

Truck Chime

Local Project

Oldham Co. KY 329 MP 8.840 | KY 22 MP 3.262

IMPROVEMENT DESCRIPTION:

Install Truck Chime in the southwest quadrant of the KY 22/KY 329 intersection.

Phase Estimate

(2020 dollars)

Design:

-

Right-of-Way:

-

Utilities:

-

Materials:

\$25,000

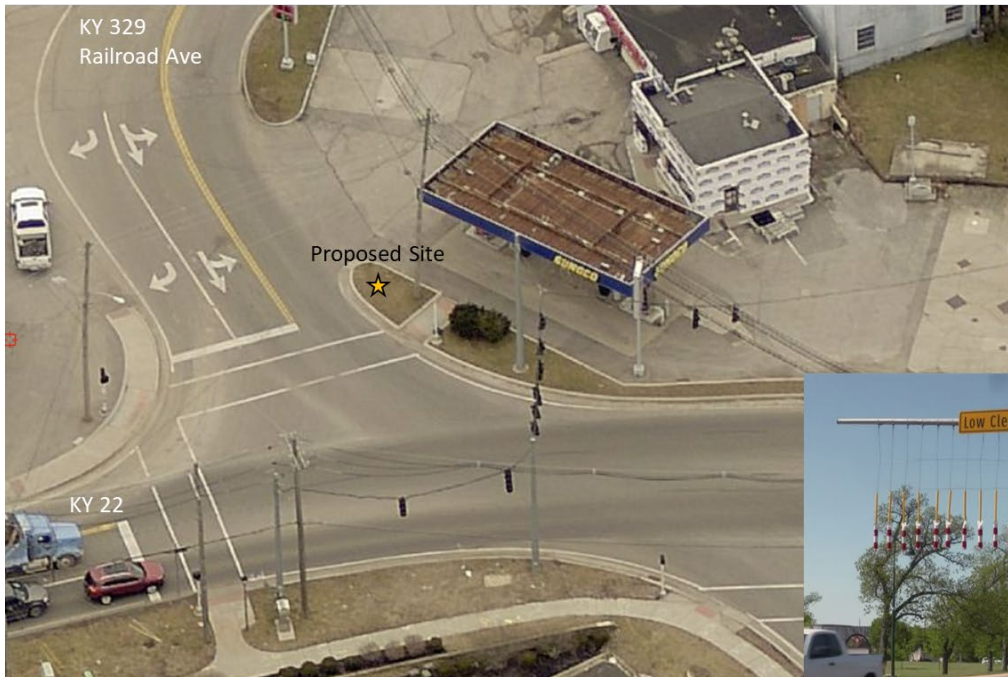
Total Cost:*

\$30,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 5,200 vpd at KY 329 crossing with 1.4% trucks; adjacent intersections at LOS C or better in peak hours
- 2021 Build Traffic: Minimal impact on traffic flow
- Safety: CSX records show 170 trucks stuck at KY 329 crossing during Jan 2016-Jan 2021; KSP shows 2 crashes at crossing and 12 crashes at adjacent KY 329/KY 146 intersection during Jan 2017-Dec 2019
- Other Considerations: Local utility coordination suggests 5-sq-ft clear area exists to install 3-sq-ft foundation; restriction based on height instead of under clearance likely restricts more vehicles than necessary; does not address northbound truck traffic

CONCEPT:



Sample Truck Chime



* includes estimated labor cost from D5 average bids

U-Turn off KY 329 (Railroad Ave)

Short Term	Oldham Co. KY 329 MP 8.900	
IMPROVEMENT DESCRIPTION: Designate U-Turn for southbound semi-trucks from KY 329 (Railroad Avenue) near entrance to Maples Park, assuming the path repaved with full-depth pavement.	Phase Estimate	(2020 dollars)
	Design:	-
	Right-of-Way:	-
	Utilities:	-
	Construction:*	\$280,000
	Total Cost:	\$280,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 5,200 vpd at KY 329 crossing with 1.4% trucks; adjacent intersections at LOS C or better in peak hours
- 2021 Build Traffic: Minimal impact on traffic flow
- Safety: CSX records show 170 trucks stuck at KY 329 crossing during Jan 2016-Jan 2021; KSP shows 2 crashes at crossing and 12 crashes at adjacent KY 329/KY 146 intersection during Jan 2017-Dec 2019
- Other Considerations: Contained within state right-of-way and city-owned parcels; signage for southbound trucks and additional protection for ice vendor recommended; does not address northbound truck traffic

