

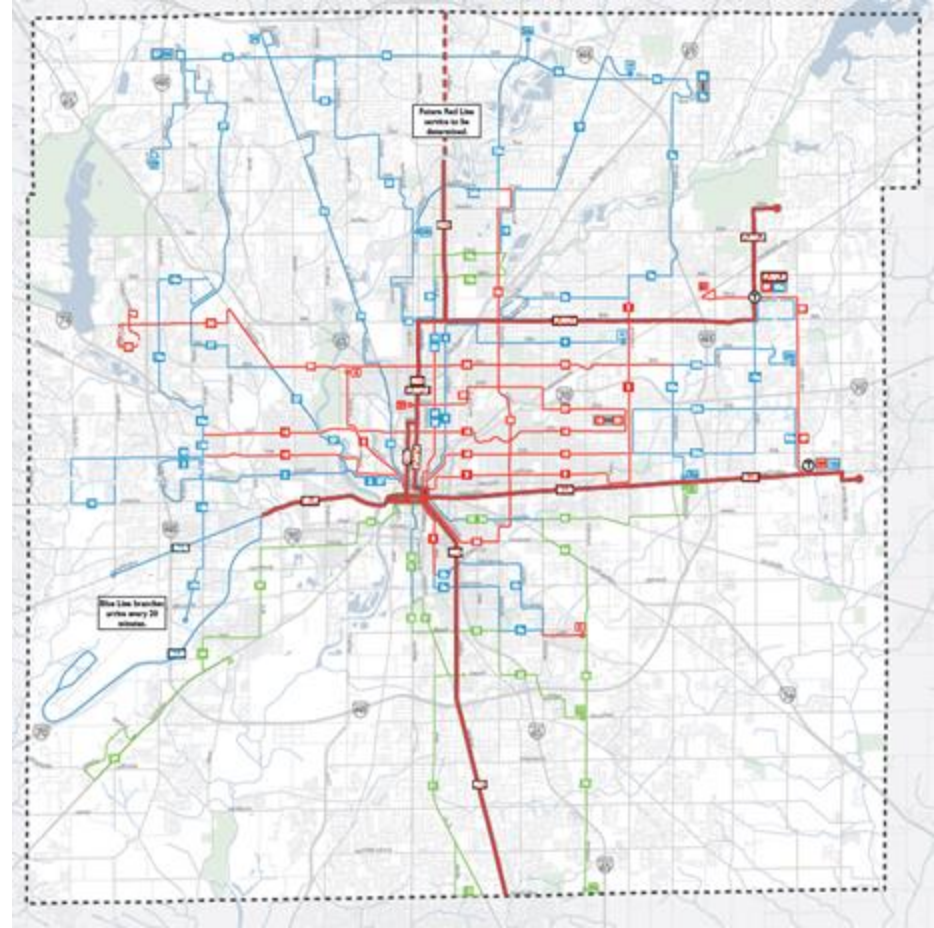
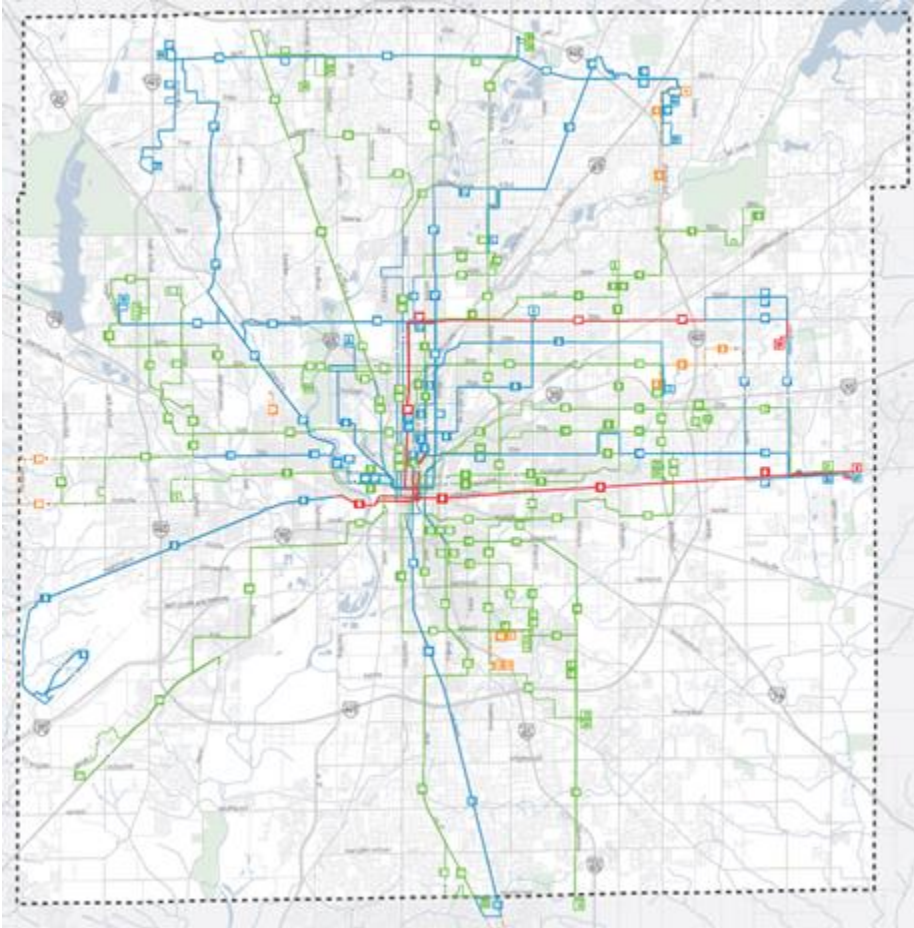
Blue Line Rapid Transit

