

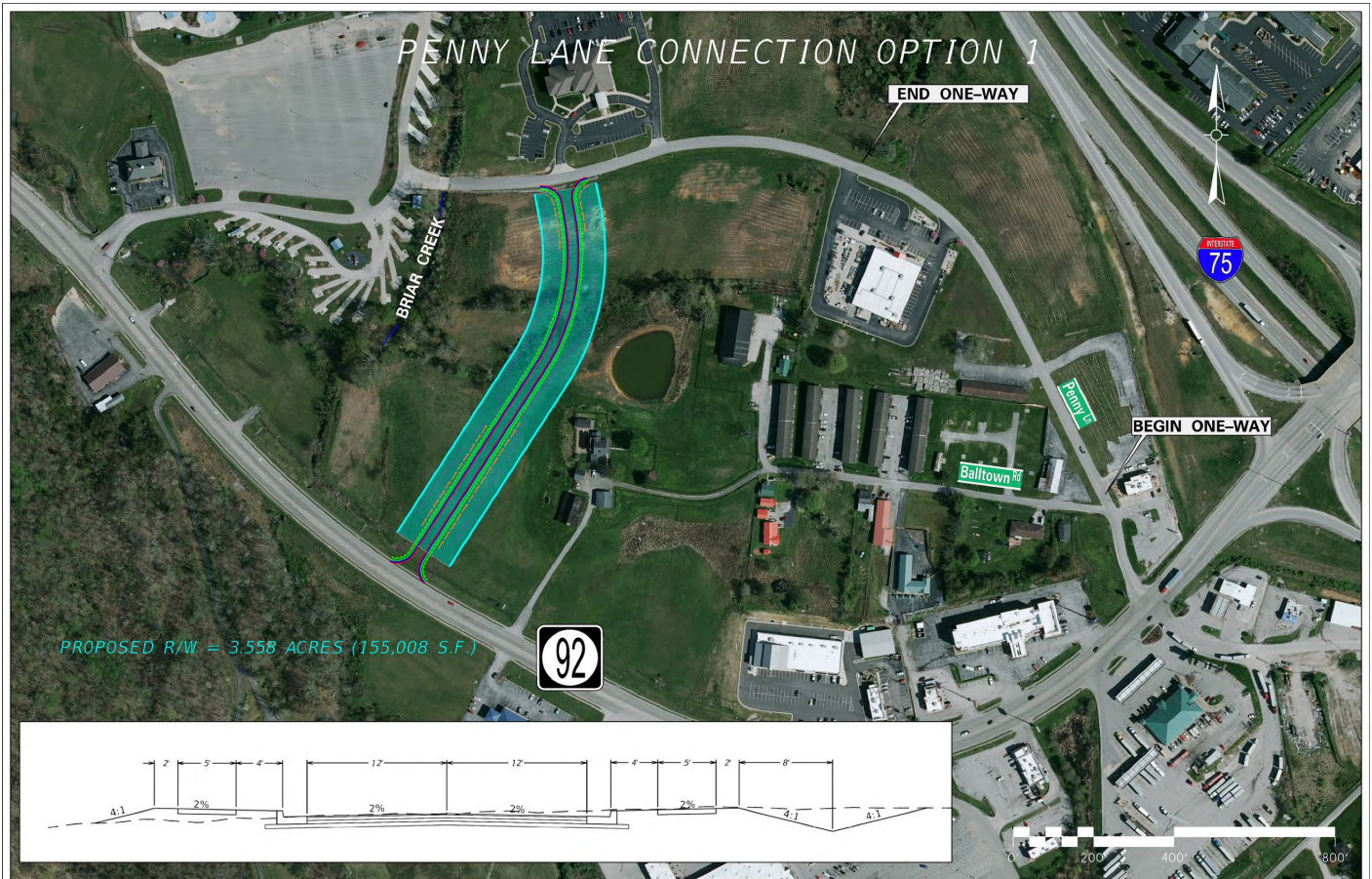
Option 1: New KY 92/Penny Lane Connector