CONCEPT:



* cost assumes full-depth pavement within orange footprint

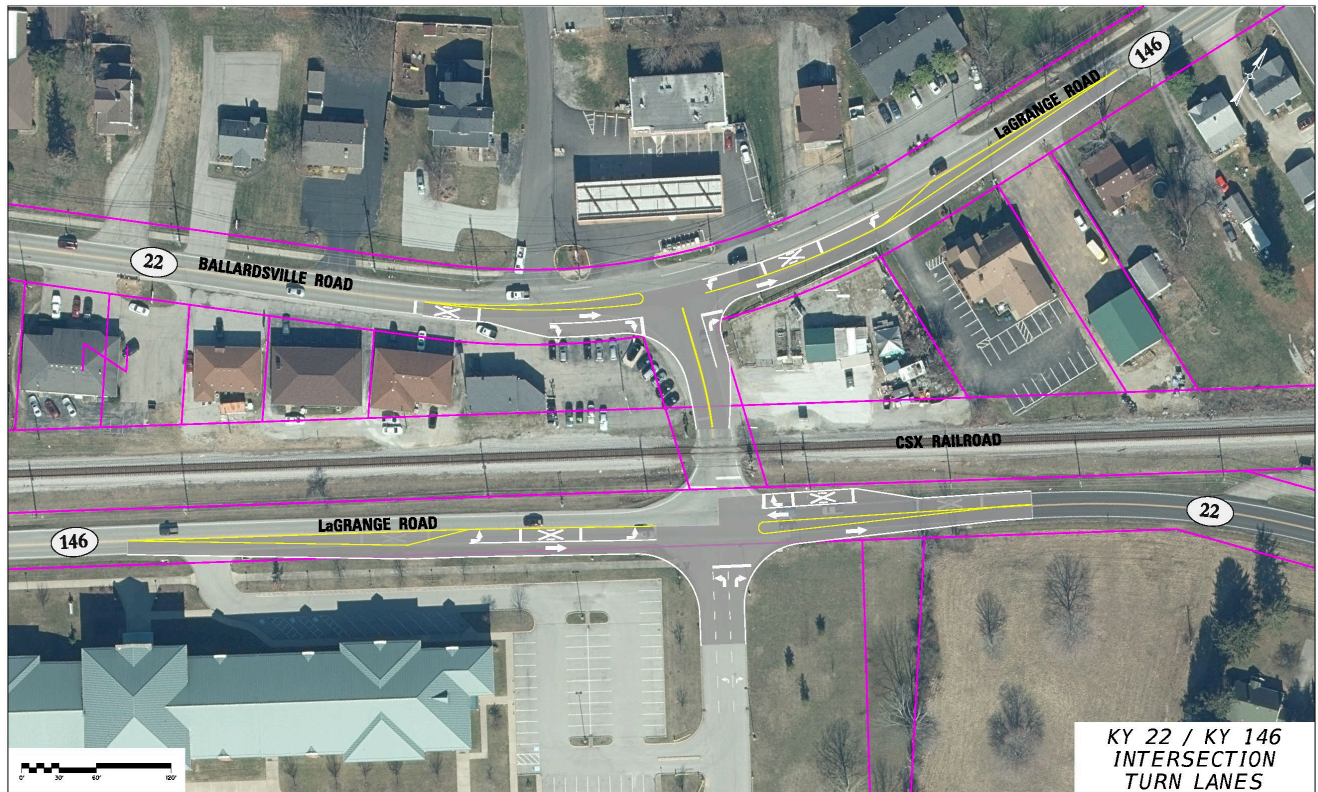
One-way KY 329 (Railroad Ave) with Stop Controls

