

# City of Saint Charles

2025 SITE EXPO



# Upcoming Projects

1. **Friedens & Fairgrounds Signalization**
2. **Fox Hill Road Rehabilitation**
3. **Main Street Extension**
4. **Southpointe Development**
5. **Frenchtown Great Streets**
6. **Regency Parkway**
7. **Duchesne Drive Reconstruction**
8. **Muegge Road Reconstruction**
9. **South 2<sup>nd</sup> Street**
10. **First Capital Corridor Plan**
11. **Boone's Lick Road Reconstruction**

# Friedens & Fairgrounds Signalization



## Project Location

Friedens Road at Fairgrounds Road



*Friedens Road at Fairgrounds Road looking northwest*

# Friedens & Fairgrounds Signalization

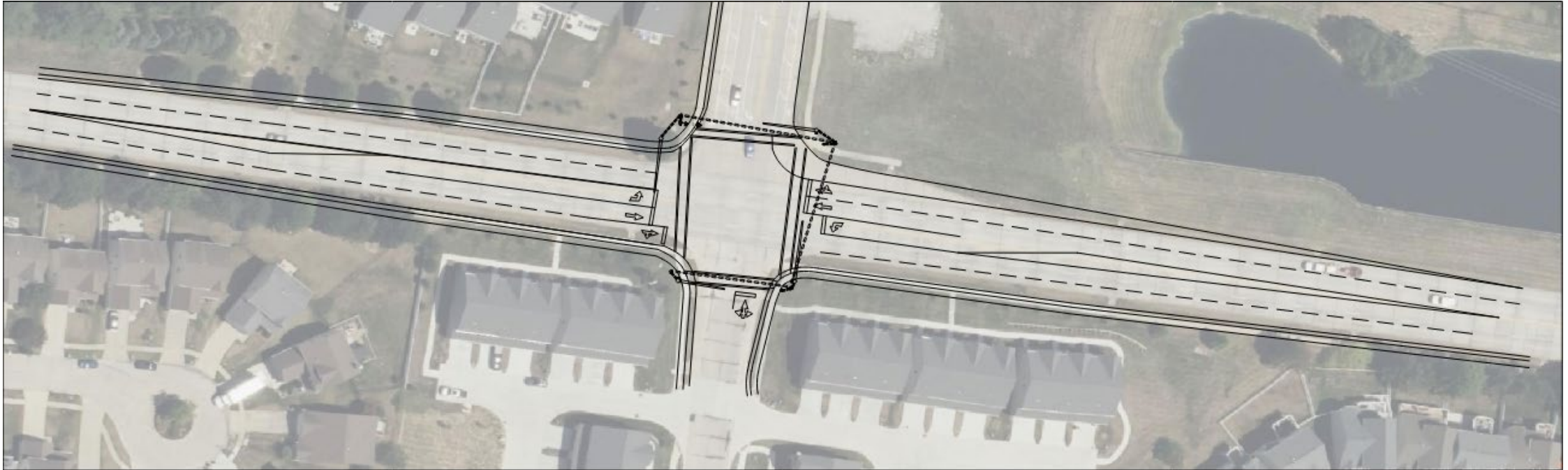
*Short sight distance in high speed  
downhill area*

## Existing Conditions

- Limited sight distance for residents turning onto Friedens Road
- High accident area – 8 crashes with damage in 2022
- No pedestrian access across Friedens Road
- Outdated ADA facilities
- Anticipated high growth area with the development of Riverpointe
- New fire station in northeast corner will create additional demand



# Friedens & Fairgrounds Signalization



- New dedicated left turn lanes
- New signal with ADA ramps at all four corners
- High visibility crosswalks

# Friedens and Fairgrounds Signalization

## Financial Plan & Schedule

	County	City	Federal	Total
Design (2025)	\$20,000	\$5,000	\$100,000	\$125,000
Right-of-Way (2025-2026)	\$4,000	\$1,000	\$20,000	\$25,000
Construction (2026-2027)	\$208,000	\$52,000	\$1,040,000	\$1,300,000
<b>Total</b>	<b>\$232,000</b>	<b>\$58,000</b>	<b>\$1,160,000</b>	<b>\$1,450,000</b>
Percent %	16%	4%	80%	

Design Consultant to be selected in January 2025 – 3 consultants have been short-listed

# Fox Hill Road Rehabilitation



## Project Location

Fox Hill Road from south of Boschertown Road to North Randolph Street



*Fox Hill looking north at Tamarack Drive*

# Fox Hill Road Rehabilitation

## Existing Conditions

- Wide, unstriped lanes
- PASER 4.25 out of 10 - Severe alligator cracking, block cracking, rutting with polished aggregate
- Missing or non-compliant curb ramps
- Sections of missing sidewalk

*Inadequate Sidewalks  
and Curb Ramps*



*Sections of missing  
sidewalk*



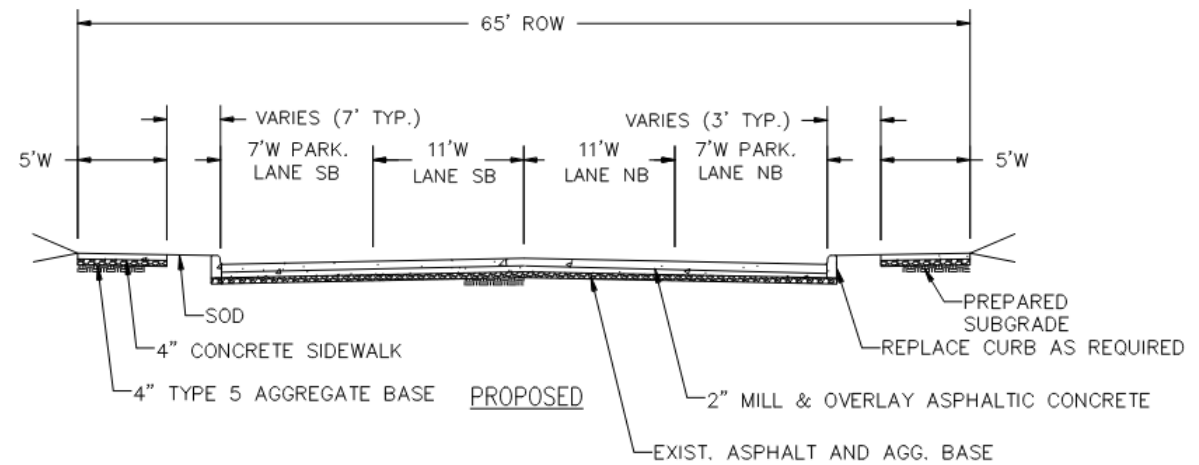
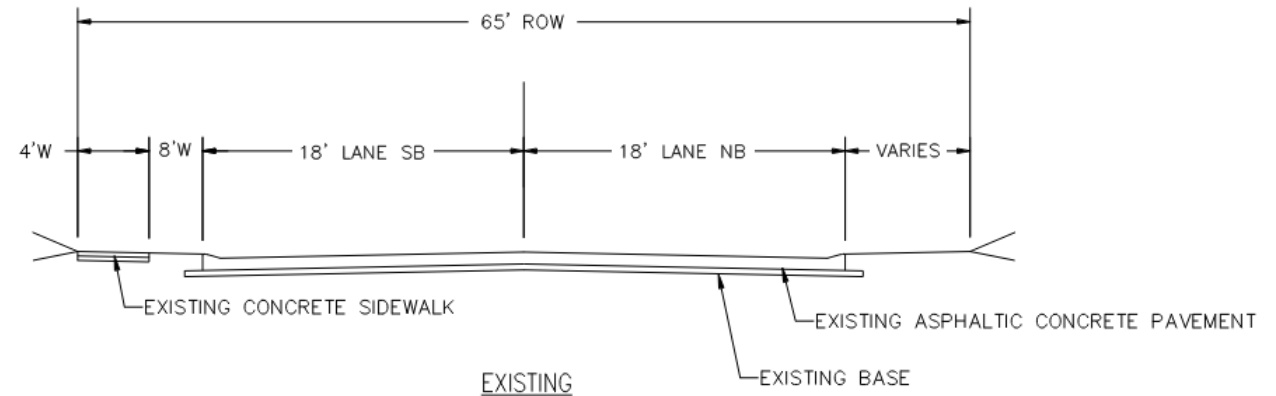
*Severe cracking*



# Fox Hill Road Rehabilitation

## Proposed Improvements

- Restripe 18' wide lanes into 11' wide lanes with 7' wide parking
- Mill and overlay top 2" of asphalt
- Update pedestrian facilities at intersections
  - Updated to ADA standards
  - Curb ramps
  - High-visibility crosswalks
- Replace existing out of spec 4' wide sidewalks with new 5' wide sidewalks
- Add new 5' sidewalks in sections currently lacking facilities



TYPICAL SECTIONS

# Fox Hill Road Rehabilitation

## Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design (2025)	\$16,000	\$4,000	\$80,000	\$100,000
Right-of-Way (2025)	\$2,400	\$9,600	\$48,000	\$60,000
Construction (2026)	\$134,400	\$33,600	\$672,000	\$840,000
Total	\$160,000	\$40,000	\$800,000	\$1,000,000
Percent %	16%	4%	80%	

# Historic Main Street Extension



## Project Location

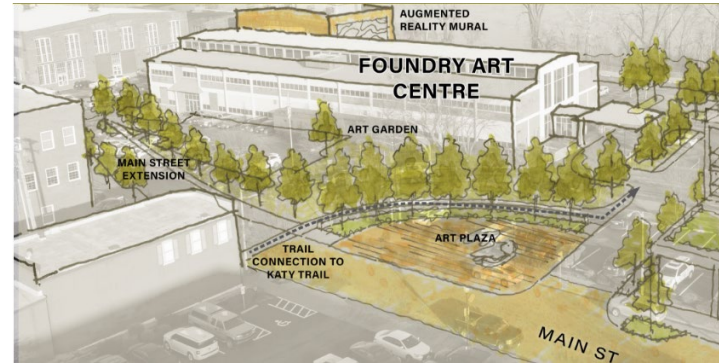
Extend Main Street from Clark Street to Montgomery Street



# Historic Main Street Extension

## Proposed Improvements

- 2-11' lanes, asphalt, curb & gutter
- 2' wide buffer
- 5' wide sidewalks on both sides
- Side street extensions
- On-street parking
- Lighting
- Undergrounding of utility lines



# Historic Main Street Extension

## Financial Plan & Schedule

	County	City	Federal TAP	Total
Design (2025)	\$300,000	\$300,000	\$0	\$600,000
Construction (2026)	\$2,112,404	\$1,387,596	\$2,500,000	\$6,000,000

# Hemsath Road Realignment – Southpointe Development

## Project Location

Arena Parkway/South River Road at Hemsath Road  
near Highway 364



# Southpointe Development

## ARENA PARKWAY/PAGE PLANNING DISTRICT

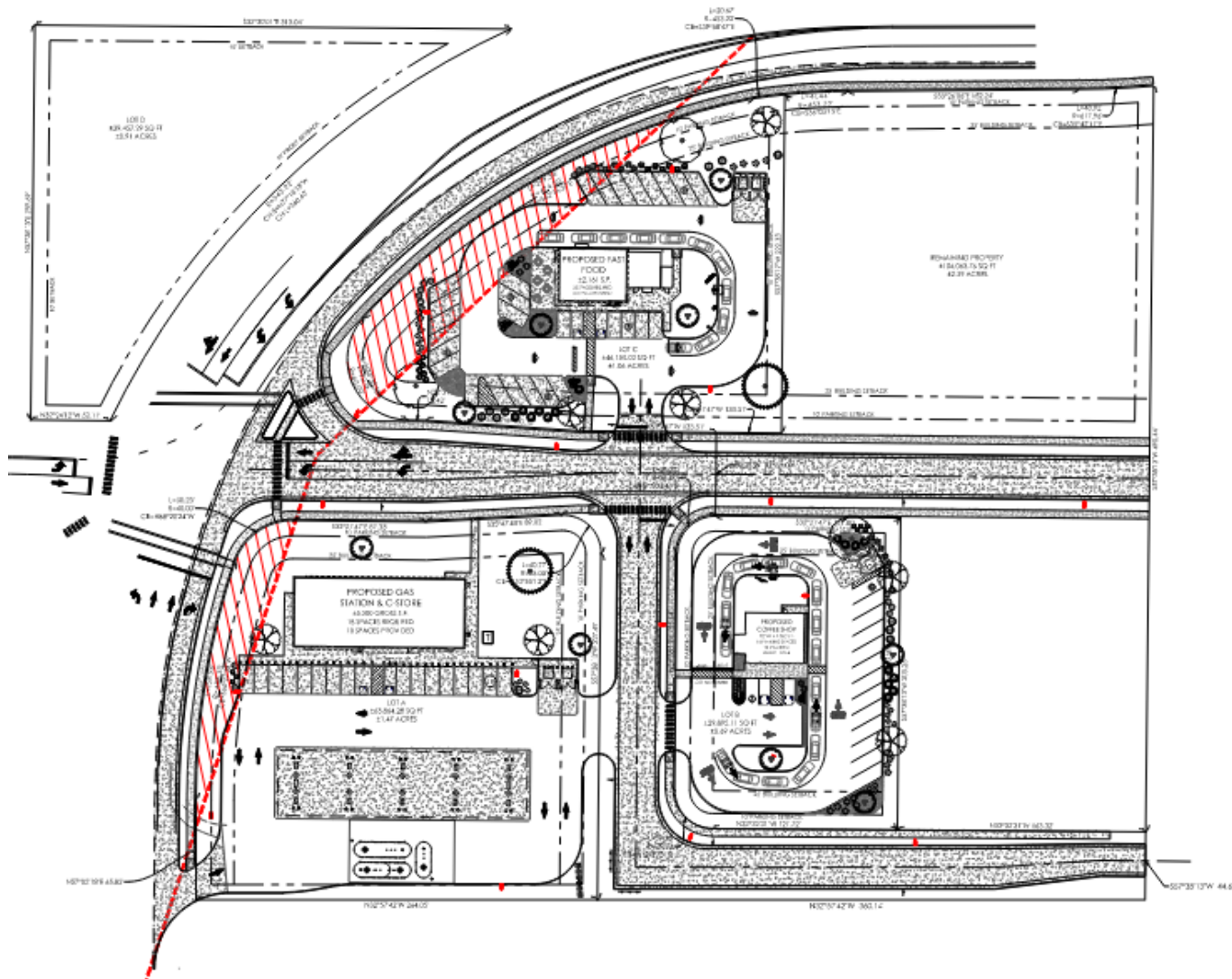


Area identified for development using proposed Hemsath Road alignment during the Arena Parkway / Page Planning District Study adopted in October 2009



Above map taken from planning study

# Hemsath Road Realignment – Southpointe Development



## Proposed Improvements

- Reroute Hemsath Road on the east side of Arena Parkway/South River Road to be further away from 364 and to align with existing Hemsath Road on west side of road
- New traffic signal on South River Road at Hemsath Road being coordinated with County GGL system and MoDOT due to proximity to 364
- Right in only at old Hemsath Road location on south end of development for access to possibly new gas station
- New developments both north and south of new rerouted Hemsath Road