Whitley County	New Alignment	
IMPROVEMENT DESCRIPTION: Create a new alignment connection between KY 92 (approx. MP 9.9) and Penny Lane (CS-1057), directly opposite the west driveway at the health department. Typical section with two 12-foot lanes, curb/gutter, 4-foot utility strips, and 5-foot sidewalks on both sides assumed.	Phase Estimate	(2021 dollars)
	Design:	\$140,000
	Right-of-Way:	\$1,270,000
	Utilities:	\$60,000
	Construction:	\$1,320,000
	Total Cost:	\$2,790,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 2,000 vpd on Penny Lane with 4% trucks
- 2045 No-Build Traffic: 6,000 vpd on Penny Lane with 4% trucks
- Safety: N/A (new alignment)
- Other Considerations: City street has two lanes (12+ feet wide) with curb/gutter

CONCEPT SKETCH:



◆ Approx. Right-of-way
 / Edge of pavement
 / Edge of sidewalk
 --- Approx. Disturb Limits
 / Ditch

Option 2: New KY 92/Penny Lane Connector

Whitley County	New Alignment	
IMPROVEMENT DESCRIPTION: Create a new alignment connection between KY 92 (approx. MP 9.9) and Penny Lane (CS-1057), creating a gentle curve along Penny Lane and eliminating the existing vehicular connection west of Waterpark Way. Typical section with two 12-foot lanes, curb/gutter, 4-foot utility strips, and 5-foot sidewalks on both sides assumed.	Phase Estimate	(2021 dollars)
	Design:	\$140,000
	Right-of-Way:	\$1,180,000
	Utilities:	\$90,000
	Construction:	\$1,330,000
	Total Cost:	\$2,740,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 2,000 vpd on Penny Lane with 4% trucks
- 2045 No-Build Traffic: 6,000 vpd on Penny Lane with 4% trucks
- Safety: N/A (new alignment)
- Other Considerations: City street has two lanes (12+ feet wide) with curb/gutter

CONCEPT SKETCH:



◆ Approx. Right-of-way
 / Edge of pavement
 / Edge of sidewalk
 --- Approx. Disturb Limits
 / Ditch

Option B: KY 92/Penny Lane Right-in/Right-Out

Whitley County

KY 92 MP 10.245

IMPROVEMENT DESCRIPTION:

- Convert the Penny Lane approach to KY 92 to right-in/right-out
- Convert 350-foot section of Penny Lane north of Balltown Road to one-way (northbound only)

Combines with new connector Option 1 or 2

Phase Estimate

(2021 dollars)

Design:

\$10,000

Right-of-Way:

-

Utilities:

-

Construction:

\$40,000

Total Cost:

\$50,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 15,400 vpd on KY 92 with 12% trucks | 2,000 vpd on Penny Lane with 4% trucks
Stop-controlled legs at LOS A-C (A-E) during AM (PM) peaks; southbound Penny at LOS E
- 2045 Build Traffic: 20,400 vpd on KY 92 | 6,000 vpd on Penny Lane
Stop-controlled legs at LOS A-E (A-E) during AM (PM) peaks; northbound Happy Hollow at LOS E
- 2017-2020 Crashes: 43 crashes within 250 ft of KY 92/Penny Ln intersection, including 0 fatalities and 7 injury collisions
46% represent angle crashes and 32% represent same direction sideswipes

CONCEPT SKETCH:



Option C: KY 92/Penny Lane Turn Restrictions

Whitley County

KY 92 MP 10.245

IMPROVEMENT DESCRIPTION:

- Convert the Penny Lane approach to KY 92 to right-in/right-out
- Convert the Happy Hollow Road approach to KY 92 to right-in/right-out/left-in
- Convert section of Penny Lane north of Balltown Road to northbound only
- Consolidate Pilot driveways (*optional add-on, included in costs*)

Combines with new connector Option 1 or 2

Phase Estimate

(2021 dollars)

Design:

\$30,000

Right-of-Way:

-

Utilities:

-

Construction:

\$240,000

Total Cost:

\$270,000

IDENTIFIED NEEDS:

- 2021 Existing Traffic: 15,400 vpd on KY 92 with 12% trucks | 2,000 vpd on Penny Lane with 4% trucks
Stop-controlled legs at LOS A-C (A-E) during AM (PM) peaks; southbound Penny at LOS E
- 2045 Build Traffic: 20,400 vpd on KY 92 | 6,000 vpd on Penny Lane
Stop-controlled legs at LOS A-B (A-B) during AM (PM) peaks
- 2017-2020 Crashes: 43 crashes within 250 ft of KY 92/Penny Ln intersection, including 0 fatalities and 7 injury collisions
46% represent angle crashes and 32% represent same direction sideswipes

CONCEPT SKETCH:

