



**IL57 BROADWAY to I-172**



**welcome**



Illinois Department of Transportation

**IL57Quincy.org**





# PURPOSE OF MEETING

The intent of this meeting is to **gather feedback** on the Alternatives to Carry Forward.

# STUDY AREA





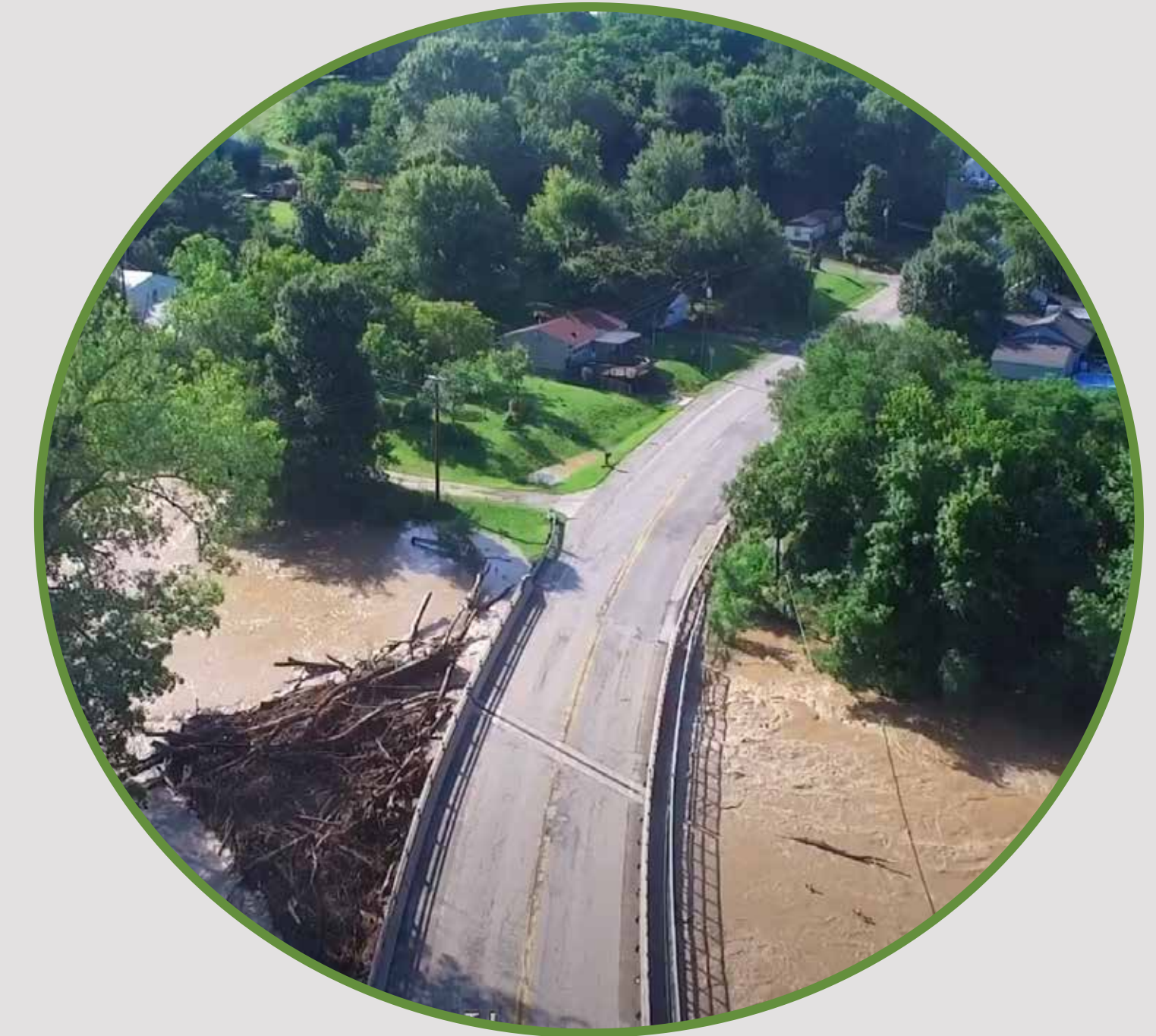
# HOW DID WE GET HERE?



## 2014 PHASE I

### QUINCY MEMORIAL BRIDGE STUDY

Replace the bridge on a new alignment.



## 2020 QUINCY REGIONAL TRANSPORTATION PLAN

Pavement condition

Truck traffic

Flooding

Speed

Traffic routing



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# CONTEXT SENSITIVE SOLUTIONS



- **Engage** all stakeholders
- **Flexible**, creative design approach
- **Develop**, construct and maintain cost effective transportation facilities
- **Fits** into its surroundings
- **Addresses** all modes of transportation
- **Preserves** aesthetic, historic, and environmental resources
- **Maintains** safety and mobility





# COMMUNITY ADVISORY GROUP (CAG)

**ESTABLISHED TO PROVIDE COMMUNITY INSIGHT  
IN THE DEVELOPMENT OF THE ALTERNATIVES.**

**Members include:**

- Local officials
- Transportation professionals
- Community leaders
- Businesses
- Residents
- School District
- Community safety officials

**The CAG has met four  
times throughout the  
project at key milestones.**





# PLANNING AND ENVIRONMENT LINKAGES (PEL)

## FHWA TOOL THAT LINKS TRANSPORTATION PLANNING TO NEPA PROJECT PROCESSING ADOPTED INTO IDOT POLICY IN JUNE 2020



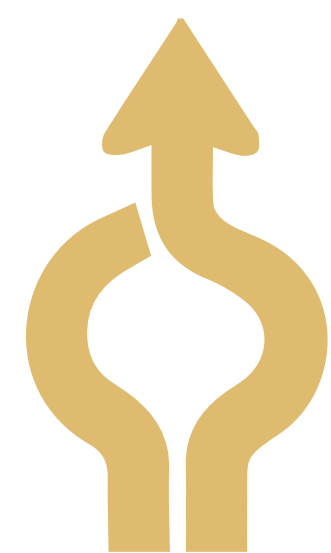
### **Collaborative and integrated approach to decision making**

Considers environmental, community, and economic goals early in the transportation planning process. Uses the information, analysis, and products developed during planning to inform the environmental review process.



### **PEL Benefits**

Minimizes potential duplication of the Phase I planning and NEPA processes. Develops relationships and coordination with cooperating agencies through open communication and information sharing.



### **PEL Study**

- Purpose and Need
- Alternatives to be Carried Forward





# NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) PROCESS



- **Federal Act to ensure considerations of impacts to natural/social/built environment.**
- **Facilitates an open and transparent process.**

A PEL is an early decision-making process between local, state, and federal transportation agencies that smoothly advances and transitions a project from its early transportation planning phase to the more detailed NEPA phase.





# ENVIRONMENTAL IMPACTS

## NATURAL RESOURCES

- Wildlife and Vegetation
- Sensitive Species
- Cultural and Historic Resources
- Solid and Hazardous Waste
- Agricultural Resources
- Floodplains
- Wetlands and Streams  
(Waters of the US)
- Parks and Natural Areas

## SOCIAL/ECONOMIC RESOURCES

- Demographic Characteristics
- Environmental Justice Considerations
- Community Facilities
- Land Use
- Noise
- Visual Resources





# PURPOSE AND NEED

## THE PURPOSE

FOR THIS PEL IS TO DETERMINE  
POTENTIAL PROJECTS  
THAT WOULD

**Improve deficient roadway and  
intersection geometry**

**Improve corridor safety**

**Improve mobility**

**Enhance pedestrian and bicycle access  
where warranted**

## THE NEED

IS TO ADDRESS THE ISSUES OF

**Roadway condition**

**Substandard roadway and intersections**

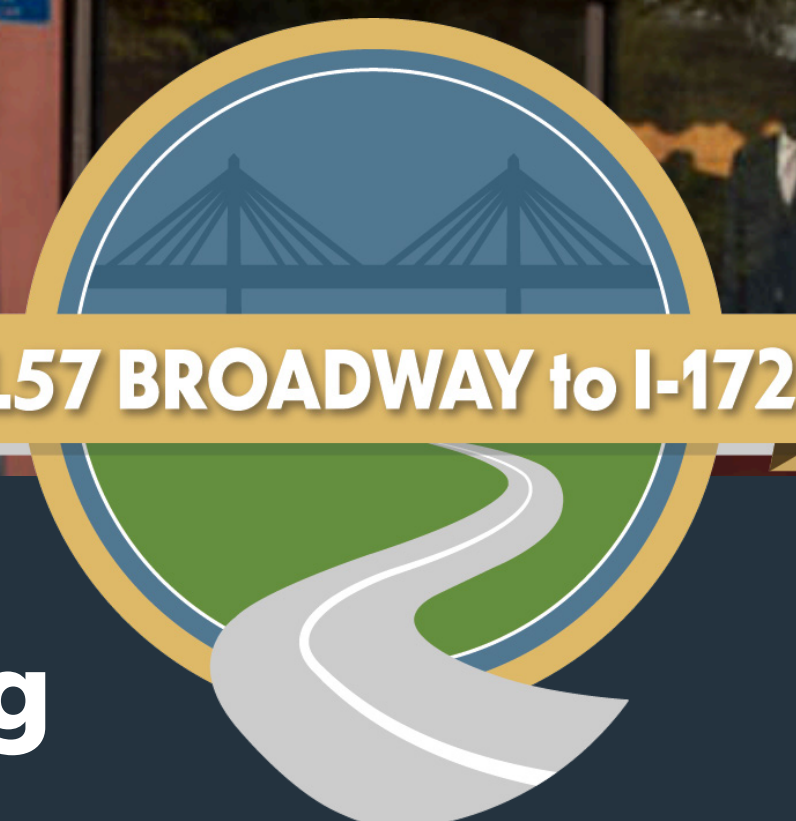
**Safety for all roadway users**

**Pavement flooding**



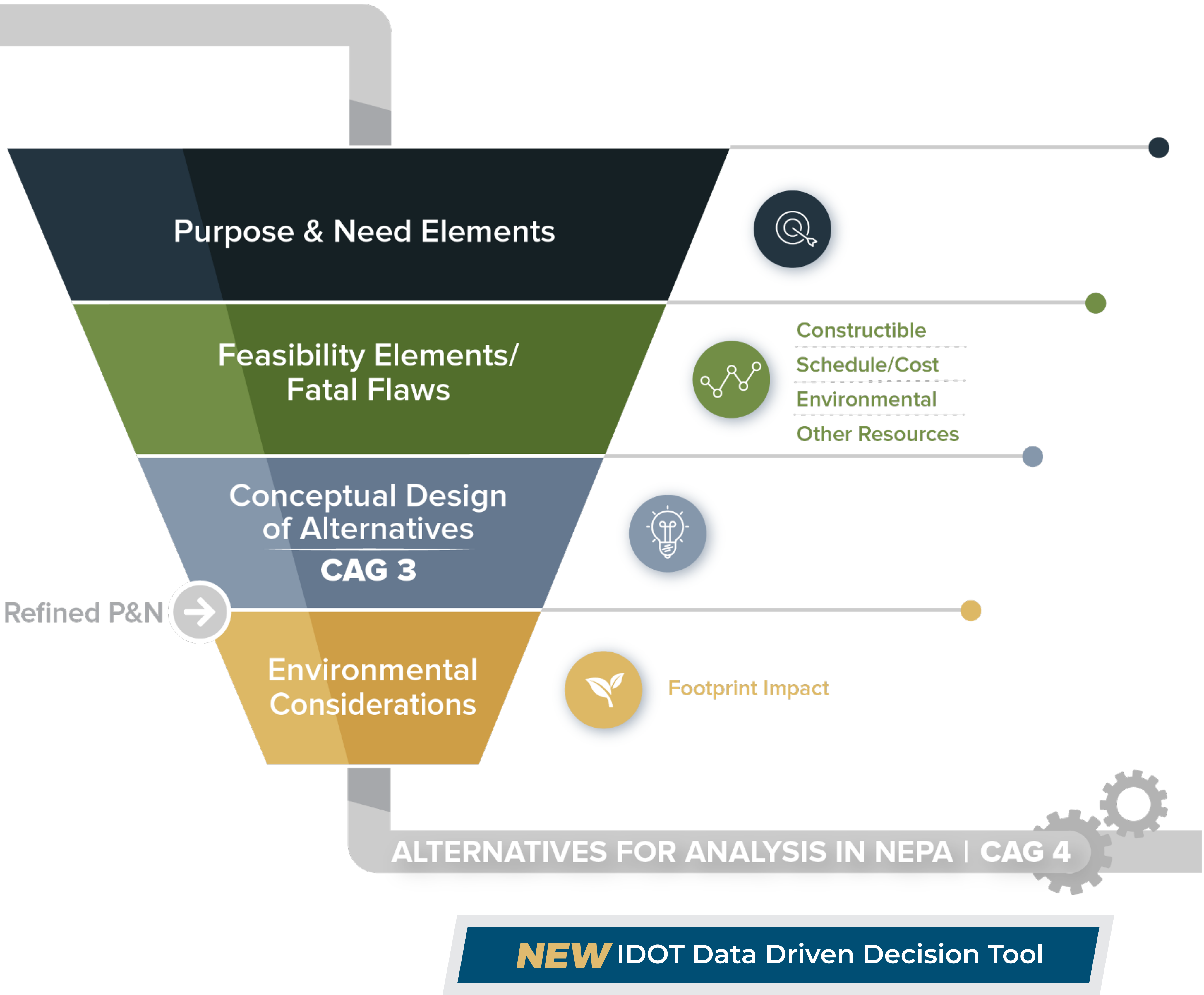
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# DETAILED SCREENING CRITERIA



- » **FLOODPLAINS**
- » **WETLANDS/WATERS OF THE U.S.**
- » **PROTECTED SPECIES**
- » **CULTURAL/HISTORIC RESOURCES**
- » **IMPACT TO STRUCTURES/PROPERTY**
- » **ALIGNS WITH OTHER AREA PROJECTS**
- » **MOBILITY & SAFETY**
- » **ROW NEEDS**



# 3 SECTIONS

## URBAN

Broadway to  
Payson Avenue



**1.3** miles

## SUBURBAN/INDUSTRIAL

Payson Avenue  
to 24th Street



**4.8** miles

## RURAL

24th Street to  
I-172 Interchange



**6.5** miles



# EXISTING CONDITIONS

## URBAN (Broadway to Payson Avenue)

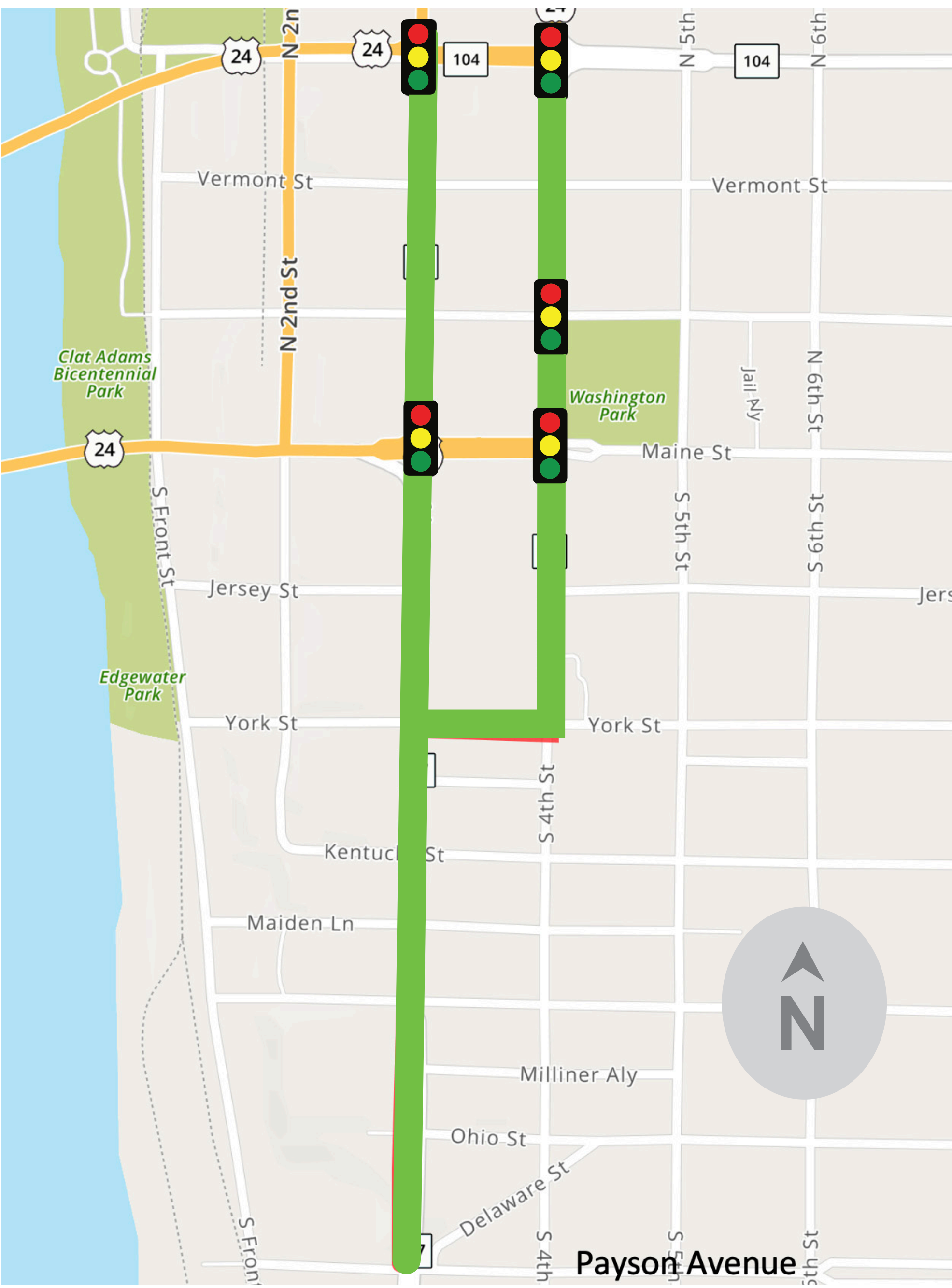
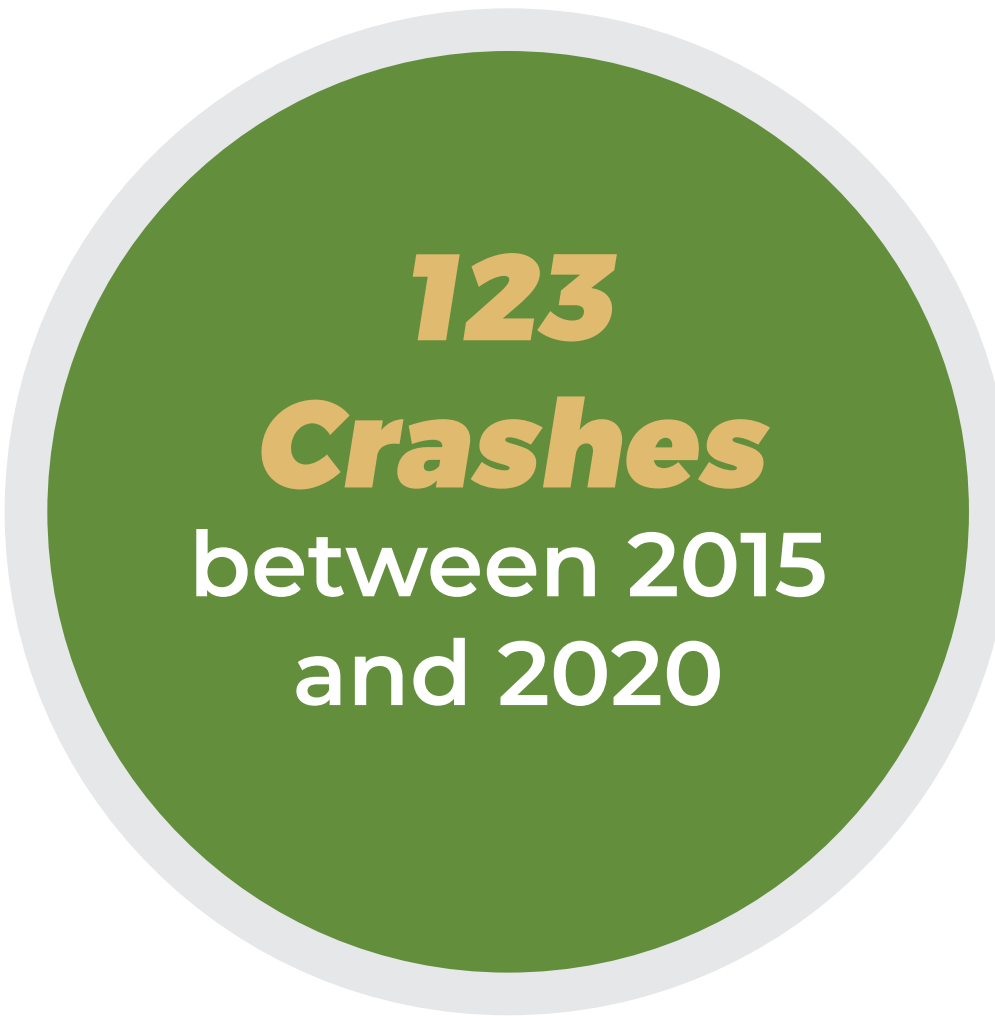
**Approximately 1.3 miles** 3<sup>rd</sup> and 4<sup>th</sup> – one-way couple (0.8 miles along 3<sup>rd</sup> Street and additional 0.5 miles along 4<sup>th</sup> Street/York Street).

**Two lanes in each direction** south of York with curb and gutters. Additional turning lanes at intersections. Speed limit **30 mph**.

**Concrete sidewalks** between Broadway and Ohio, grass shelf further south. Sidewalks/crosswalks are mostly ADA compliant.

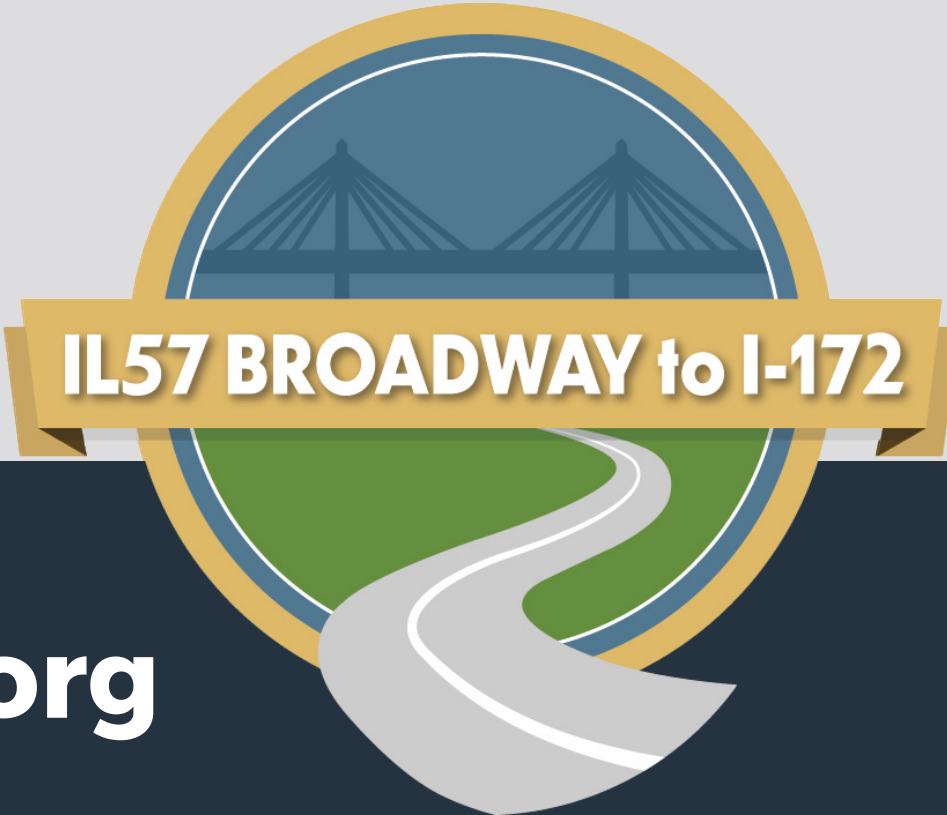
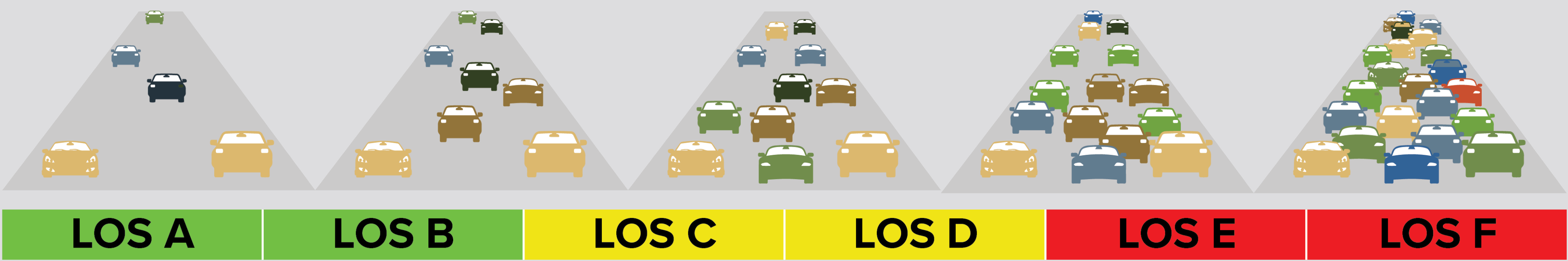
**Access to IL 57** controlled by stop signs and traffic signals at Broadway at 3<sup>rd</sup> and 4<sup>th</sup> Streets, Maine at 3<sup>rd</sup> and 4<sup>th</sup> Streets, and Hampshire at 4<sup>th</sup> Street.

**Street lighting** at some intersections, decorative light poles along 4<sup>th</sup> Street.



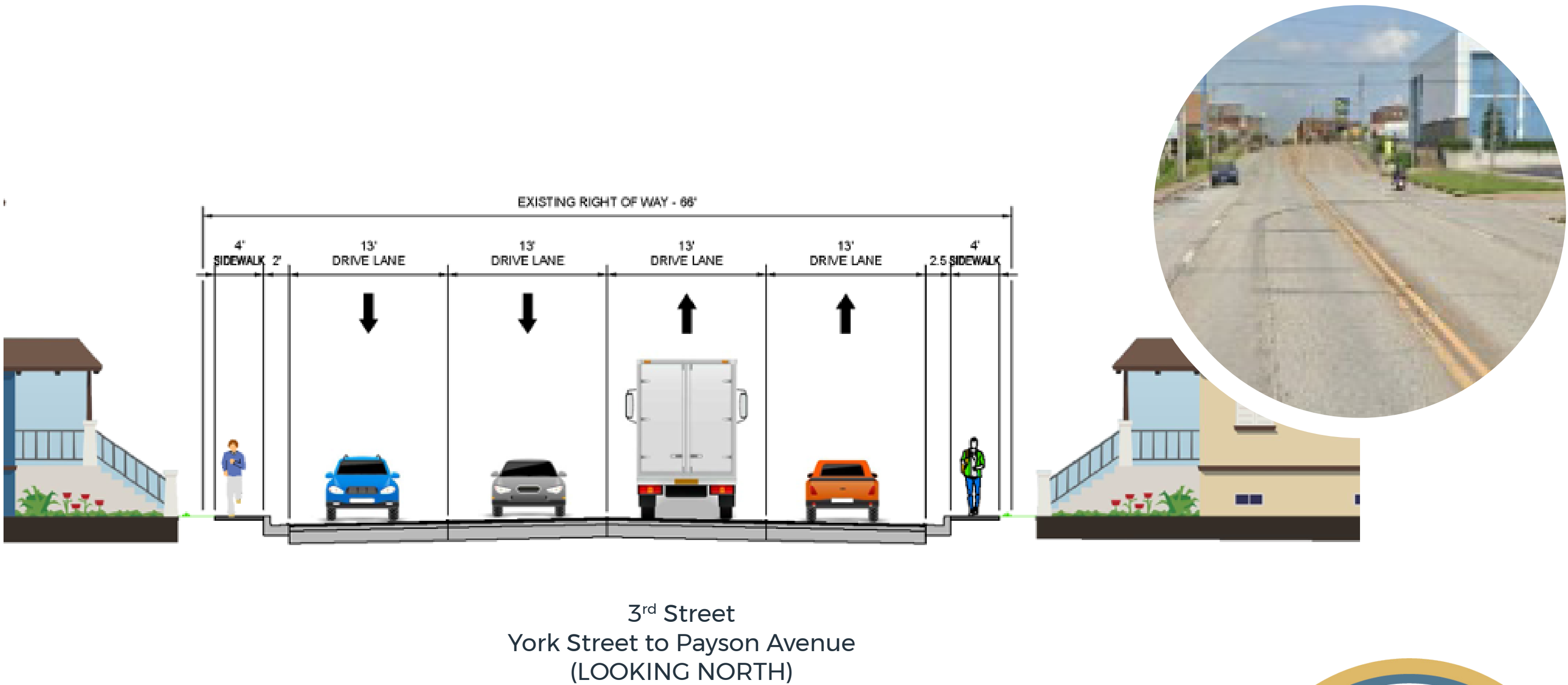
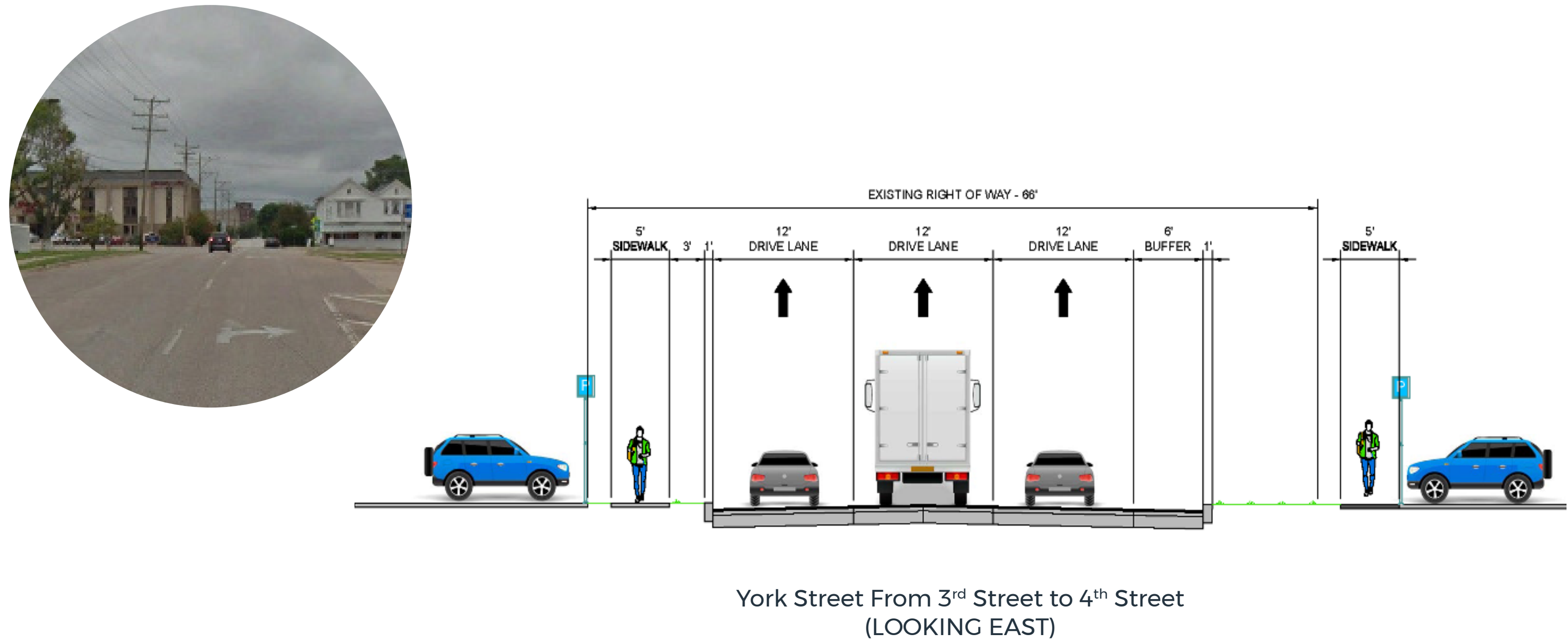
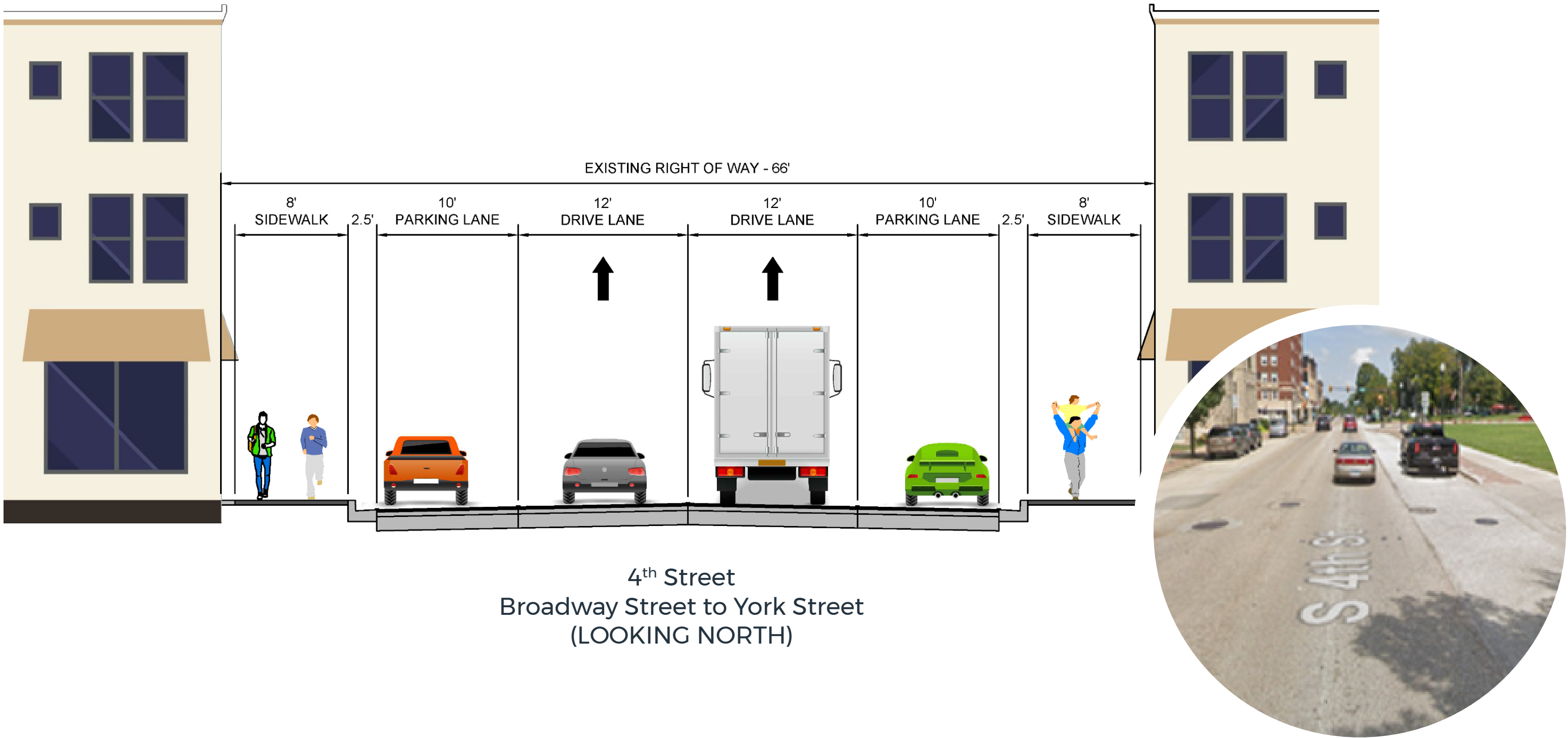
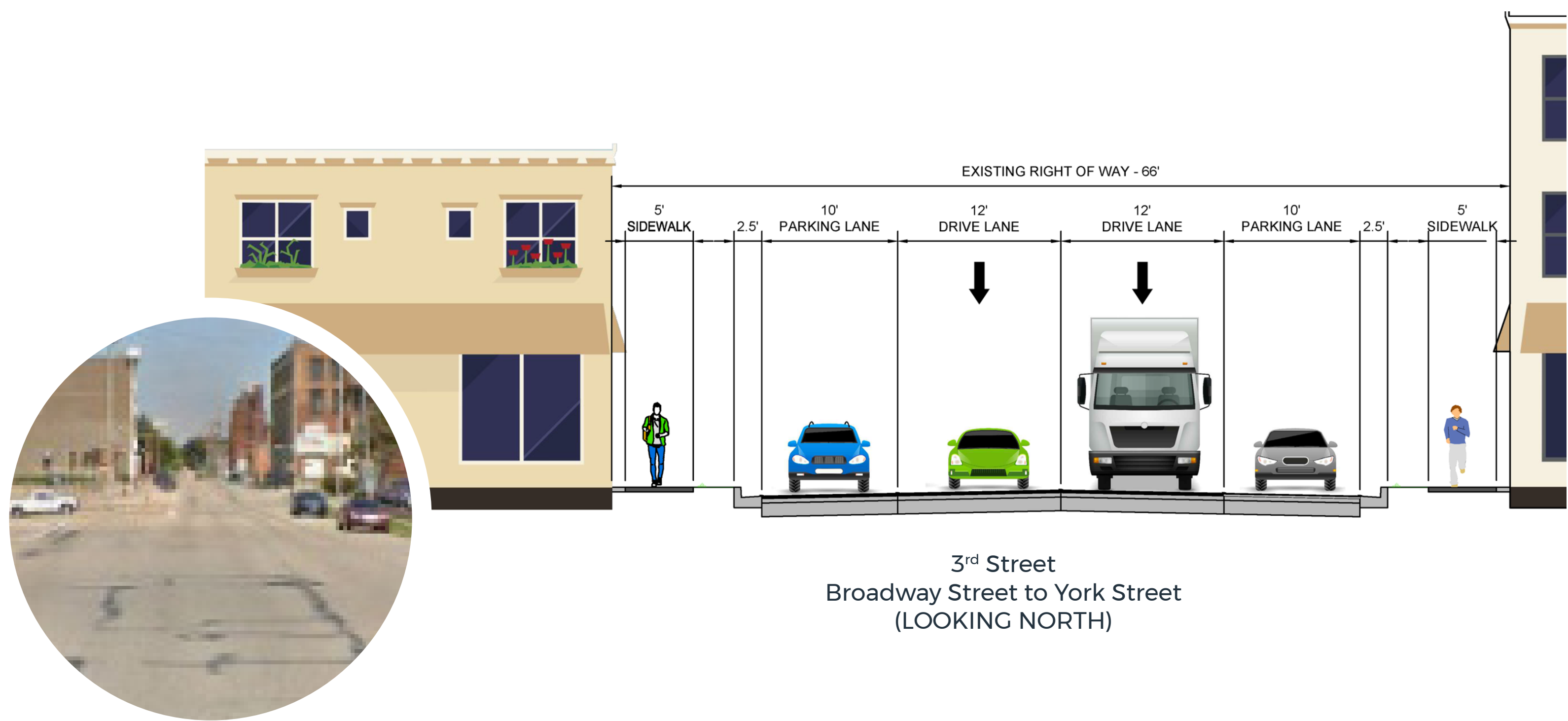
Traffic Level of Service (LOS)

