



CUY-271/422 – 7.80/10.77
(PID 102011 & 114409)

CITY OF
Beachwood

March 4, 2024

Chagrin Boulevard / Richmond Road / I-271

Why are we discussing this again?

- **New Council Members & Refresher for All**
- **New LPA (Local Public Agency) Agreement with ODOT**
 - City signed original LPA agreement July 2022 with council approval
 - Modified agreement with ODOT is now required
 - Additional 3rd party review requirements
- **Project History / Overview**
- **Project Status**
- **Funding Summary**

Chagrin Boulevard / Richmond Road / I-271

Timeline

- **2011 – Chagrin Boulevard Signals Reconstruction Project**
 - Implemented central control of signals, first step in addressing traffic issues on Chagrin.
- **2012 – Chagrin Boulevard Traffic Management Master Plan**
 - Identified specific issues to address.
- **2015 – Chagrin Boulevard Safety & Corridor Study**
 - Secured \$525,000 in ODOT Safety Funds to perform detailed traffic and roadway evaluations.
- **2018 – Chagrin Boulevard Alternative Study**
 - Developed alternatives for corridor
- **2019 – 2022 – Several Council Committee Meetings**
- **March 13, 2019 – Town Hall Meeting**
 - Public comment, Included ODOT staff.
- **2020 – Secured \$2,500,000 from ODOT Safety Program for construction**
 - 90% /10% funding split between Federal / Local
- **2021 – Chagrin Boulevard Interchange Operations Study**
 - ODOT required study to make the proposed roadway modifications.
- **2021 – Chagrin Boulevard Alternative Evaluation Study**
 - ODOT required study to select a preferred alternative for the corridor.
- **September 2021 – TRAC (Transportation Review Advisory Council) Funding**
 - Secured \$1,000,000 for design of project
- **June 21, 2022 – Council Presentation**
 - Council authorization of the LPA agreement
- **March 2023 – TRAC Funding**
 - Secured \$600,000 for right of way acquisition

Project Location & Description

CUY-422/271 – 7.80/10.77

Chagrin Boulevard

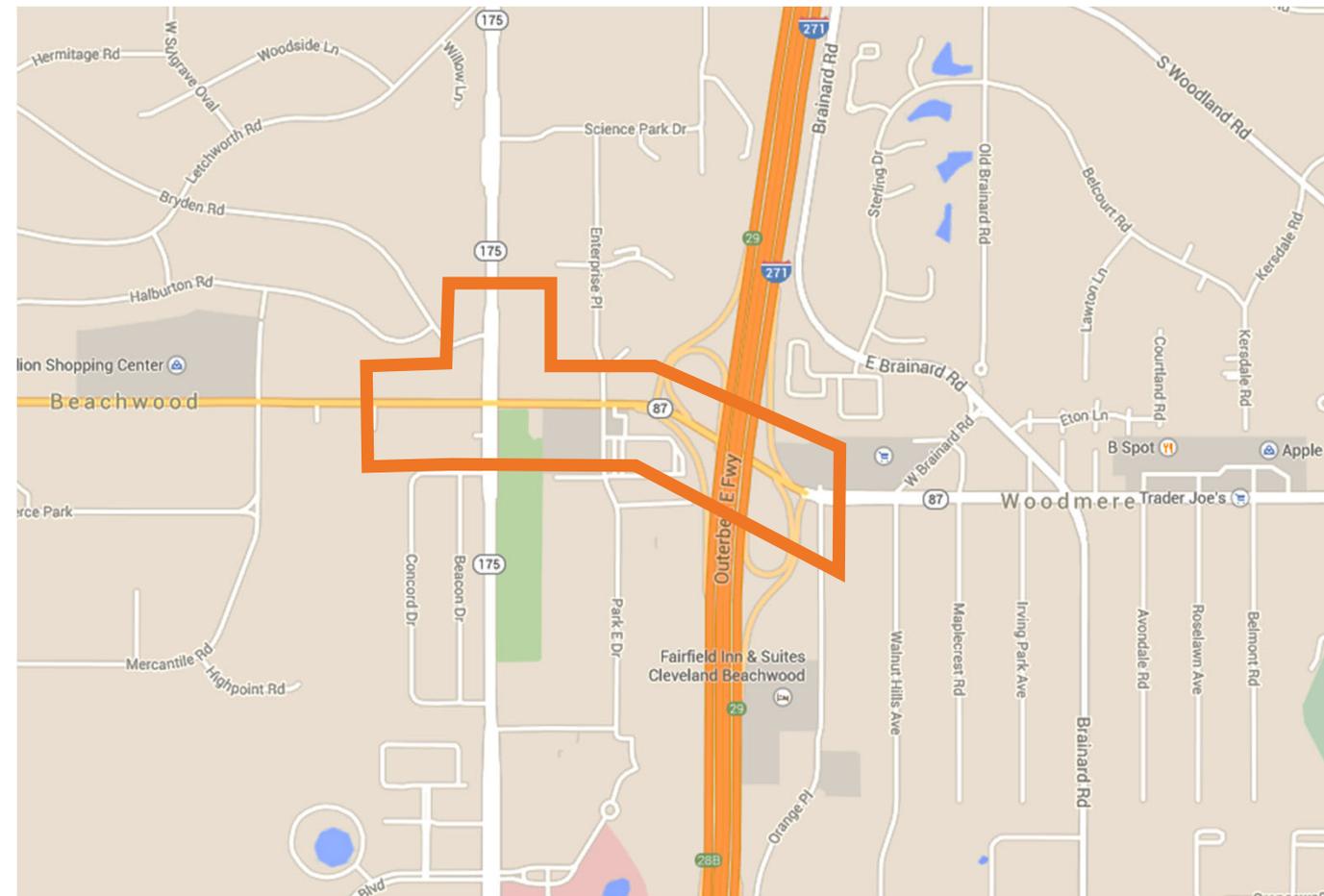
- Signature Square to Orange Place
- Distance – 0.7 Miles