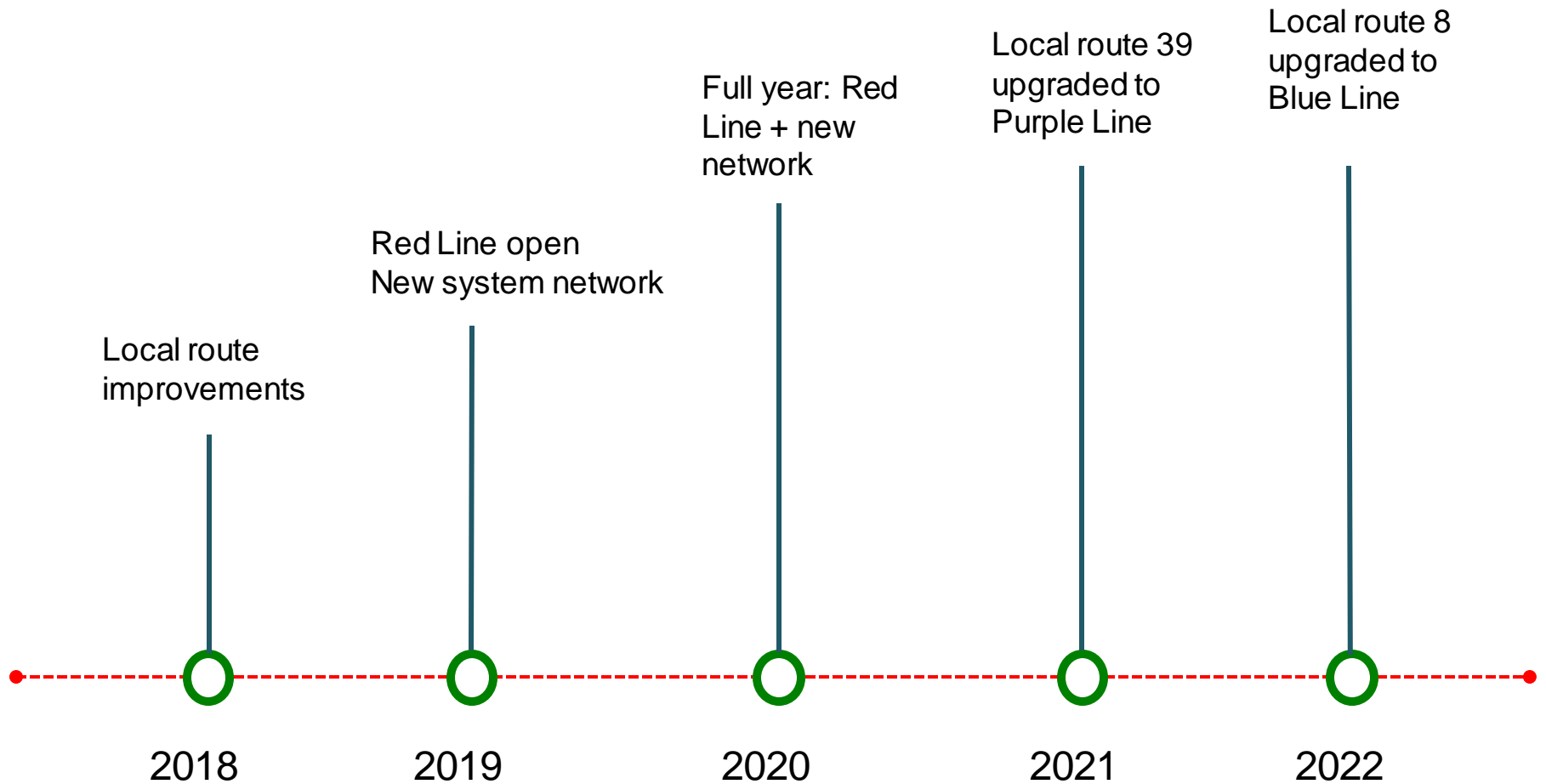
May 2018



IndyGo

MARION COUNTY TRANSIT PLAN





ANTICIPATED TIMELINE

RAPID TRANSIT IS FAST



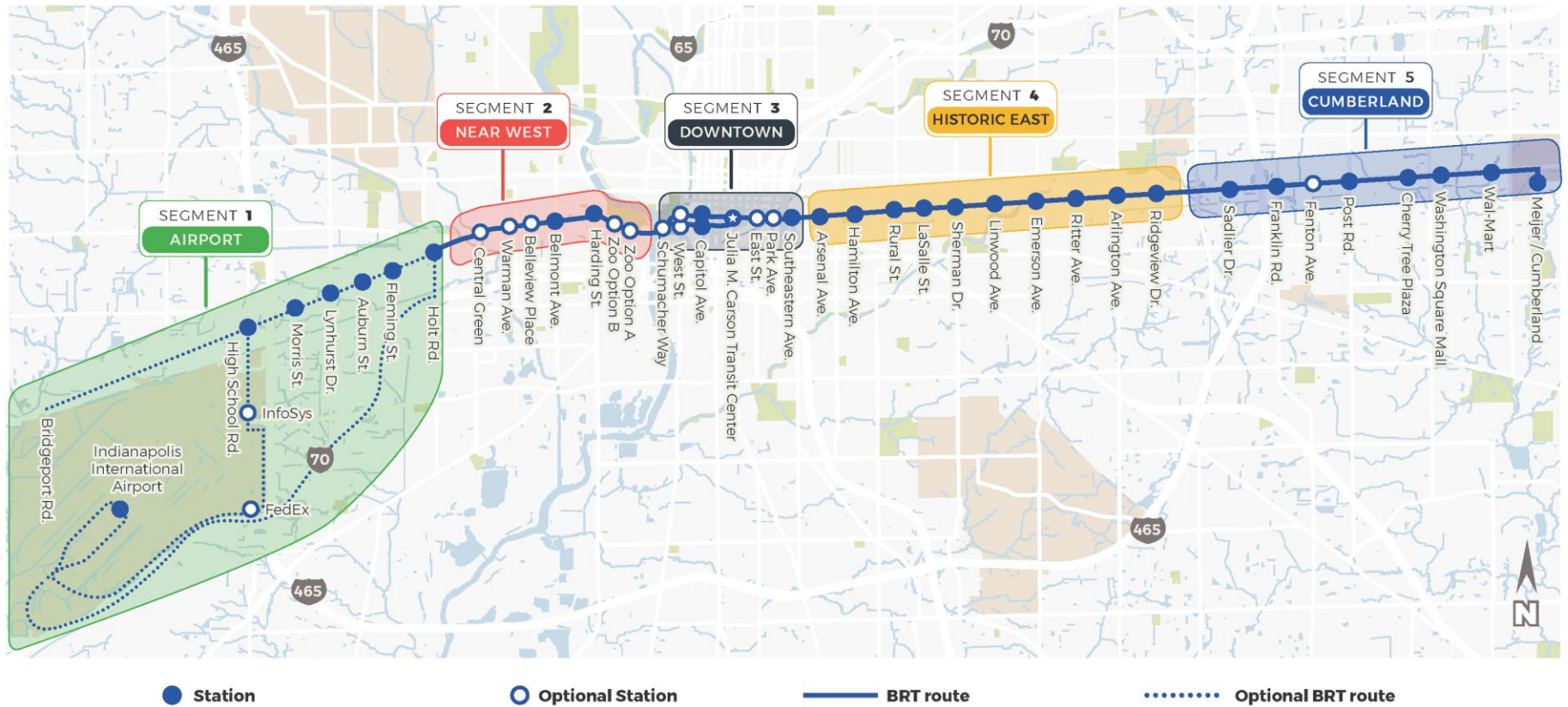
RAPID TRANSIT IS FREQUENT



RAPID TRANSIT IS COMFORTABLE



BLUE LINE – SEGMENT BREAKDOWN





OVERVIEW: BLUE LINE

- Upgrade Route 8
- Approx. 20 miles
- Bus arriving every 10 mins in peak, service for 20 hours/ day
- 60ft battery electric buses
- Anticipated opening 2022



Benefits: Infrastructure

- Improvements to:
 - Sidewalks
 - Drainage
 - Pavement
 - Traffic Signals



Benefits: Travel Time & Ridership

- Airport to Downtown – 45 min → 30 min
- Irvington to Downtown – 22 min → 13 min
- Washington Square Mall to Downtown – 40 min → 25 min



Project Schedule

2012/2013: Alternatives Analysis

2016: Adoption in Marion County Transit Plan Referendum

2018: Design Consultant Selected

April 2018: Initial Design Corridor Advisory Committees

May/June 2018: Initial Design Public Meetings Grant

August 2018: Small Stars Grant Application

2020/2021: Construction

CONCEPTUAL STATION DESIGN: CENTER

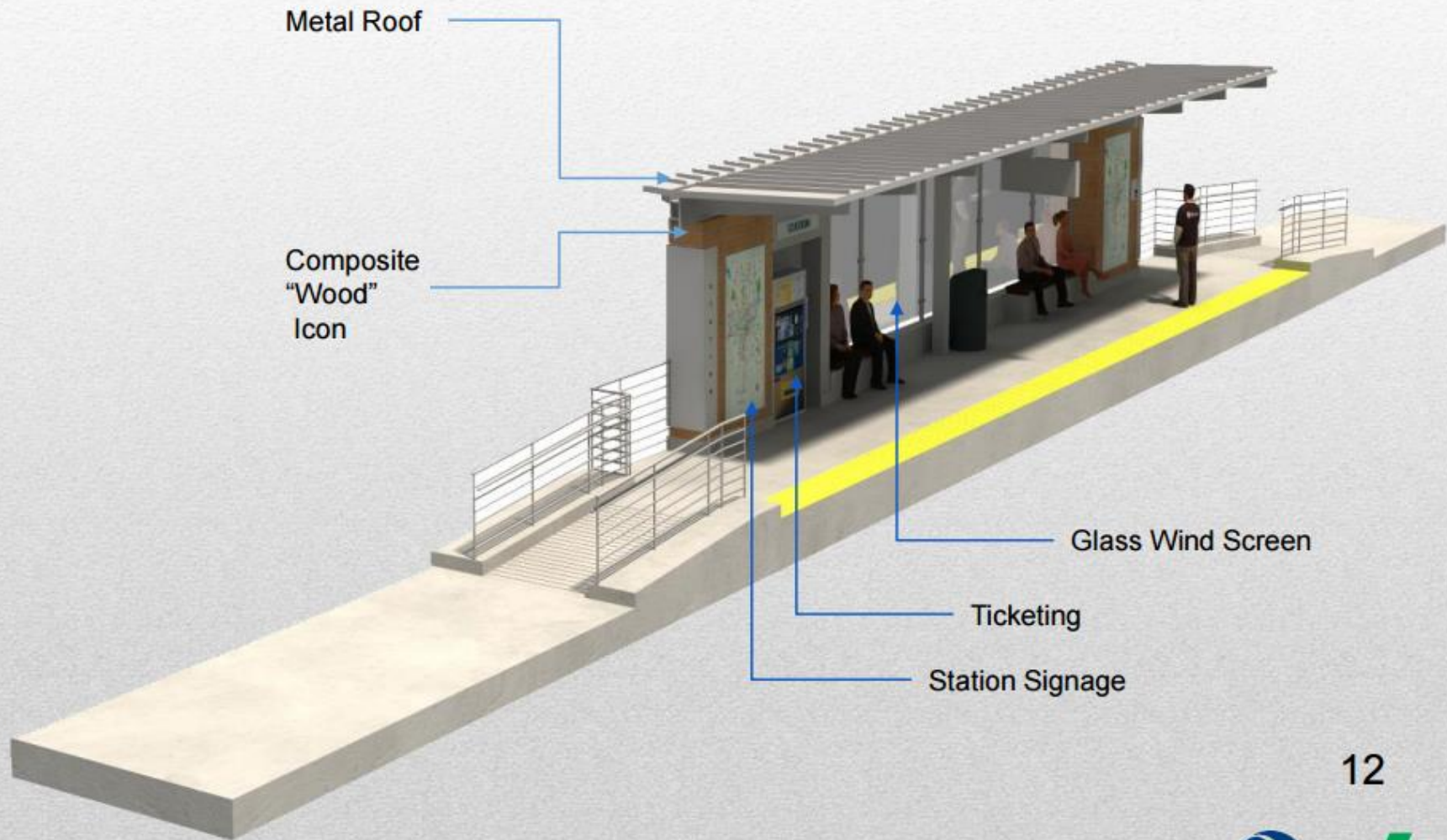


5

RENDERING: CHILDREN'S MUSEUM



CONCEPTUAL STATION DESIGN: CURBSIDE



12

RENDERING: FOUNTAIN SQUARE



WHAT IS TOD?

TRANSIT ORIENTED DEVELOPMENT

TOD is a way of building neighborhoods around quality public transit. These neighborhoods share key qualities.

Mixed-Use: Homes, shops, and jobs are all close to each other and close to a transit stop.

Walkability: Streets have plenty of sidewalks and connect frequently, making it easy to get around by foot or bike.

Density: Homes and businesses are close together. Entrances are along the sidewalk, while parking is usually in back.

TOD TYPOLOGIES There are four types of TOD neighborhoods, each with its own strategies and challenges. These are examples of how development should be guided at different transit stops.

CBD
CENTRAL BUSINESS DISTRICT

Dense core of the city with high-rise buildings and active public spaces.



DC
DISTRICT CENTER

Cultural and commercial hub for many neighborhoods.



CC
COMMERCIAL CENTER

Convert malls and strip commercial to mixed-use neighborhoods.



WN
WALKABLE NEIGHBORHOOD

Walkable neighborhood with mixed-use center at transit stop.



WHERE IS TOD?