A





# EXISTING URBAN TYPICAL SECTIONS





**UPGRADE** existing conditions, maintenance along 3<sup>rd</sup> and 4<sup>th</sup> Streets:



Intersection  
improvements,  
if necessary



Improve  
sidewalks



ADA ramps/  
crosswalks



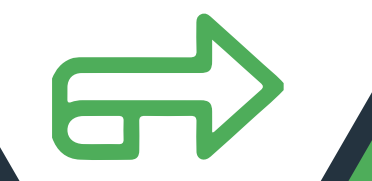
Resurface



# URBAN ALTERNATIVE - U-2

BROADWAY TO PAYSON AVENUE

CARRIED FORWARD



## DECOUPLE

3<sup>rd</sup> & 4<sup>th</sup> Streets,  
extend to  
Locust Street

*\* Currently decoupling ends at  
Broadway Street. Additional study  
will confirm viability of extending  
decoupling to Locust Street.*

## SIGNALIZE

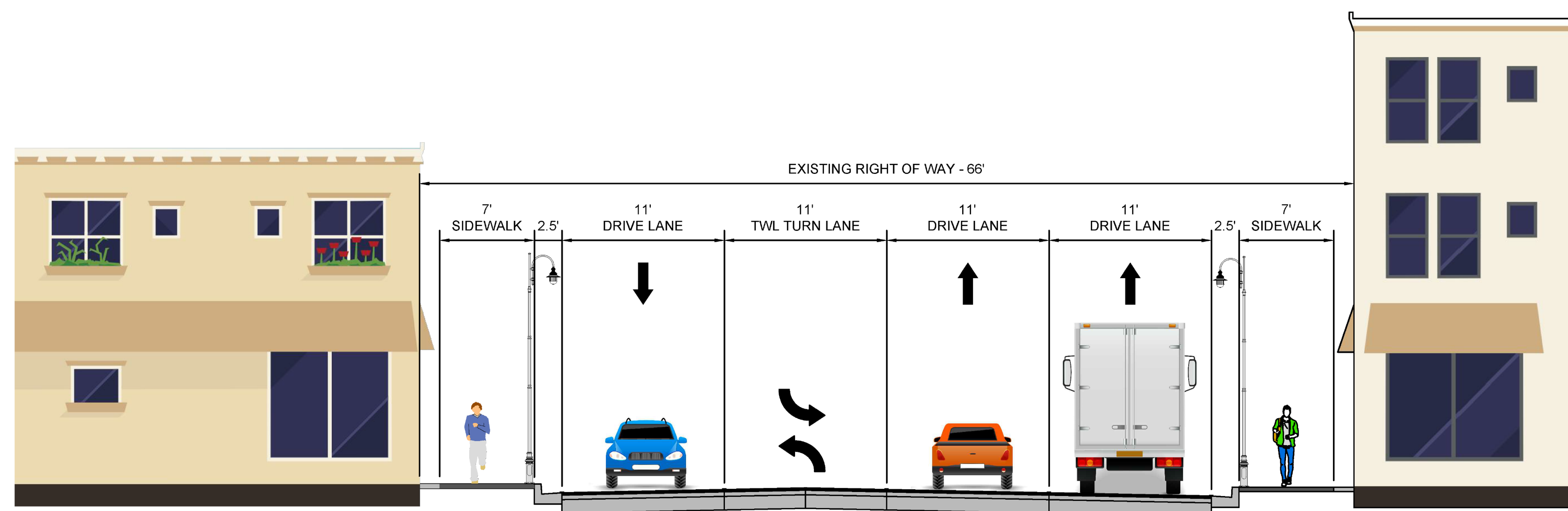
York Street  
& 3<sup>rd</sup> Street  
intersection

## IMPROVE

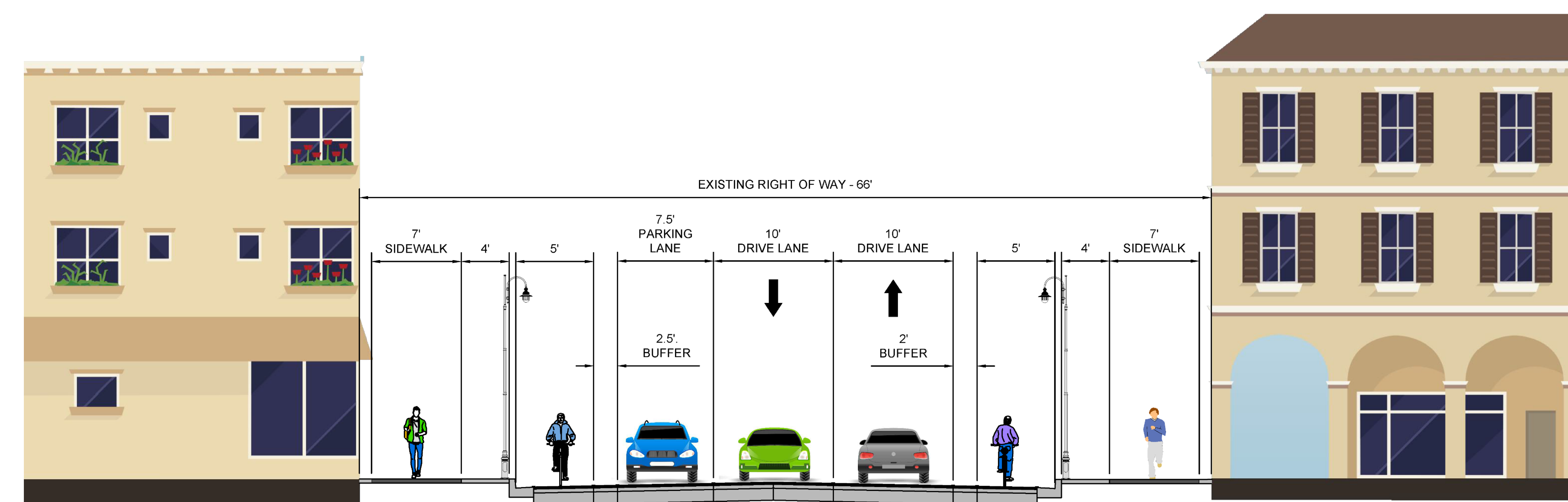
York Street  
& 4<sup>th</sup> Street  
intersection

3<sup>rd</sup> Street south of York Street  
2 lanes in each direction  
(Striped median / 2-way left turn lane)

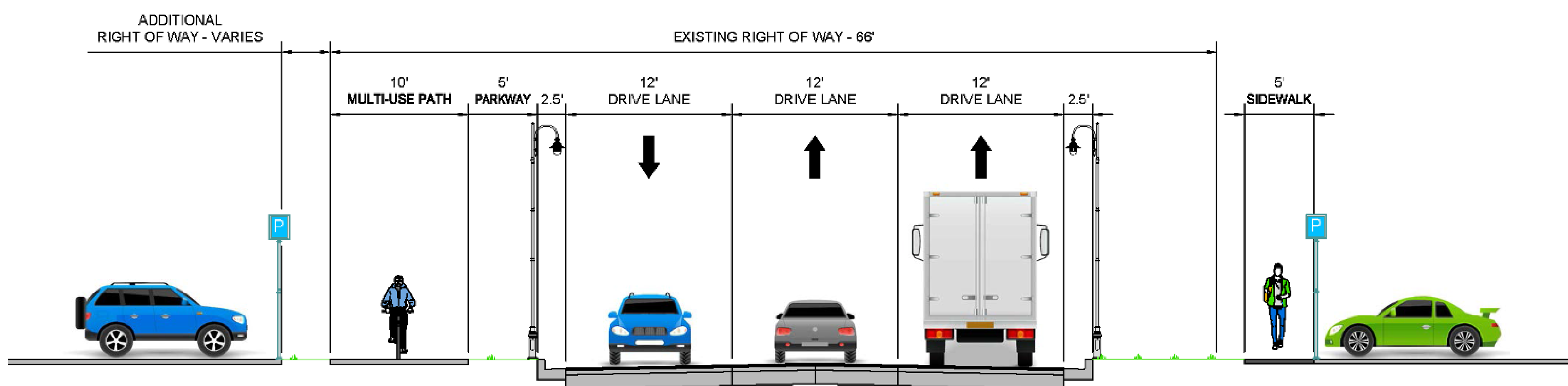
Curb and gutter,  
3' buffer,  
5' sidewalk



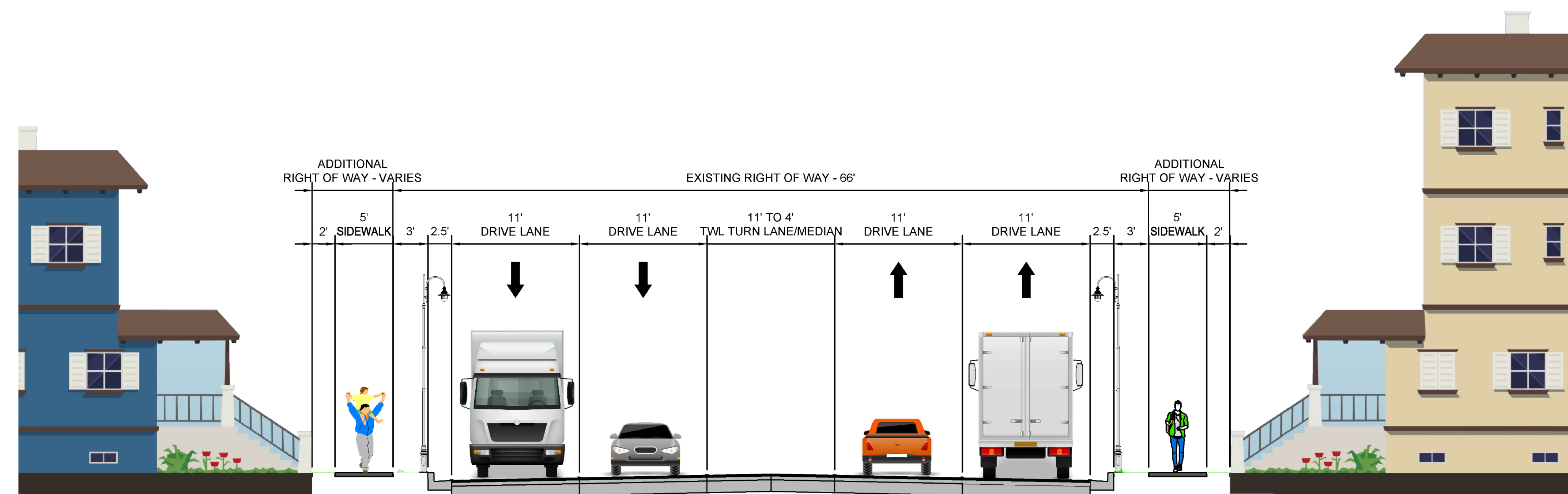
3<sup>rd</sup> Street  
Broadway Street to York Street  
(Looking North)



4<sup>th</sup> Street  
Broadway Street to York Street  
(Looking North)



York Street  
3<sup>rd</sup> Street to 4<sup>th</sup> Street  
(Looking East)



3<sup>rd</sup> Street  
York Street to Payson Avenue  
(Looking North)