# Hemsath Road Realignment – Southpointe Development

## Financial Plan & Schedule

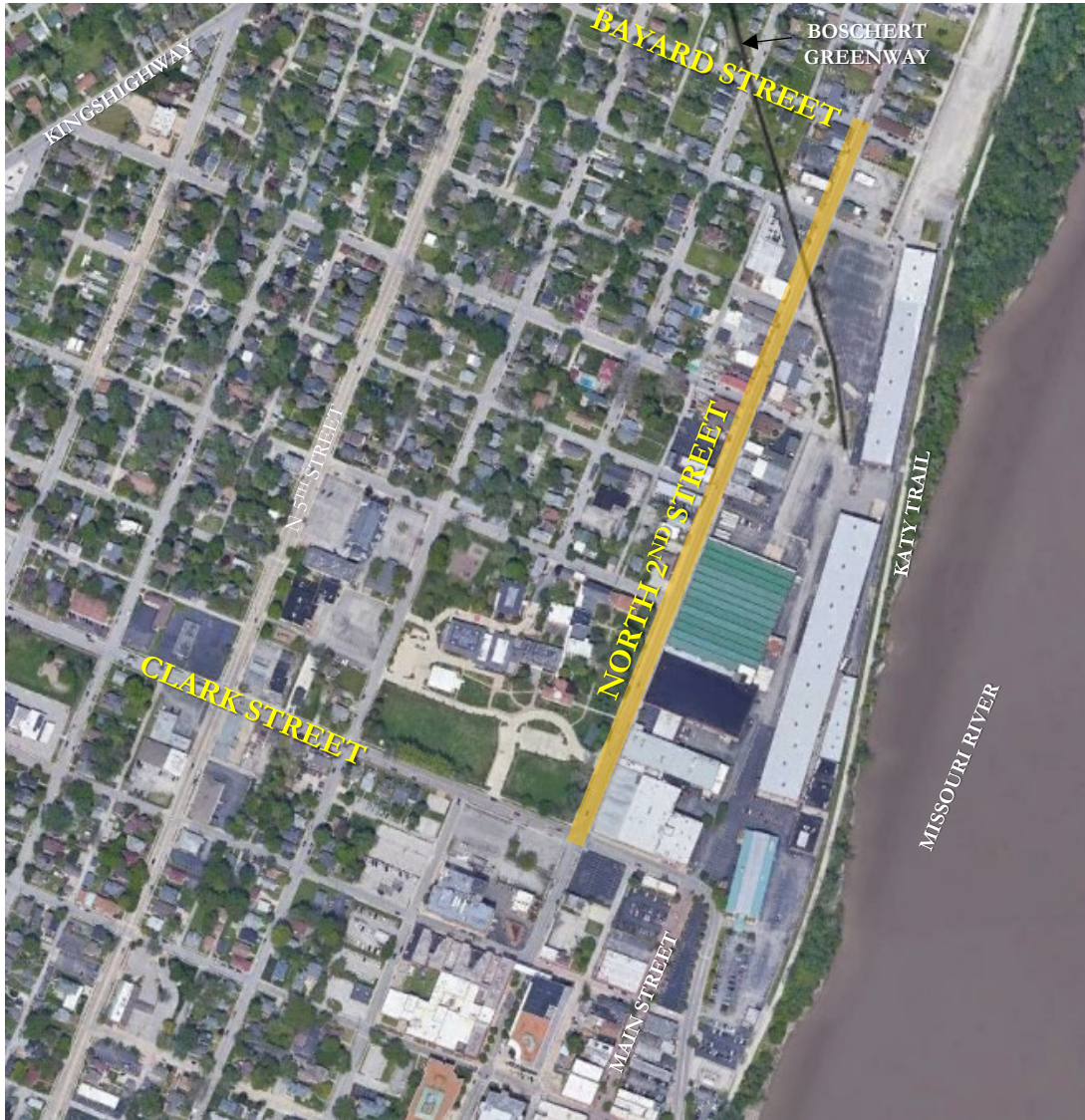
	County	City	Private Developer	Total
<b>Design:</b>				
<b>Premier Design Group (2024-2025)</b>	\$0	\$0	\$117,890.00	\$117,890.00
<b>Right-of-Way (2024-2025)</b>	\$0	\$0	\$184,673.00	\$184,673.00
<b>Construction (2025-2026)</b>	\$500,000.00	\$250,000.00	\$1,775,040.96	\$2,525,040.96
<b>Total</b>	<b>\$500,000.00</b>	<b>\$250,000.00</b>	<b>\$1,775,040.96</b>	<b>\$2,827,603.96</b>
<b>Percent %</b>	<b>17.68%</b>	<b>8.84%</b>	<b>73.48%</b>	

Design and Right of Way to be completed Spring 2025

Development construction has started in 2024 – completed building demolitions

Construction of Roadway improvements to begin Spring/Summer 2025

# Frenchtown Great Streets: North 2<sup>nd</sup> Street



## Project Location

North 2<sup>nd</sup> Street between Clark Street and Bayard Street

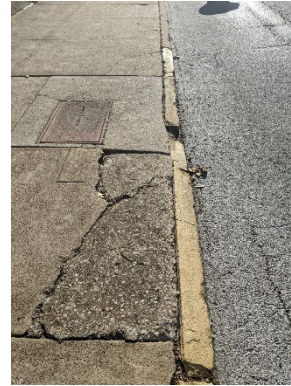


*Existing N 2<sup>nd</sup> Street Corridor*

# Frenchtown Great Streets: North 2<sup>nd</sup> Street

## Existing Conditions

- Wide, straight corridor
- Inconsistent sidewalk material
  - Brick and concrete
- Missing or non-compliant curb ramps, obstructions
- Overhead utility poles in sidewalk, at curb
- Extensive cracking in parking lanes



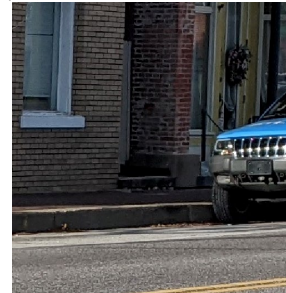
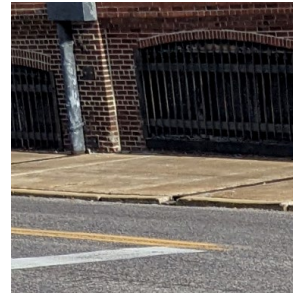
*Damaged,  
variable height  
curbs*



*Inadequate Sidewalks  
and Curb Ramps*



*Parking lane Cracking*



# Frenchtown Great Streets: North 2<sup>nd</sup> Street

## Proposed Improvements

- Reduce 38.5' wide roadway section to 2-10.5' lanes with 8.75' permeable paver parking lanes on both sides
- Existing asphalt to remain will be resurfaced
- Variable-width brick and concrete sidewalks replaced with concrete, brick trim
- Updated to ADA standards
- Curb ramps
- High-visibility crosswalks
- Lighting
- Rain Gardens
- Transit shelter, benches, bike racks
- Trail Connection
- Undergrounding of utility lines



*Renderings from Great Streets plan*



# Frenchtown Great Streets: North 2<sup>nd</sup> Street

## Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design (2024)	\$96,000	\$24,000	\$480,000	\$600,000
Construction (2026-2027)	\$816,000	\$204,000	\$4,080,000	\$5,100,000

# Regency Parkway Reconstruction



## Project Location

Regency Parkway from Zumbuhl Road to Veterans Memorial Parkway



*Regency Parkway at Forest Hills Dr. looking southwest*

# Regency Parkway Reconstruction

## Existing Conditions

- Existing pavement in poor condition
  - PASER rating 3.25 out of 10
  - Severe cracking, spalling, potholes, wearing/polishing
- Non-ADA compliant curb ramps

*Sidewalk Cracks*



*Severe Joint Spalling*



*Potholes*



*Extensive Joint Spalling*

# Regency Parkway Reconstruction

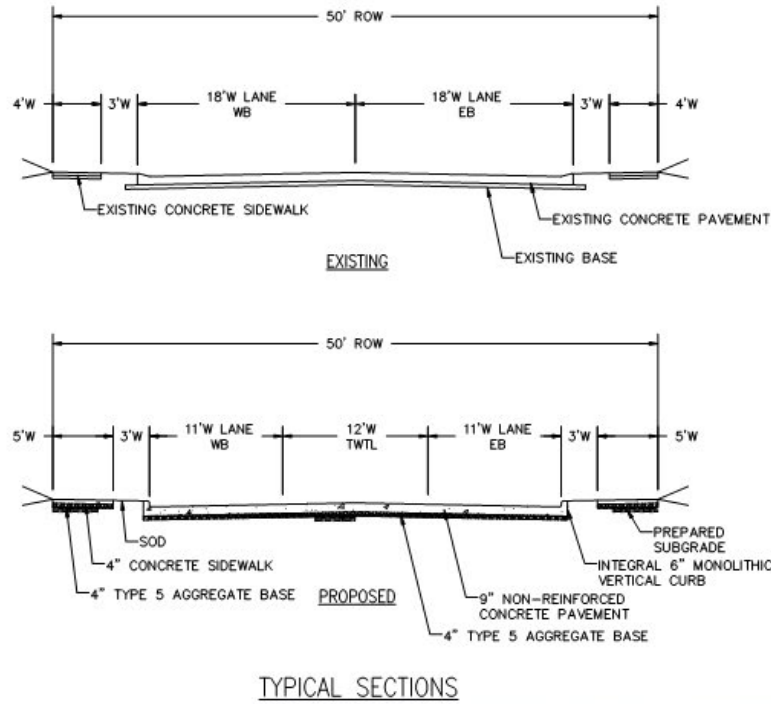
## Proposed Improvements

- Full depth pavement replacement
  - 9" concrete / 4" agg base
  - Vertical curb
- One lane each direction w/ TWTL
- 5' sidewalks on both sides
- Crosswalk striping



# Regency Parkway Reconstruction

## Conceptual Plan



SITE EXPO

# Regency Parkway Reconstruction

## Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design (2025)	\$68,000	\$17,000	\$340,000	\$425,000
Construction (2026)	\$416,000	\$104,000	\$2,080,000	\$2,600,000

