

Study Background

Emerald Necklace Trail
Bicycle and Pedestrian Crossing Improvements Study



Cleveland Metroparks, Cuyahoga County, Ohio Prepared by the Northeast Ohio Areawide Coordinating Agency March 2019









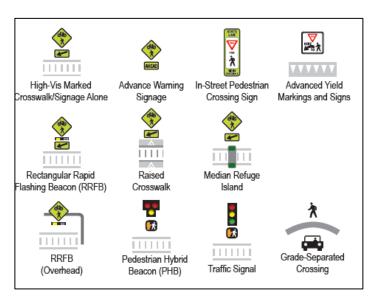


- 2016 NOACA-led Transportation for Livable Communities Initiative (TLCI) Planning Study
- Aligned with Cuyahoga Greenways TLCI
- Study format 2 parts:
 - Typology plan
 - Detailed recommendations at specific crossings
- Project goals:
 - Identify ways to make Emerald Necklace trail crossings safer, user-friendly, and consistent
 - Provide detailed recommendations at key locations

Part 1: Trail Crossings Typology

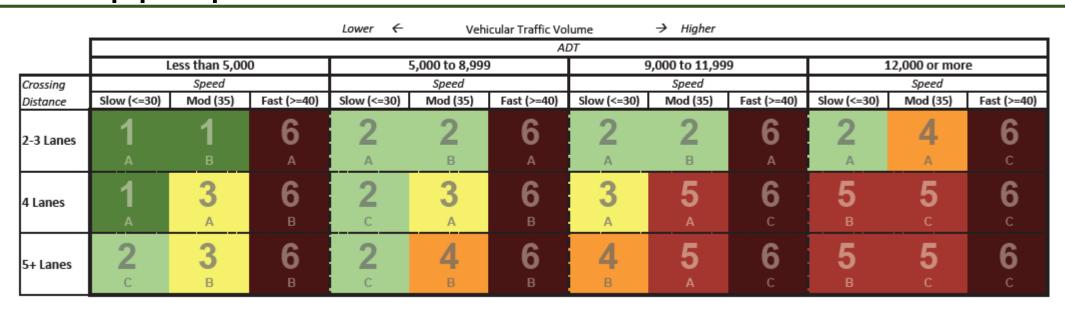
Typology Classification Basis:

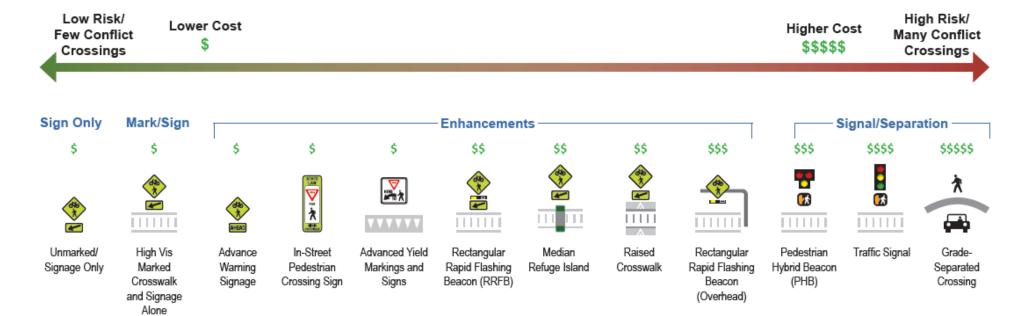
- Vehicular traffic volume
- Vehicle speed
- Crossing distance





Appropriate & Effective Treatments





How to Use the Typology

STEP 1: Gather available data

Located in Brecksville Reservation

AADT: 11,879 vehicles (ODOT estimate, 2017)

Speed Limit: 35 mph

Crossing Distance: 5 lanes



Image 19: Brecksville Road and Valley Parkway





How to Use the Typology



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Image 19: Brecksville Road and Valley Parkway



STEP 2: Identify crossing Level

Use the Typology table or crossing icons to categorize the crossing. With an ADT between 9,000 and 11,999, a speed of 35 mph, and a crossing distance of 5+ lanes, this trail crossing can be categorized as Level 5(A).



	ALT											
	Less than 5,000 Speed			5,000 to 8,999 Spend			9,000 to 11,999 Speed			12,000 or more Spord		
Crossing												
Distance	Slow (<=30)	Mod (35)	Fast (>=40)	Slow (<0:30)	Mod (35)	Fast (>=00)	Slow (-cr30)	Mod (35)	Fast (>=40)	Slow (<=30)	Mod (35)	Fast (>=40)
2-3 Lanes												
Lanes												
+ Lanes								5(A)				



STEP 3: Identify potential appropriate treatments

At Level 5(A), a marked crosswalk and signage alone are not appropriate and should be accompanied by a median refuge island and additional enhancements such as advance warning signage and a Rectangular Rapid Flashing Beacon (RRFB). Alternatively, devices that a trail user can activate to completely stop traffic—a traffic signal or Pedestrian Hybrid Beacon (PHB)—should also be considered. Further study of this location would reveal additional challenges to consider, such as left turn lanes on Brecksville Road and the intersection of Valley Parkway adjacent to the trail crossing.