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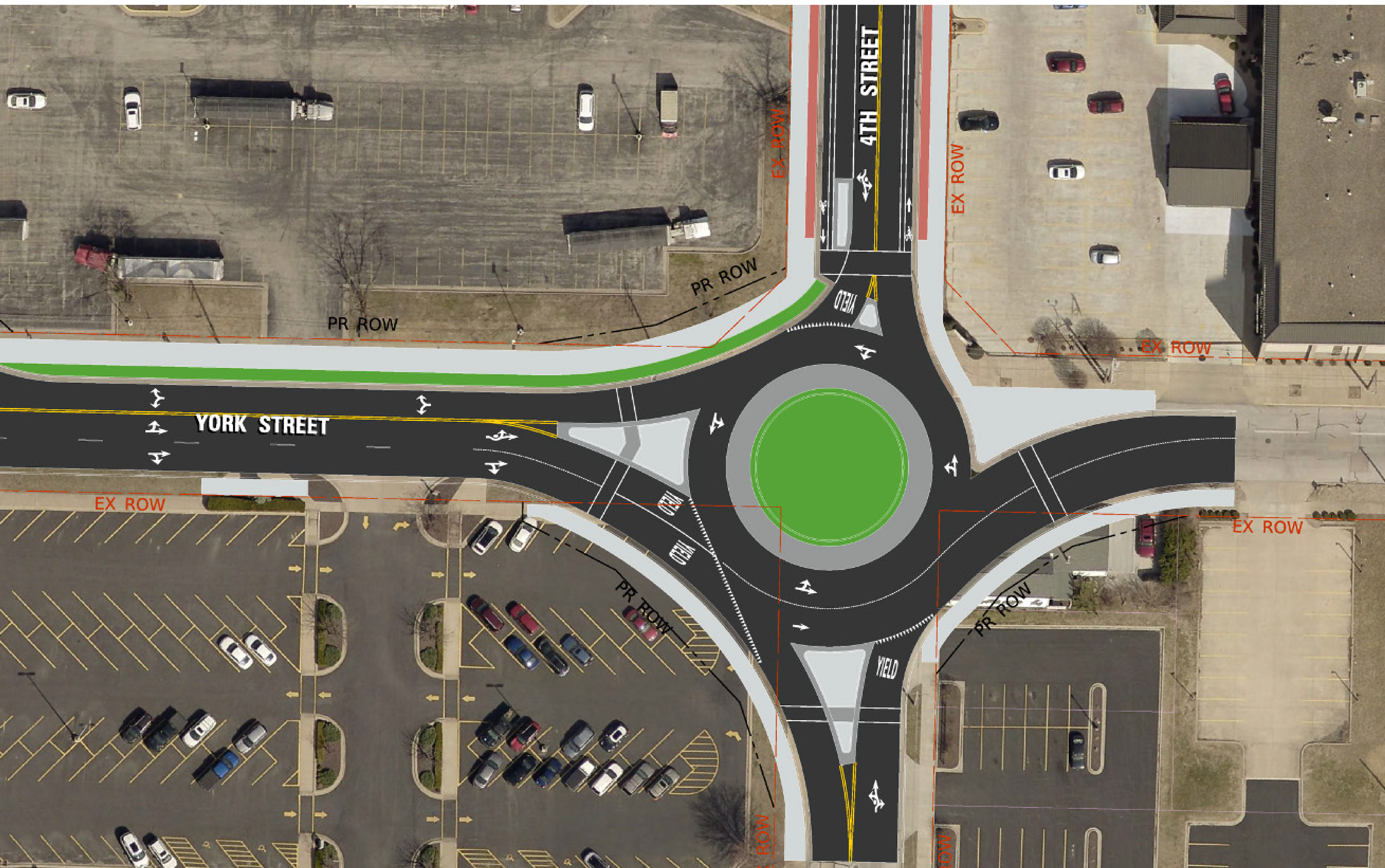
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# URBAN ALTERNATIVE - U-2A

BROADWAY TO PAYSON AVENUE

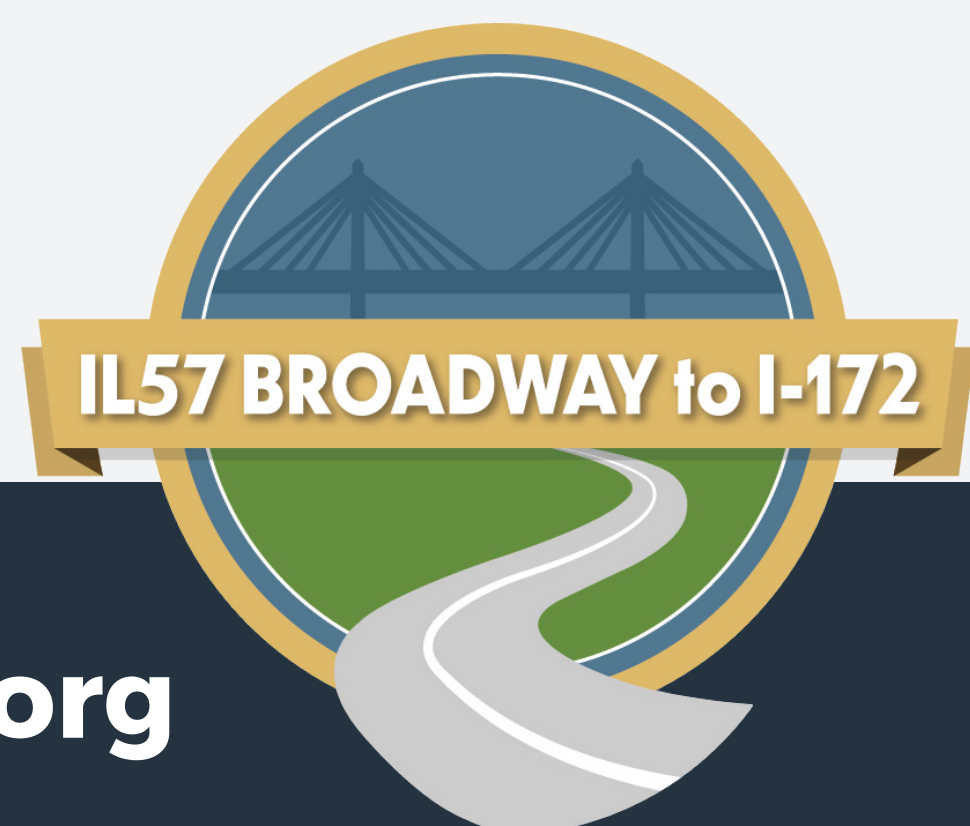


**SAME  
AS U-2**  
except with  
feasibility  
analysis for  
roundabout  
at York  
and 4<sup>th</sup>



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# DETAILED SCREENING/RESULTS - URBAN

Engineering, Traffic, And Safety Screening Criteria	U-1 Upgrade Existing	U-2 Decouple 3 <sup>rd</sup> & 4 <sup>th</sup> St Extend to Locust St	U-2A Round-About at 4 <sup>th</sup> & York
New ROW required (acres)	0.0	0.9	1.1
Length of Improvements, in lane miles	3.7	5.0	5.0
Estimated Initial Construction Cost	\$1,500,000	\$5,500,000	\$6,000,000
Payson Avenue Bridge Widening (square feet)	0	5,240	5,240
Provides Increase in Road Capacity (Yes/No)	No	Yes	Yes
Improves Mobility (Yes/No)	Yes	Yes	Yes
Crash Reduction / Safety Improvement (Yes/No)	Yes	Yes	Yes
Meets Policy for Access Control (Yes/No)	Yes	Yes	Yes
Meets Design Speed Requirements (Yes/No)	Yes	Yes	Yes
Socioeconomic and Environmental Constraints Screening Criteria			
Area of cropland (acres)	0	0	0
Area of prime/important farmland soils (acres)	0	0	0
Located in environmental justice population (Yes/No)	Yes	Yes	Yes
Residential building impacts	0	0	0
Possible residential building impacts	0	3	3
Commercial building impacts	0	1	2
Possible commercial building impacts	0	0	1
Possible parking location impacts	0	5	7
Parallel parking stall removal - on street (each)	0	61	62
Parking lot stall removal (each)	0	51	60
Forested landcover (acres)	0	0	0
NWI Wetland (acres)	0	0	0
Number of new stream crossings	0	0	0
100-year floodplain (acres)	0	0	0
Number of recorded archaeological sites	0	0	0
Carried Forward	Yes	Yes	No
Justification	Improves ride quality and traffic flow; no ROW; lowest cost	Improves mobility, safety, ride quality	Improves mobility, safety, and ride quality but not appreciably better than U-2; greater ROW impact than U-2



# EXISTING CONDITIONS

## SUBURBAN/INDUSTRIAL (Payson Avenue to 24<sup>th</sup> Street)

**Approximately 4.8 miles**, surrounded by industrial/commercial.

**Two lanes in each direction** to Lock and Dam Road, one lane in each direction from Lock and Dam Road to 24<sup>th</sup> Street. Additional turn lanes at 8<sup>th</sup> Street and Radio Road intersections. Other segments bound by curb and gutter, paved or aggregate shoulders.

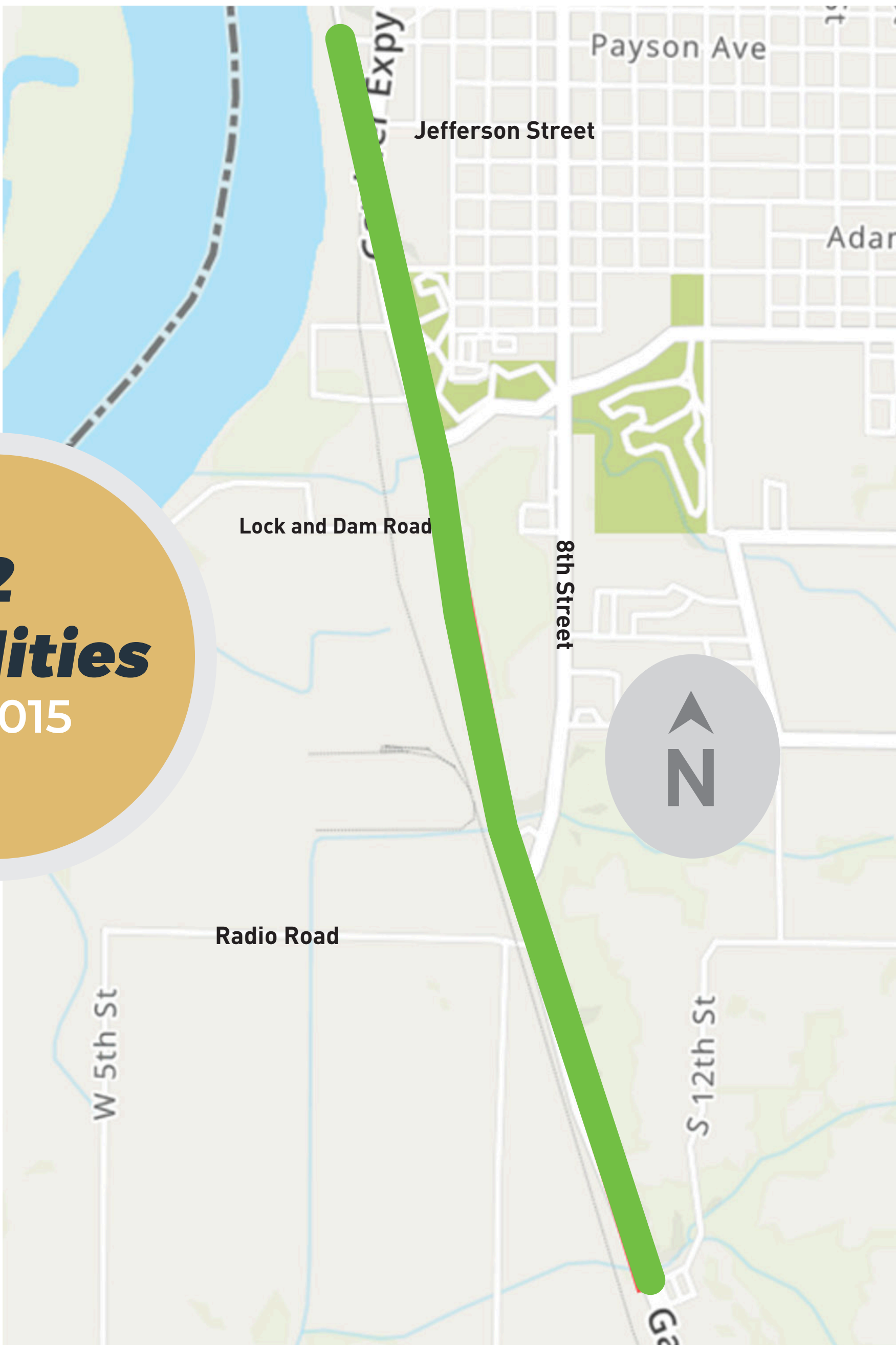
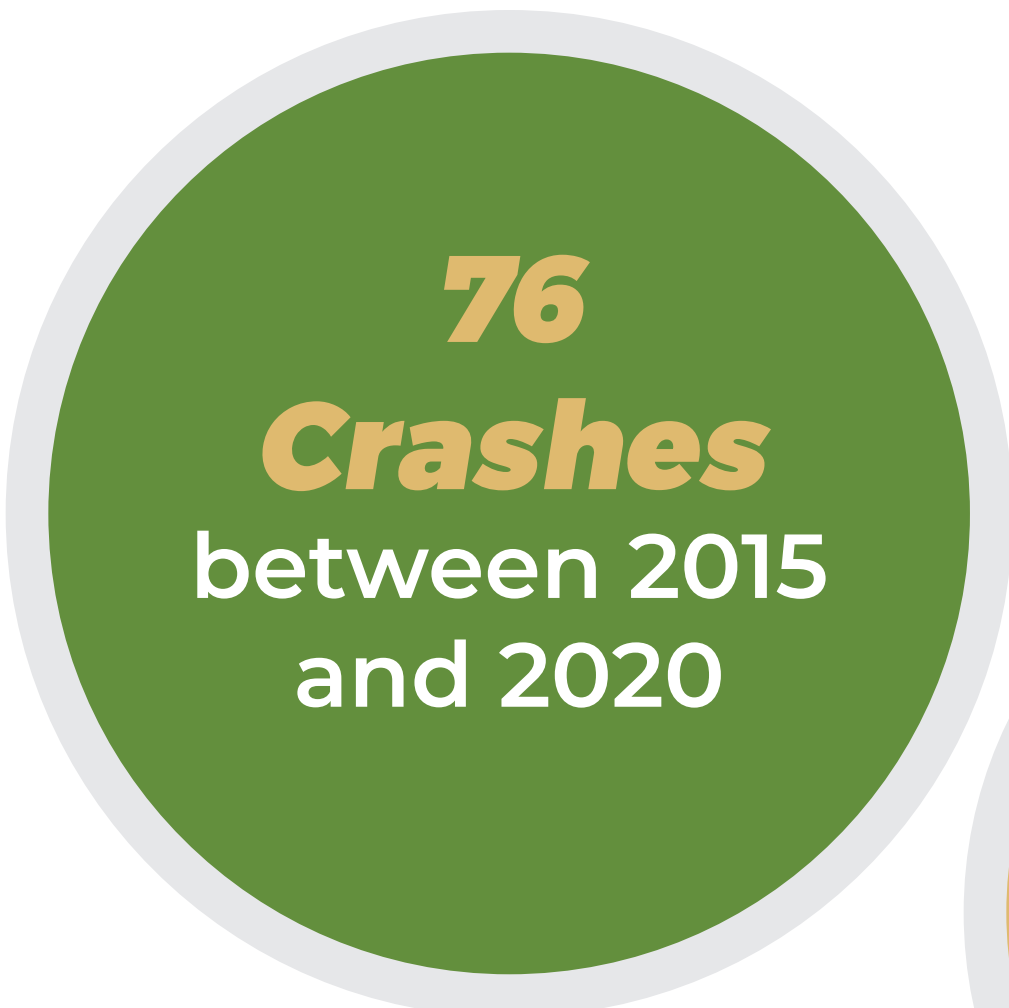
**Speed limit** varies between **40 and 45 mph**.

**No pedestrian accommodations** except at Gardner Denver entrance & RJ Peters Drive.

**Bicycle accommodations** from Jefferson Street to RJ Peters Drive & Lock and Dam Road to Radio Road.

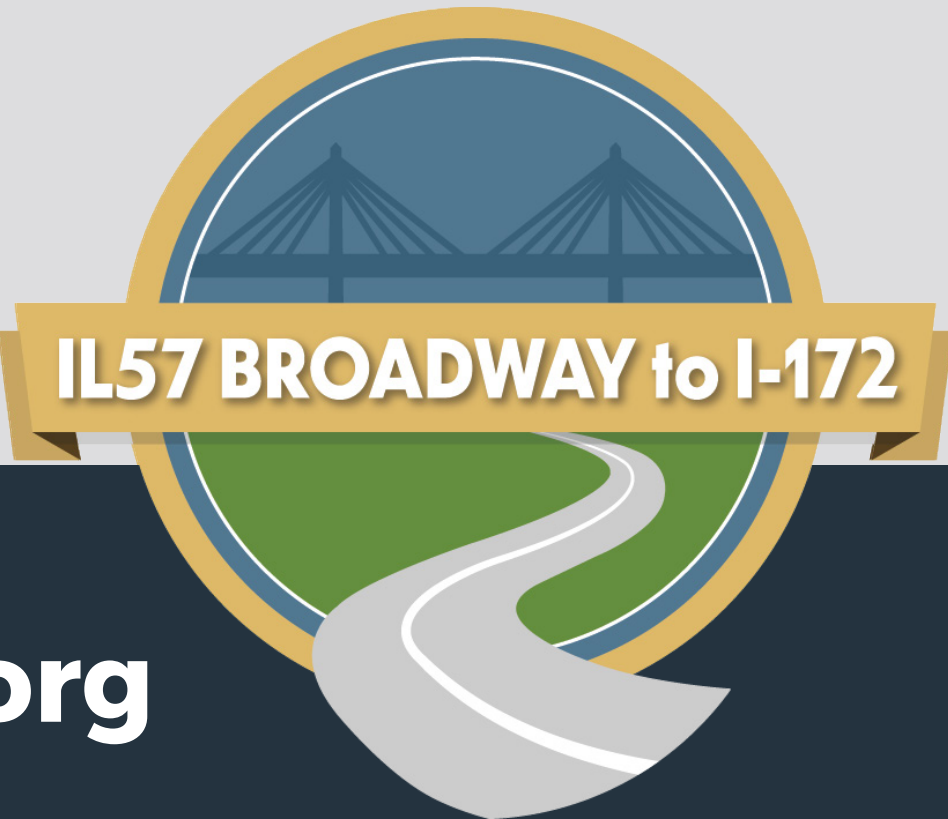
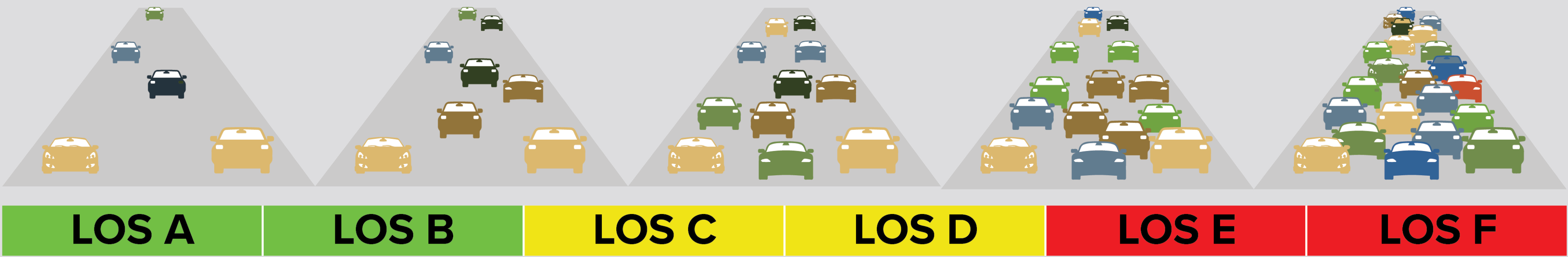
**Access to IL 57** controlled by stop signs, traffic signals at Jefferson Street, Radio Road and Gardner Denver entrance.