Richmond Road

- Bryden Road to Chagrin Boulevard
- Distance – 0.11 Miles

I-271

- Northbound and Southbound Ramps



Project Location & Description



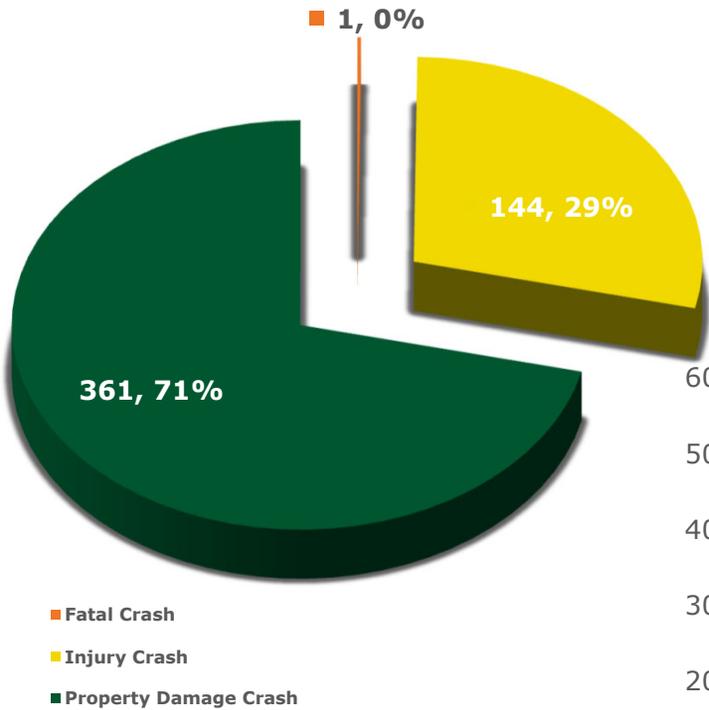
CUY-422/271 – 7.80/10.77

Traffic Growth

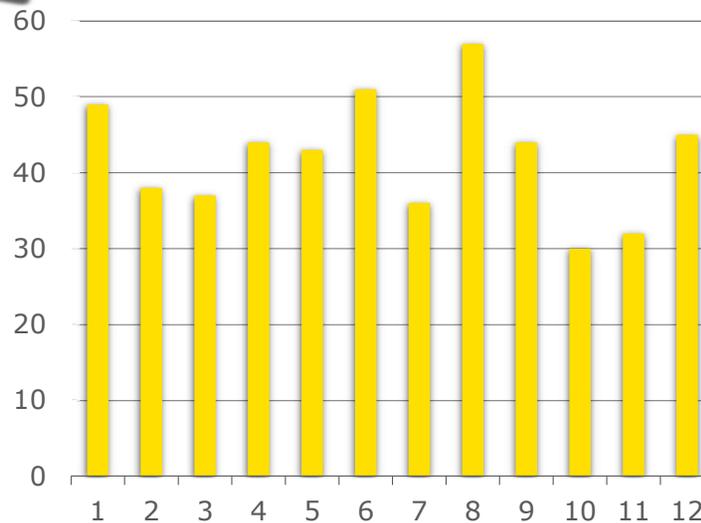
	2015	2018	2022	2042
Chagrin Boulevard Daily Traffic	49,530	50,200	50,740	53,220
Richmond Road Daily Traffic	24,340	24,800	25,040	26,280
Bryden Road Daily Traffic	1,910	2,640	2,640	2,800

