

# Mississippi Drive | Corridor Revitalization



*A Destination Transportation Project...*



# Welcome!

## Tonight's Agenda:

- Review progress to date
- Discuss upcoming schedule and tasks
- Present developed design concepts
- Collect feedback on preferred design alternatives
- **Answer YOUR Questions**

# Overview | Corridor Revitalization

## Project Process: Where are we?

- Visioning
- Info Gathering and Outreach
- Preliminary Design November-June
- Final Design June-September 2016
- Bid Document Preparation September-December 2016
- Bid Letting February 2017
- Construction Spring 2017

# Mississippi Drive | Corridor Revitalization

## Your Project Team



**Muscatine  
Power and Water**

*Your reliable neighbor*

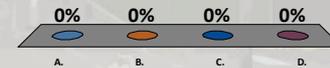
**CANADIAN  
PACIFIC**



# Let's Get Started

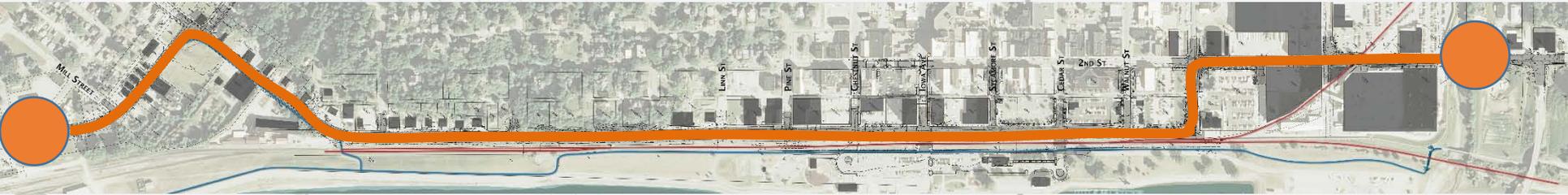
What best describes your involvement tonight?

- A. Business Owner
- B. Work Here (but don't live here)
- C. Active Resident
- D. Visitor (not from Muscatine)



# Overview | Scope of Work

## Corridor Map:



## Project Extents:

- Main Street & Grandview Ave to E 2<sup>nd</sup> Street, thru HNI Campus
- Within current Right-Of-Way
- Will make connections/transitions North/South as needed

## Overview | **Scope of Work**

### **What are the project elements?...recap**

- Financial Partnership between the City, Canadian Pacific Railroad and MPW
- The elevation of the railroad and Miss. Dr. has been raised already and will be leveled
- The final product will be designed to handle the existing and future traffic demands, **including trucks**
- The design will be sensitive to our climate, be cost conscious and consider long-term maintenance

# The Big Picture | Project Goals

## Project Goals:

- Modernize Mississippi Drive
- Incorporate Complete Streets Design Principles
- Provide a Safe and Attractive Environment for All Users
- Improve Connectivity to the Riverfront
- Enhance Overall Aesthetic of the Corridor
- Effectively Engage the Public Throughout the Process
- **Implement a Community Supported and Technically Sound Project**



# The Big Picture | Dissecting the Corridor



## Critical Points:

- Diverse Corridor
- Poorly Connected
- Changing Right-Of-Way Widths
- **Huge Asset to the Community.....And it's time for an update.**

# Progress Recap | **What's been Happening?**

## Previous Open House

- Presented broad picture concepts
- Asked for feedback to guide the design process
- **Polling Results:**
  - **64% favored changing 2<sup>nd</sup> St. to a 2-Way**
  - **61% favored a roundabout at Carver Corner**
  - **67% said we should consider back-in angled parking**
  - **76% favored a combination of hardscape, ornamental plantings, and trees in the medians**

# Progress Recap | What's been Happening?

## In-Progress work:

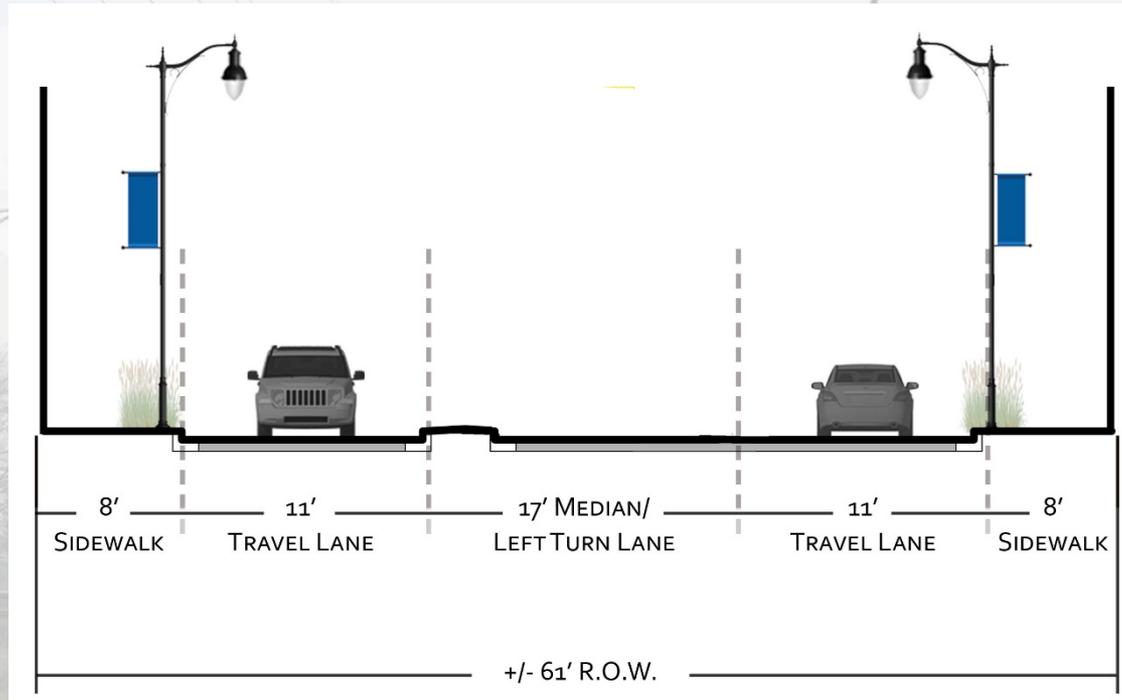
- Finalizing corridor vertical roadway alignment
- Determining finish grade of roadway surface
- Coordinating the utility design with Muscatine Power and Water
- Coordinating Railroad design with Canadian Pacific
- Developing concept design for streetscape elements
- Developing a staging plan to minimize construction impacts

# Roadway Alignment | Typical 3 Lane Section



# Dissecting the Corridor | By District

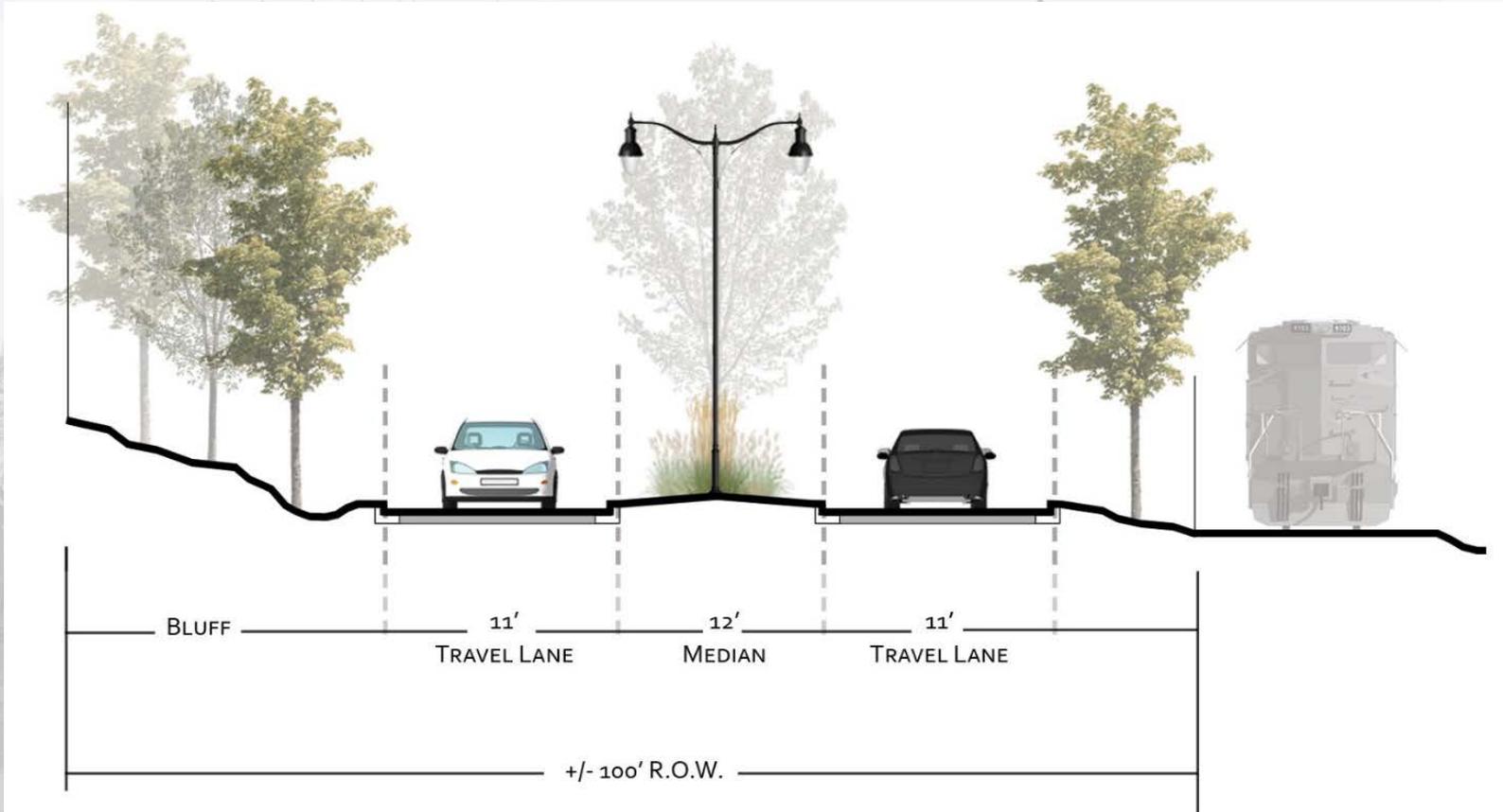
## Carver Corner:



**Section: 3 Lane with Median**

# Dissecting the Corridor | By District

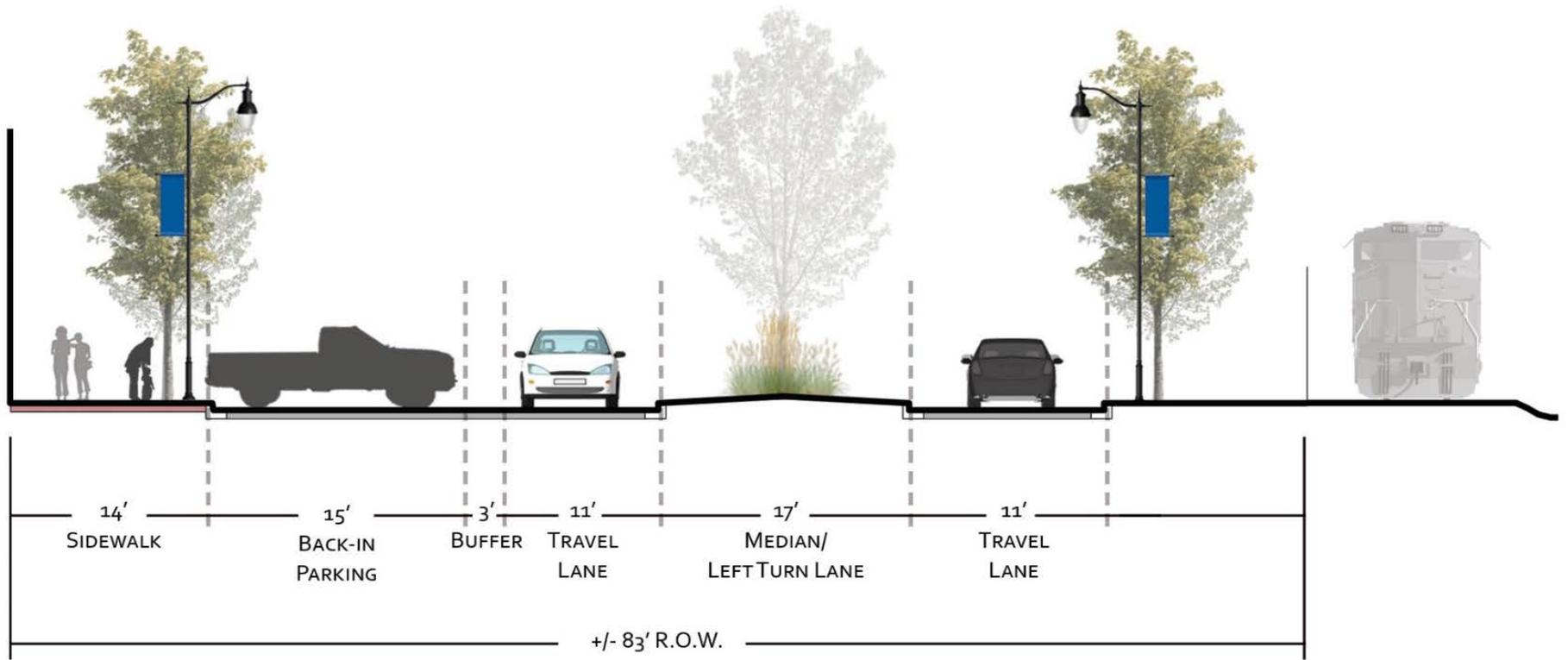
## Bluff District:



Section: 2 Lane with Median

# Dissecting the Corridor | By District

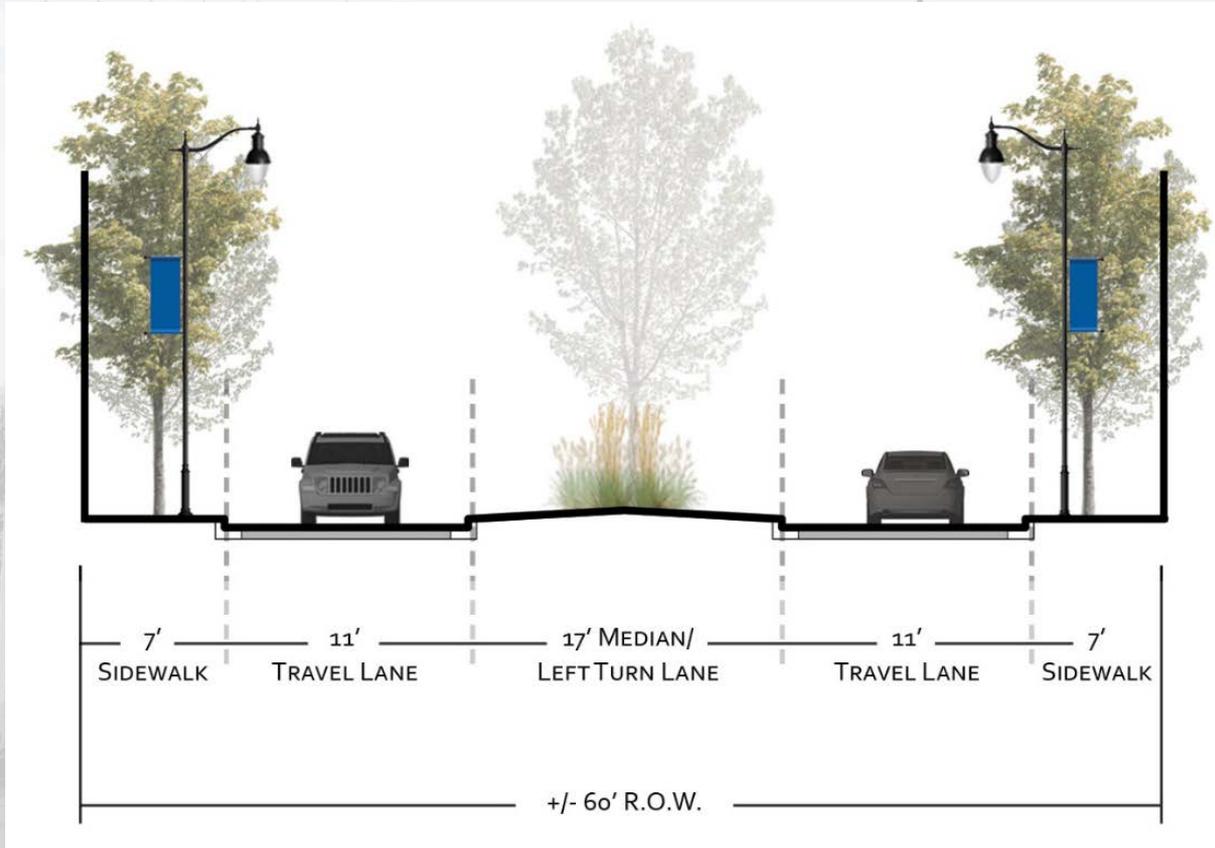
## Downtown District:



Section: 3 Lane with Median/Left Turn Lane

# Dissecting the Corridor | By District

## HNI Campus District:



**Section: 3 Lane with Median/Left Turn Lane**

# Intersection Design | Carver Corner Roundabout Alternative:



# Intersection Design | **Carver Corner**

## Roundabout Alternative:

### Pros:

- **Lower costs than signalized intersection**
- **Free flowing traffic**
- **Gateway to downtown**

### Cons:

- **Different traffic flow than before**
- **Impacts different properties than originally planned**



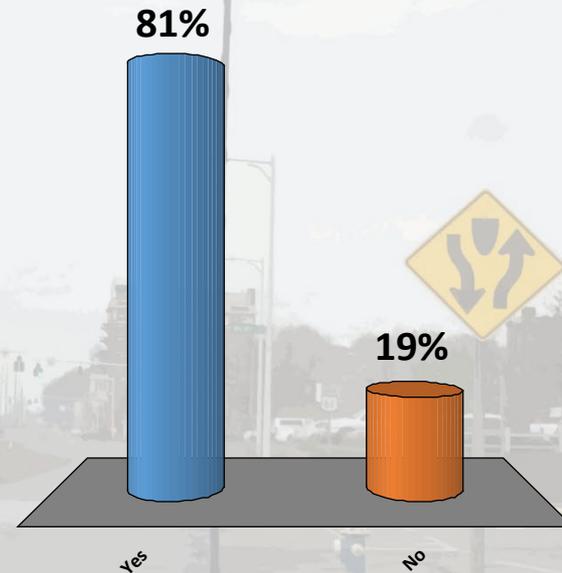
# Intersection Design | Carver Corner

## Roundabout Alternative:

If this option was feasible for implementation, would you be in favor?