**Lighting at signalized intersections** and in front of Trinity Logistics Group.



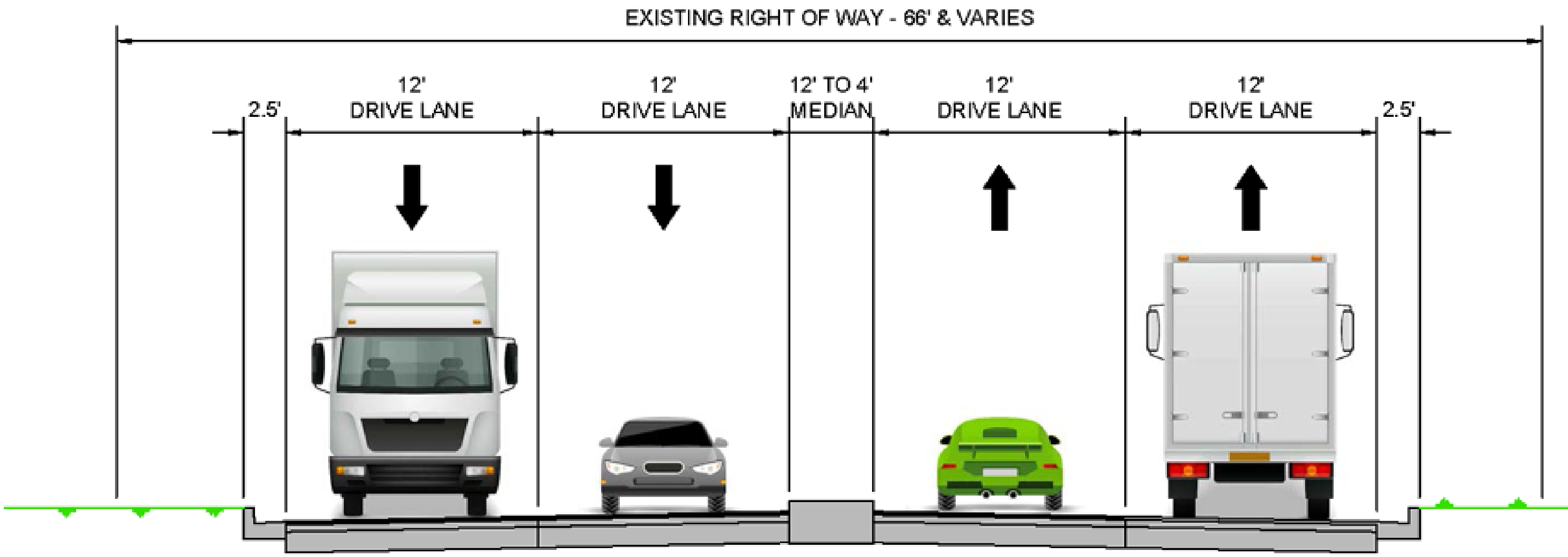
Traffic Level of  
Service (LOS)

**B**

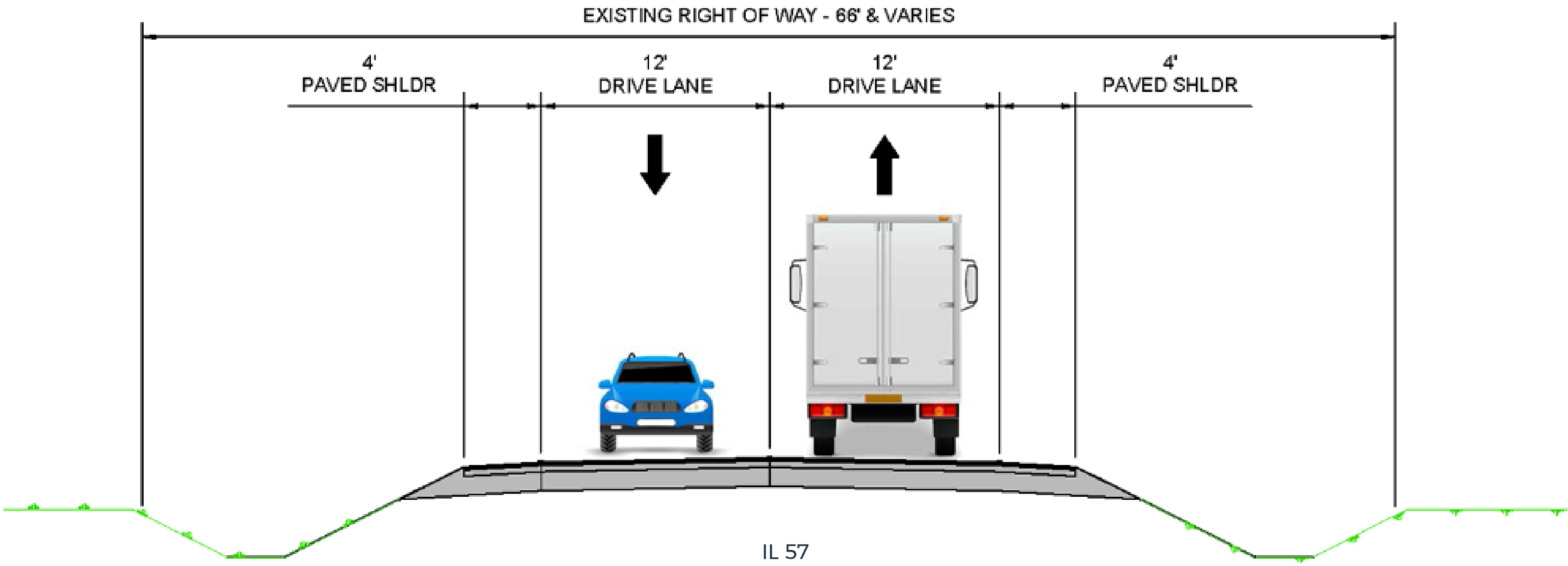




# EXISTING SUBURBAN/INDUSTRIAL TYPICAL SECTIONS



IL 57  
Payson Avenue to Lock and Dam Road  
(LOOKING NORTH)



IL 57  
Lock and Dam Road to 24<sup>th</sup> Street  
(LOOKING NORTH)





# SUBURBAN/INDUSTRIAL ALTERNATIVE S-1



PAYSON AVENUE TO 24<sup>TH</sup> STREET



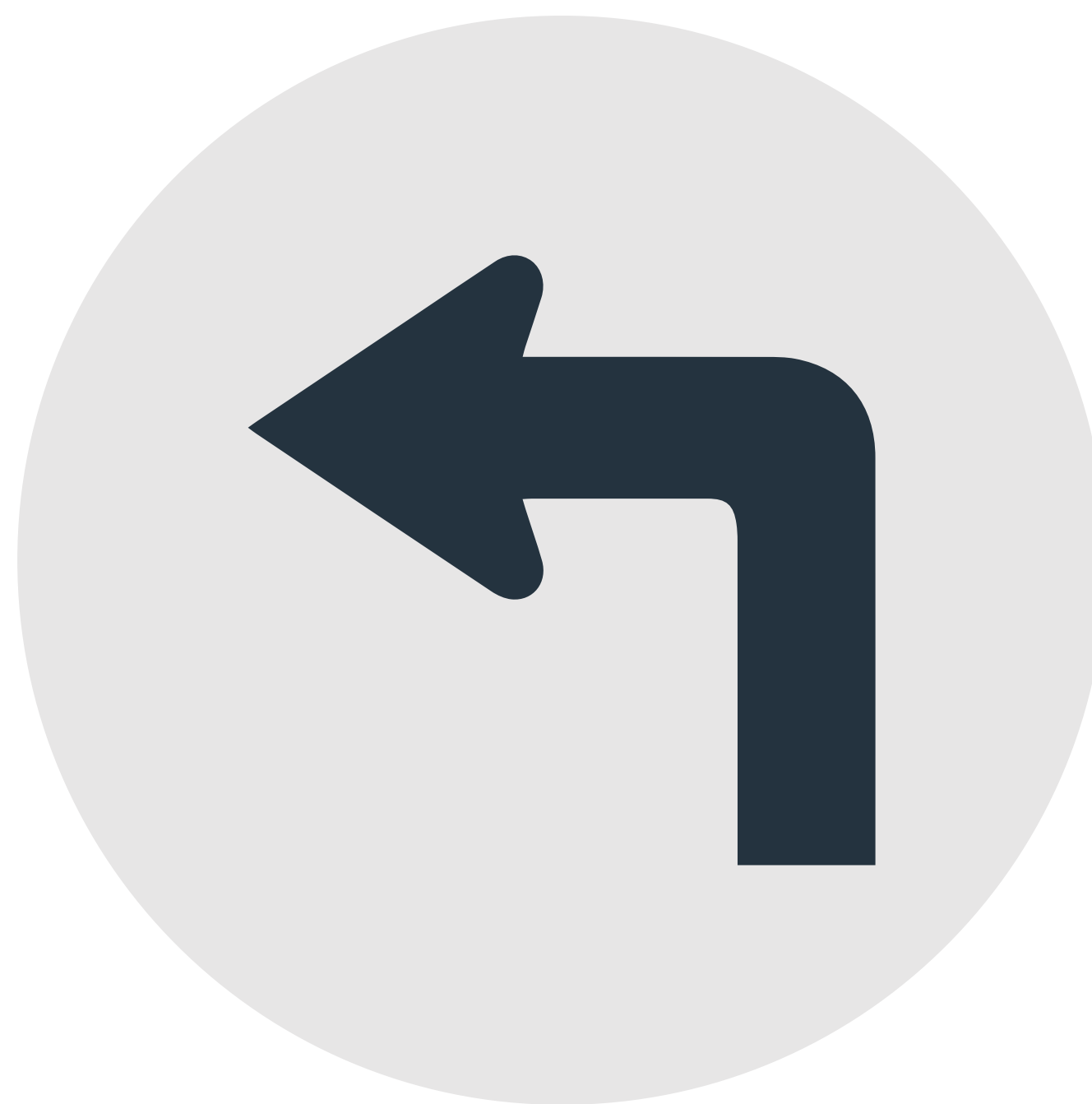
Upgrade existing conditions



4' raised median north of Lock and Dam Road



Add right turn lane at grain facility



Add left turn lane at Jackson Street and 12<sup>th</sup> Street





### 4 & 3-Lane Section

**Resurface** existing 4-lane configuration with narrow median to Lock and Dam Road

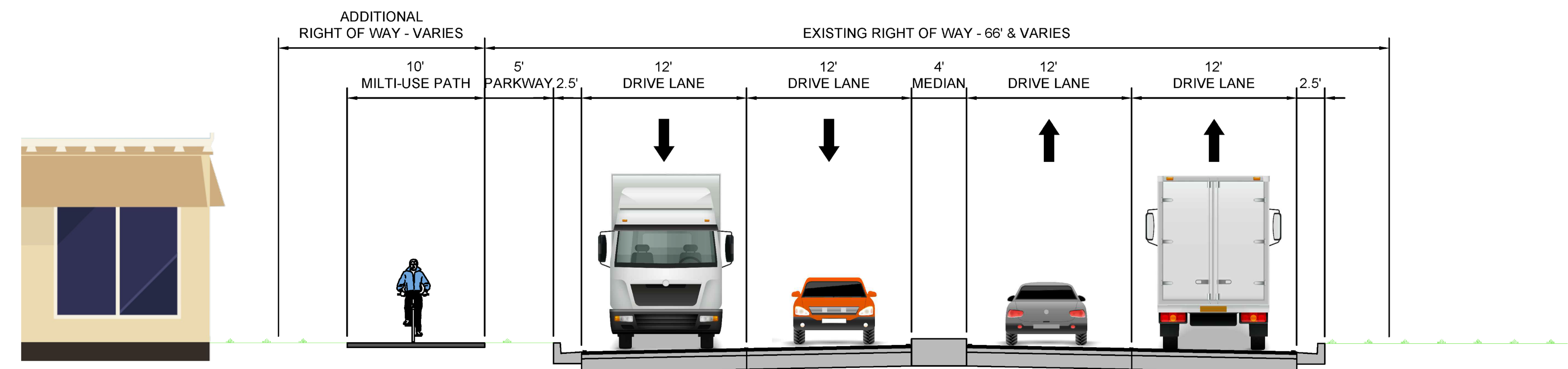
**New** 3-lane section to the south (one lane in each direction separated by a 12-foot 2-way left turn lane) to 24<sup>th</sup> Street

**New** left turn lane at Jackson Street

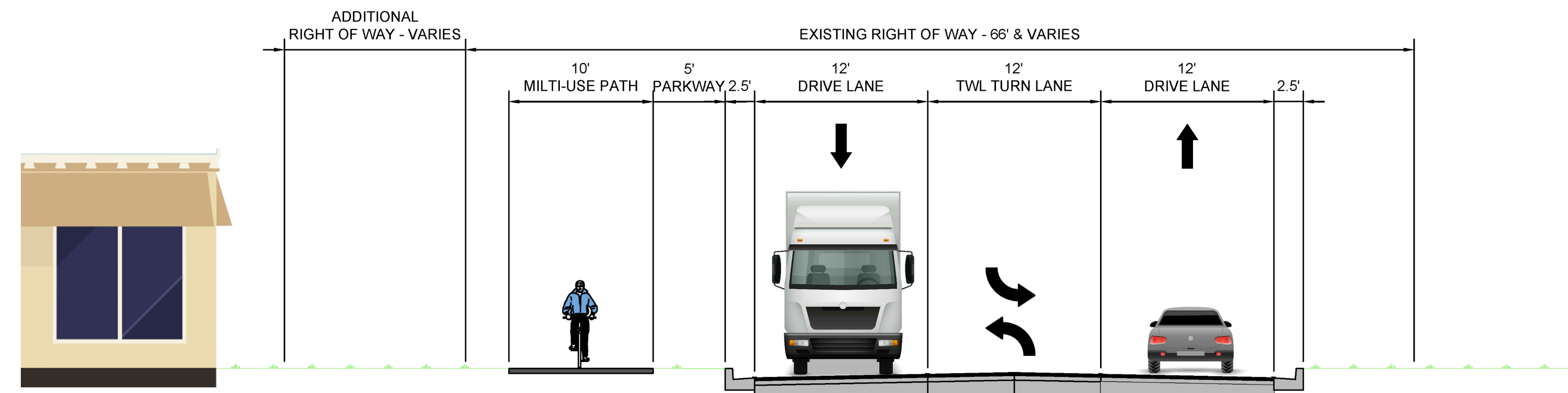
**Evaluate** pedestrian/bicycle accommodations

If warranted, a **multi-use path** along the west side ending at Radio Road

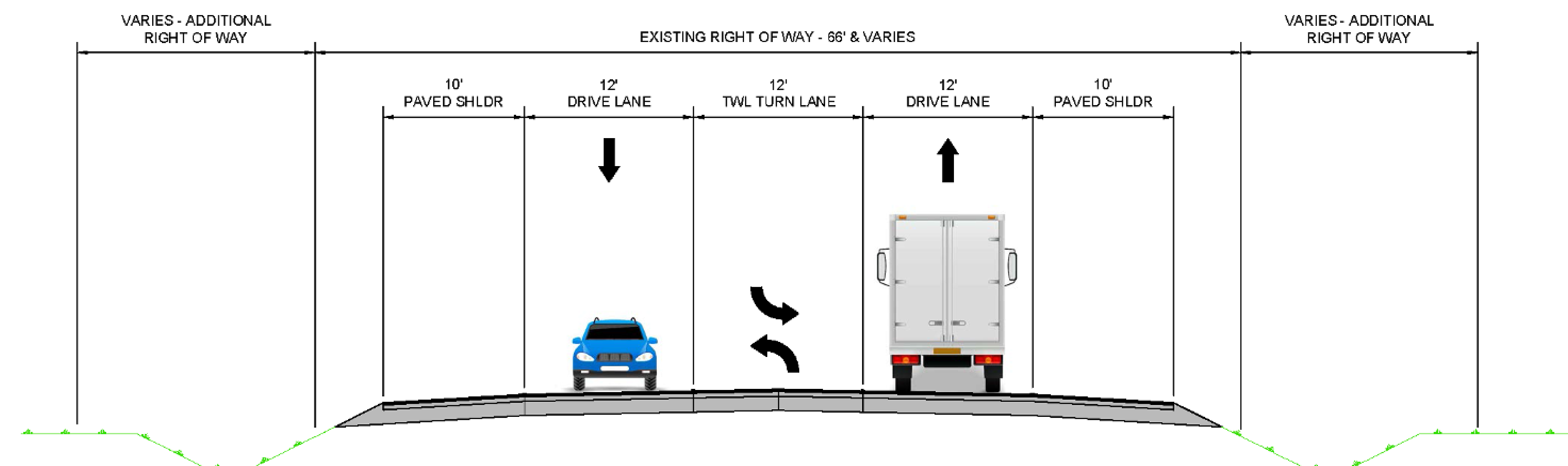
**Curb and gutter** installed along both edge of pavements to south of Radio Road, 10' paved shoulder further south