Current Crash Analysis Summary

Frequency of Crashes by Severity



Frequency of Crashes by Month



CUY-422/271 – 7.80/10.77

506 Crashes Reported from 2016 – 2018

- 299 Rear-End
- 93 Sideswipe – Passing
- 53 Angle
- 37 Left Turn
- 20 Fixed Object
- 2 Pedestrian
- 1 Sideswipe – Meeting
- 1 Head On

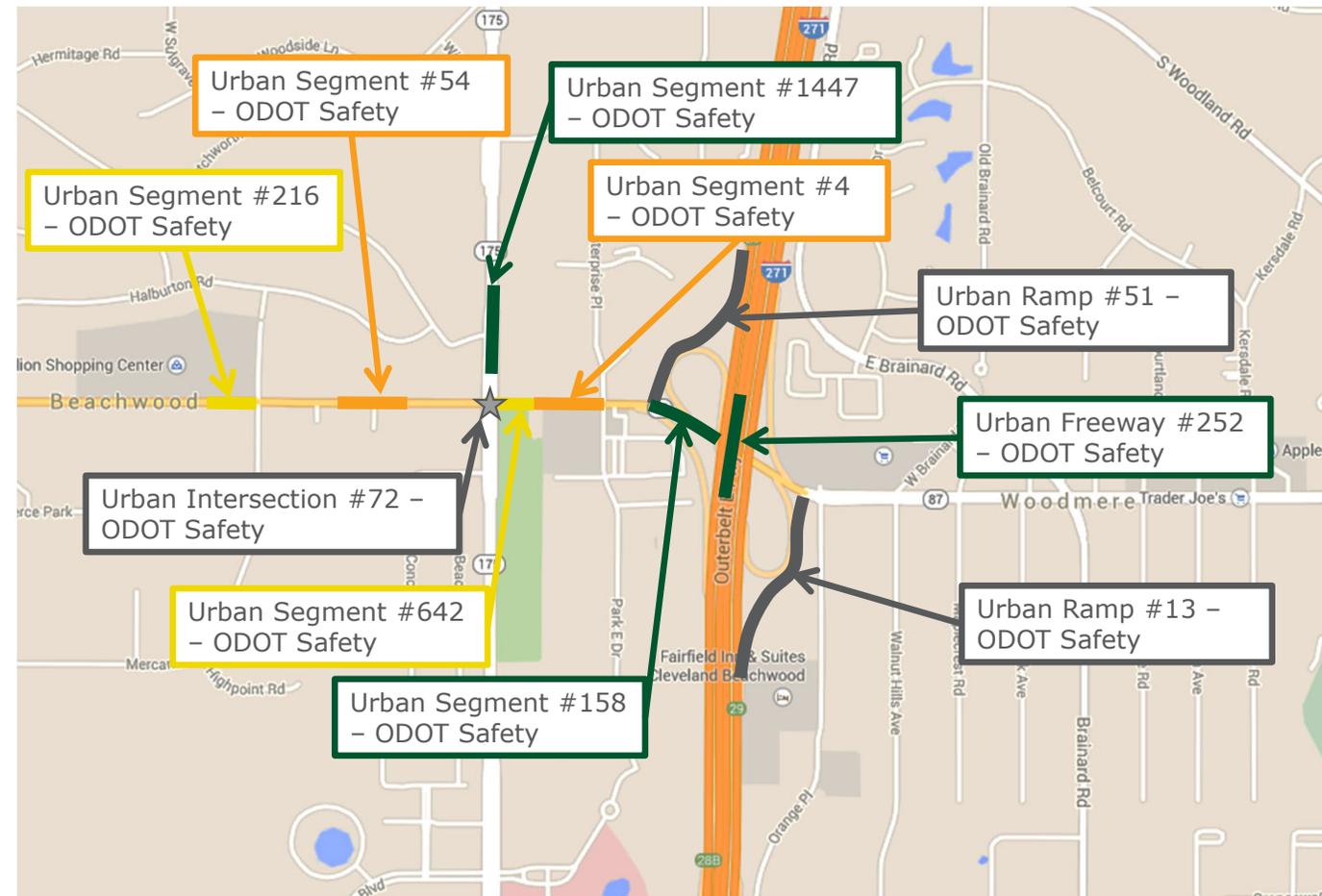


Safety Priority Rankings

CUY-422/271 – 7.80/10.77

2018 ODOT Safety Rankings

- #4 – Segment – Between Crestmont Cadillac and Park East Drive
- #13 – Urban Ramp – I-271 NB Exit Ramp to Chagrin Boulevard
- #51 – Urban Ramp - I-271 SB Exit Ramp to Chagrin Boulevard
- #54 – Segment – Surrounding Signature Square Drive
- #72 – Intersection – Chagrin Blvd. / Richmond Road
- #158 – Segment – Between I-271 SB Ramps and I-271 Bridge
- #216 – Segment – Just West of Commerce Park
- #252 – Freeway – I-271 Under the Chagrin Boulevard Overpass
- #642 – Segment – Between Cemetery Drive and Crestmont Cadillac
- #1447 – Segment – Richmond Road near Bryden Road intersection