A. Yes

B. No



# Intersection Design | Carver Corner

## Roadway "Sweep" Alternative:



# Intersection Design | **Carver Corner**

## Roadway “Sweep” Alternative

### Pros:

- **Traditional Design**
- **Free flowing traffic on Miss./Grandview**
- **Impacts same property initially planned**

### Cons:

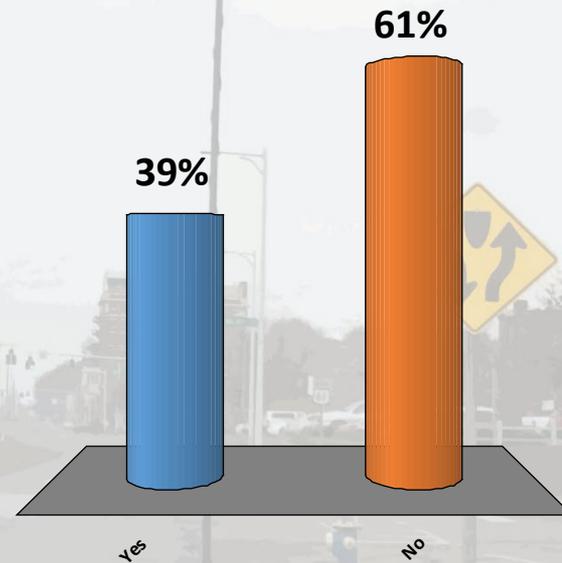
- **Higher Costs**
- **Less space for a “gateway entrance”**

# Intersection Design | Carver Corner

## Roadway “Sweep” Alternative

If this option was feasible for implementation, would you be in favor?

- A. Yes
- B. No



# Intersection Design | 2<sup>nd</sup> & Mulberry

## Roundabout Alternative:



# Intersection Design | **2<sup>nd</sup> & Mulberry**

## Roundabout Alternative:

### Pros:

- Lower costs
- Free flowing traffic, especially during events
- Gateway to downtown
- Better truck traffic flows

### Cons:

- Different traffic flow than before
- Bigger footprint
- Impacts different properties than originally planned



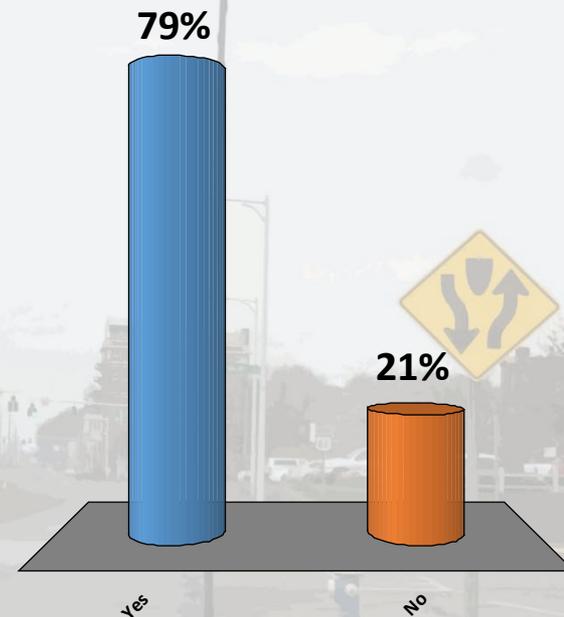
# Intersection Design | 2<sup>nd</sup> & Mulberry

## Roundabout Alternative:

If this option was feasible for implementation, would you be in favor?

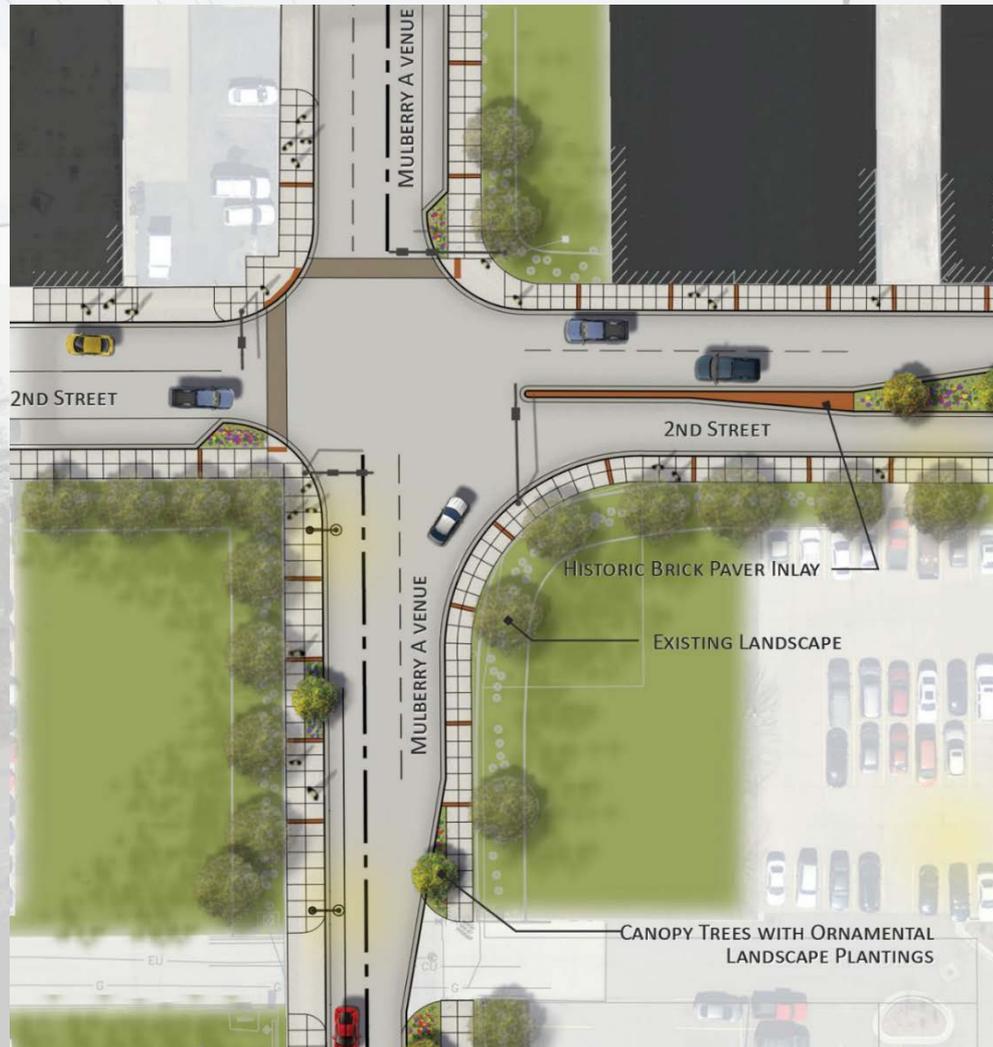
A. Yes

B. No



# Intersection Design | 2<sup>nd</sup> & Mulberry

## Traditional Signalized Intersection:



# Intersection Design | **2<sup>nd</sup> & Mulberry**

## Traditional Signalized Intersection:

### Pros:

- Traditional design
- Less footprint
- Impacts same properties that were initially planned

### Cons:

- Higher costs
- Less area for downtown gateway
- More traffic congestion during events
- Less truck movement opportunities



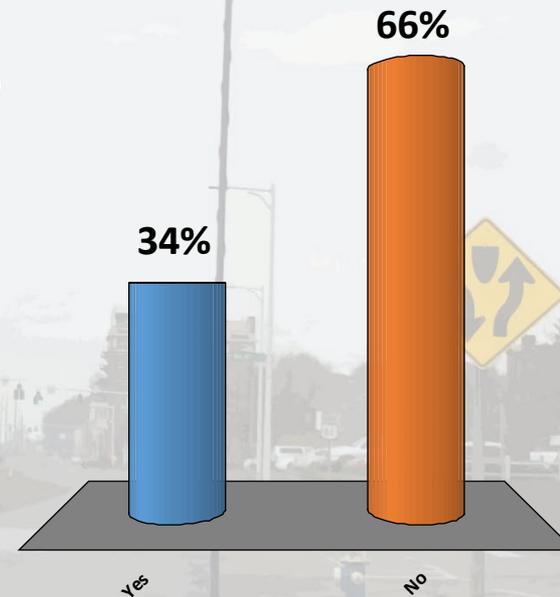
# Intersection Design | 2<sup>nd</sup> & Mulberry