Payson Avenue to South of Lock & Dam Road (Looking North)



South of Lock & Dam Road to Radio Road (Looking North)



South of Radio Road to 24<sup>th</sup> Street (Looking North)



## 4-Lane Section

**Resurface** existing 4-lane configuration with a narrow median north of Lock and Dam Road

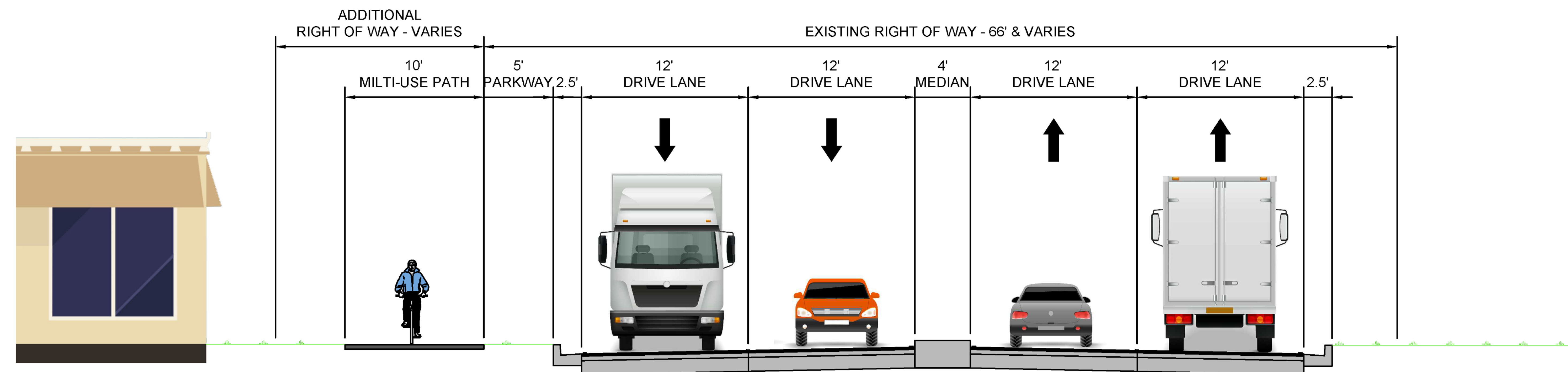
**New** 4-lane section to the south (2 lanes in each direction separated by a 4' raised/painted median)

**New** left turn lane at Jackson Street

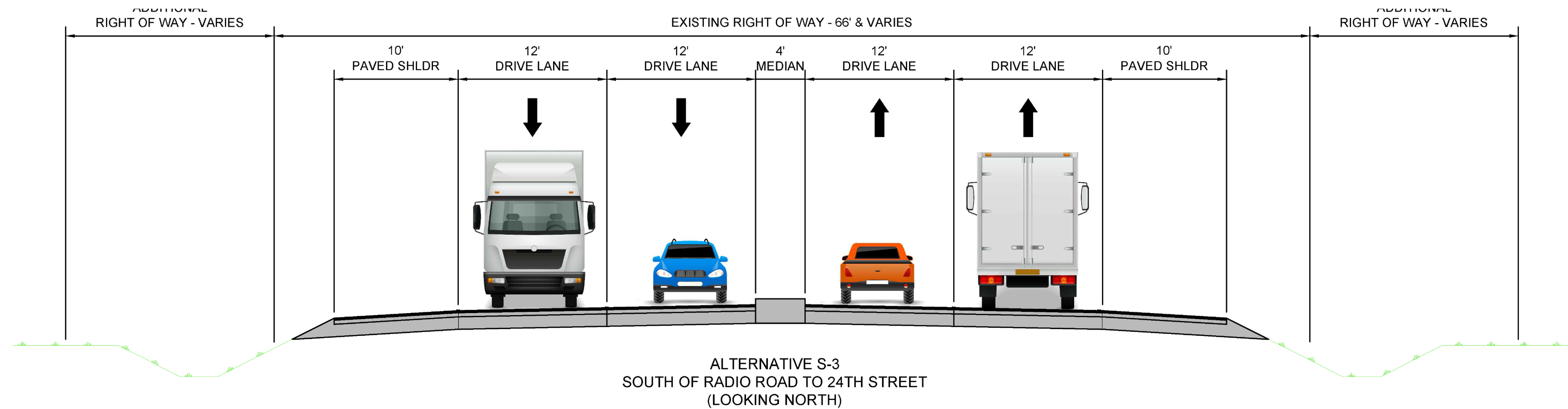
**Curb and gutter** installed to south of Radio Road

**Multi-use path** or a grass shelf for a future multi-use path along the west

South of Radio Road to 24<sup>th</sup> Street - 10' **paved shoulders** along the outside



Payson Avenue to South of Radio Road  
(Looking North)



Payson Avenue to South of Radio Road  
(Looking North)



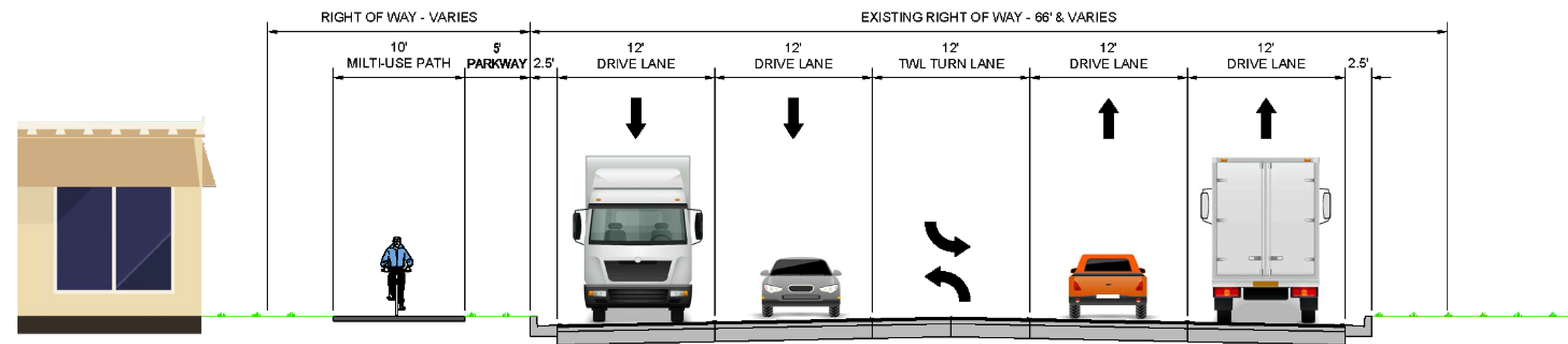
## 5 & 3-Lane Section

**2 lanes in each direction** separated by a 12-foot 2-way left turn lane south of Radio Road

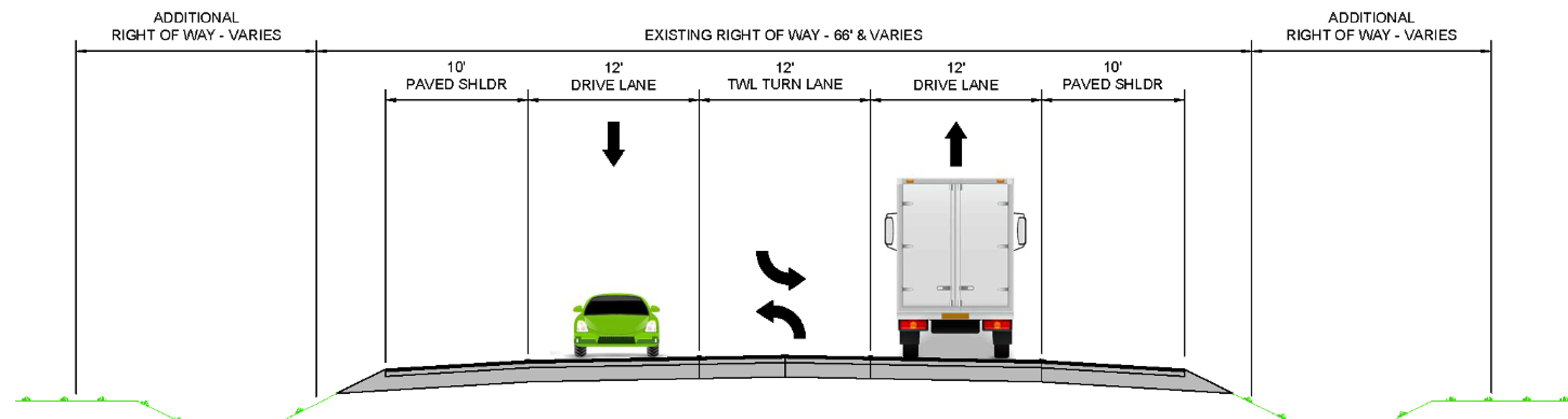
**Curb and gutter** along both EOPs from the urban section to south of Radio Road

**Multi-use path** or a grass shelf for a future multi-use path along the west side ending at Radio Road

South of Radio Road to 24<sup>th</sup> Street includes 1 lane in each direction separated by a TWLTL, and a 10' paved shoulder along each side



Alternative S-4  
Payson Avenue to South of Radio Road  
(Looking North)



Alternative S-4  
South of Radio Road to 24<sup>th</sup> Street  
(Looking North)



# DETAILED SCREENING/RESULTS - SUBURBAN/INDUSTRIAL

Engineering, Traffic, And Safety Screening Criteria	S-1 Upgrade Existing	S-2 4 & 3-Lane Section	S-3 4-Lane Section	S-4 5 & 3-Lane Section
New ROW required (acres)	0.6	4.6	8.9	6.1
Length of Improvements, in lane miles	11.7	15.0	17.9	19.2
Estimated Initial Construction Cost	\$7,000,000	\$17,500,000	\$25,000,000	\$23,500,000
Area of New Bridges (square feet)	6,838	10,855	12,693	11,290
Provides Increase in Road Capacity (Yes/No)	No	Yes	Yes	Yes
Projected Level of Service	C	A	A	A
Improves Mobility (Yes/No)	Yes	Yes	Yes	Yes
Projected Density	5.3 (followers/mi)	0.6 (followers/mi)	6.7 (pc/mi/ln)	6.7 (pc/mi/ln)
Crash Reduction/Safety Improvement (Yes/No)	Yes	Yes	Yes	Yes
Meets Policy for Access Control (Yes/No)	Yes	Yes	Yes	Yes
Meets Design Speed Requirements (Yes/No)	Yes	Yes	Yes	Yes
Socioeconomic and Environmental Constraints Screening Criteria				
Area of cropland (acres)	0.04	0.7	1.3	0.7
Area of prime/important farmland soils (acres)	0.3	3.2	5.7	3.2
Located in environmental justice population (Yes/No)	Yes	Yes	Yes	Yes
Residential building impacts	0	0	2	0
Possible residential building impacts	0	6	6	6
Commercial building impacts	0	0	2	2
Possible commercial building impacts	0	3	5	4
Possible parking location impacts	1	4	6	4
Parking lot stall removal (each)	0	25	39	25
Forested landcover (acres)	0.1	0.3	0.3	3.2
NWI Wetland (acres)	0	0	0.02	0
Number of new stream crossings	0	0	0	0
100-year floodplain (acres)	0.1	0.3	0.3	0.1
Number of recorded archaeological sites	0	1	1	1
Carried Forward	Yes	Yes	No	No
Justification	Least ROW required; lowest cost; adding turn lanes improves safety; lower impacts to buildings and resources	Second lowest ROW and lower impacts to buildings and resources than S-3 and S-4; second lowest cost; TWLT enhances safety and improves mobility	Significantly more ROW and impacts to properties and natural resources than S-1 and S-2; highest cost; impacts and cost outweigh added capacity not warranted by traffic projections	Significantly more ROW and impacts to properties and natural resources than S-1 and S-2; second highest cost; impacts and cost outweigh the added capacity not warranted by traffic projections



# EXISTING CONDITIONS

## RURAL (24<sup>th</sup> Street to I-172 Interchange)

**6.5 miles** with industrial and residential developments at the north end, and agricultural land to the south.

**2 lane roadway** with multiple entrances.

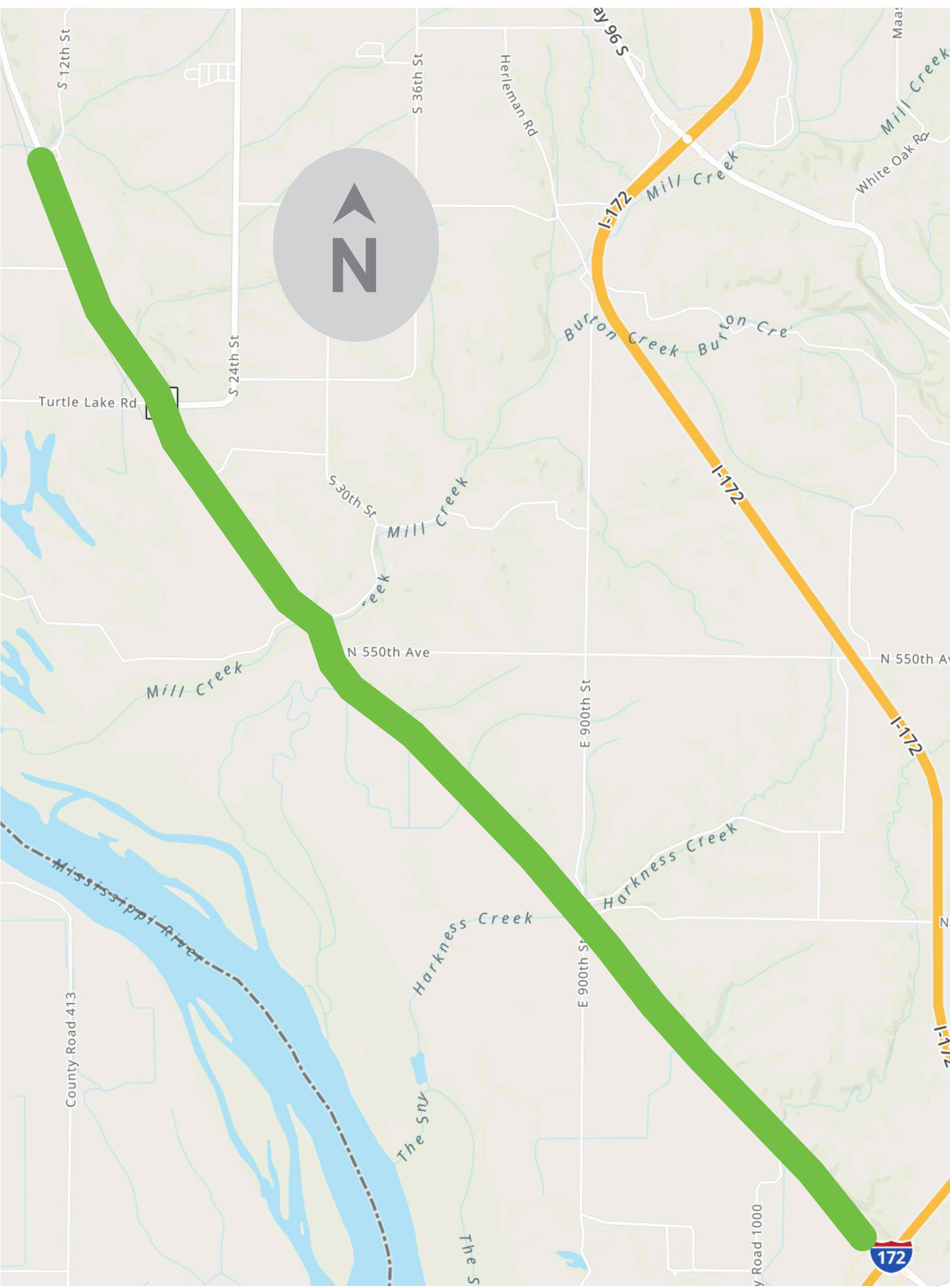
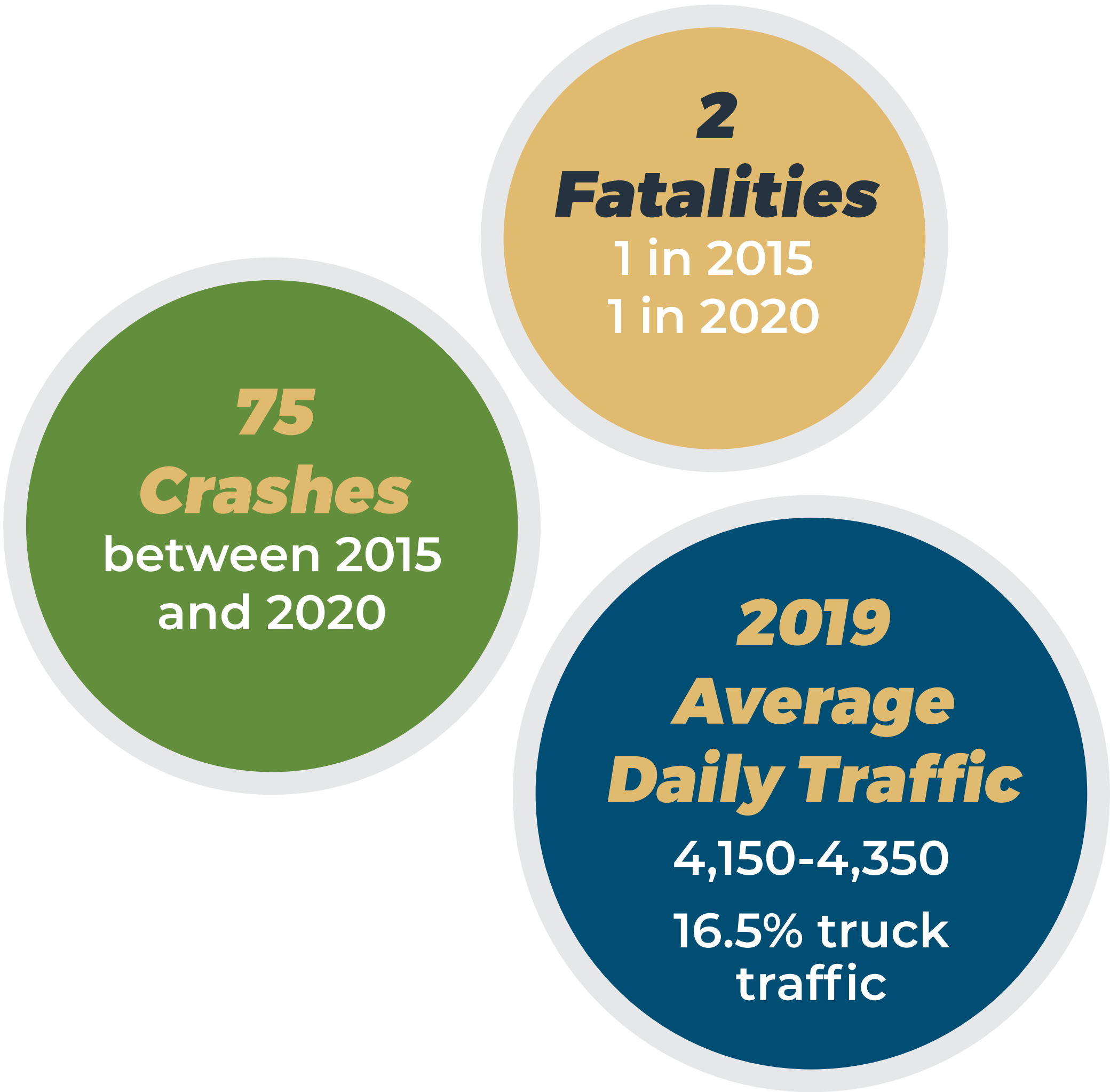
**Speed limit** varies between **30 - 55 mph**.