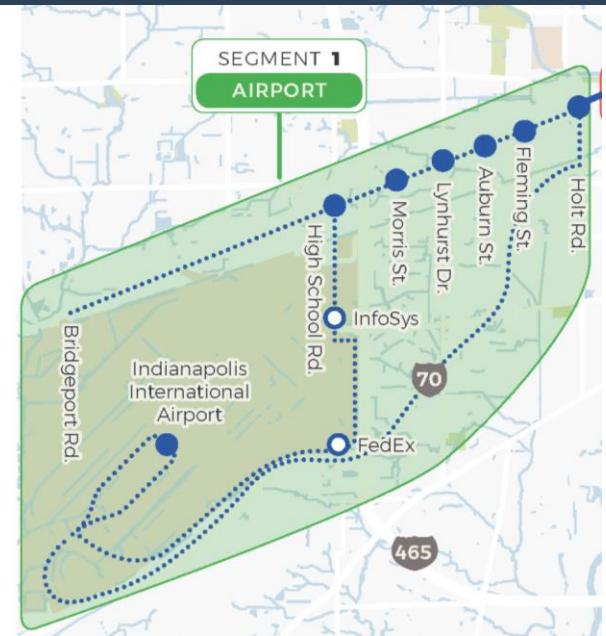
ALONG BUS RAPID TRANSIT (BRT) LINES



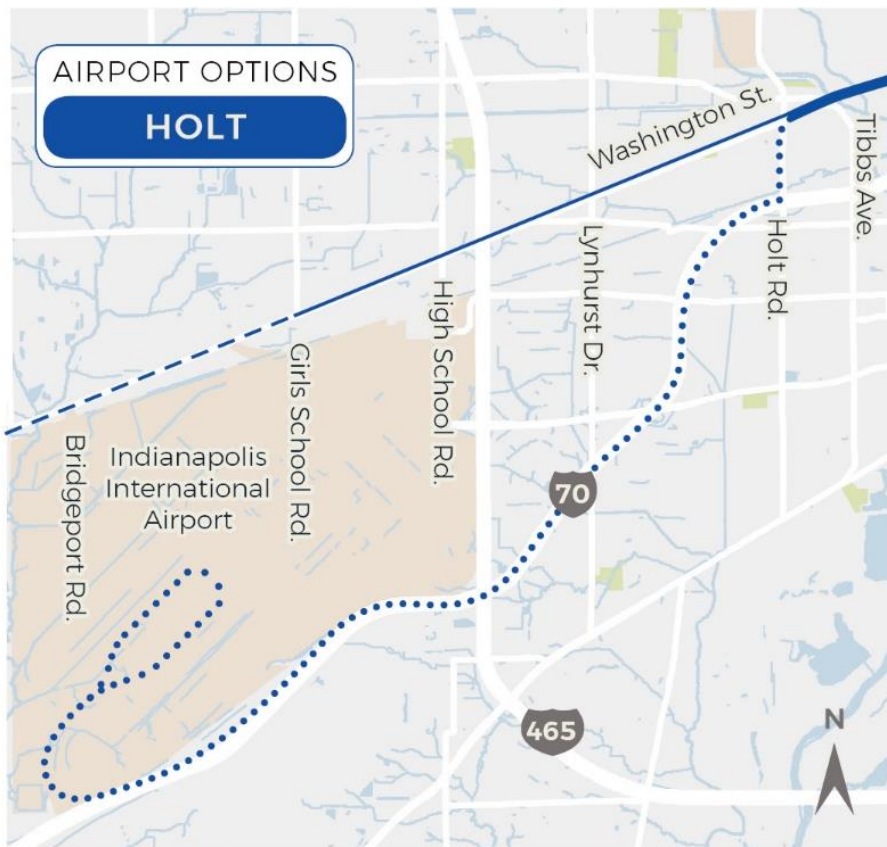


SEGMENT 1– CHALLENGES

- Route
- Infrastructure Condition
- Low-Density Land Use
- Access Control
- Future Extensions