## Traditional Signalized Intersection:

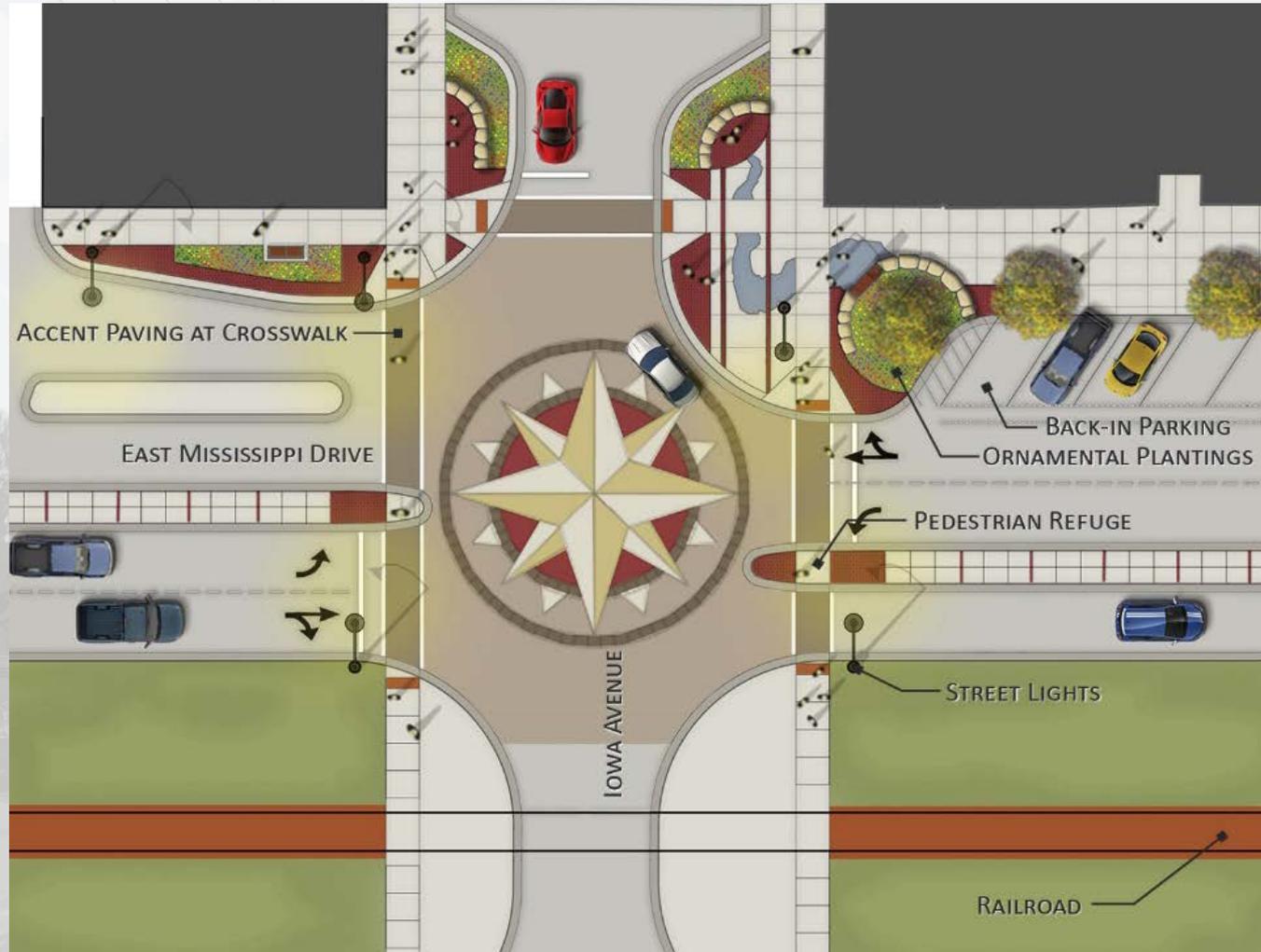
If this option was feasible for implementation, would you be in favor?

A. Yes

B. No



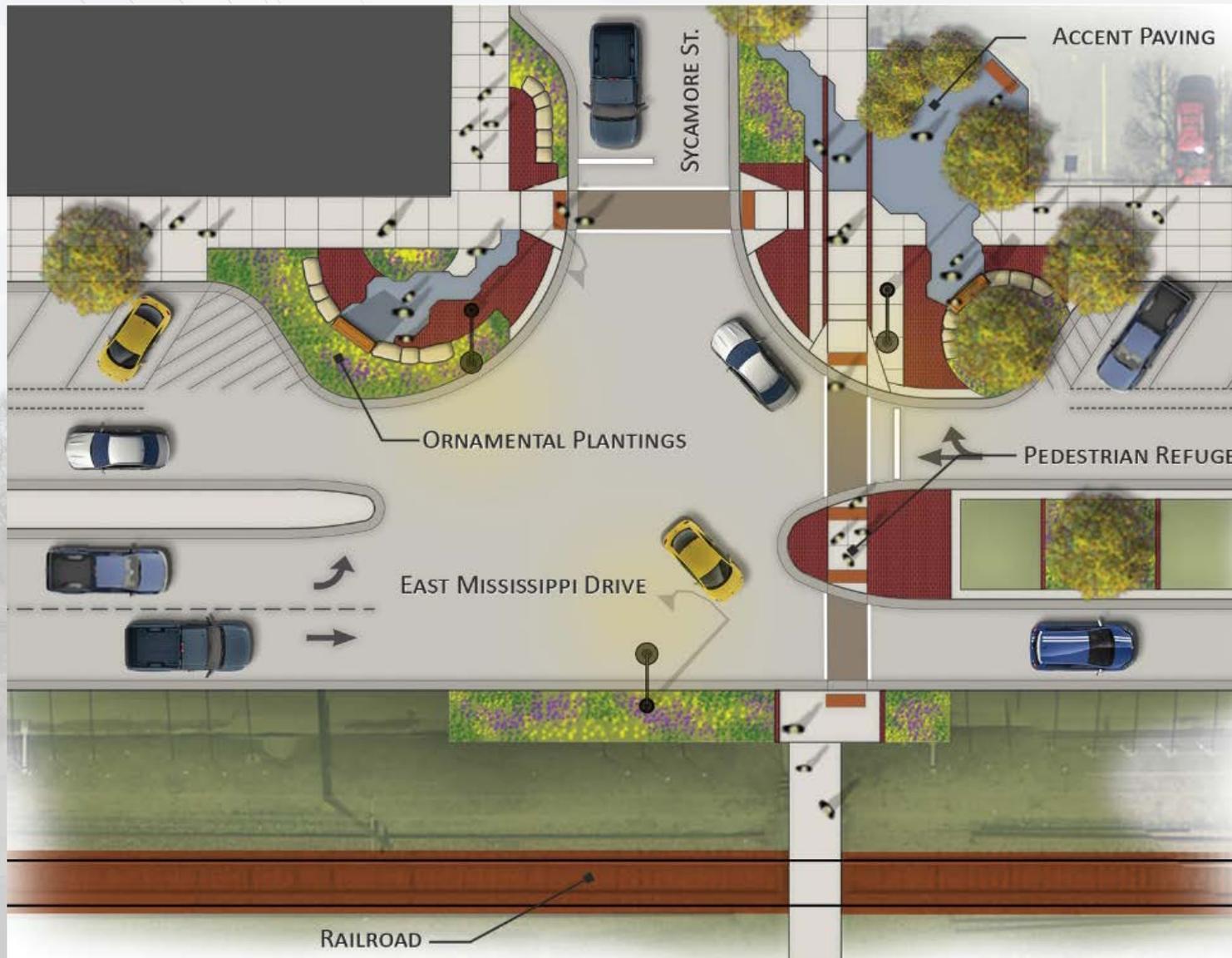
# Intersection Design | Iowa Ave.



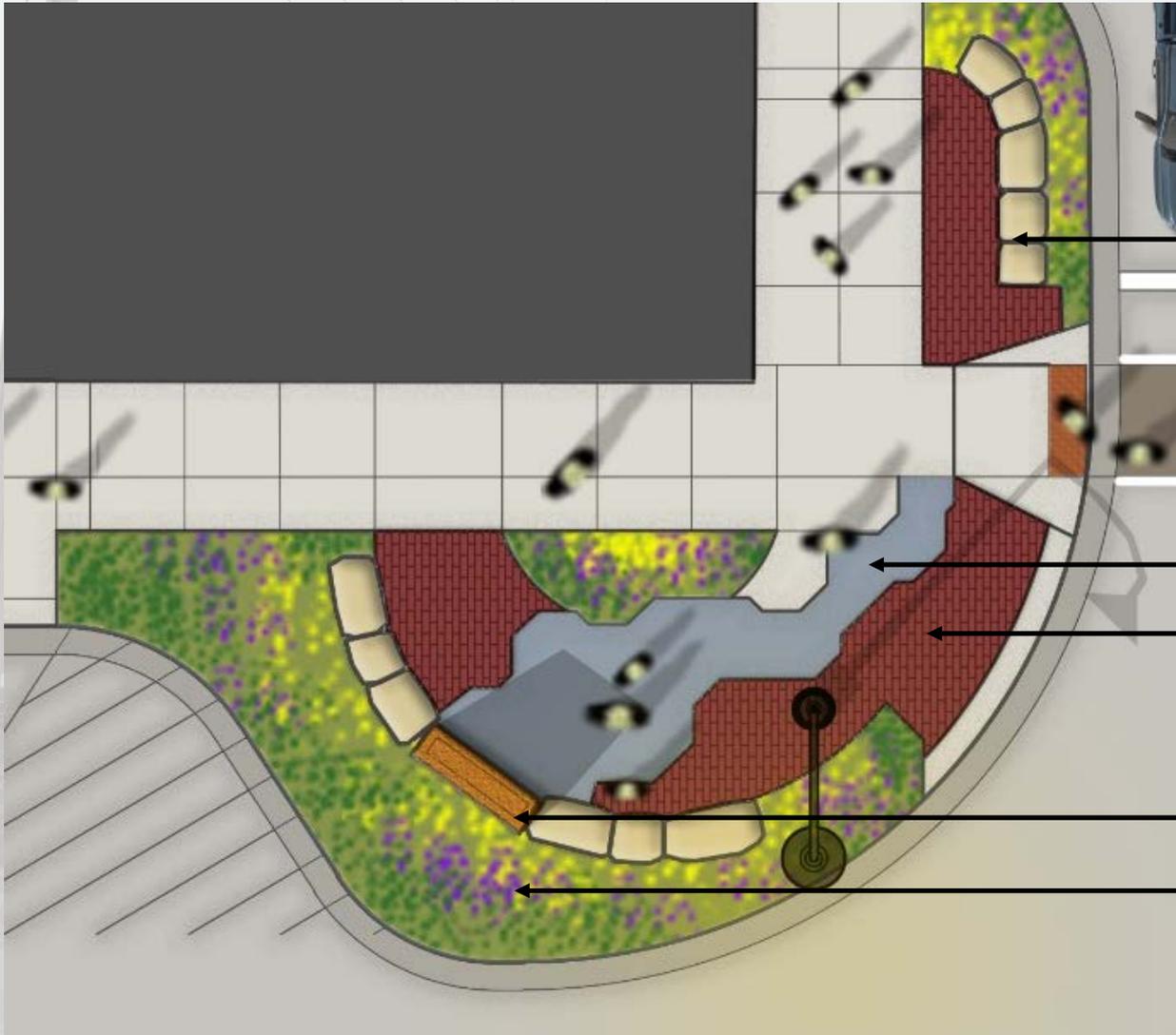
# Intersection Design | Detailed Design



# Intersection Design | Sycamore St.



# Intersection Design | Detailed Design



Limestone Outcroppings

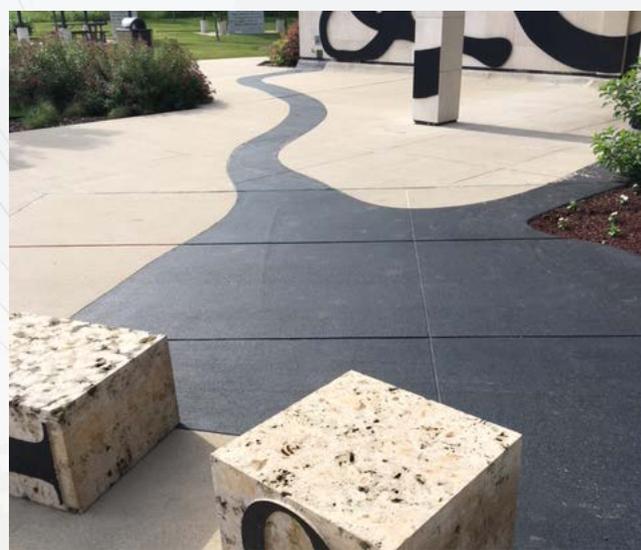
River Pattern paving Inlay

Decorative Pavers

Information Kiosk

Ornamental Planting

# Intersection Design | Detailed Design

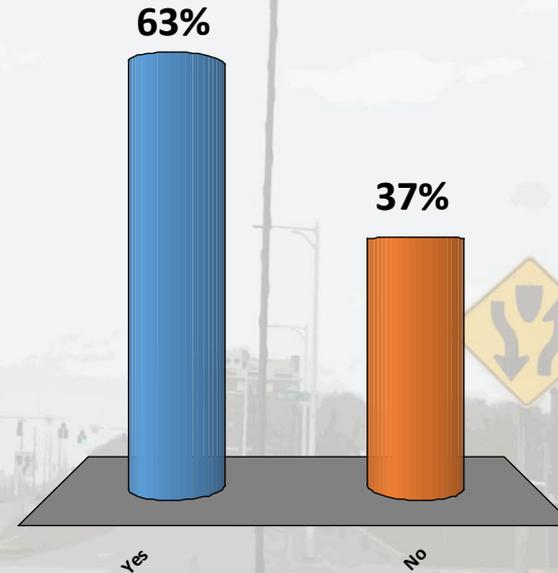


# Intersection Design | Detailed Design

Are you in favor of incorporating a “river pattern” into the sidewalk paving design?

A. Yes

B. No

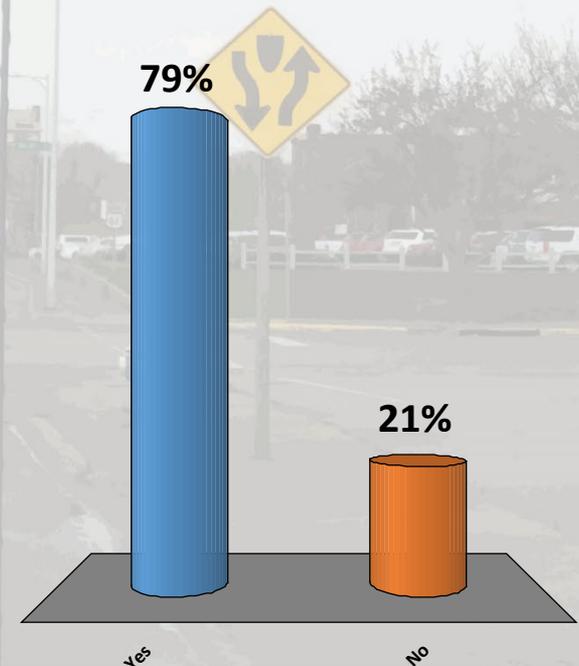


# Intersection Design | Detailed Design

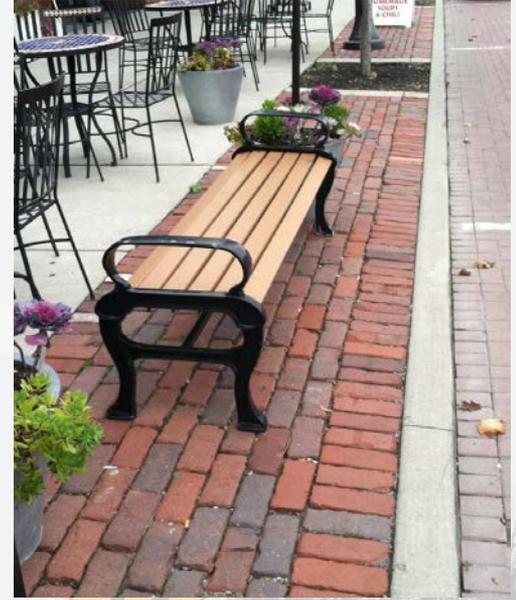
**Are you in favor of incorporating a design element into the intersection paving pattern, thinking specifically about Iowa and/or Sycamore?**