**Access to IL 57** controlled by stop signs.

**No pedestrian or bicycle accommodations.**

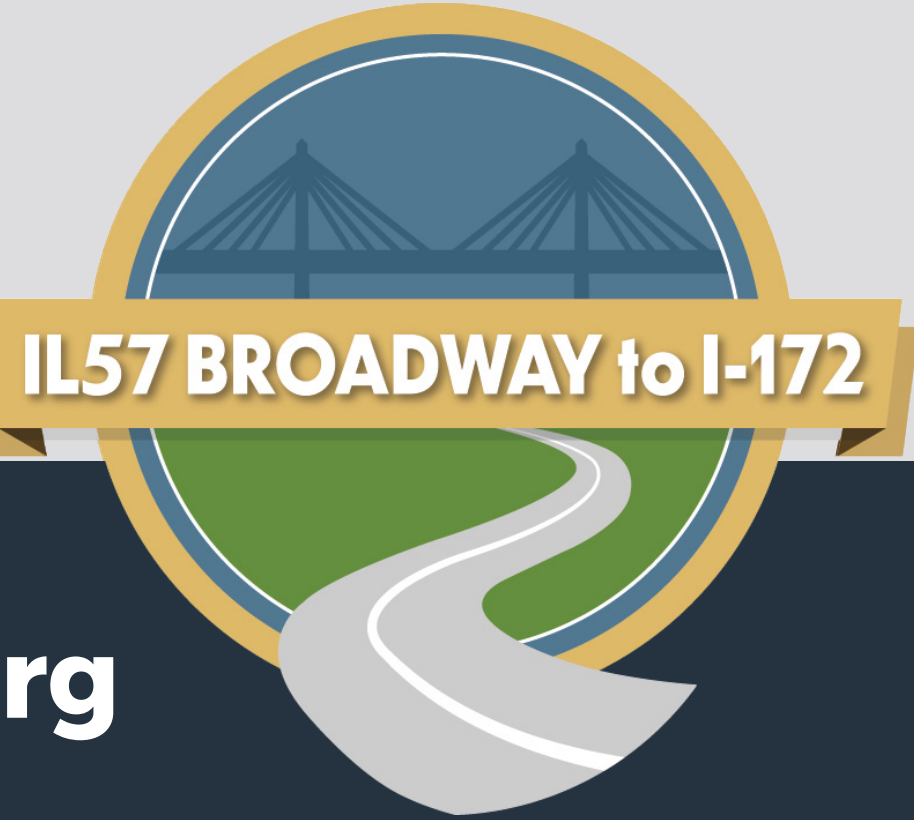
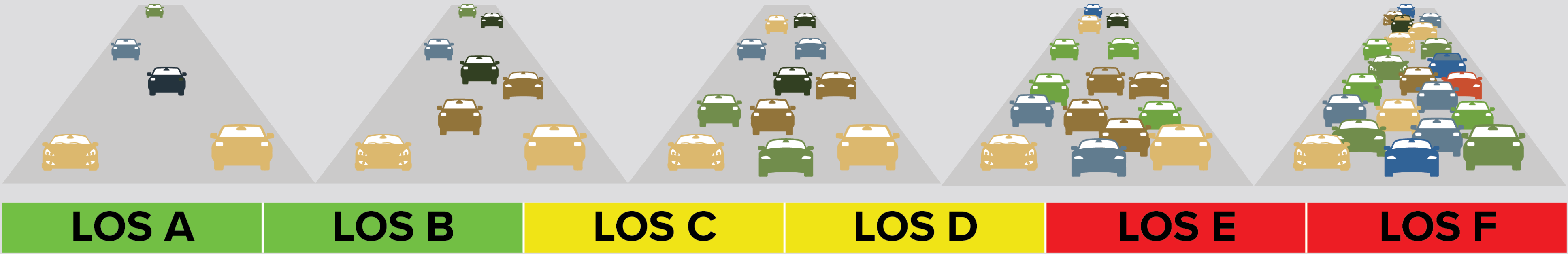
**No lighting.**

**38%** of the section is **no passing** zones.



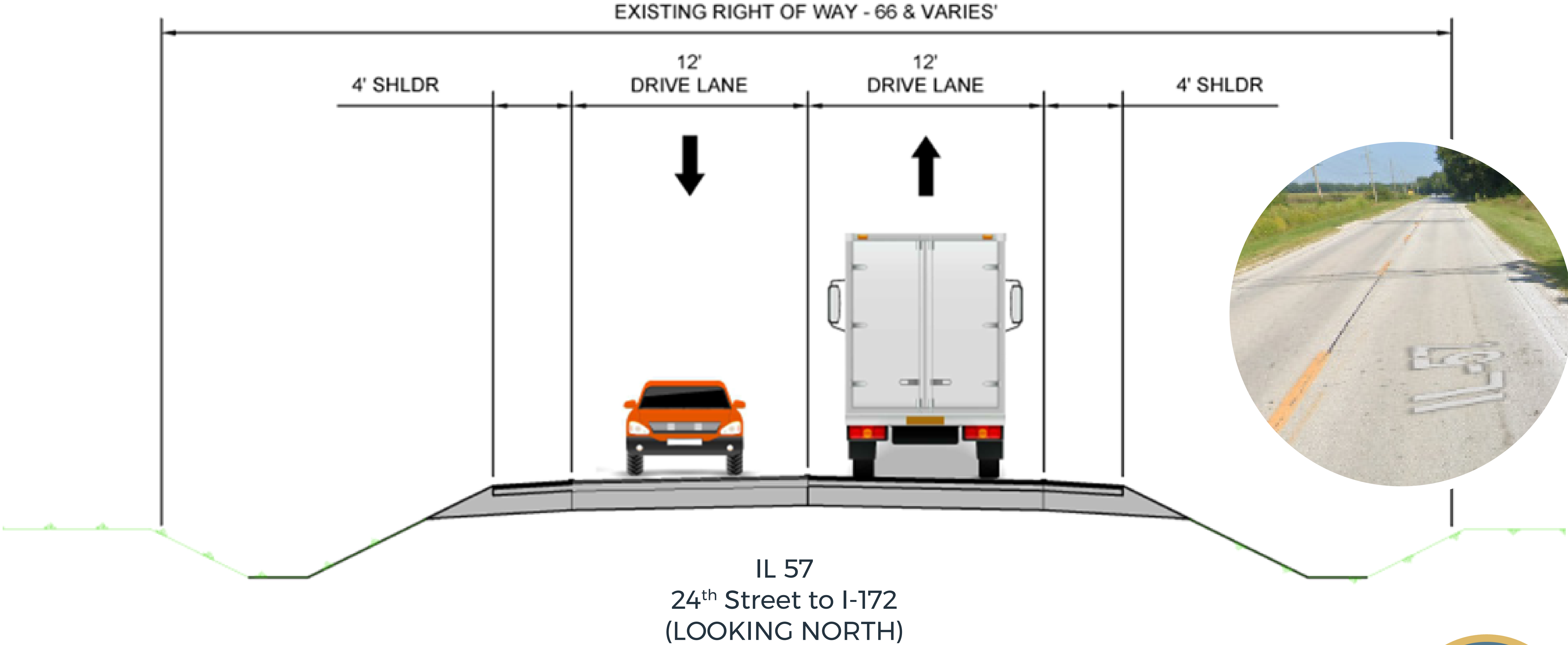
Traffic Level of Service (LOS)

A





# EXISTING RURAL TYPICAL SECTIONS





### R-1. Improved 2-Lanes (one lane in each direction)

Maintain the existing lane configuration and do **local improvements**

- Resurfacing
- Shoulder improvements
- Fix flooding issues

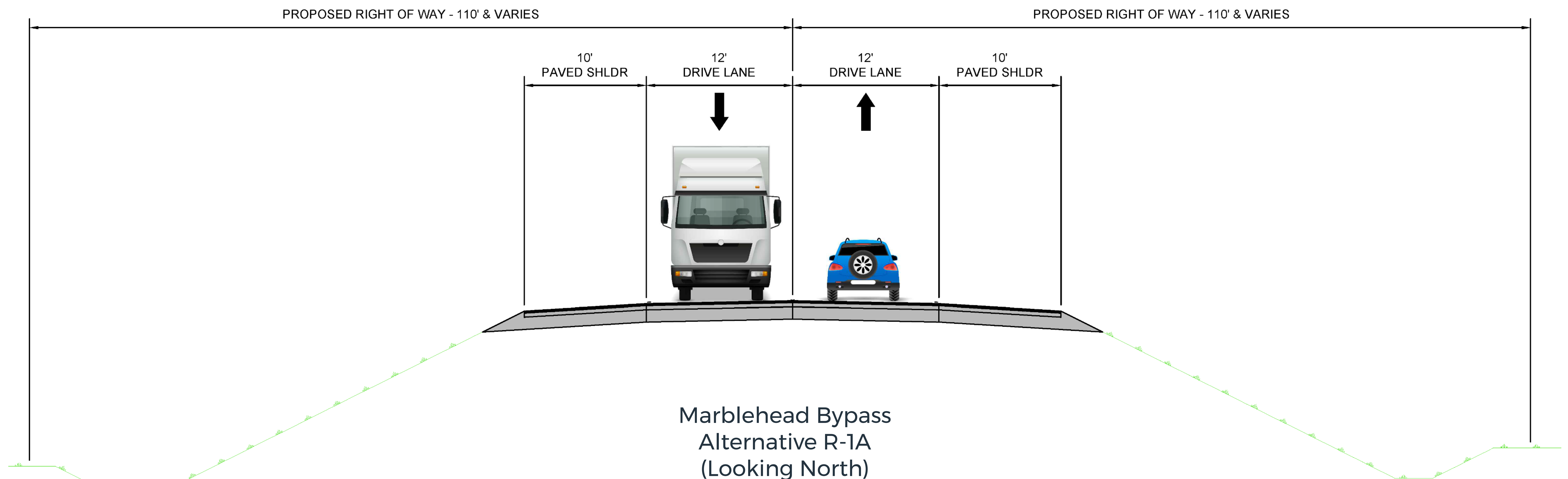
**Add** left turn lanes at:

- 24<sup>th</sup> Street
- E. 900<sup>th</sup> Street

### R-1A. Improved 2-Lanes (one lane in each direction)

Same as R-1 with

- **Marblehead Bypass** to the west





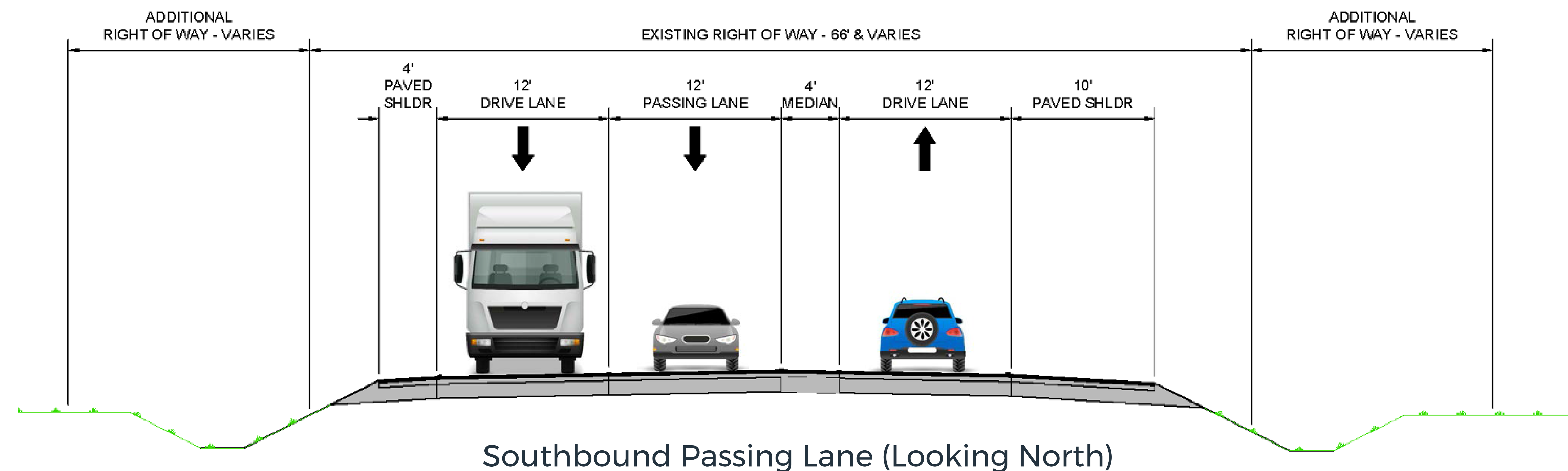
### Super 2

**1-lane** in each direction separated by an intermittent 16' center lane, with paved outside shoulders vary from 10' to 4'

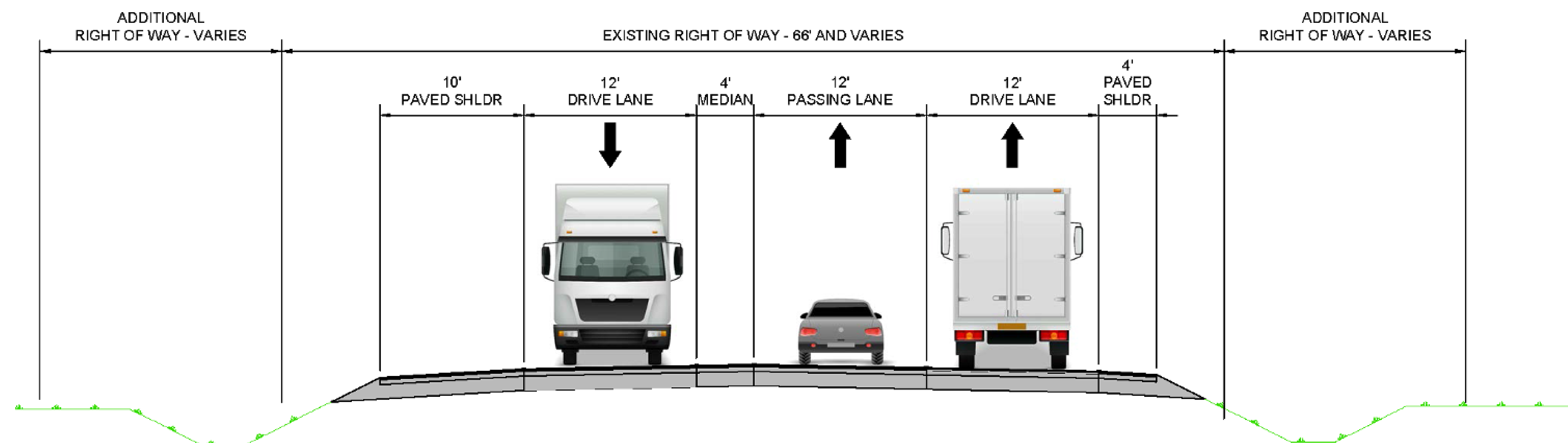
**Center lane** will alternate as a passing lane for both directions