SEGMENT 1: ROUTING ALTERNATIVES

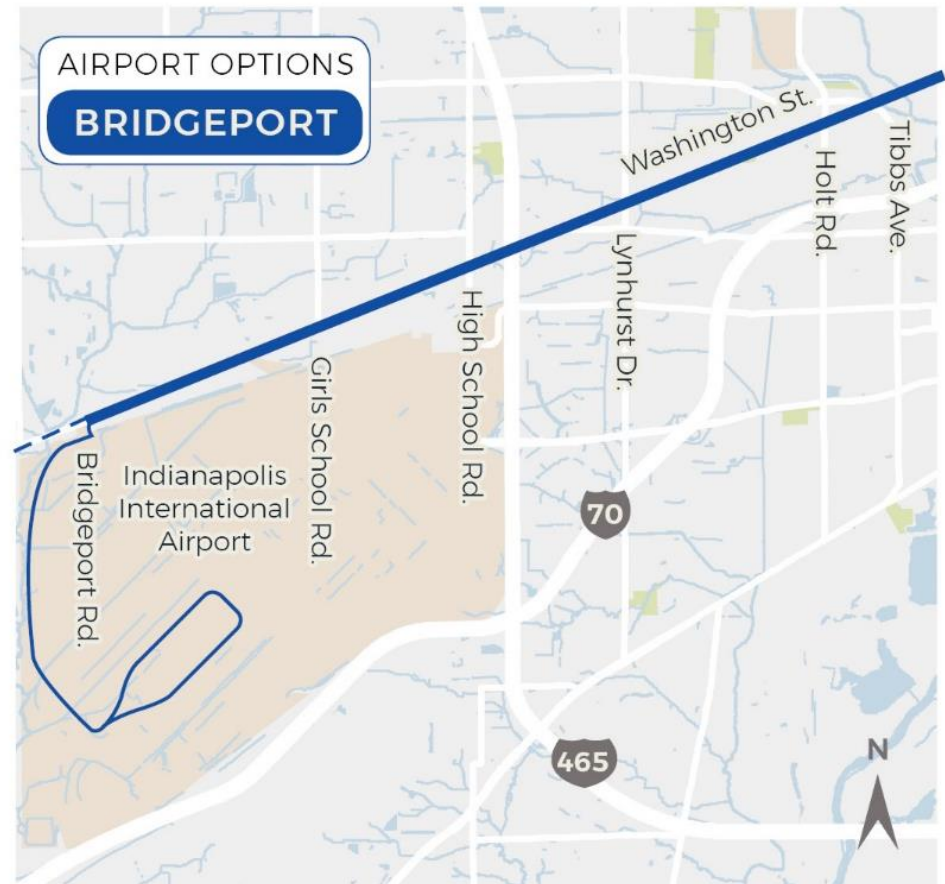


BRT SERVICE - 10 MINUTE FREQUENCY

BRT SERVICE - 20 MINUTE FREQUENCY

EXPRESS SERVICE - 20 MINUTE FREQUENCY

FUTURE EXTENSION - 20 MINUTE FREQUENCY

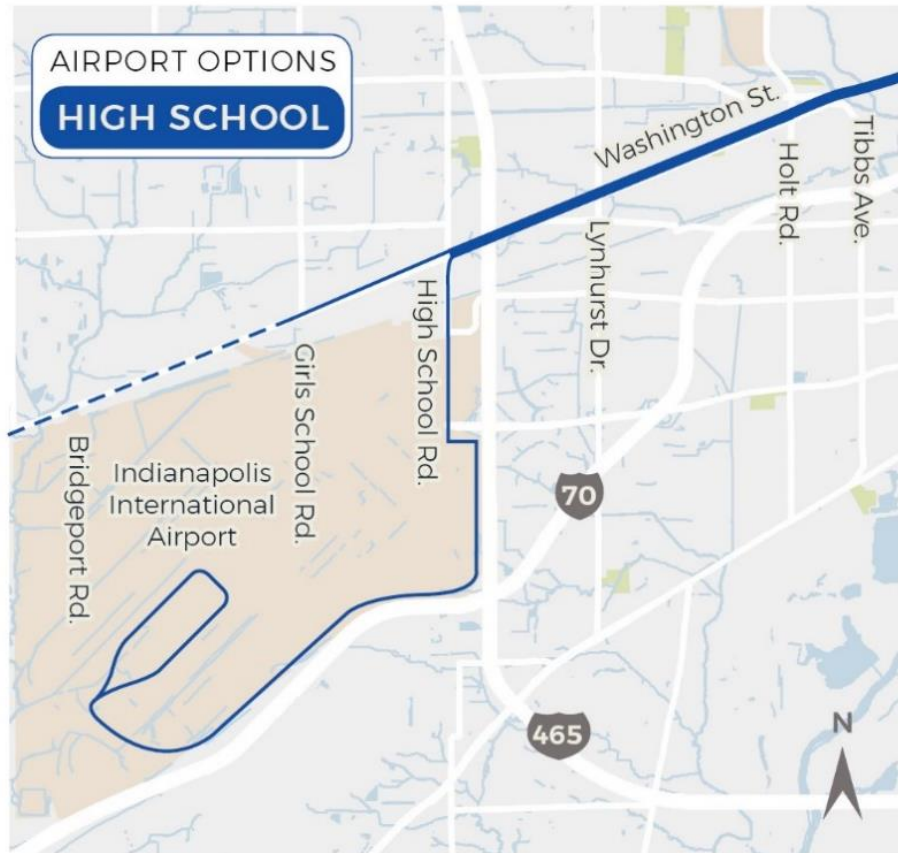


BRT SERVICE - 10 MINUTE FREQUENCY

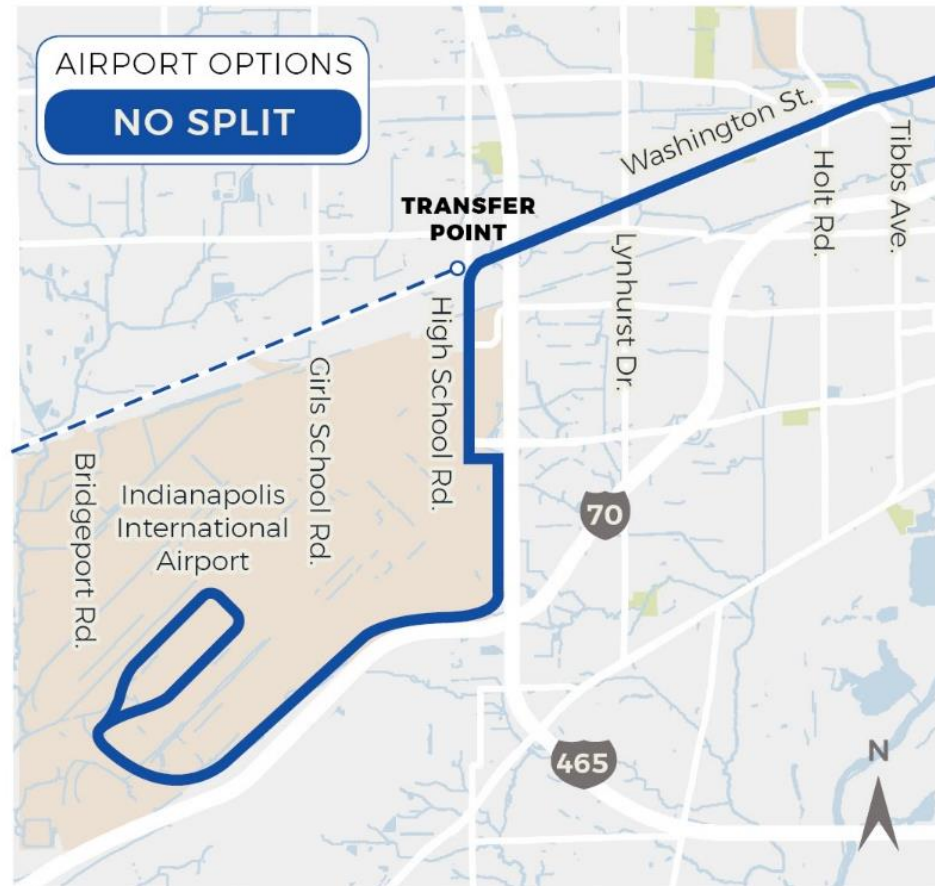
BRT SERVICE - 20 MINUTE FREQUENCY

FUTURE EXTENSION - 20 MINUTE FREQUENCY

SEGMENT 1: ROUTING ALTERNATIVES



- BRT SERVICE - 10 MINUTE FREQUENCY**
- BRT SERVICE - 20 MINUTE FREQUENCY**
- FUTURE EXTENSION - 20 MINUTE FREQUENCY**



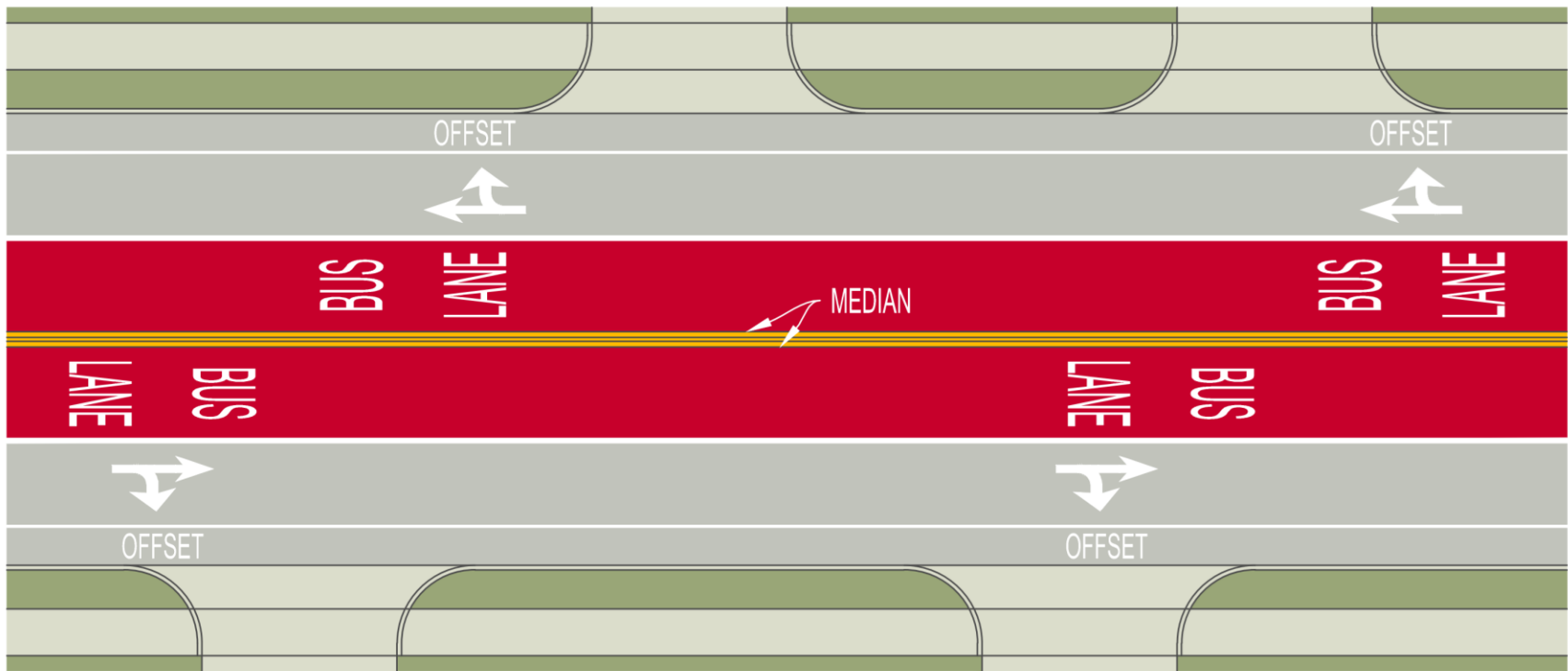
- BRT SERVICE - 10 MINUTE FREQUENCY**
- FUTURE EXTENSION - 10 MINUTE FREQUENCY**



Traffic Analysis

- Detailed Traffic Analysis in progress
- Some increased delay expected in some segments, but limited to certain thresholds (LOS D)