**A. Yes**

**B. No**

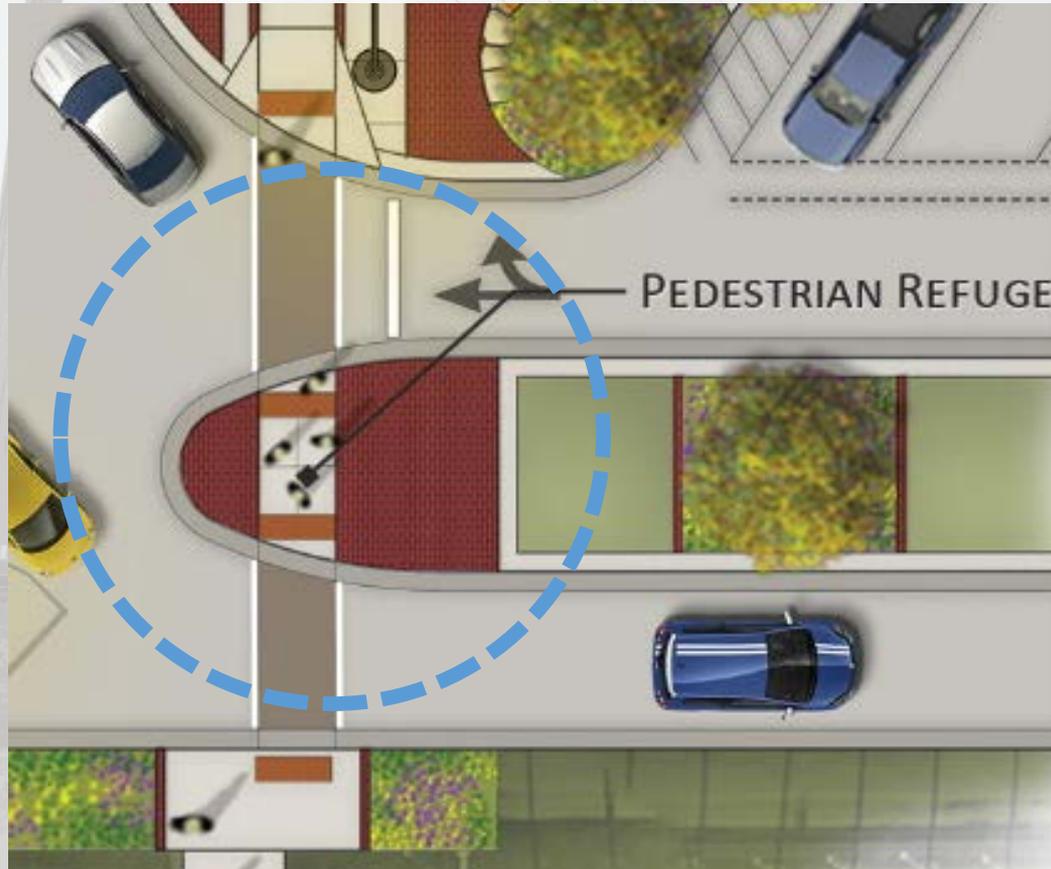


# Intersection Design | Detailed Design



# Intersection Design | Detailed Design

## Pedestrian Refuge:





# Streetscape Character | Materials/Finishes



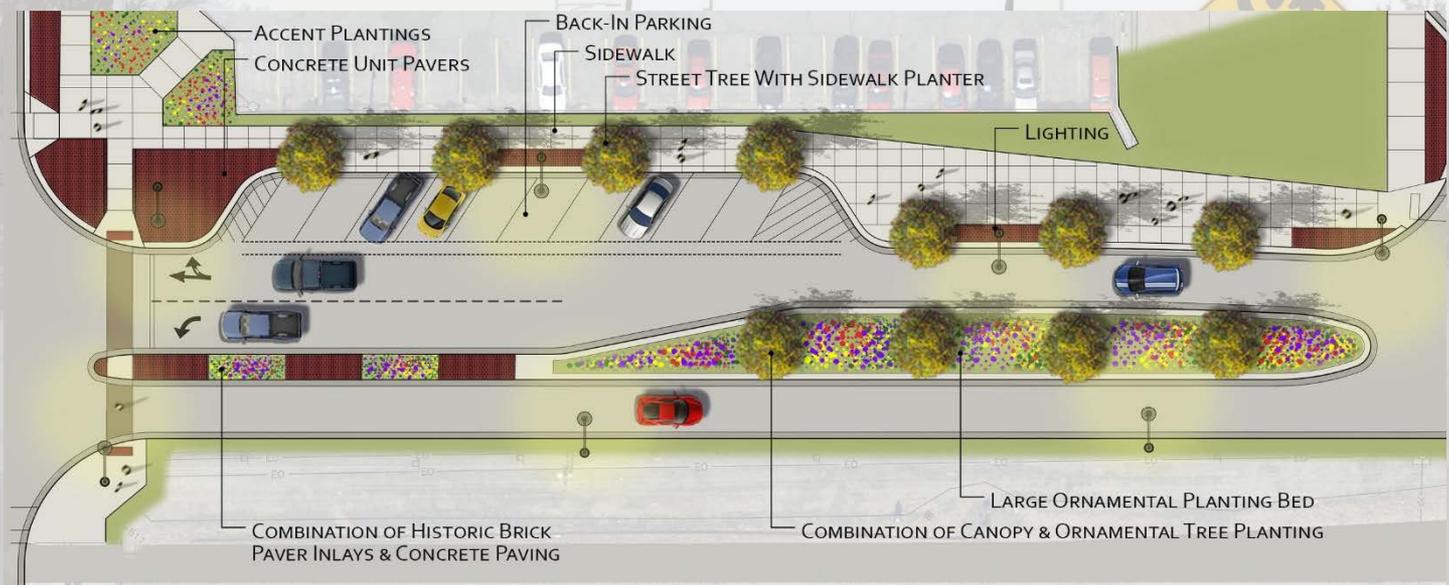
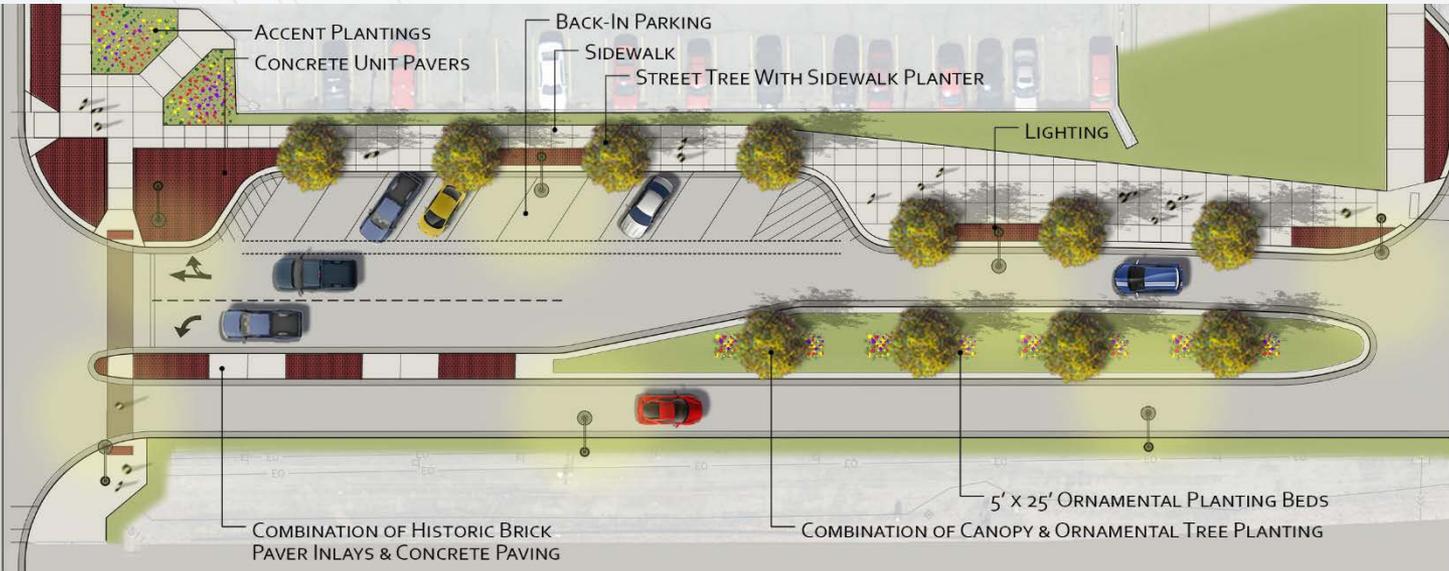
# Median Design | The Right Amount of Planting