Proposed Countermeasures

LEGEND

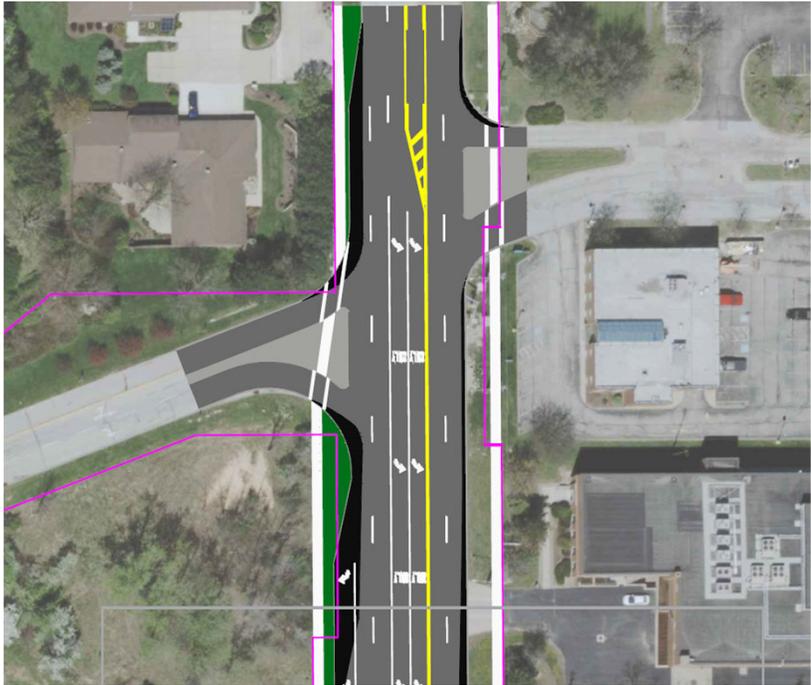
- PROPOSED BRIDGE
- EXISTING PAVEMENT
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED PAVEMENT



Proposed Countermeasures – Bryden Road



Existing Condition



Proposed Condition

Project Benefits

Benefits of Improving the Transportation Network

- **Improved Safety** – Safety concerns in the area are congestion related.
- **Improve Traffic Flow** – Less traffic congestion leads to less safety concerns.
- **Economic Benefit** – Safe and efficient traffic flow is important to retain businesses in Beachwood and attract new businesses.
- **Reduce traffic on Bryden & Halburton**
- **Regional Impact** – The project will not only benefit Beachwood, but also neighboring communities.

Consequences of Not Improving the Corridor

- **Decreased Safety** – As congestion increases, safety concerns will get worse. Safety will not get better on its own.
- **Decreased Traffic Flow** – Traffic volumes are only going to increase.
- **Economic Impact** – Without improvements, it will hamper the ability to retain or attract businesses to Beachwood.

Next Steps

Moving Forward

- **Council authorization to sign the revised LPA agreement**
 - March 18, 2024 Council Meeting
 - Send agreement to ODOT
- **ODOT Authorization of Design**
 - ODOT to review design fee again
- **Return to TRAC / Apply for RAISE/BUILD Grants**
 - Request construction funding
- **Design Estimated for 2024 – 2026**
- **Construction Estimated for 2027 / 2028**

Funding Plan

	Preliminary Engineering	Detailed Design	Right-of-Way	Construction	Total
Local Funding	\$59,111	\$481,000	\$141,148	\$2,364,115	\$3,045,374
ODOT HSIP	\$532,000	\$0	\$0	\$2,500,000	\$3,032,000
NOACA Resurfacing	\$0	\$0	\$0	\$433,850	\$433,850
Secured TRAC Funding	\$0	\$1,000,000	\$564,592	\$0	\$1,564,592
Future RAISE Grant or TRAC Request	\$0	\$0	\$0	\$8,600,000	\$8,600,000
Total Project Cost					\$16,675,816



CITY OF
Beachwood



Q&A

CITY OF
Beachwood