SEGMENT 1: LANE OPTIONS

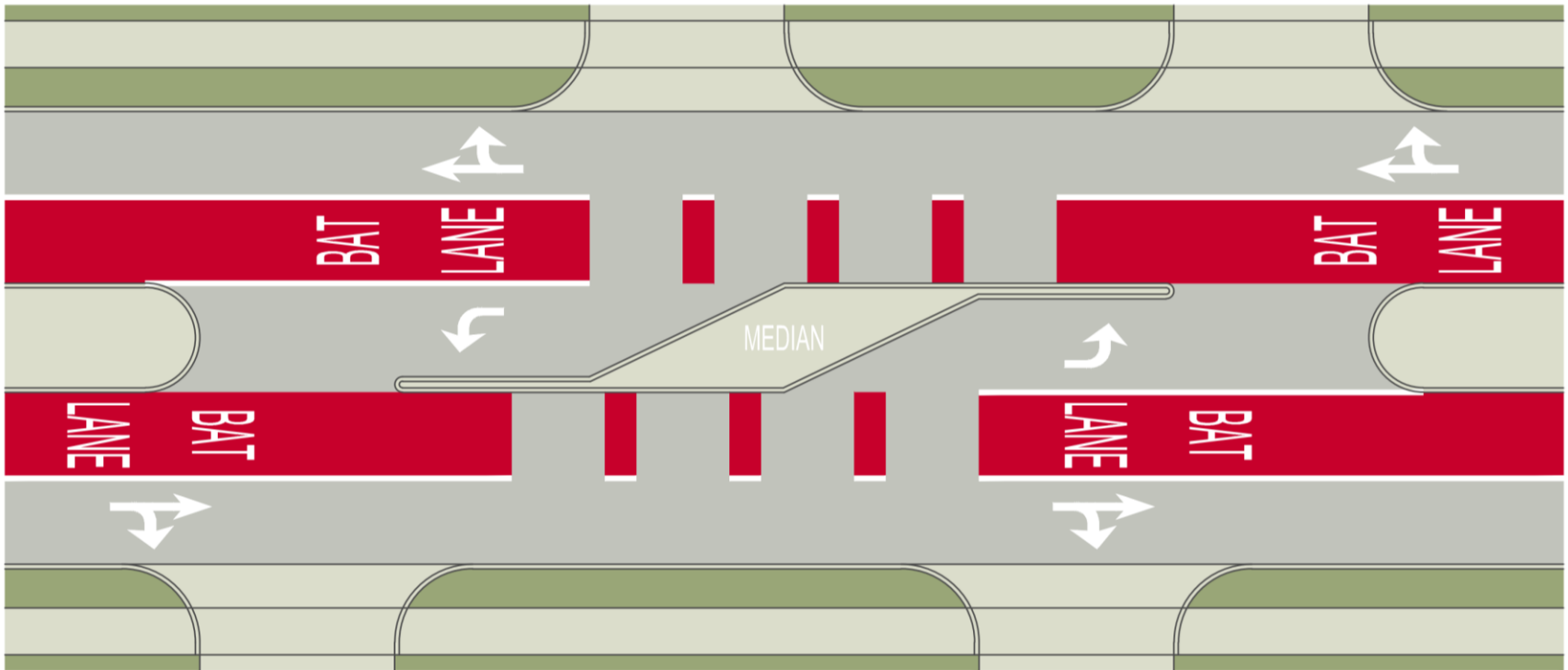


Center Exclusive



Median Exclusive: Animation

SEGMENT 1: LANE OPTIONS

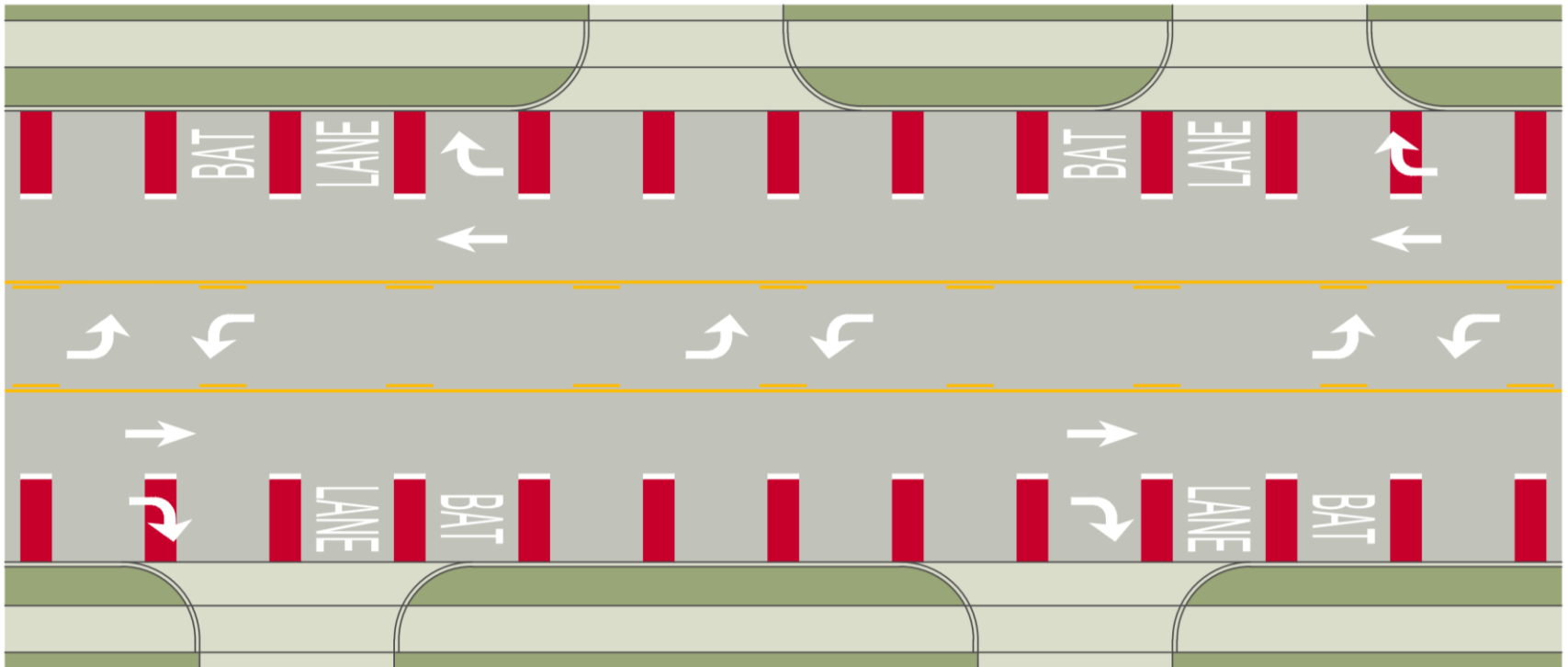


Left BAT

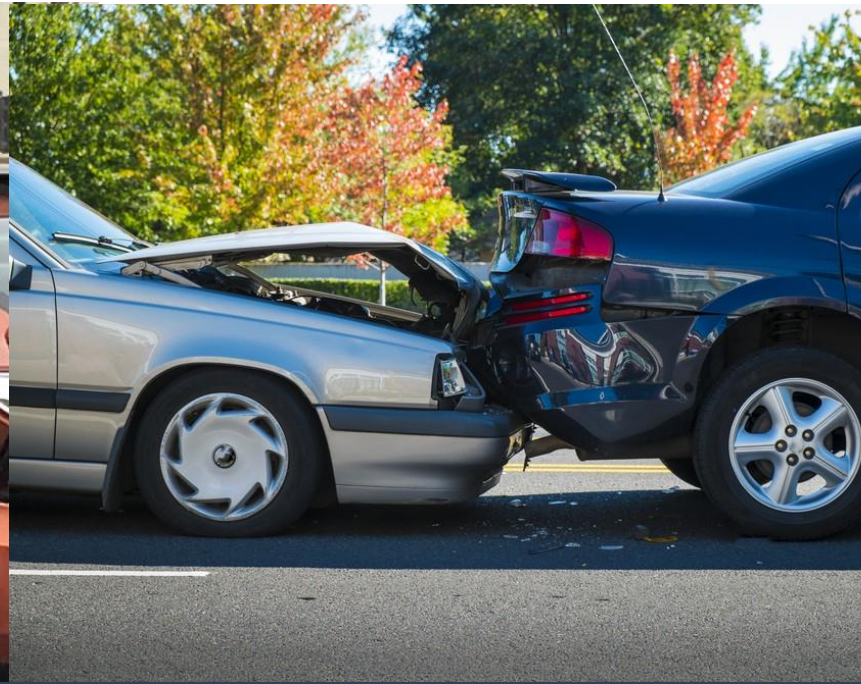
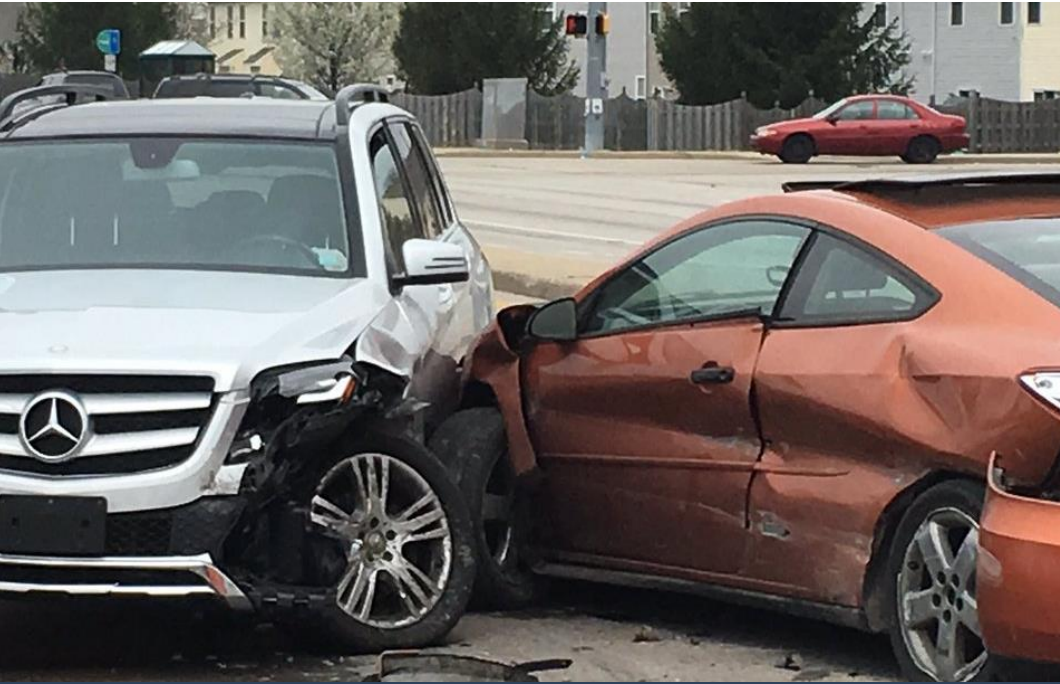


Left lane bat Animation

SEGMENT 1: LANE OPTIONS


















Right BAT



LEFT TURNS AND U-TURNS: SAFETY BENEFITS

- Washington Street inside I-465 is a high-crash corridor
- 1,914 crashes, 10 fatalities, and 613 injuries from 2015-2017
- 27% of crashes are the types that could be significantly reduced or eliminated by limiting left turns

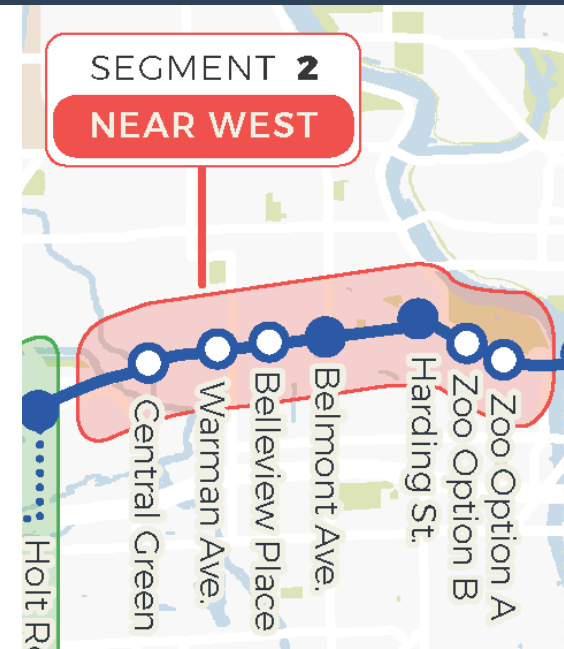
SEGMENT 1

| Center Exc. | Left BAT* | Right BAT | Evaluation |
|---|---|---|----------------------|
|  |  |  | Safety |
|  |  |  | Bus Speed |
|  |  |  | Traffic Congestion |
|  |  |  | Auto Access |
|  |  |  | Economic Development |
| \$47.1 M | \$48.3M | \$56.5M | Cost |

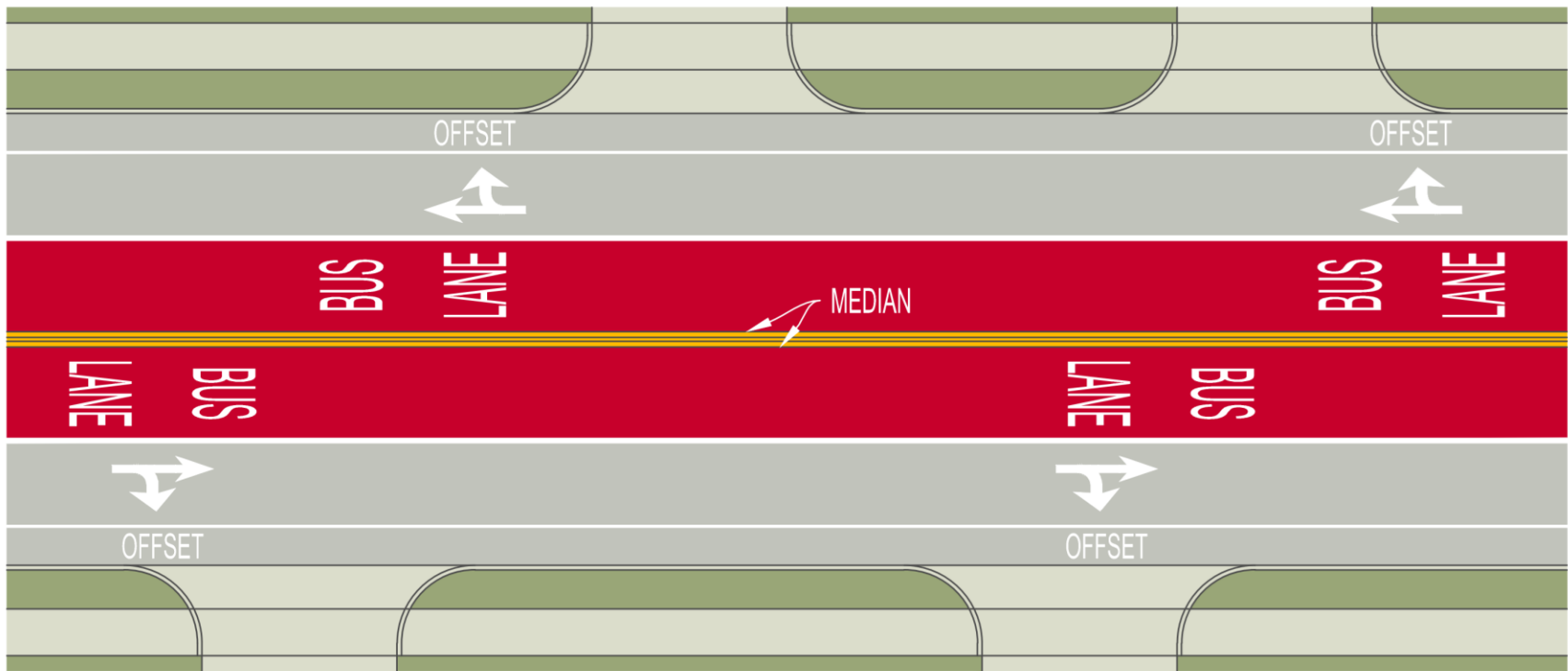


SEGMENT 2— CHALLENGES

- Infrastructure Condition
- Railroad Underpasses
- Interface w/ Ambrose Development
- Station Siting