# Median Design | The Right Amount of Planting



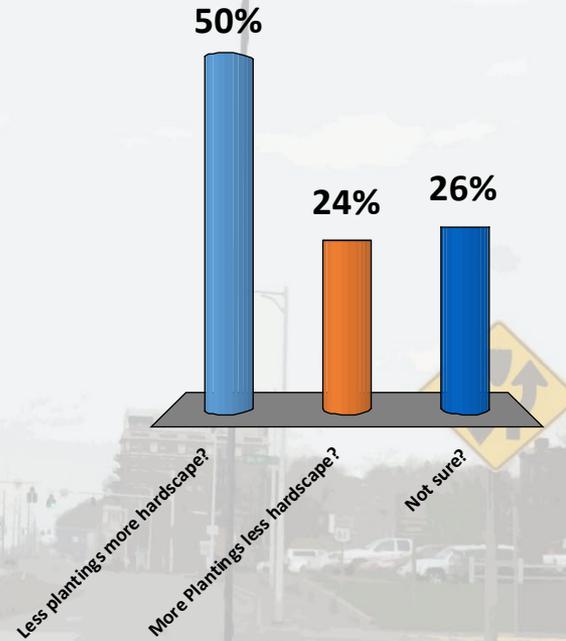
# Median Design | Levels of Landscaping



# Median Design | The Right Amount of Planting

**Do you prefer:**

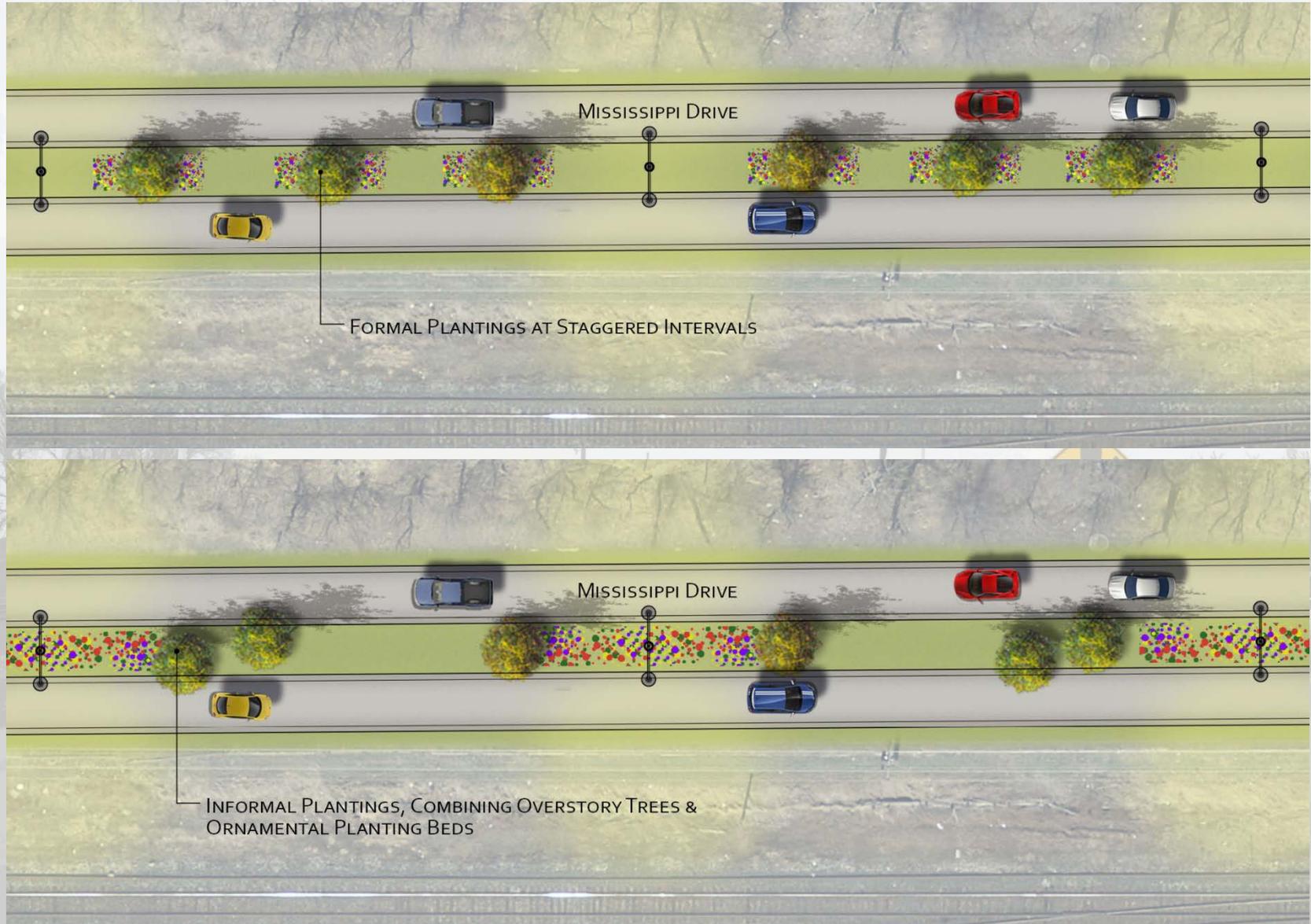
- A. Less plantings more hardscape?**
- B. More Plantings less hardscape?**
- C. Not sure?**



# Median Design | The Right Amount of Planting



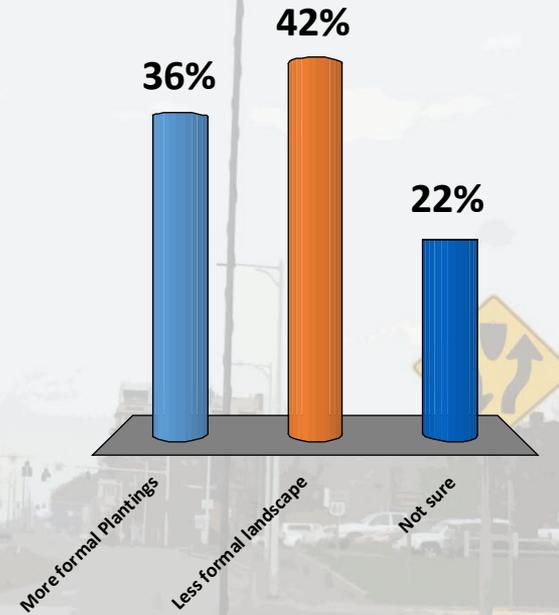
# Median Design | The Right Amount of Planting



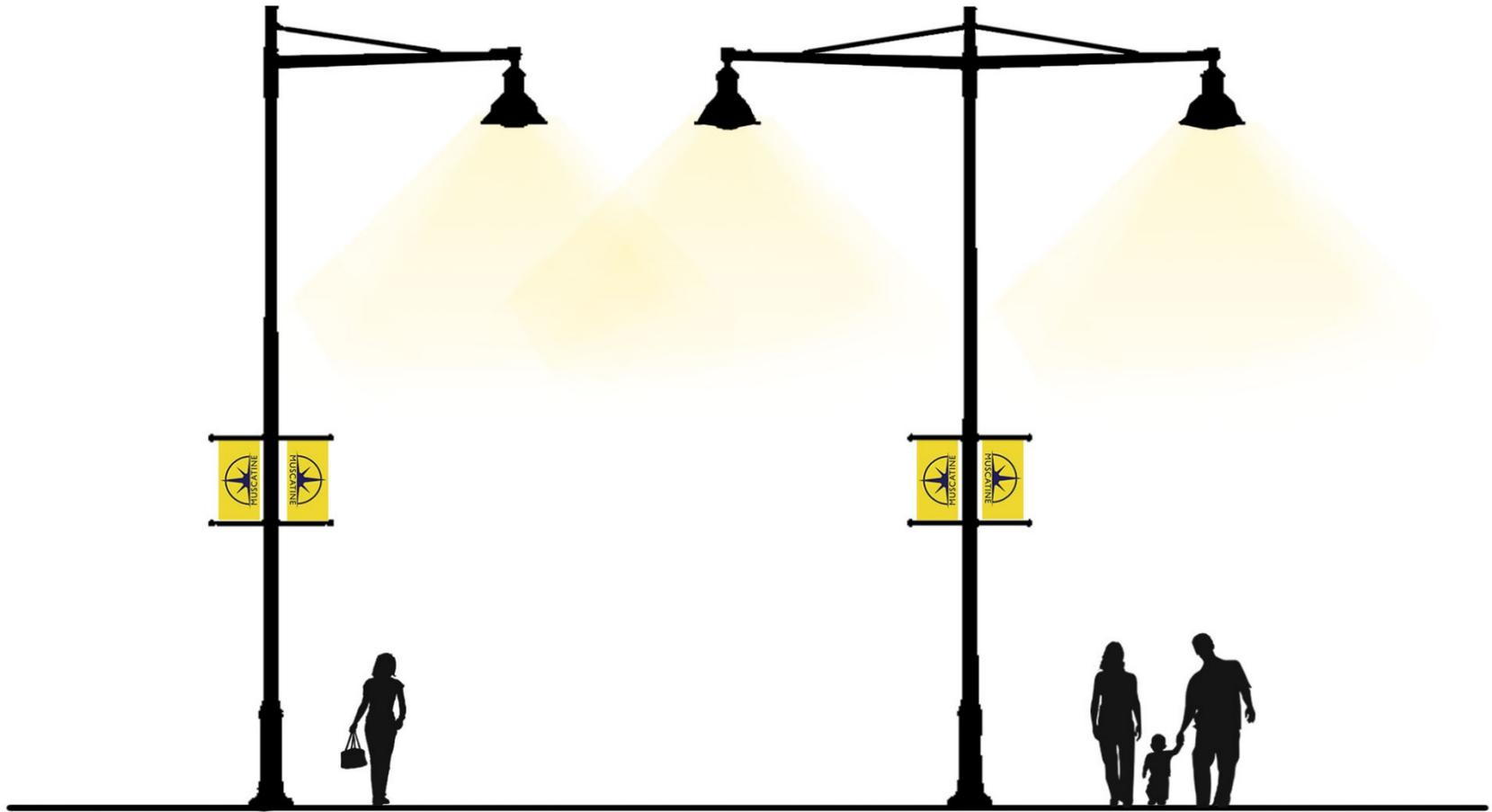
# Median Design | The Right Amount of Planting

## In the Bluff Area, do you prefer:

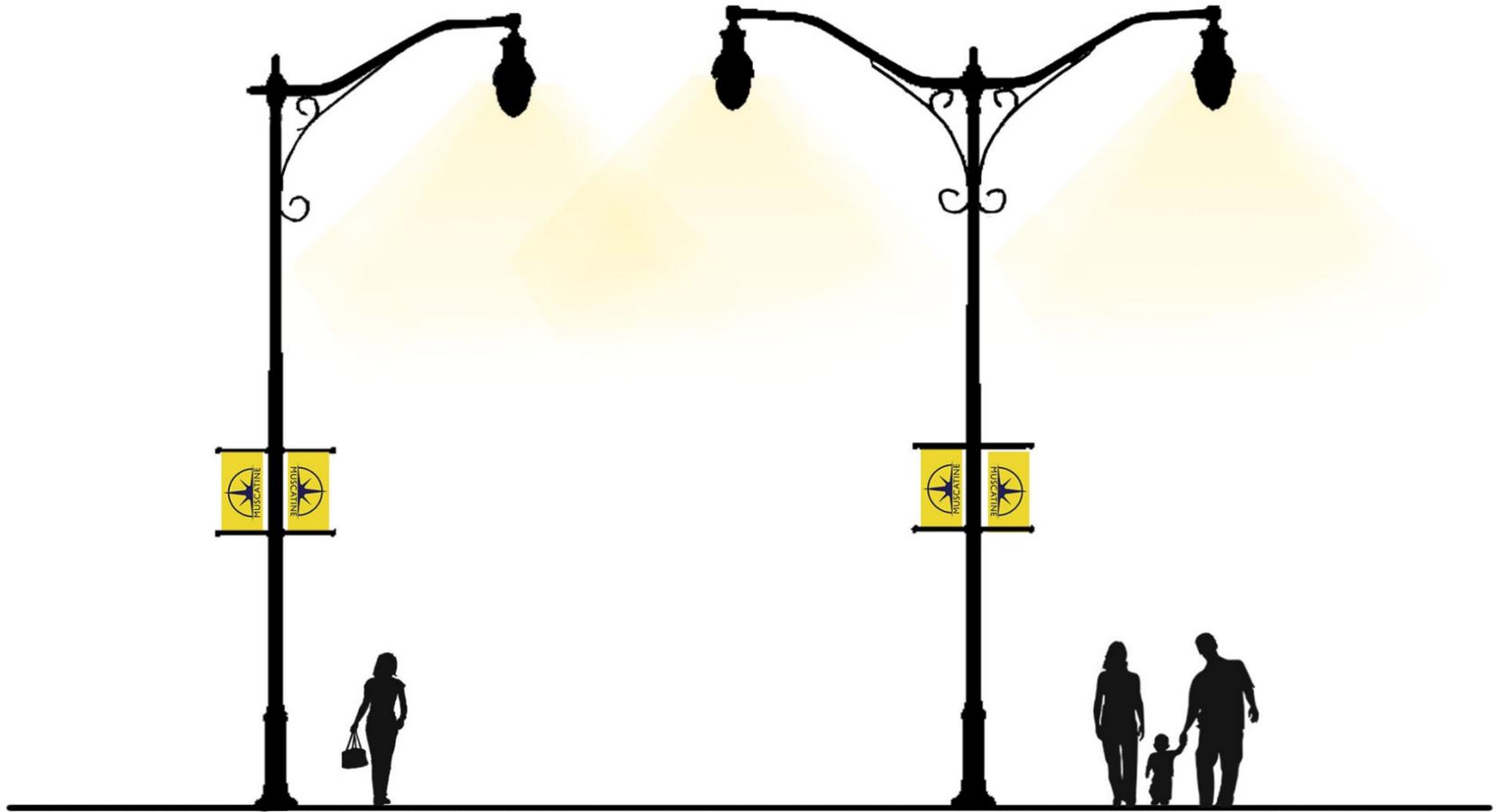
- A. More formal Plantings
- B. Less formal landscape
- C. Not sure



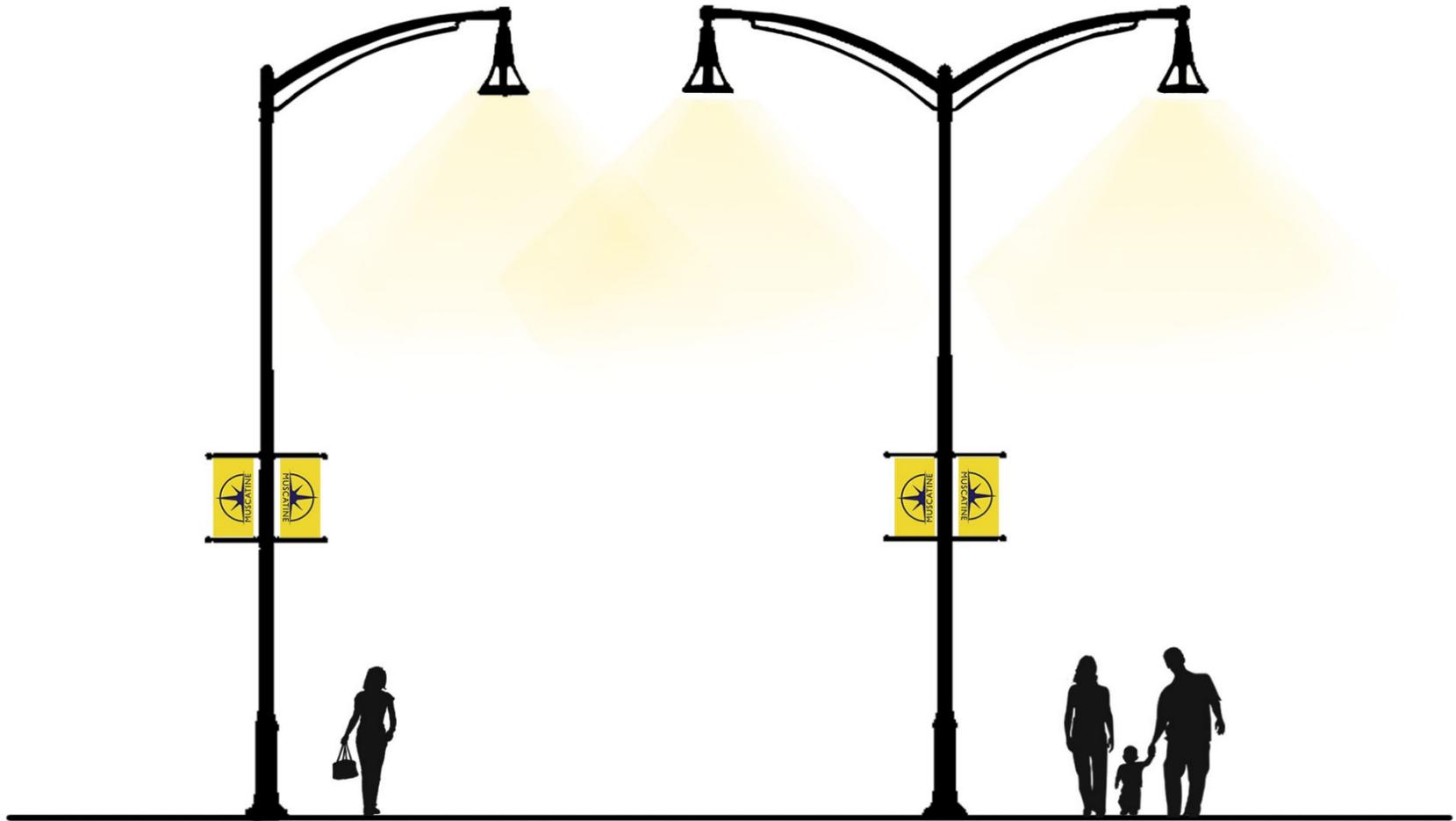
# Streetscape Character | Lighting



# Streetscape Character | Lighting



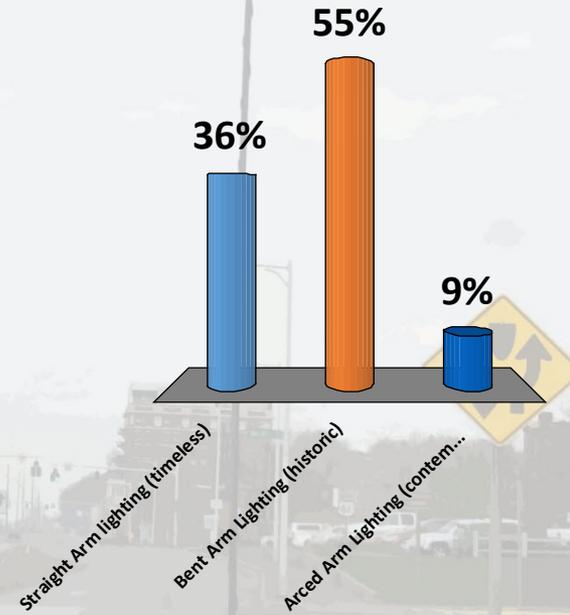
# Streetscape Character | Lighting



# Streetscape Character | Lighting

**Do you prefer:**

- A. Straight Arm lighting (timeless)**
- B. Bent Arm Lighting (historic)**
- C. Arced Arm Lighting (contemporary)**



## ...What's Next?

### To Do List:

- Develop refined concepts based on feedback from tonight
- Coordinate with other agencies, MPW, and CP Railway
- Present concepts to Community and City Council
- Develop Final Plans and Specifications
- Bidding and Construction

**...Thanks  
& Good  
Night!**