Long Term	Oldham Co. KY 22 MP 3.45-3.6 KY 146 MP 2.3-2.4
IMPROVEMENT DESCRIPTION: Create two-way stop control at the north KY 22/KY 146 intersection (by the Shell gas station) with turn lanes. Preserve existing four-way stop control at the south KY 22/KY 146 intersection (by school) and add turn lanes. Railroad Avenue crossing is closed to southbound motorists.	Phase Estimate (2020 dollars)
	Design: \$30,000
	Right-of-Way: \$120,000
	Utilities: \$150,000
	Construction: \$260,000
	Total Cost: \$560,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic:
 6,700 vpd at KY 22/KY 146 crossing with 2.8% trucks; KY 22/KY 146 intersection to south (four-way stop at school driveway) operates at LOS F in PM peak
- 2021 Build Traffic:
 Assuming KY 329 (Railroad Ave) crossing closed to southbound traffic, KY 22/KY 146 intersection to south at LOS E in both peak hours. KY 22/KY 146 to north (two-way stop) at LOS A.
- Safety:
 KSP shows 4 crashes at south KY 22/KY 146 intersection and 10 crashes at north KY 22/KY 146 intersection during Jan 2017-Dec 2019
- Other Considerations:
 Peak queue concerns at Reardon's crossing; partial closure diverts 1,300 vpd to Pewee Valley

CONCEPT:



KY 22 / KY 146
INTERSECTION
TURN LANES

One-way KY 329 (Railroad Ave) with Coordinated Signals

Long Term	Oldham Co. KY 22 MP 3.45-3.6 KY 146 MP 2.3-2.4	
IMPROVEMENT DESCRIPTION: Install coordinated signals and turn lanes at the KY 22/KY 146 intersections north and south of the Reardon’s at-grade crossing. Railroad Avenue crossing is closed to southbound motorists.	Phase Estimate	(2020 dollars)
	Design:	\$90,000
	Right-of-Way:	\$120,000
	Utilities:	\$150,000
	Construction:	\$870,000
	Total Cost:	\$1,230,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic:**

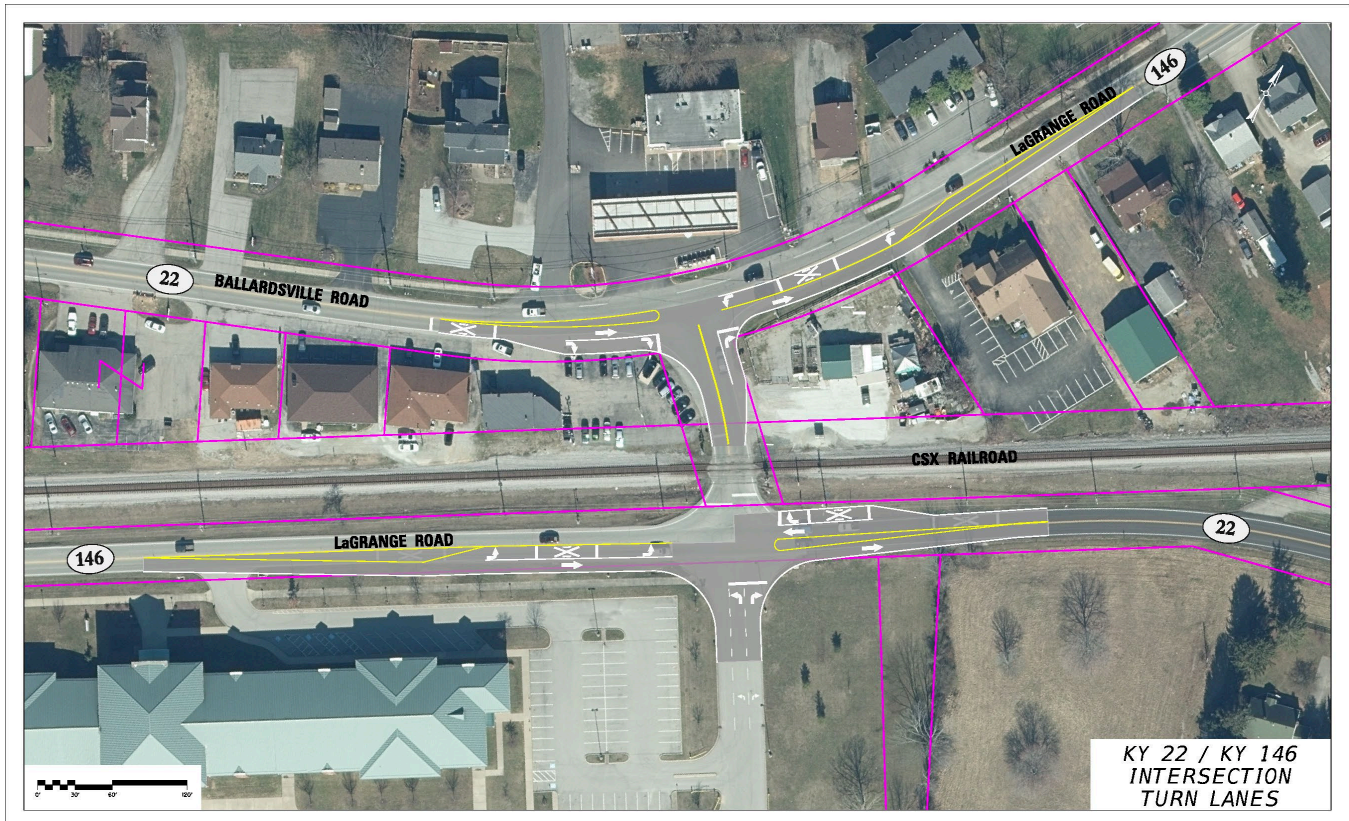
6,700 vpd at KY 22/KY 146 crossing with 2.8% trucks; KY 22/KY 146 intersection to south (four-way stop at school driveway) operates at LOS F in PM peak
- 2021 Build Traffic:**

