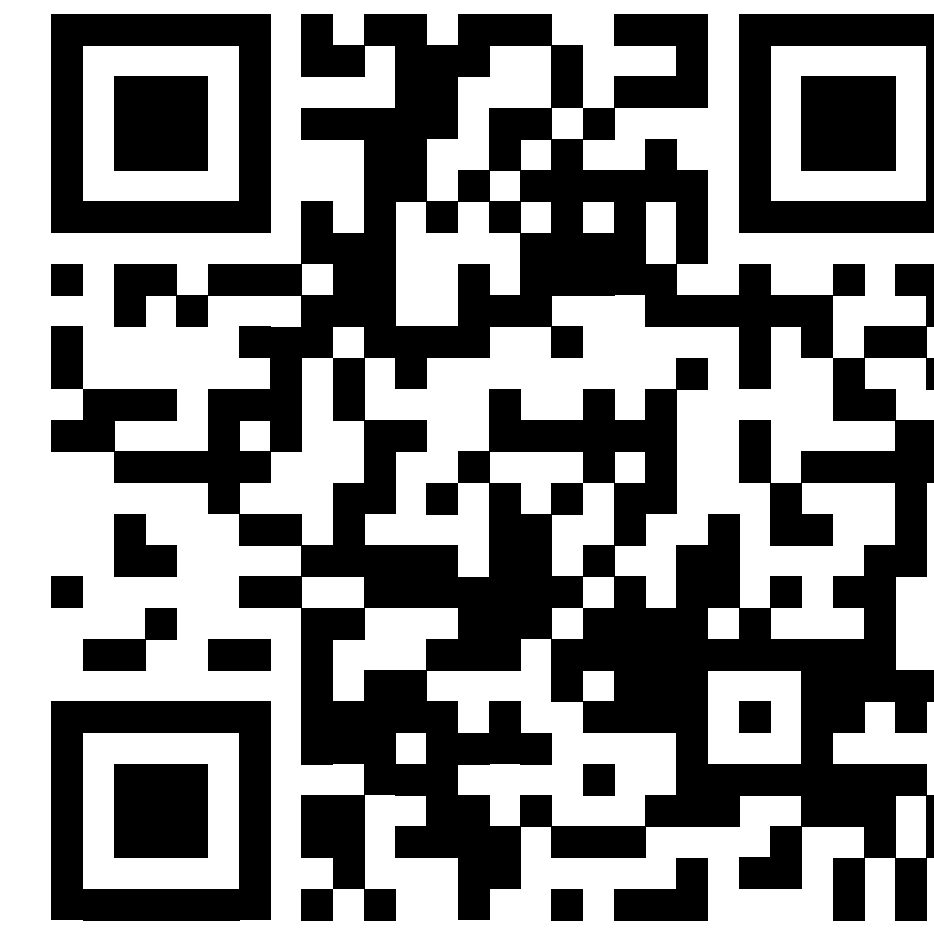
MAIL



**MCHENRY COUNTY DIVISION
OF TRANSPORTATION**

Attn: Rebecca Brazas
Project Manager

16111 NELSON ROAD
WOODSTOCK, IL 60098



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WWW.CHARLESROADCORRIDOR.COM

EMAIL

RJBRAZAS@MCHENRYCOUNTYIL.GOV



COMMENT FORMS

Due April 23, 2024