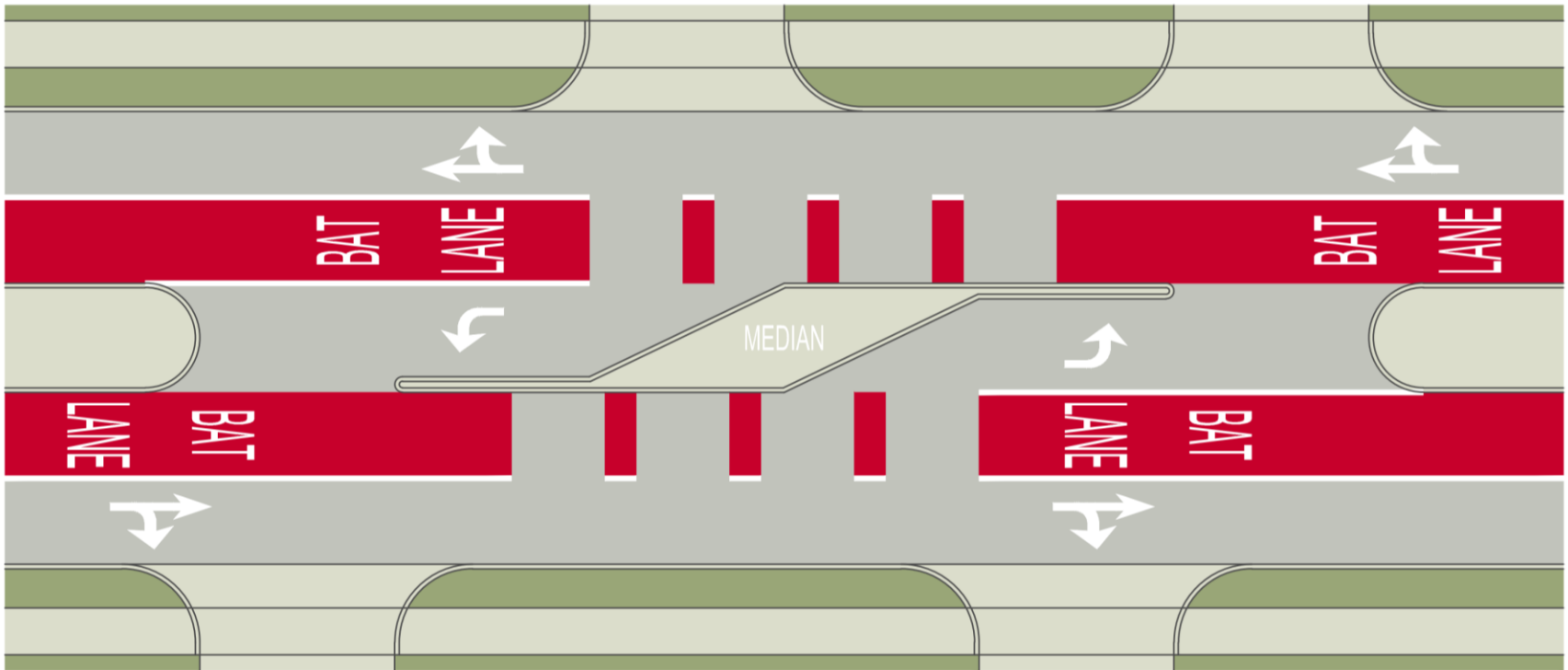


SEGMENT 2: LANE OPTIONS



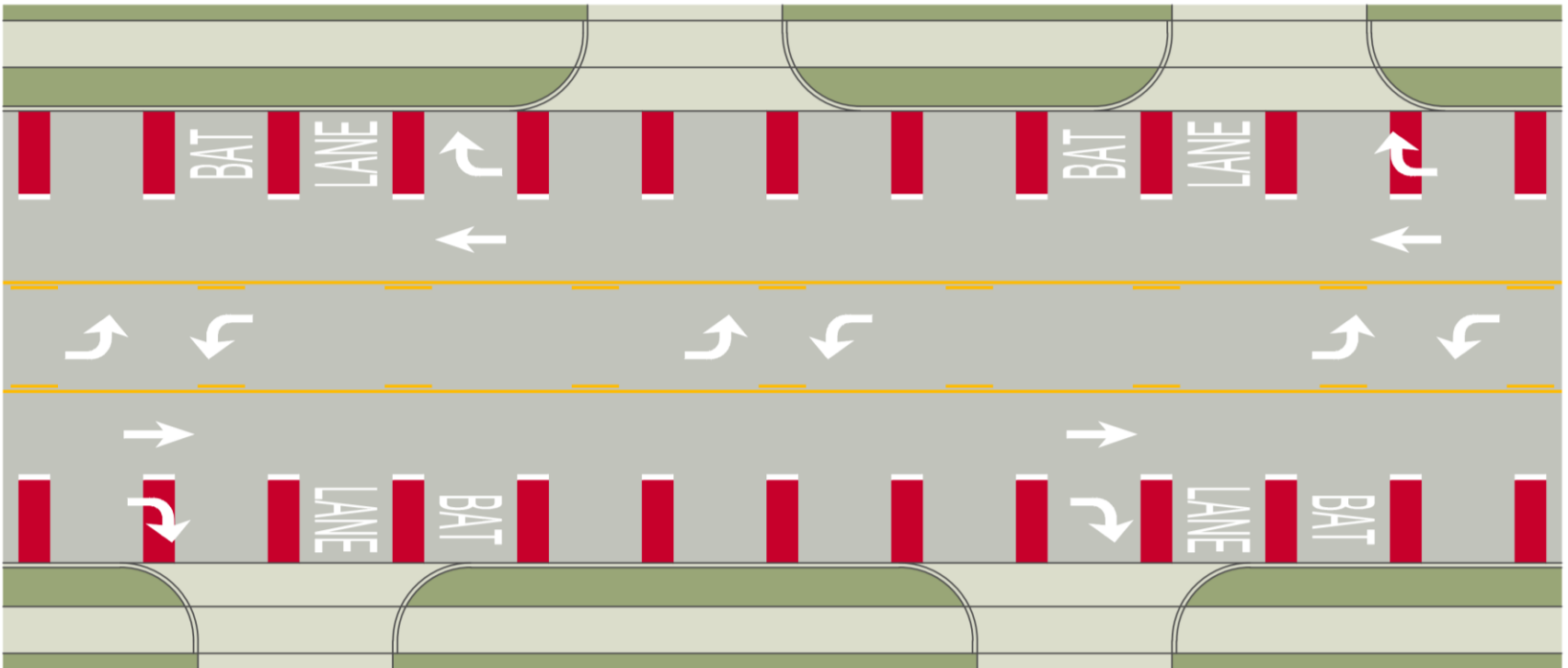
Center Exclusive

SEGMENT 2: LANE OPTIONS


















Left BAT

SEGMENT 2: LANE OPTIONS



Right BAT

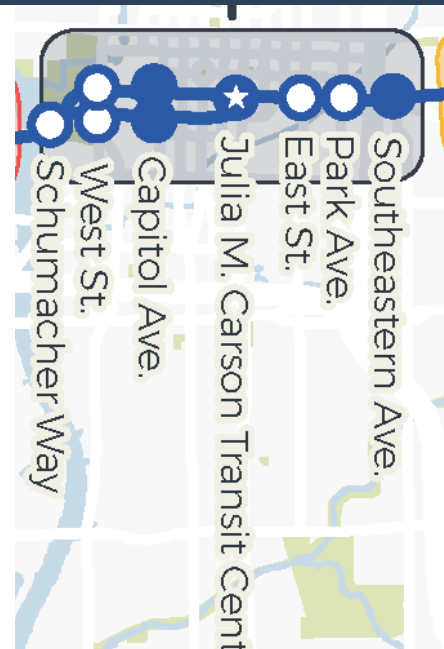
SEGMENT 2

| Center Exc. | Left BAT* | Right BAT | Evaluation |
|---|---|---|----------------------|
|  |  |  | Safety |
|  |  |  | Bus Speed |
|  |  |  | Traffic Congestion |
|  |  |  | Auto Access |
|  |  |  | Economic Development |
| \$32.5 M | \$32.6M | \$36.9M | Cost |