Assuming KY 329 (Railroad Ave.) crossing closed to southbound traffic, both KY 22/KY 146 intersections at LOS C or better in peak hours.
- Safety:**

KSP shows 4 crashes at south KY 22/KY 146 intersection and 10 crashes at north KY 22/KY 146 intersection during Jan 2017-Dec 2019
- Other Considerations:**

Peak queue concerns at Reardon's crossing; partial closure diverts 1,300 vpd to Pewee Valley

CONCEPT:



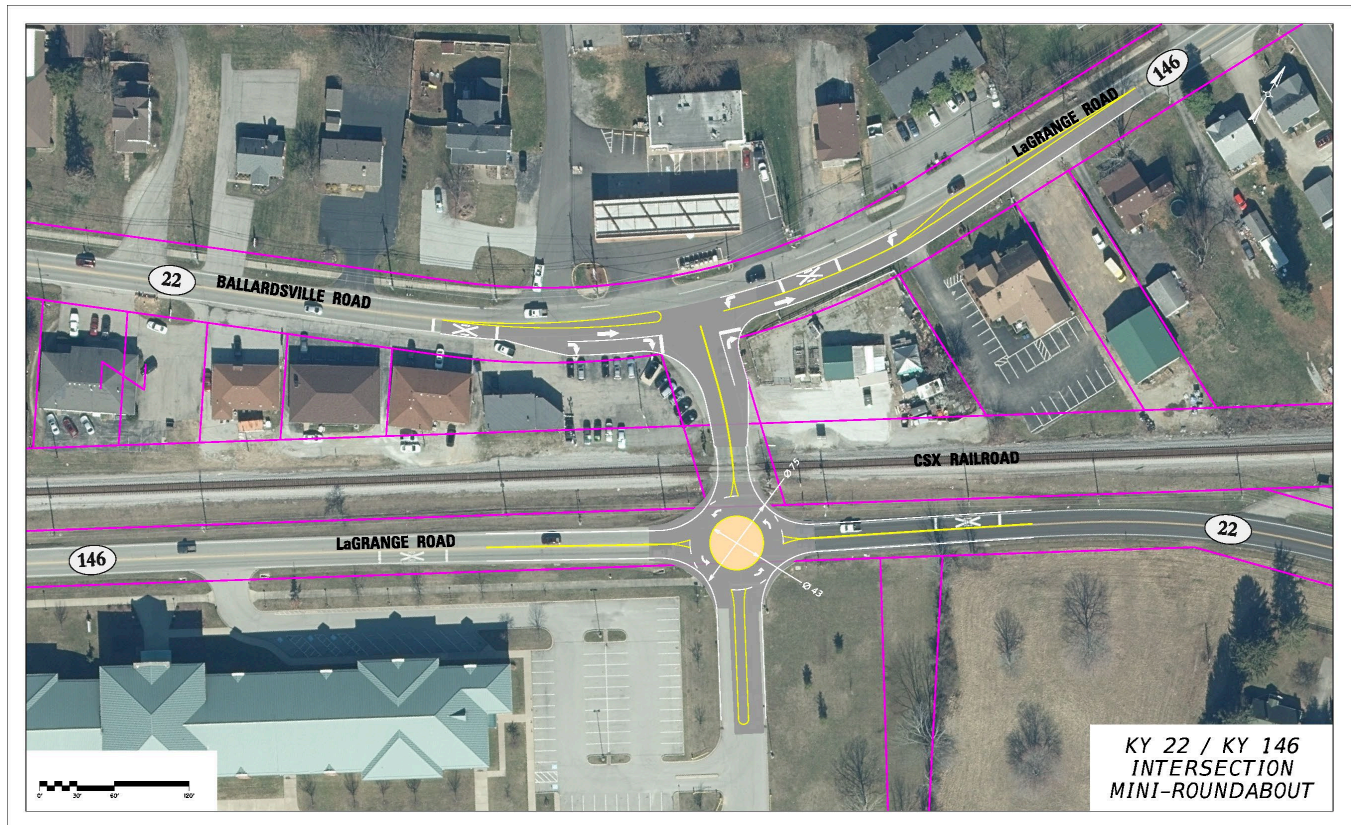
One-way KY 329 (Railroad Ave) with Mini-Roundabout