# Duchesne Drive Reconstruction



## Project Location

Duchesne Drive from West Clay Street to Droste Road



*Duchesne Drive at old Pundmann Ford looking south towards West Clay Street*



*Duchesne Drive at old Pundmann Ford looking north*

# Duchesne Drive Reconstruction

## Existing Conditions

- Existing pavement in poor condition
  - PASER rating 4 out of 10
  - Severe cracking, spalling, potholes, wearing/polishing, joint faulting
- Dead-end and missing sidewalks
- No bike facilities
- Sight distance obstruction - crashes
- Poor drainage, lack of green space



*Extensive Cracking*



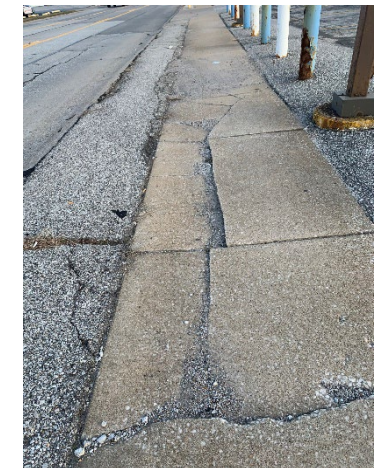
*Sight Distance Obstruction*



*Severe Cracking and Joint Faulting*



*Dead-End Sidewalks*

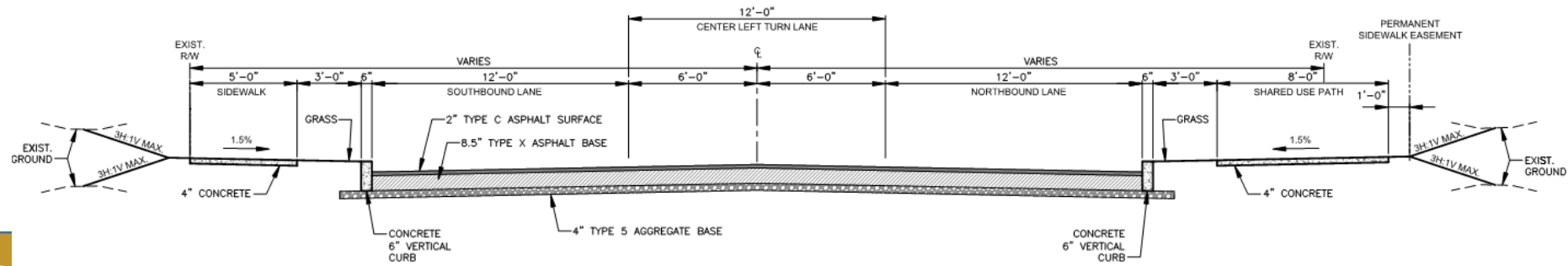


*Cracked Sidewalks*

# Duchesne Drive Reconstruction

## Proposed Improvements

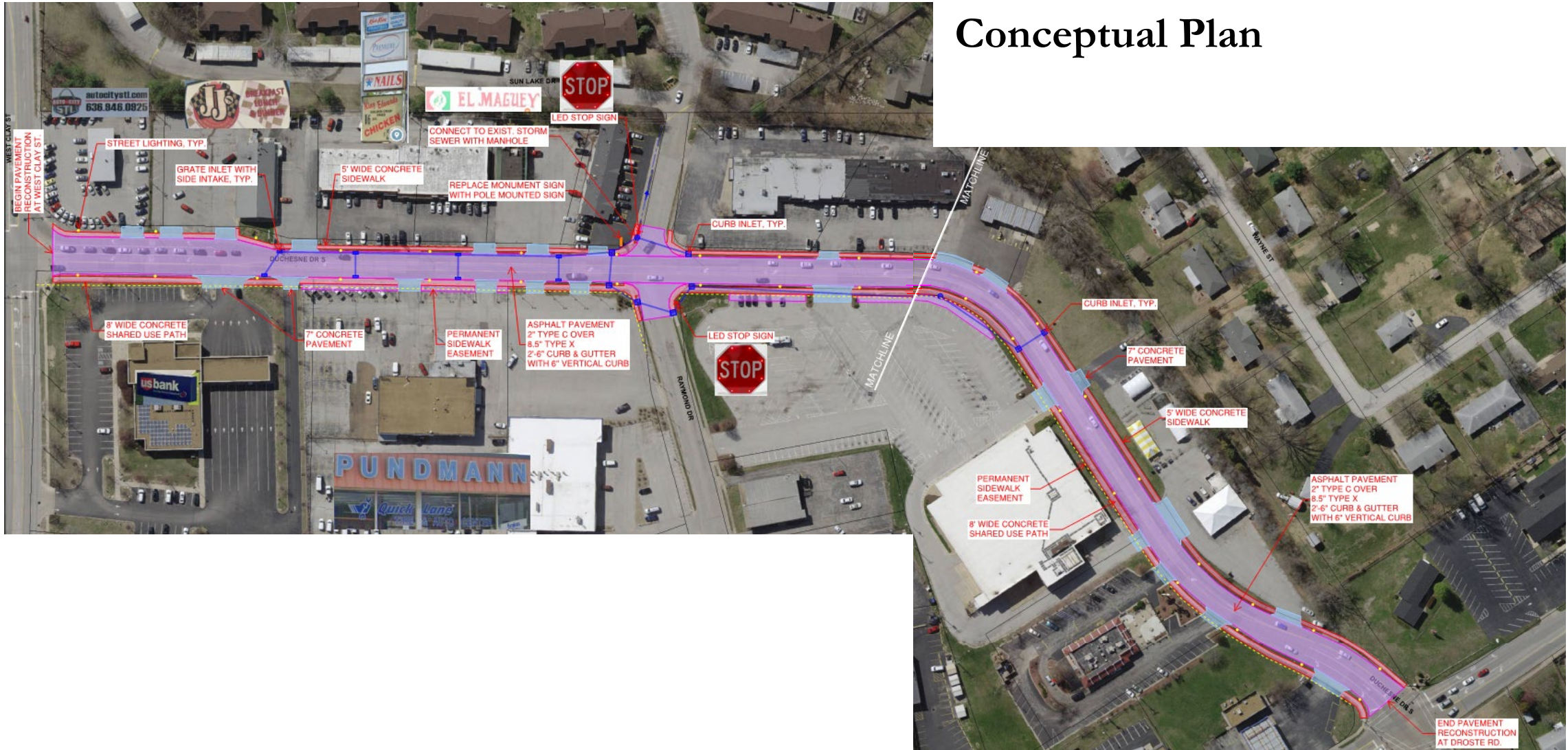
- Full depth pavement replacement
  - 10.5" asphalt / 4" agg base
  - Heavy truck loading
- Continuous sidewalk along west side
- Shared use path along east side
- Additional storm inlets
- LED stop signs at Raymond Drive
- Revise monument sign



PROPOSED TYPICAL SECTION  
NOT TO SCALE  
DUCHESE DR. FROM WEST CLAY ST. TO DROSTE RD.

# Duchesne Drive Reconstruction

## Conceptual Plan



# Duchesne Drive Reconstruction

## Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design (2023)	\$45,000	\$45,000	\$360,000	\$450,000
Construction (2025-2026)	\$330,000	\$330,000	\$2,640,000	\$3,300,000

# Muegge Road Pavement Rehabilitation



## Project Location

Muegge Road  
from Mexico Road to Old Muegge Road



*Muegge Road at Mexico Road looking South*

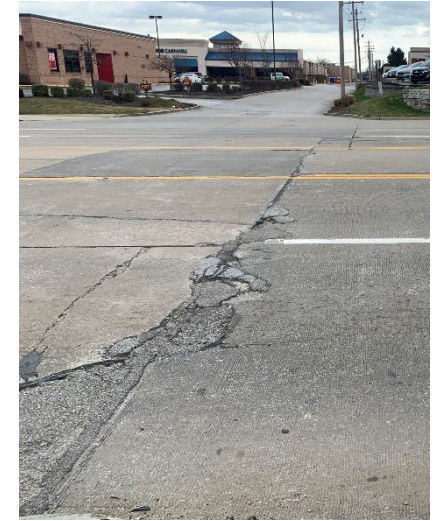
# Muegge Road Pavement Rehabilitation

## Existing Conditions

- 20% of existing pavement needs replacement or repair
  - PASER Rating 4.7 out of 10
  - Severe cracking, spalling, scaling