Necessary modifications to **fix geometry/ flooding issues**

**Marblehead bypass**  
(to the west)



Southbound Passing Lane (Looking North)



Northbound Passing Lane (Looking North)





### New 4-Lane Road

IL 57 would be a **new 4-lane expressway**

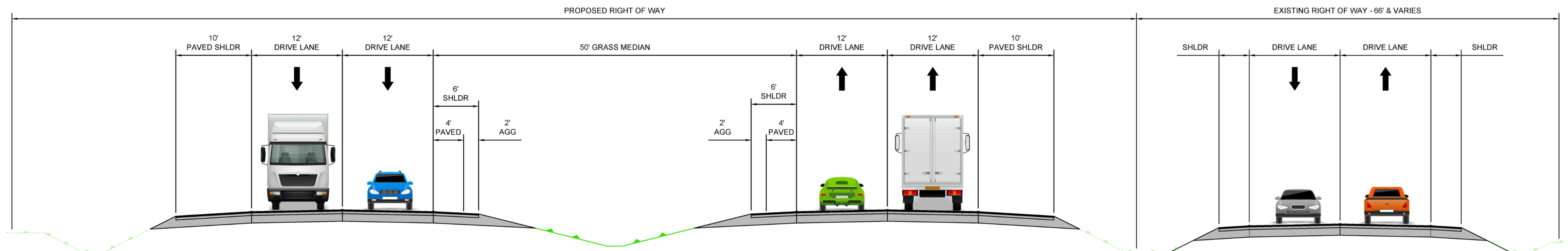
**2 lanes** in each direction separated by a 50' grass median

**Marblehead Bypass** (to the west)

Existing IL 57 becomes a **frontage road**

Alternative requires I-172/IL 57 **interchange reconfiguration**

Meets access control requirements



Alternative R-3A  
(Looking North)

Existing IL 57  
(Looking North)



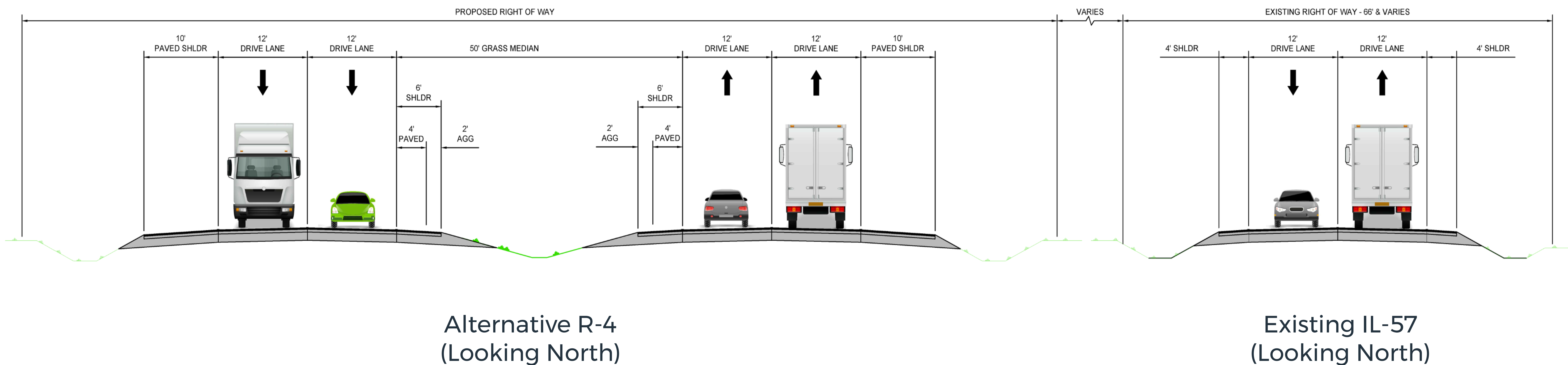
### New 4-Lane to the West

**2 lanes** in each direction separated by a 50' grass median

Existing IL 57 becomes a **frontage road**

Located west of existing IL 57 including a **Marblehead Bypass** to the west

Alternative requires I-172/IL 57 **interchange reconfiguration**





# DETAILED SCREENING/RESULTS - RURAL

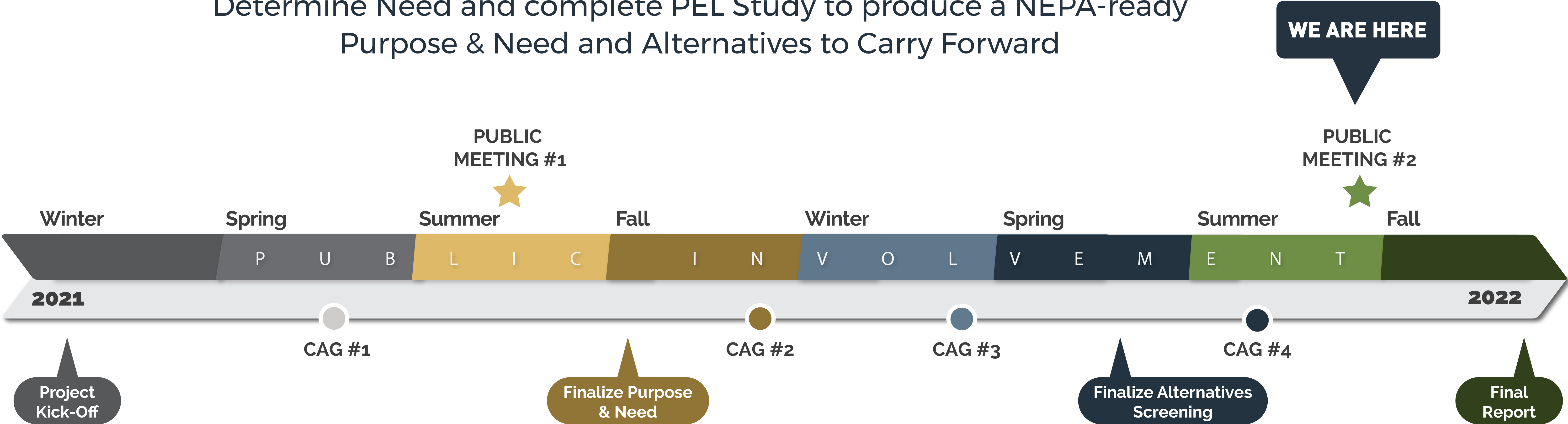
Engineering, Traffic, And Safety Screening Criteria	R-1 Upgrade Existing	R-1A Bypass	R-2 Super 2	R-3A New 4-Lane	R-4 New 4-Lane to West
New ROW required (acres)	1.8	25.3	70.5	165.2	211.9
Length of Improvements, in lane miles	13.1	15.2	19.7	27.7	28.2
Estimated Initial Construction Cost	\$7,000,000	\$20,500,000	\$51,500,000	\$87,000,000	\$91,500,000
Area of New Bridges (square feet)	3,549	23,116	35,501	62,772	79,567
Provides Increase in Road Capacity (Yes/No)	No	No	Yes	Yes	Yes
Projected Level of Service	A	A	A	A	A
Improves Mobility (Yes/No)	Yes	Yes	Yes	Yes	Yes
Projected Density	1.8 (followers/mi)	1.8 (followers/mi)	0.3 (followers/mi)	2.9 (pc/mi/ln)	2.9 (pc/mi/ln)
Crash Reduction/Safety Improvement (Yes/No)	Yes	Yes	Yes	Yes	Yes
Meets Policy for Access Control (Yes/No)	Yes	Yes	Yes	Yes	Yes
Meets Design Speed Requirements (Yes/No)	No	Yes	Yes	Yes	Yes
Miles of no passing zones due to lack of passing sight distance	2.1 (NB) 1.9 (SB)	1.9 (NB) 1.5 (SB)	0	0	0
Socioeconomic and Environmental Constraints Screening Criteria					
Area of cropland (acres)	0.9	12.4	42.2	116.4	185.6
Area of prime/important farmland soils (acres)	1.8	25.3	70.3	164.8	198.4
Located in environmental justice population (Yes/No)	No	No	No	No	No
Residential building impacts	0	0	4	16	0
Possible residential building impacts	0	1	1	2	0
Commercial building impacts	0	0	0	3	0
Possible commercial building impacts	0	0	0	1	1
Possible parking location impacts	0	0	1	2	1
Parking lot stall removal (each)	0	0	10	22	12
Forested landcover (acres)	0	5.5	5.5	9.6	16.4
NWI Wetland (acres)	0	0.7	0.7	1	12.1
Number of new stream crossings	0	2	2	4	10
100-year floodplain (acres)	0.2	17.0	25.1	42.7	66.6
Number of recorded archaeological sites	0	5	5	10	0
Carried Forward	Yes	Yes	Yes	No	No
Justification	Some safety and mobility improvements; minimal ROW; minimal impacts; lowest cost	Some safety and mobility improvements; second lowest ROW; impacts and cost	Enhanced mobility and safety improvements; provides access control	Significantly more ROW and impacts to buildings and natural resources than R-1 and R-2; added capacity not warranted by traffic projections	Significantly more ROW and impacts to natural resources than all other alternatives; added capacity not warranted by traffic projections



# STUDY SCHEDULE

## Planning and Environment Linkages (PEL)

Determine Need and complete PEL Study to produce a NEPA-ready Purpose & Need and Alternatives to Carry Forward





# ALTERNATIVES SUMMARY



## Alternatives to Carry Forward

### URBAN

**U-1** Upgrade existing

**U-2** Decouple 3<sup>rd</sup> & 4<sup>th</sup> Street, extend to Locust St.

### SUBURBAN / INDUSTRIAL

**S-1** Upgrade existing

**S-2** 4 & 3-lane section

### RURAL

**R-1** Upgrade existing

**R-1A** Upgrade with Marblehead Bypass

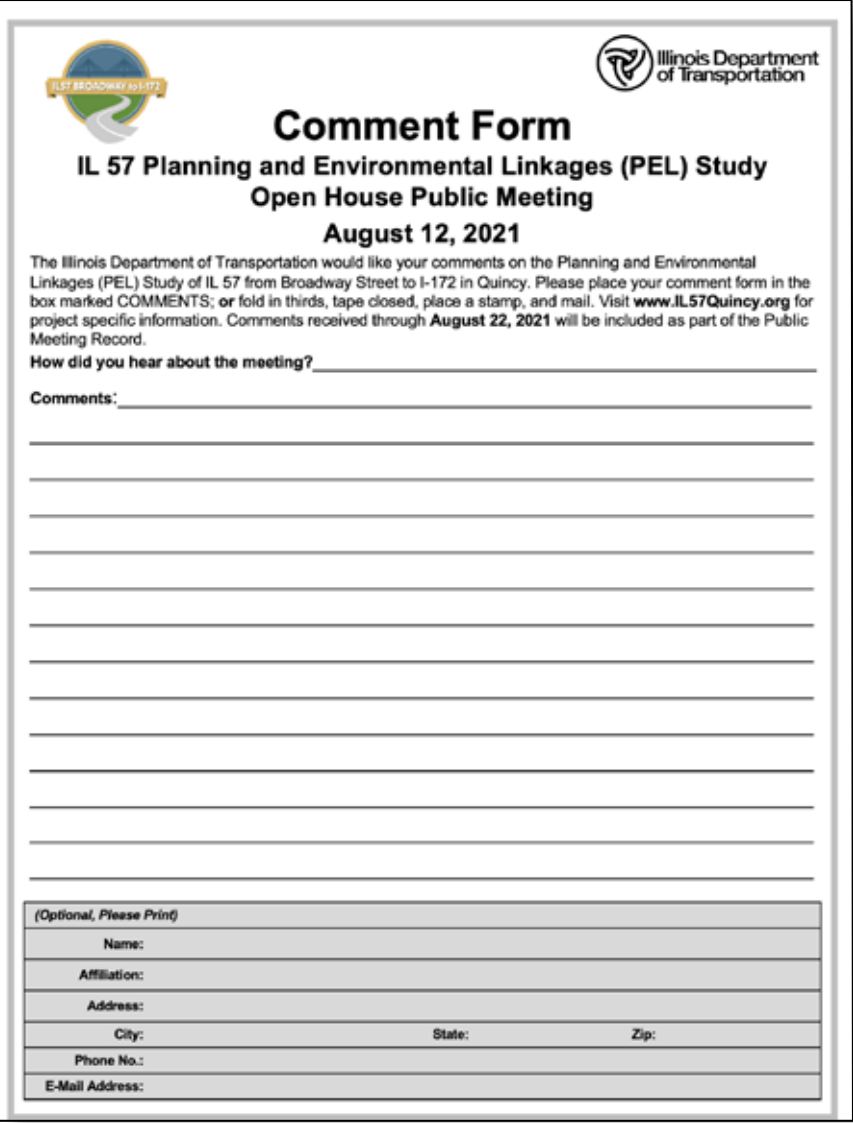
**R-2** Super 2



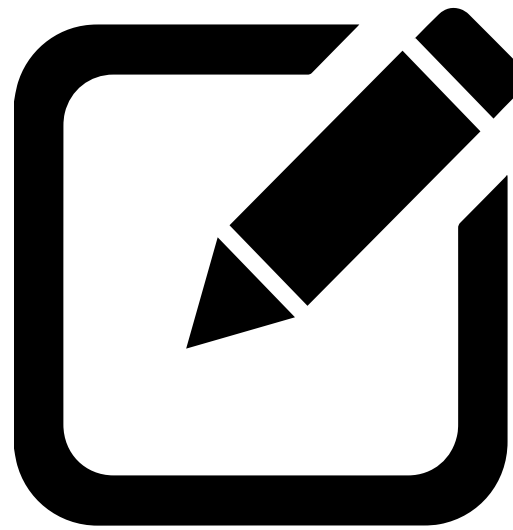


# COMMENTS

**YOUR IDEAS AND CONCERNS  
ARE IMPORTANT TO US.**  
**Please submit a comment:**

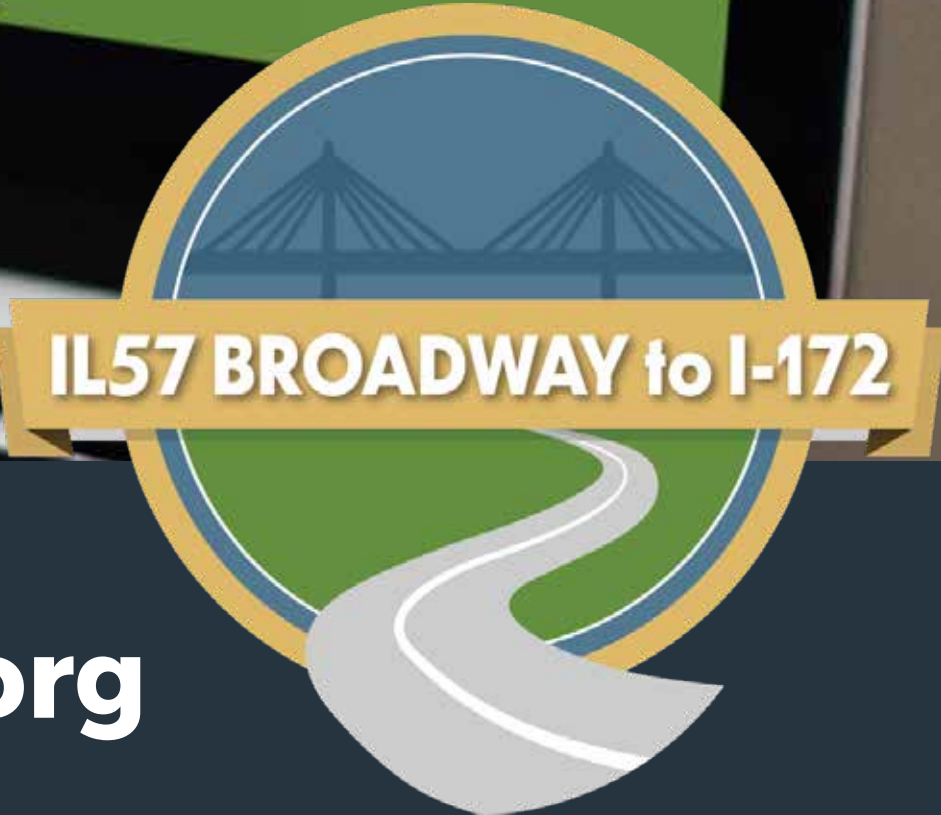


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**Illinois Department of Transportation**  
**District 6 Attention Jon Kelley**  
**126 East Ash Street**  
**Springfield, IL 62704**

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**[www.IL57Quincy.org](http://www.IL57Quincy.org)**







**IL57 BROADWAY to I-172**

**THANK YOU**



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