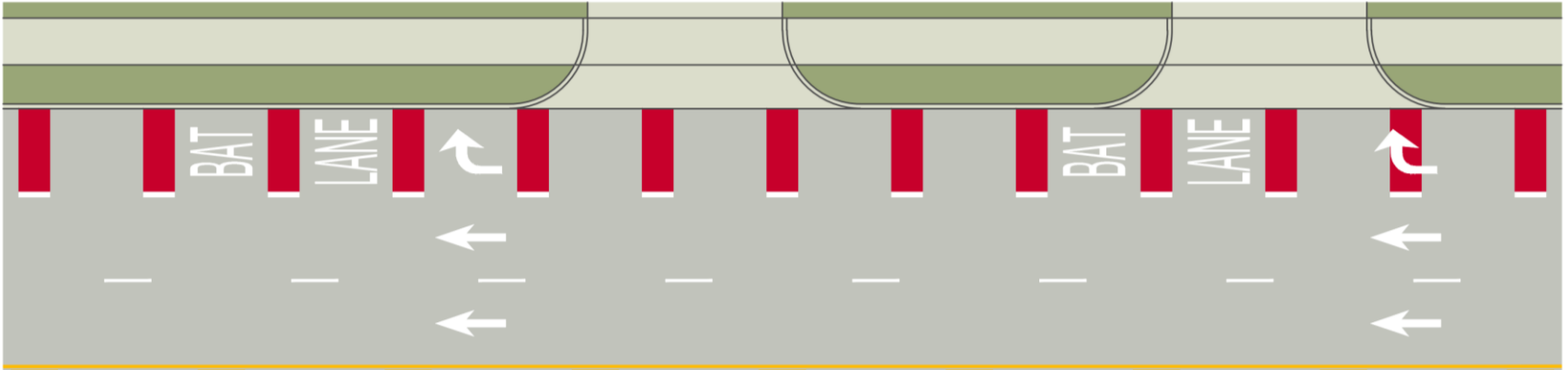


SEGMENT 3— CHALLENGES

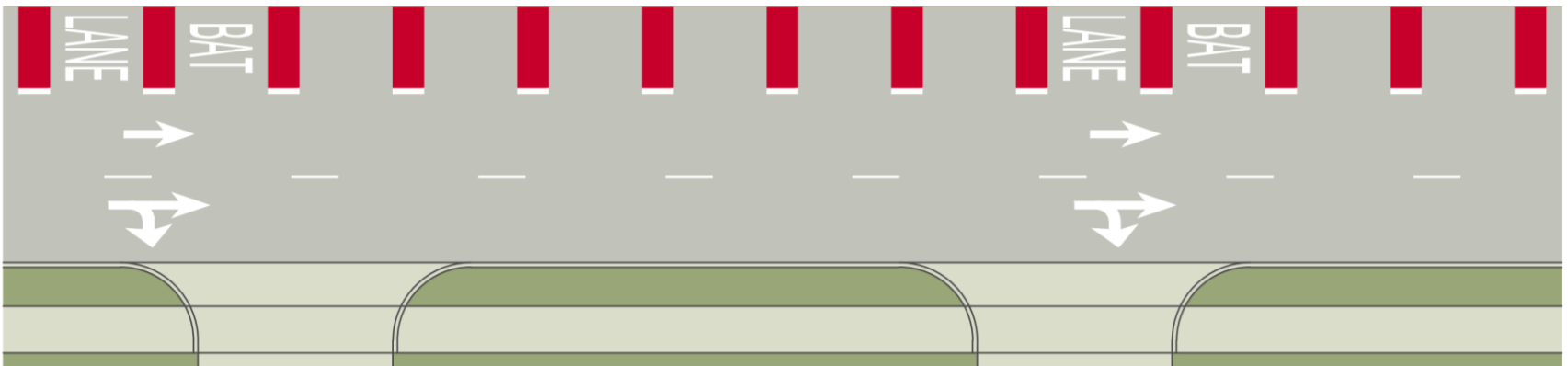
- Traffic Congestion
- Turning Conflicts
- Station siting
- \$23.2M