*Severe Joint and Crack Spalling, Poor Patching*



*Broken Curb*



*Extensive Cracking*



*Cracked/Faulted Sidewalk*

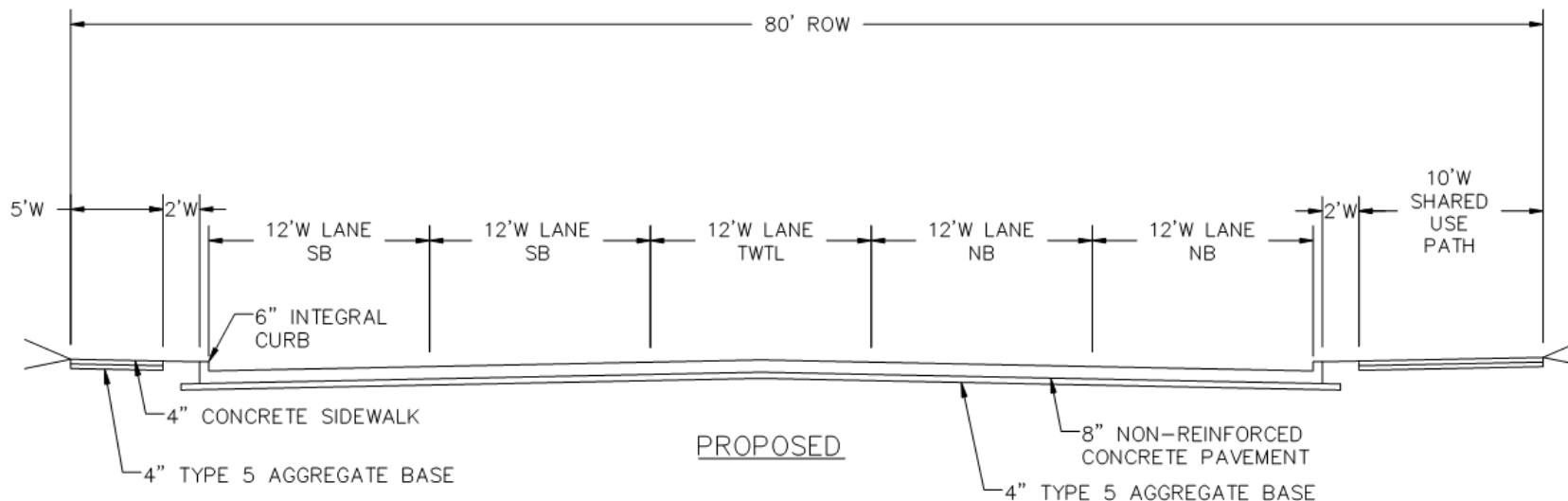


*Scaling*

# Muegge Road Pavement Rehabilitation

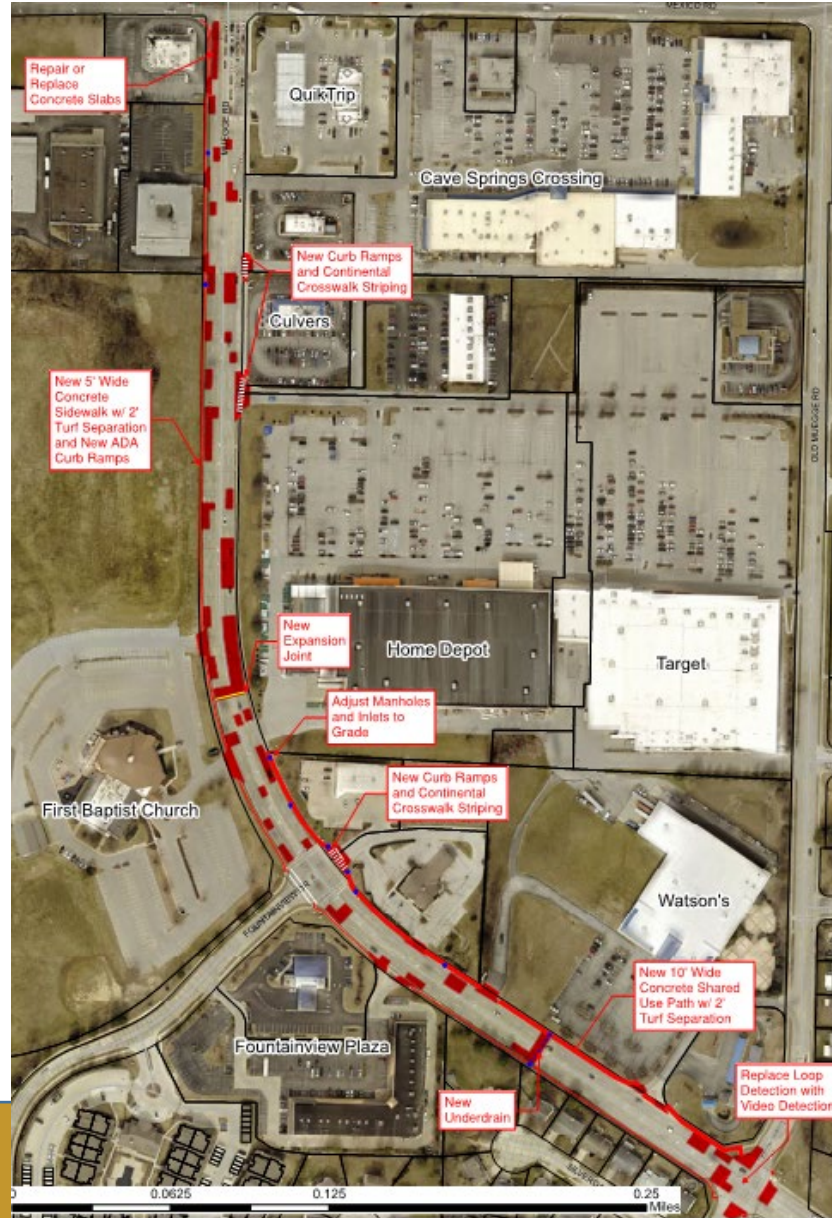
## Proposed Improvements

- Slab Replacement (~20%)
- Crack and joint sealing
- Diamond grinding
- Inlaid reflectors
- 5' sidewalk along west side
- 10' shared use path along east side
- Video detection at Old Muegge Road



# Muegge Road Pavement Rehabilitation

## Conceptual Plan



# Muegge Road Pavement Rehabilitation

## Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design (2023)	\$40,000	\$40,000	\$320,000	\$400,000
Construction (2025)	\$195,000	\$195,000	\$1,560,000	\$1,950,000

# Second Street Reconstruction



## Project Location

Second Street  
from Boone's Lick Road to First Capitol Drive



*Second Street at First Capitol Drive looking South*

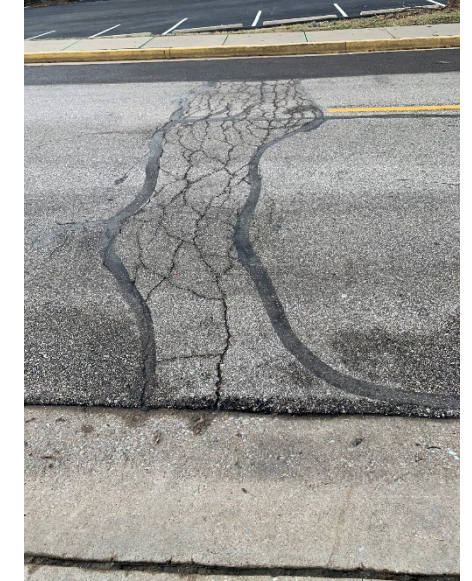
# Second Street Reconstruction

## Existing Conditions

- Existing pavement in poor condition
  - Paser Rating 4 out of 10
  - Severe cracking, potholes, rutting
- Missing Sidewalks
- No Striping or Bump Outs for On-Street Parking
- Poor Drainage along Curbs



*No Striping/Bump Outs for On-Street Parking*



*Severe Cracking*



*Poor Drainage*



*Missing Sidewalks*



*Potholes & Rutting*

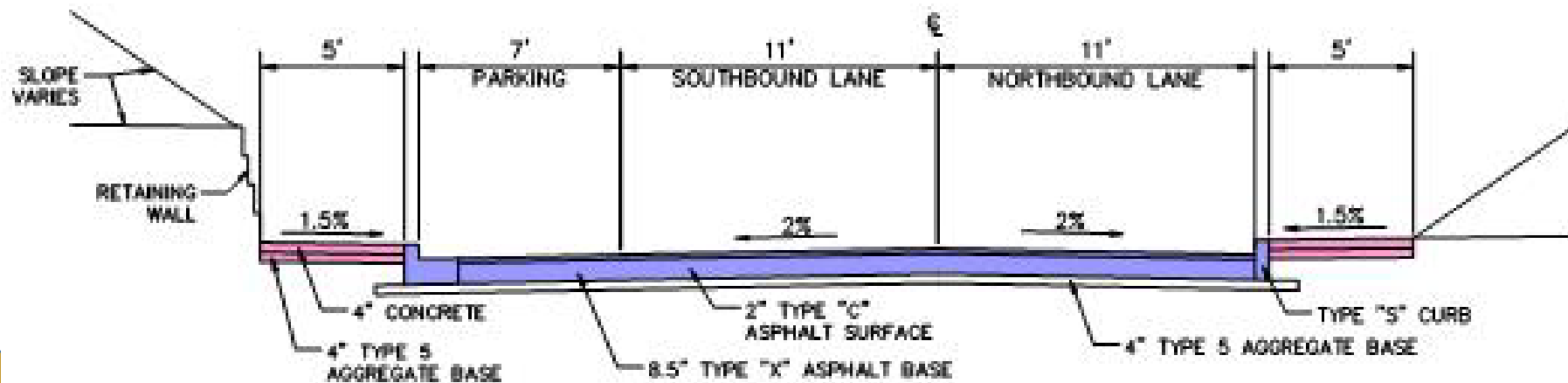
# Second Street Reconstruction

## Proposed Improvements

- Full depth pavement replacement
- Improved drainage
  - New curbs and inlets
- Continuous sidewalks along both sides
- Curb bump outs & striping
  - Delineate on-street parking areas
  - Traffic calming



*Second Street at Tompkins Street looking North*



PROPOSED

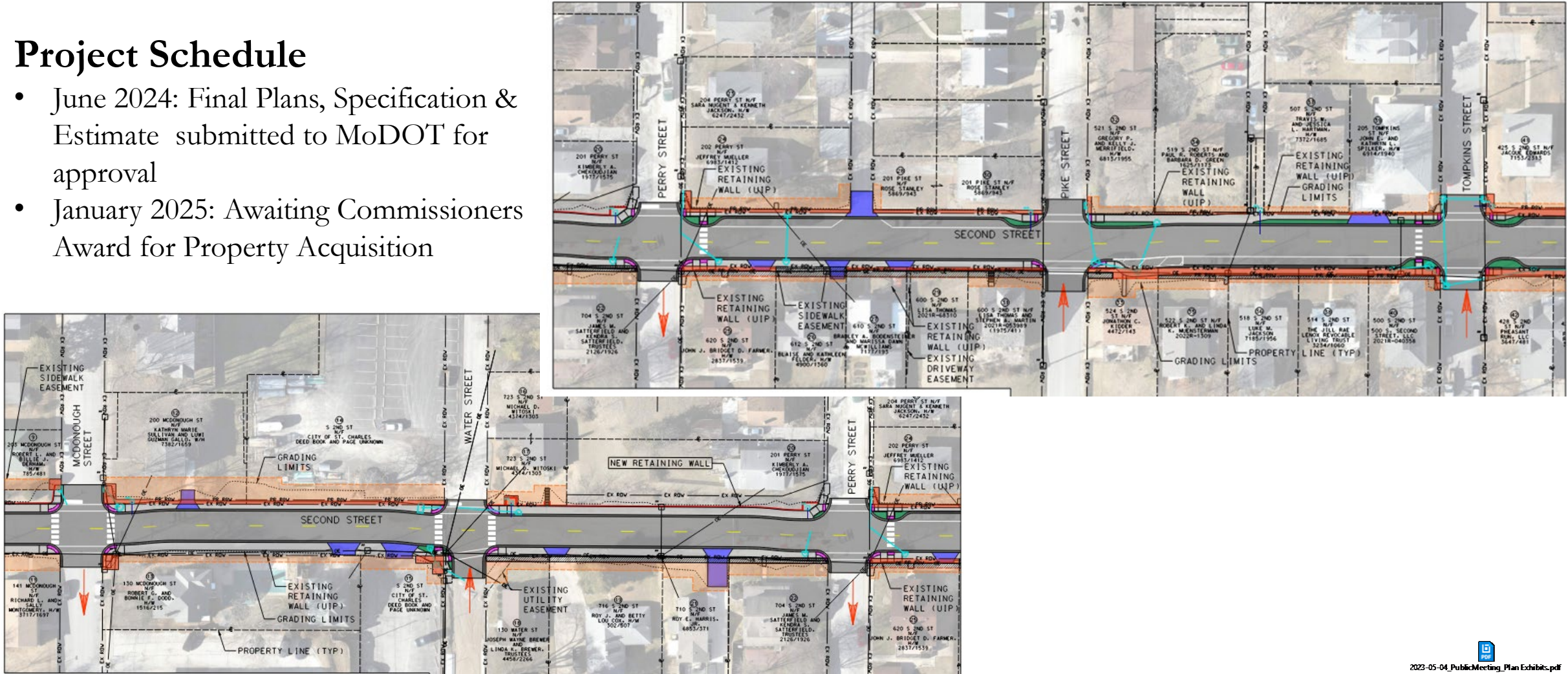
# S. 2<sup>nd</sup> Street Reconstruction Project

Attorney-Client Privileged

## Project Schedule

- June 2024: Final Plans, Specification & Estimate submitted to MoDOT for approval
- January 2025: Awaiting Commissioners Award for Property Acquisition

## SECOND STREET RECONSTRUCTION



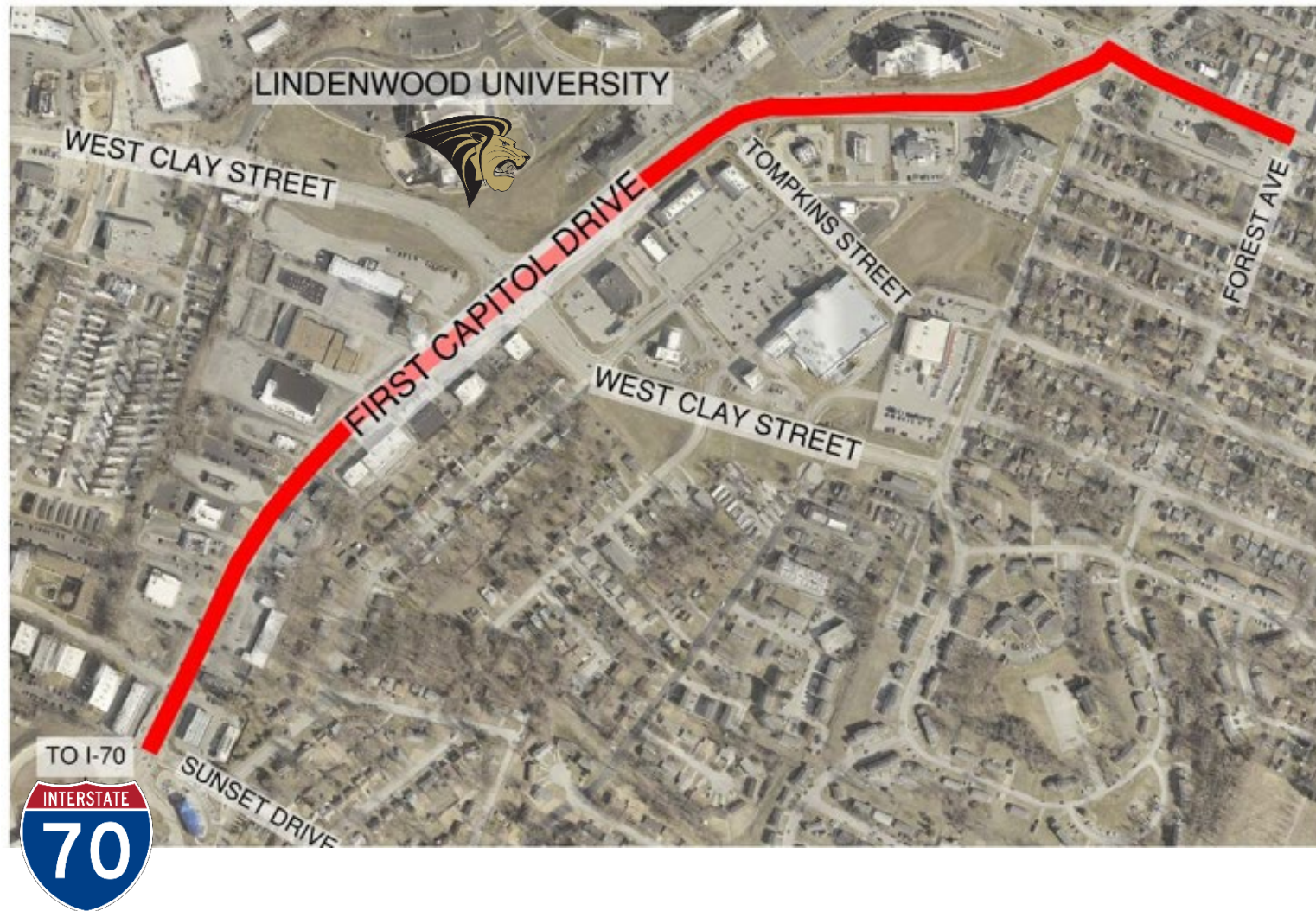
2023-05-04\_PublicMeeting\_Plan Exhibits.pdf

# Second Street Reconstruction

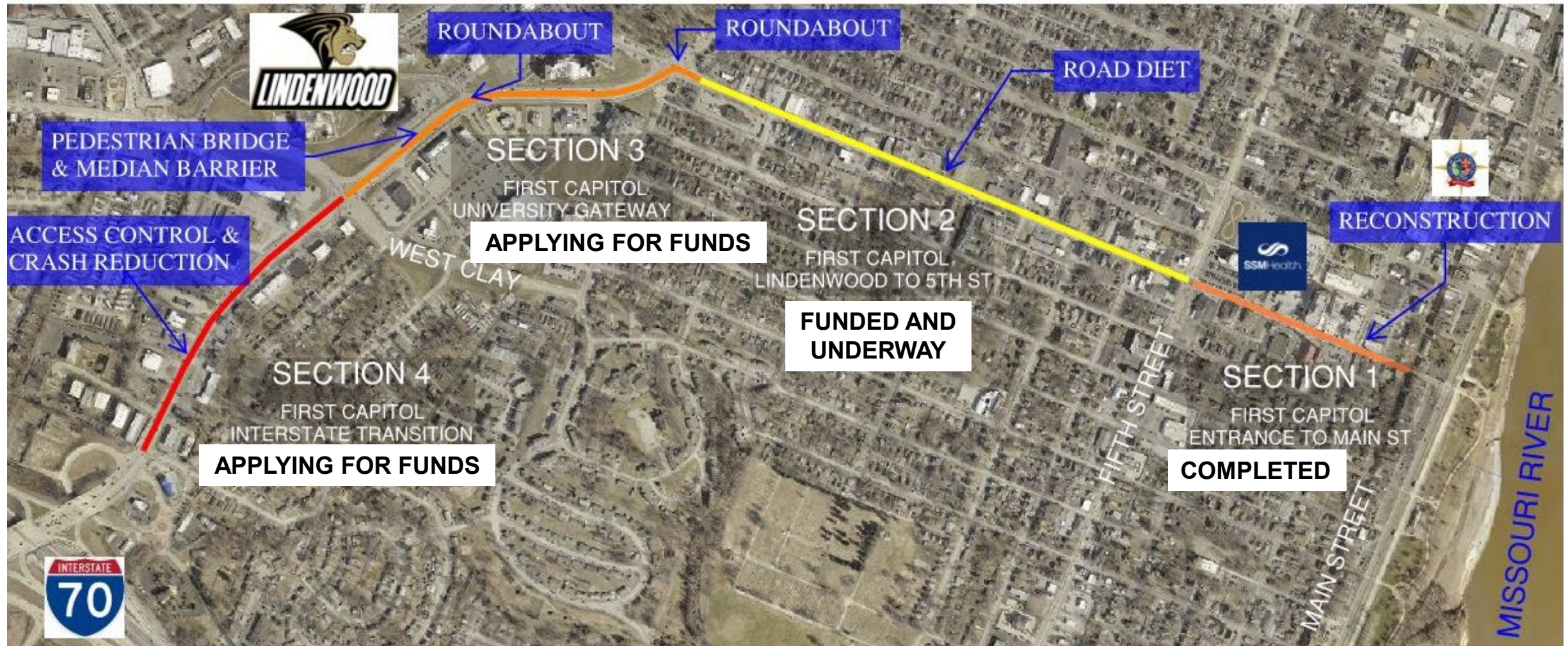
## Financial Plan & Schedule

	County	City	Federal STP-S	Total
<b>Total Design, ROW &amp; Construction (2025-2026)</b>	\$0	\$2,100,000	\$2,080,000	\$4,180,000

# First Capitol Drive – Location Map



# First Capitol Corridor Plan



# Section 2 Road Diet from 5<sup>th</sup> St. to Forest Ave.



# Section 2 Road Diet from 5<sup>th</sup> St. to Forest Ave.

	County	Sponsor	Federal	Other	Total
Design	\$96,000.00	\$24,000.00	\$480,000.00	\$0.00	\$600,000.00
Utility Relocations	\$16,000.00	\$4,000.00	\$80,000.00	\$0.00	\$100,000.00
Right-of-Way	\$40,000.00	\$10,000.00	\$200,000.00	\$0.00	\$250,000.00
Construction (2027-2028)	\$1,064,000.00	\$266,000.00	\$4,520,000.00	\$0.00	\$5,850,000.00
<b>TOTAL</b>	<b>\$1,216,000.00</b>	<b>\$304,000.00</b>	<b>\$5,280,000.00</b>	<b>\$0.00</b>	<b>\$6,800,000.00</b>
<b>PERCENT (%)</b>	<b>17.88%</b>	<b>4.47%</b>	<b>77.65%</b>	<b>0.00%</b>	<b>100.00%</b>

## Utility Relocations / Undergrounding

- Undergrounding improves aesthetics, pedestrian accessibility, and reliability of Ameren network
- Increasing cost of equipment – Ameren initial estimates of \$6M - \$10M. Utility provider's policy region wide is not to participate in undergrounding costs
- Hiring independent consultant to provide estimate in order to make informed decision

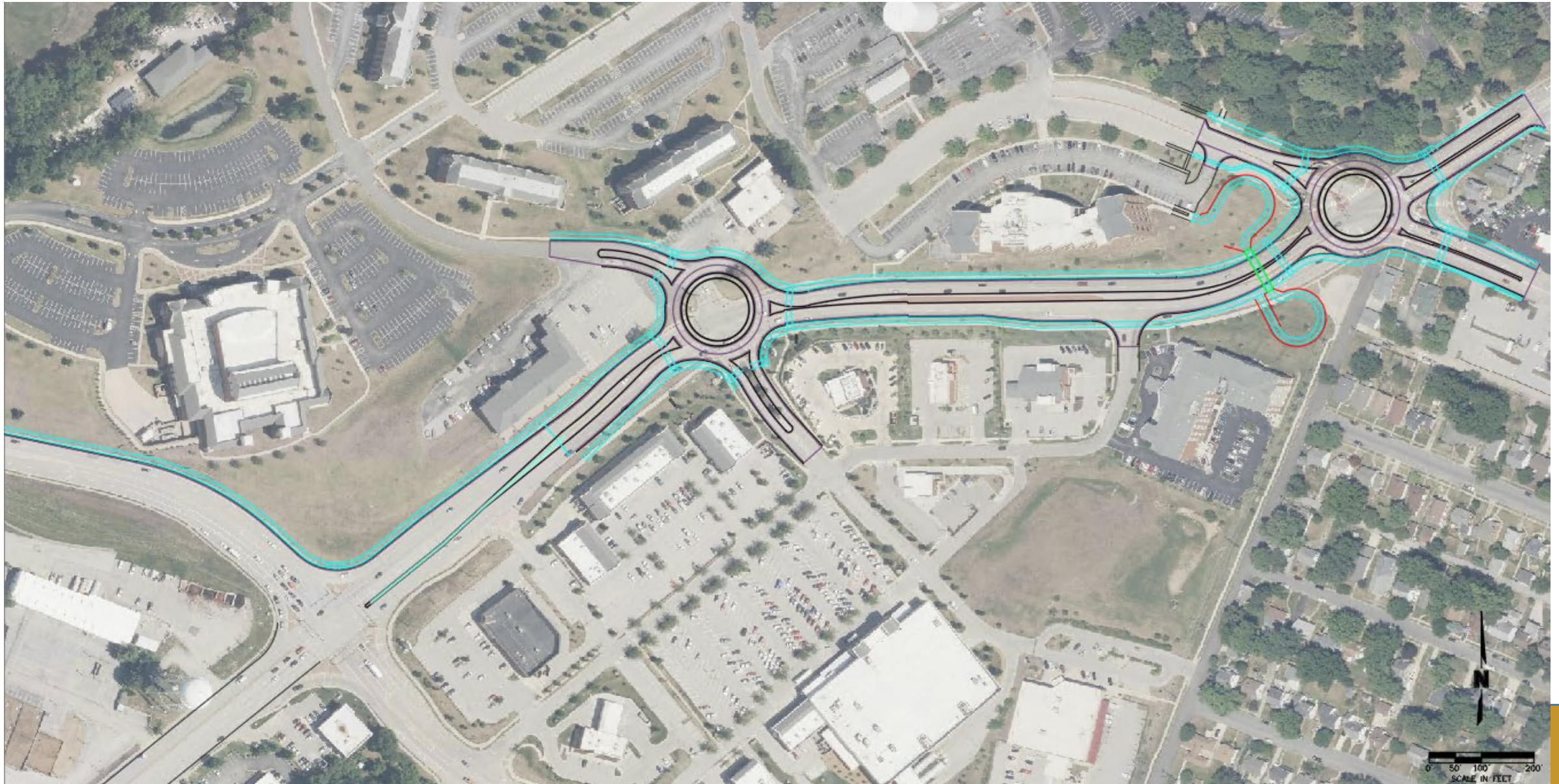
# Section 3 Proposed Median from Forest Ave. to West Clay