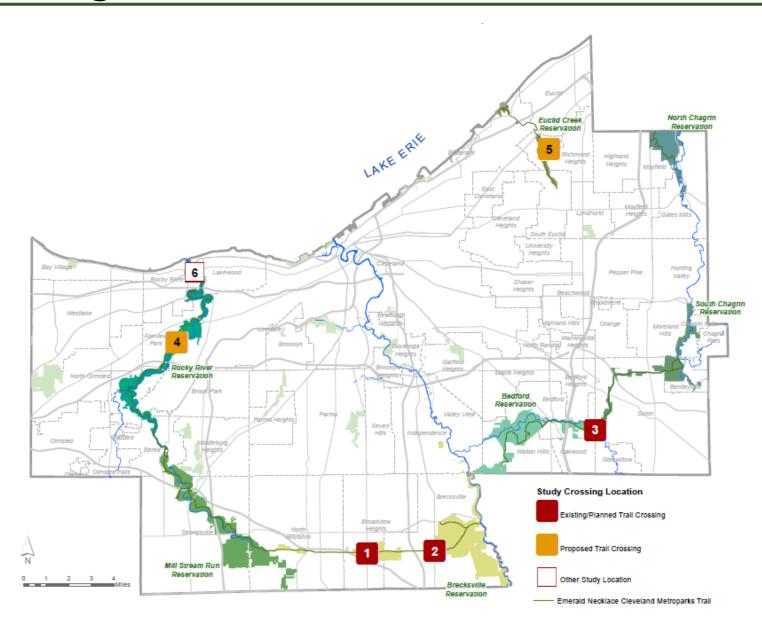
Image 20: Median Refuge Island (Google Maps)

Part 2: Detailed Crossing Recommendations

- Broadview Road/Valley Parkway
- 2. Brecksville Road/Valley Parkway
- 3. Richmond Road/Hawthorn Parkway
- 4. Mastick Road/Valley Parkway
- 5. Highland Road/Euclid Creek Parkway
- 6. Detroit Road/Sloan Avenue/Valley Parkway*

^{*} Intersection analysis by City of Lakewood





Brecksville Road/Valley Parkway Recommendations

- Median refuge island
- Trail extensions
- High visibility crosswalks
- Pedestrian-activated RRFBs
- Advance warning signage
- Equestrian crossing

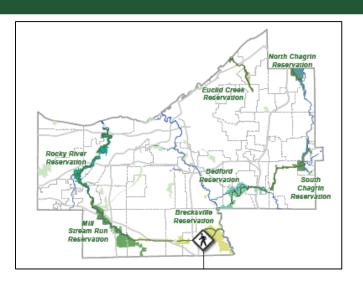




TLCI 2019 Awards

- NOACA Board of Directors approved the SFY 2019 TLCI awards on March 8, 2019
- 32 applications received:
 - 17 planning study requests totaling about \$1.2 million
 - 15 implementation project requests totaling about \$4.1 million
- \$2.354 million awarded
- Cleveland Metroparks sponsored 1 application and partnered on 2 others – all 3 were funded





TLCI Implementation: Brecksville Road and Valley Parkway Intersection

Sponsor: Cleveland Metroparks

\$105,000 NOACA

\$15,000 Cleveland Metroparks

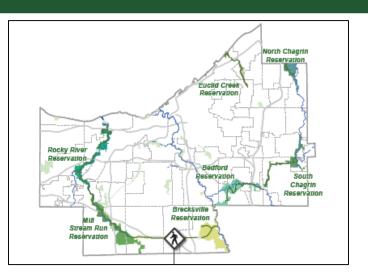
\$15,000 City of Brecksville

\$135,000 Total Est. Project Cost









TLCI Implementation: Broadview Road and Valley Parkway Intersection

Sponsor: City of Broadview Heights

\$200,000 NOACA

\$15,000 Cleveland Metroparks

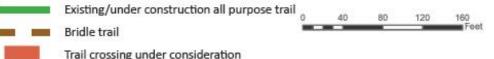
\$35,000 City of Broadview Hts.

\$250,000 Total Est. Project Cost









TLCI Planning - Community Confluence

- Sponsor:

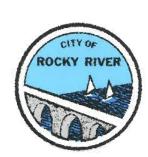
 Cuyahoga
 County Planning
 Commission
- \$75,000 NOACA (100% Funding)

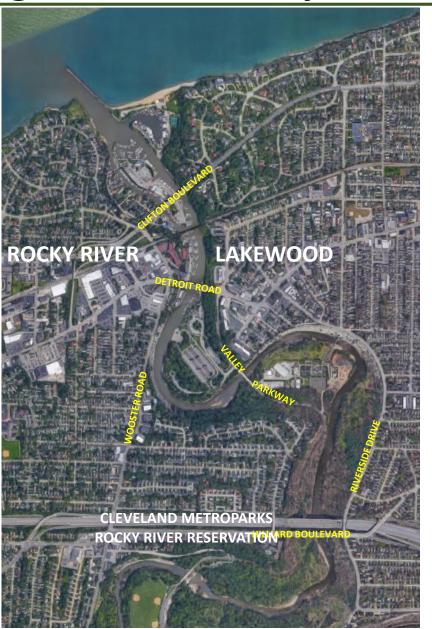


FOR OUR COMMUNITY
FOR OUR REGION











Detailed Recommendations

Broadview Road/Valley Parkway

Valley Parkway D Existing/under construction all purpose trail Bridle trail

Richmond Road/Hawthorn Parkway



Detailed Recommendations

Mastick Road/Vallev Parkwav



Highland Road/Euclid Creek Parkway