SEGMENT 3: RECOMMENDATION



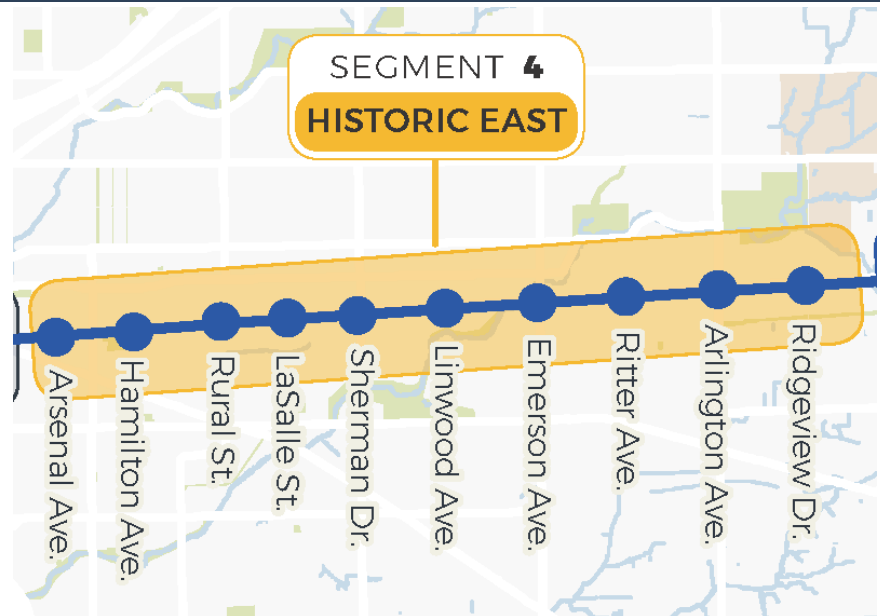
BAT Lanes



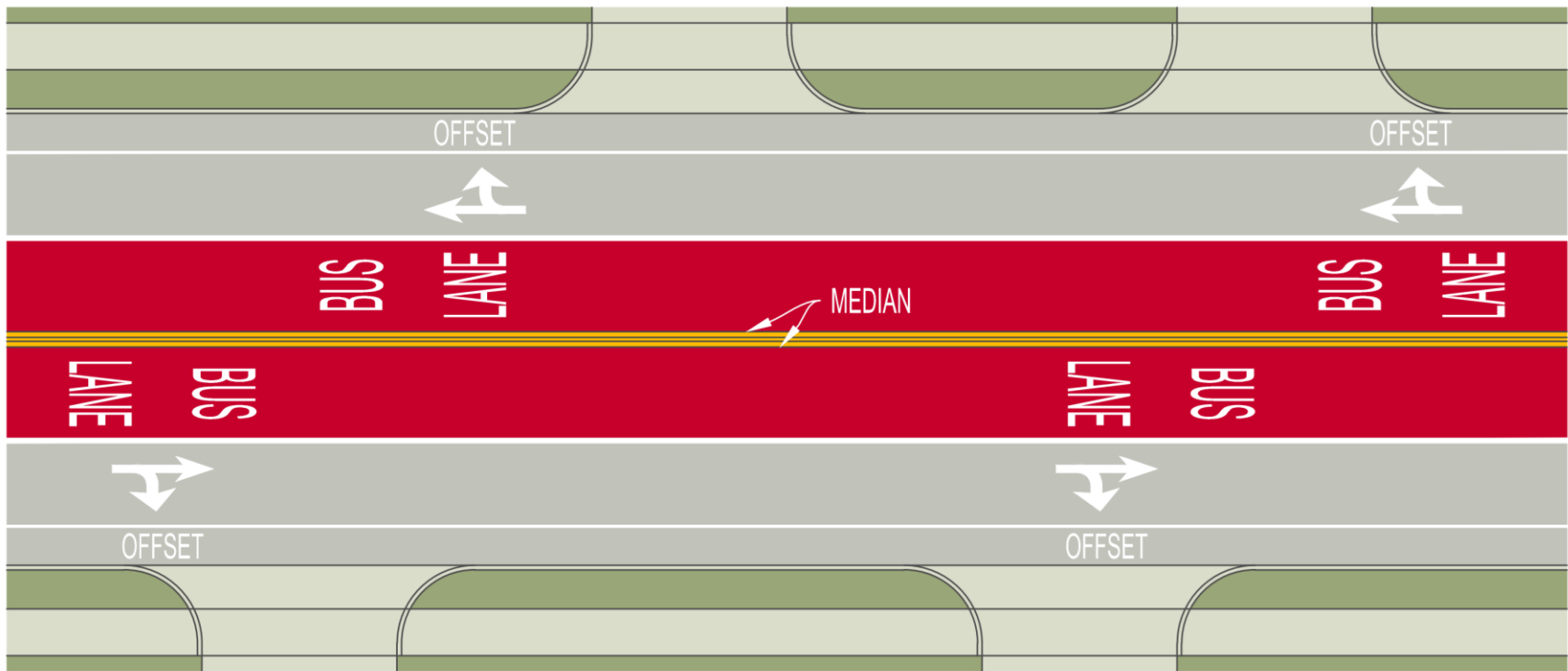


SEGMENT 4— CHALLENGES

- Street Width
- Historic Structures
- Power Lines

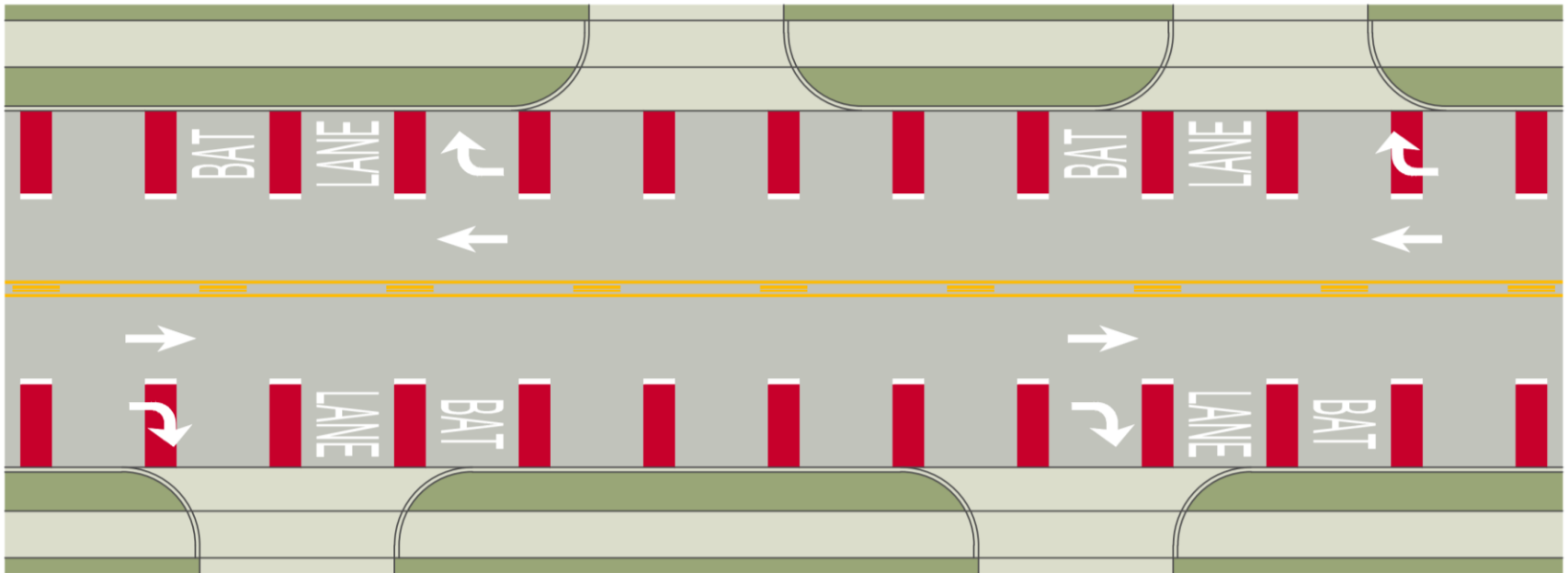


SEGMENT 4: LANE OPTIONS













Center Exclusive

SEGMENT 4: LANE OPTIONS



Right BAT

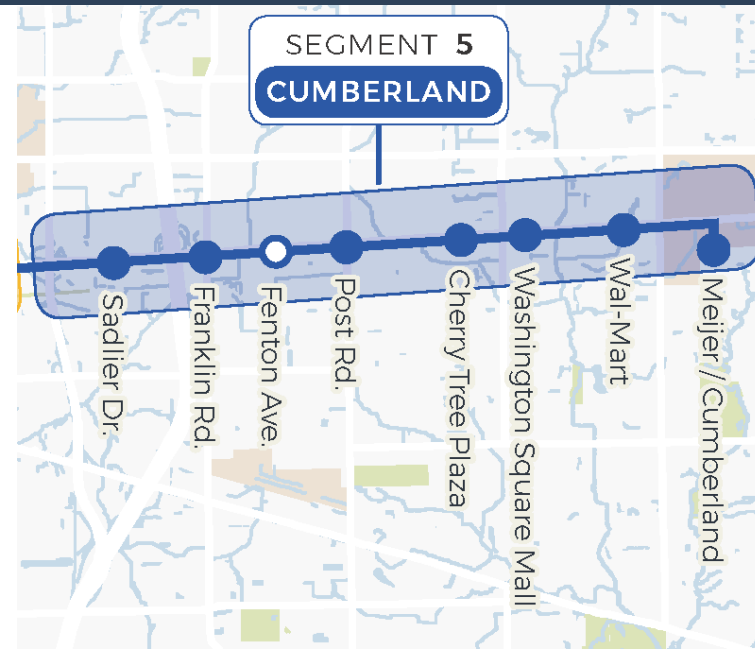
SEGMENT 4

| Center Exc. | | Right BAT | Evaluation |
|---|--|---|----------------------|
|  | |  | Safety |
|  | |  | Bus Speed |
|  | |  | Traffic Congestion |
|  | |  | Auto Access |
|  | |  | Economic Development |
| \$51.3 M | | \$59.0M | Cost |

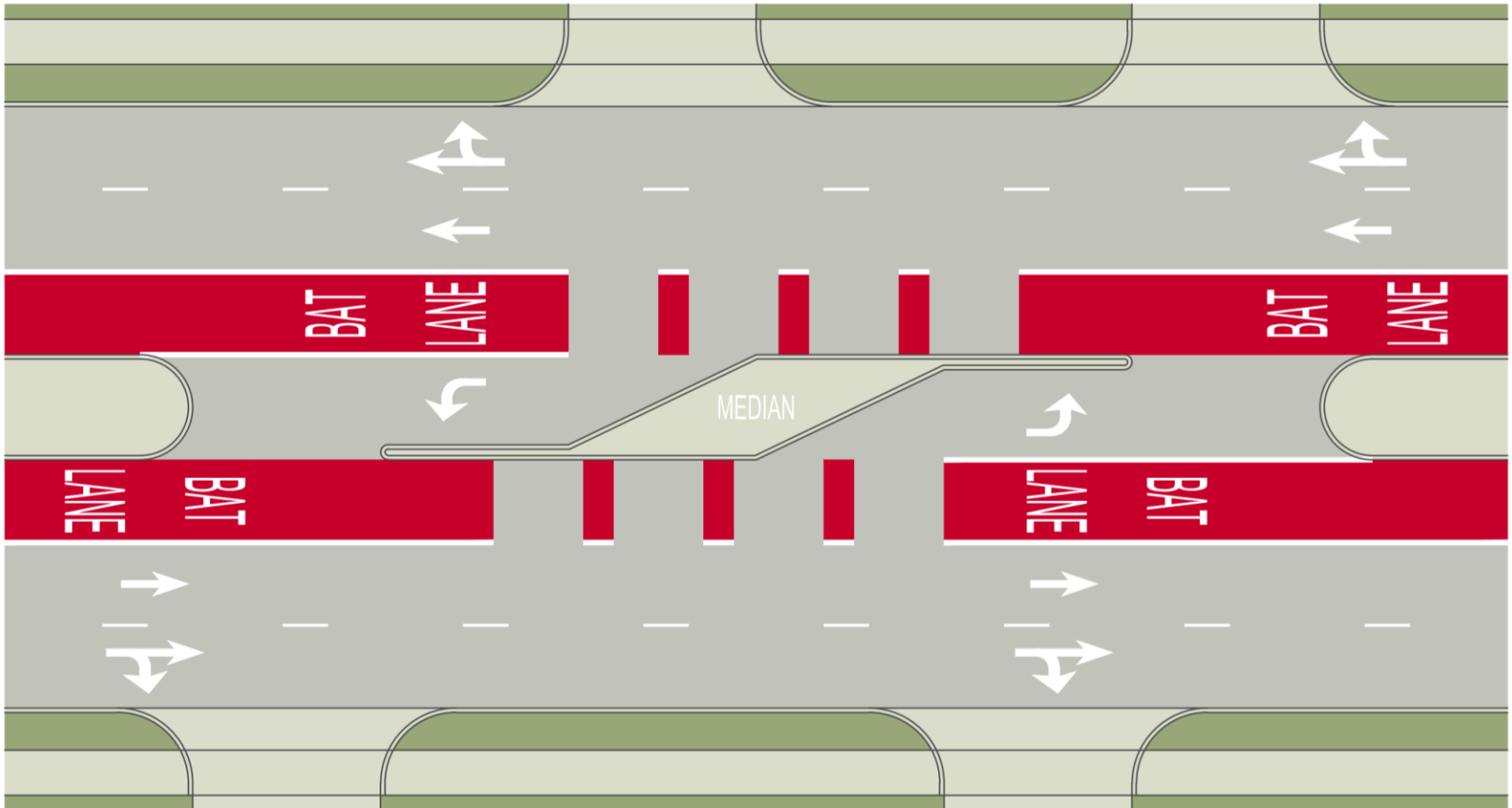


SEGMENT 5— CHALLENGES

- Excessive Street Width
- Access Control
- Walkability
- Fenton Station?

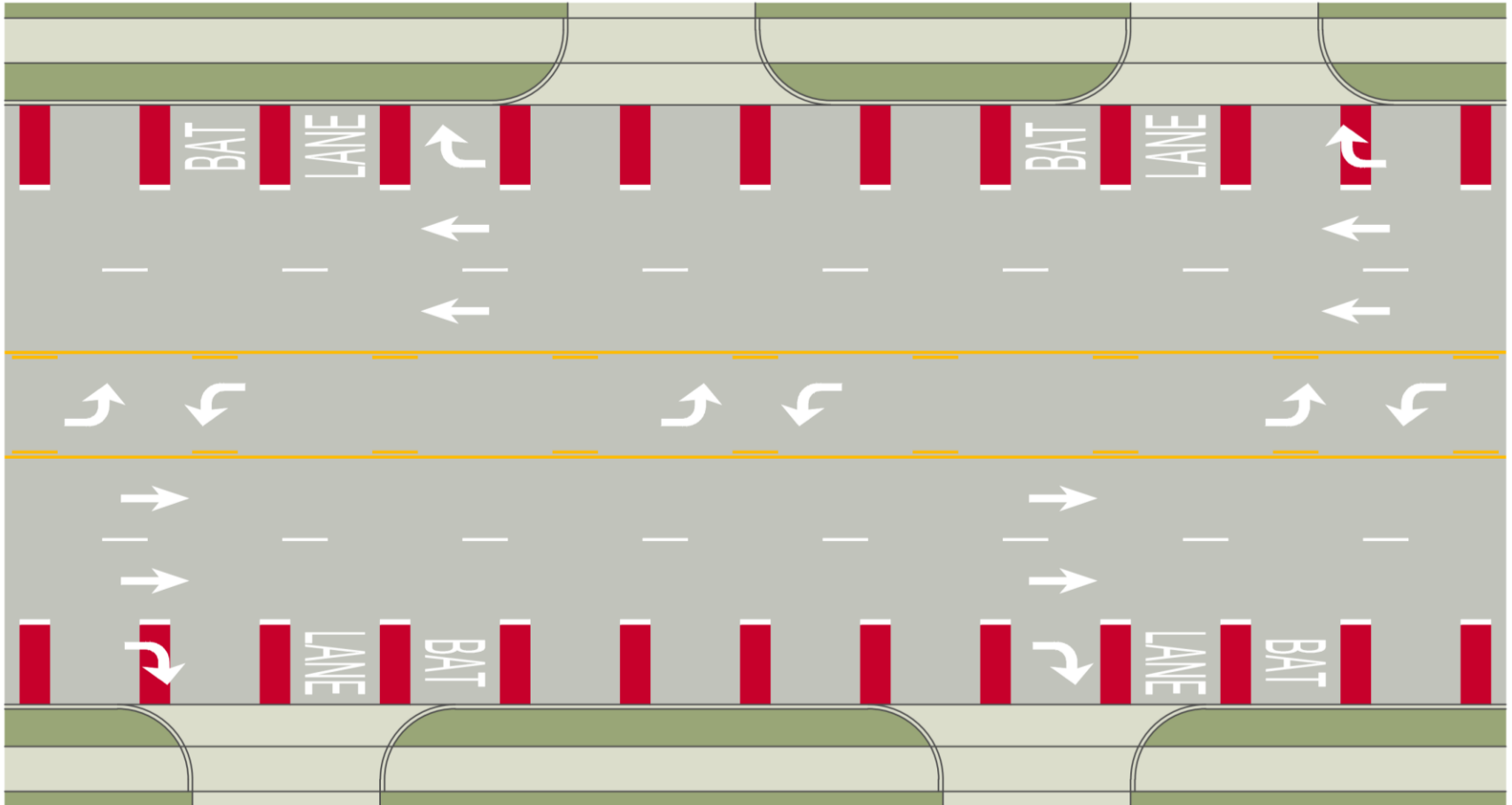


SEGMENT 5: LANE OPTIONS













Left BAT (Channelized)

SEGMENT 5: LANE OPTIONS



Right BAT

SEGMENT 4

| | Left BAT* | Right BAT | Evaluation |
|--|---|---|----------------------|
| |  |  | Safety |
| |  |  | Bus Speed |
| |  |  | Traffic Congestion |
| |  |  | Auto Access |
| |  |  | Economic Development |
| | \$40.7M | \$47.4M | Cost |



Decision Recap

- Routing on West End/Funding
- Station Locations
- Lane Configurations