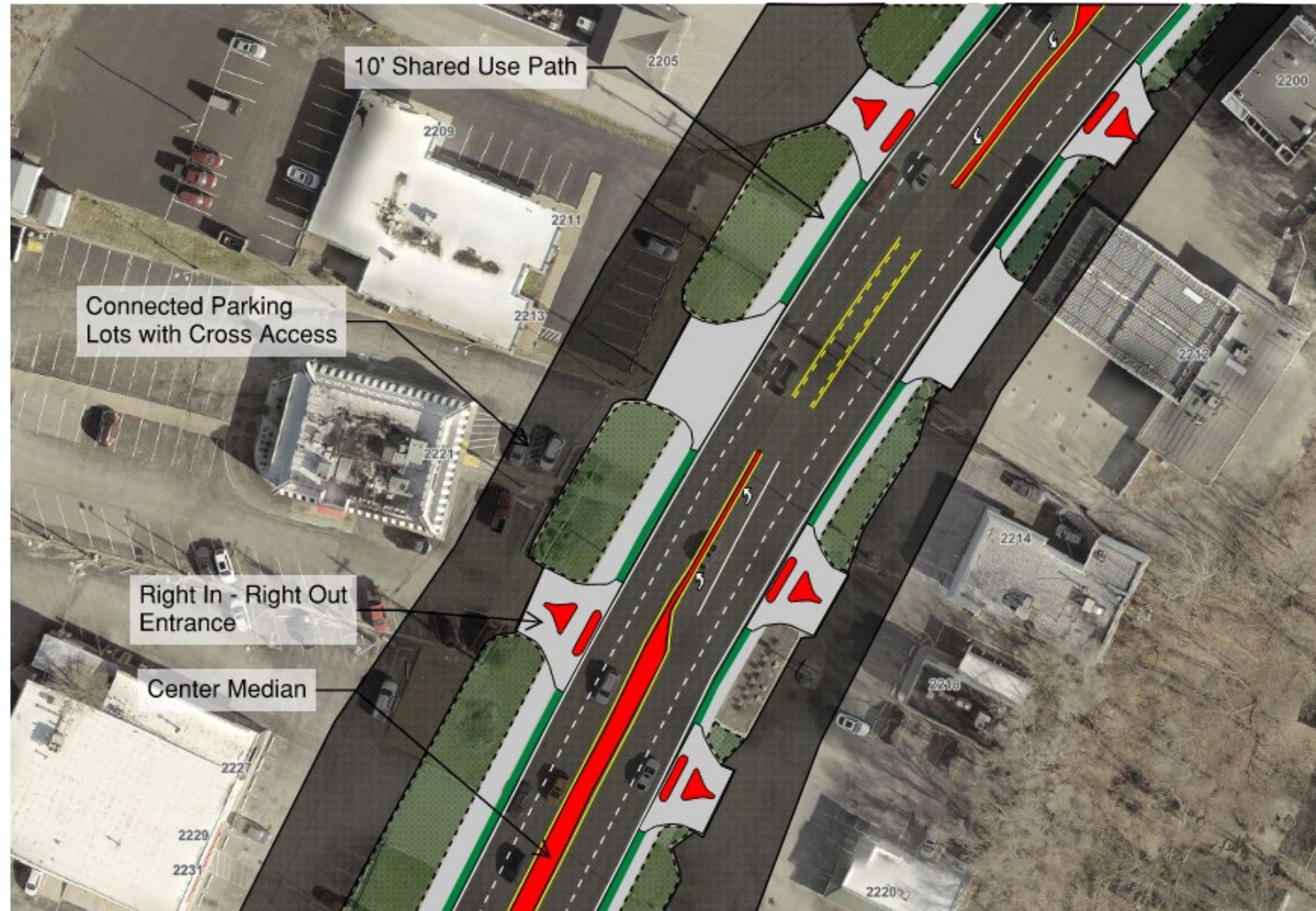
# Section 3 Pedestrian Crossing



# Section 3 New Roundabouts



# Section 4 Access Control AFTER Improvements



# RAISE Project Budget and Funding

RAISE Project Budget and Funding	
Design	\$2,000,000.00
Construction	\$12,000,000.00
Right of Way	\$2,000,000.00
Contingency	\$2,000,000.00
Inflation	\$1,000,000.00
Utility Relocation	\$1,000,000.00
<b>TOTAL ESTIMATED BUDGET</b>	<b>\$20,000,000.00</b>
<i>RAISE Grant (80%)</i>	<i>\$16,000,000.00</i>
<i>County Road Board (16%)</i>	<i>\$3,200,000</i>
<i>Lindenwood (2%)</i>	<i>\$400,000</i>
<i>City (2%)</i>	<i>\$400,000</i>
<b>TOTAL FUNDING</b>	<b>\$20,000,000.00</b>

# Boones Lick Road Reconstruction

## Boones Lick Road from Fifth Street to Fairgrounds Road

### Improvements

- Full depth asphalt pavement reconstruction
- New ADA compliant Sidewalks and Shared Use Path
- New curb and gutter and drainage inlets
- Better pedestrian access to Park and shopping
- City Utility Improvements
  - New water mains
  - New sanitary sewers



# Boones Lick Road Reconstruction

## Anticipated Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design 2026 - Roadway	\$96,000	\$24,000	\$480,000	\$600,000
Design City Utilities*	\$0	\$200,000	\$0	\$200,000
Right-of-Way 2027	\$64,000	\$16,000	\$320,000	\$400,000
Construction 2028-2029	\$640,000	\$160,000	\$3,200,000	\$4,000,000
Construct City Utilities*	\$0	\$1,730,000	\$0	\$1,730,000
<b>Total</b>	<b>\$800,000</b>	<b>\$2,130,000</b>	<b>\$4,000,000</b>	<b>\$6,930,000</b>
Percent %	11%	31%	58%	

\* Improvements to City owned utilities (such as drinking water and sanitary sewer systems) are not eligible for Federal and County funding reimbursements. The City CIP has already budgeted Water and Sanitary funding for the City's contribution needed for this project. The City is applying for outside funding, so no Federal or County funding has been awarded at this time.

# Boones Lick and Fairgrounds Roundabout

## Improvements

- Single Lane Roundabout
- Fewer conflict points reduces crashes
- Safer crosswalks
- Continuous traffic flow reduces pollution and travel time
- New ADA compliant Sidewalks and Shared Use Path
- New curb and gutter and drainage inlets
- Better pedestrian access to Park and shopping
- City Utility Improvements
  - New water mains
  - New sanitary sewers



# Boones Lick and Fairgrounds Roundabout

## Anticipated Financial Plan & Schedule

	County	City	Federal STP-S	Total
Design 2026 – Roadway	\$32,000	\$8,000	\$160,000	\$200,000
Design City Utilities*	\$0	\$80,000	\$0	\$80,000
Right-of-Way 2027	\$48,000	\$12,000	\$240,000	\$300,000
Construction 2028-2029	\$320,000	\$80,000	\$1,600,000	\$2,000,000
Construct City Utilities*	\$0	\$820,000	\$0	\$820,000
<b>Total</b>	<b>\$400,000</b>	<b>\$1,000,000</b>	<b>\$2,000,000</b>	<b>\$3,400,000</b>
Percent %	12%	29%	59%	

\* Improvements to City owned utilities (such as drinking water and sanitary sewer systems) are not eligible for Federal and County funding reimbursements. The City CIP has already budgeted Water and Sanitary funding for the City's contribution needed for this project. The City is applying for outside funding, so no Federal or County funding has been awarded at this time.