Long Term		Oldham Co. KY 22 MP 3.45-3.6 KY 146 MP 2.3-2.4
IMPROVEMENT DESCRIPTION: Create two-way stop control at the north KY 22/KY 146 intersection (by the Shell gas station) with turn lanes. Construct mini-roundabout at south KY 22/KY 146 intersection (by school). Railroad Avenue crossing is closed to southbound motorists.		Phase Estimate
		(2020 dollars)
		Design:
		Right-of-Way:
		Utilities:
		Construction:
		Total Cost:

		\$50,000
		\$60,000
		\$100,000
		\$440,000
		\$650,000

IDENTIFIED NEEDS:	
• 2021 Existing Traffic:	6,700 vpd at KY 22/KY 146 crossing with 2.8% trucks; KY 22/KY 146 intersection to south (four-way stop at school driveway) operates at LOS F in PM peak
• 2021 Build Traffic:	Assuming KY 329 (Railroad Ave) crossing closed to southbound traffic, both KY 22/KY 146 intersections at LOS A in peak hours.
• Safety:	KSP shows 4 crashes at south KY 22/KY 146 intersection and 10 crashes at north KY 22/KY 146 intersection during Jan 2017-Dec 2019
• Other Considerations:	Peak queue concerns at Reardon's crossing; partial closure diverts 1,300 vpd to Pewee Valley; mini-roundabout can be constructed within existing pavement footprint.

CONCEPT:



Close KY 329 (Railroad Ave) with Coordinated Signals

Long Term	Oldham Co. KY 22 MP 3.45-3.6 KY 146 MP 2.3-2.4
IMPROVEMENT DESCRIPTION: Install coordinated signals and turn lanes at the KY 22/KY 146 intersections north and south of the Reardon's at-grade crossing. Railroad Avenue crossing is closed to all motorists.	Phase Estimate (2020 dollars)
	Design: \$90,000
	Right-of-Way: \$120,000
	Utilities: \$150,000
	Construction: \$870,000
Total Cost: \$1,230,000	

IDENTIFIED NEEDS:

- 2021 Existing Traffic:**

6,700 vpd at KY 22/KY 146 crossing with 2.8% trucks; KY 22/KY 146 intersection to south (four-way stop at school driveway) operates at LOS F in PM peak
- 2021 Build Traffic:**

Assuming KY 329 (Railroad Ave) crossing closed to all traffic, both KY 22/KY 146 intersections at LOS C or better in peak hours.
- Safety:**

KSP shows 4 crashes at south KY 22/KY 146 intersection and 10 crashes at north KY 22/KY 146 intersection during Jan 2017-Dec 2019
- Other Considerations:**

Peak queue concerns at Reardon's crossing; closure diverts 2,400 vpd to Pewee Valley

CONCEPT:

