

B. PEDESTRIAN AND BICYCLE CONSIDERATION REVIEW

Pedestrian & Bicycle Consideration Review

**Nelson County
Project # 04-8809.00
Constructing a new route to bypass downtown
Bardstown**

Prepared for:



Prepared by:
Troy Hearn
Division of Planning
Kentucky Transportation Cabinet
February 14, 2019

Bicycle and Pedestrian Review for Project #04-8809.00

Project Overview:

Construct a new route to bypass downtown Bardstown from US-31E to KY-245, US-62, and the Bluegrass Parkway.

Local/regional Planning:

- The local government does have a Bicycle and Pedestrian Master Plan. / <http://www.ncpz.com/ordinances.asp> (Chapter 5 pages 5-7, and Maps 5-8)
- Additional bike/ped planning map for urban area / <http://www.ncpz.com/PDF/11-11-2011/Map%205-8%20Urban%20Area%20Existing%20and%20Potential%20Recreational%20Paths%20Map.pdf> (Figure 1). The northern and western section of the new route (inner loop) is in the area identified for a shared use path/greenway corridor and additional bike/ped facilities to be included (KY-245 and US-31E)
- Current work to design and construct a shared use path along the northern section of the proposed area of the bypass (TAP project). Project# 4-3205 / KY-245 @ MP 2.4 from the Bloomfield Road intersection across US-31E and connecting to the Templin Avenue corridor (KY-1430 @ MP 0.9) (2016 BOP).

Future Conditions:

- New Route (inner loop option)
 - a. Anticipated ADT 6,000-7,000
 - b. Design speed limit 55MPH
 - c. Proposed urban curb and gutter cross section design
 - d. No paved shoulders
 - e. The anticipated Bicycle Comfort Index (BCI) average rating for this new route is a level D
- New Route (outer loop option)
 - a. Anticipated ADT 3,000-4,000
 - b. Design speed limit 55MPH
 - c. Rural cross section design
 - d. Paved shoulders (5 feet or wider)
 - e. The anticipated Bicycle Comfort Index (BCI) average rating for this new route is a level C

Existing conditions:

- KY-245 / MP 5.5-7.0
 - a. ADT range is 13000-20000
 - b. Posted speed limit is 55 MPH
 - c. Paved shoulder 5' or wider
 - d. Rural cross section design
 - e. Low estimates for bicycle travel volumes (Figure 2)
 - f. The Bicycle Comfort Index (BCI) average rating is a level C

- US-62 / MP 10-12
 - a. ADT range is 2200-4500
 - b. Posted speed limit is 55MPH
 - c. No paved shoulder
 - d. Rural cross section design
 - e. Low to moderate estimates for bicycle travel volumes (Figure 2)
 - f. The Bicycle Comfort Index (BCI) average rating is a level D

The KYTC Bicycle and Pedestrian program team recommendations are:

For the new route (inner loop alternative):

Best: Construct a shared use path (10' or wider) along the new route on the eastern side of the roadway and a sidewalk (5' or wider) on the western side of the roadway to accommodate pedestrian travel for current and future conditions. Coordinate with the local government to see where the planned shared use path (greenway) along KY-245, KY-2737, and US-62 is going to be placed. Connect the sidewalk or shared use path to existing sidewalk along US-62 at MP 13.724 (if within 300 feet of the project area). An agreement should be created between KYTC and the local government explaining the maintenance details for these facilities. The BCI average rating would be a level A (dedicated facility).

Good: Construct sidewalks on both sides of the roadway (5' or wider) to accommodate pedestrian travel for current and future conditions. Connect the sidewalk to existing sidewalk along US-62 at MP 13.724 (if within 300 feet of the project area). Provide a berm space along the eastern portion of the project wide enough for a future 10' wide shared use path. Coordinate with the local government to see where the planned shared use path (greenway) along KY-245, KY-2737, and US-62 is going to be placed. An agreement should be created between KYTC and the local government explaining the maintenance details for these facilities. The BCI average rating would be a level C.

Fair: Construct a sidewalk along the eastern side of the roadway (5' or wider) to accommodate pedestrian travel for current and future conditions. Connect the sidewalk to existing sidewalk along US-62 at MP 13.724 (if within 300 feet of the project area). Coordinate with the local government to see where the planned shared use path (greenway) along KY-245, KY-2737, and US-62 is going to be placed. An agreement should be created between KYTC and the local government explaining the maintenance details for this facility. The BCI average rating would be a level C.

For the new route (outer loop alternative):

Best: Construct a shared use path (10' or wider) along the entire new route on the eastern side of the roadway. Construct paved shoulders (6' or wider) along both side of the roadway and provide a 10' gap in the rumble strips every 40-50' (see Figure 3). An agreement should be created between KYTC and the local government explaining the maintenance details for this facility. The BCI average rating would be a level A (dedicated facility).

Traffic Forecast Technical Report

COUNTYNAME County: PROJECT DESCRIPTION

Item No. ITEM NUMBER

Good: Provide a constructed berm for a shared use path (10') along the northern section of the new roadway (from US-31E, across KY-245 and then to US-62) and construct shoulders on both sides of the roadway, (6' or wider). Provide a gap of 10' every 40-50' within the rumble strip (see Figure 3). The BCI average rating would be a level B. An agreement should be created between KYTC and the local government explaining the maintenance details for this facility.

Fair: For Rural Cross Section / Construct a paved shoulder on both sides of the roadway (6' or wider). Provide a gap of 10' every 40-50' within the rumble strip (see Figure 3). The BCI average rating would be a level C.

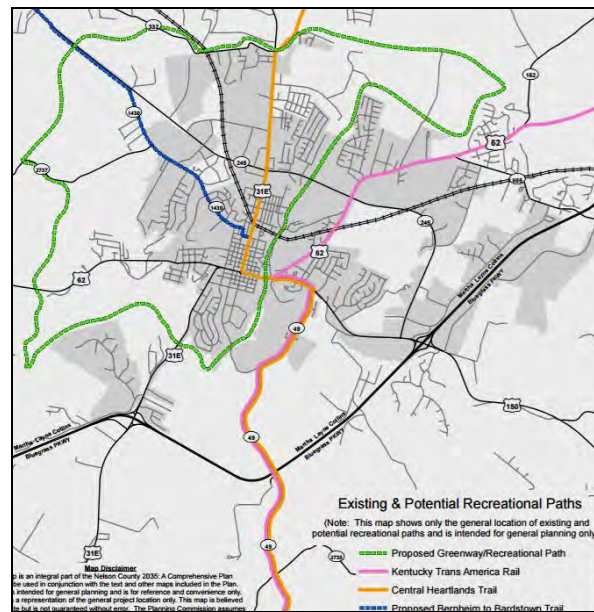


Figure 1 / Existing and potential trails in Bardstown area

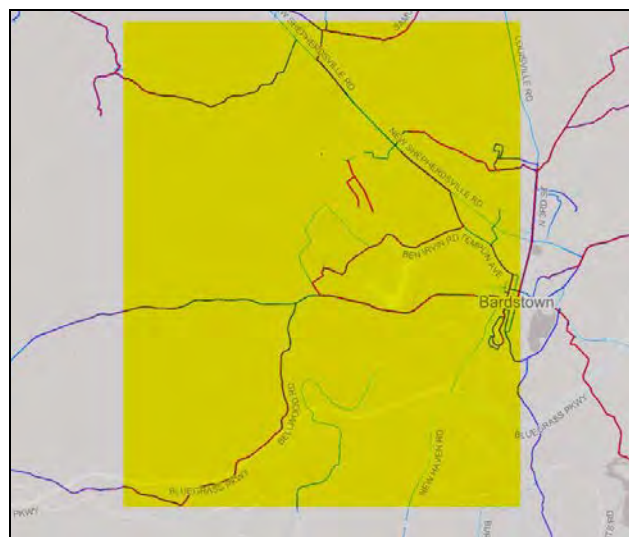


Figure 2 / Strava Global Heat Map for Bicycle Travel / <http://labs.strava.com/heatmap/#12/-85.48582/37.82402/gray/bike>

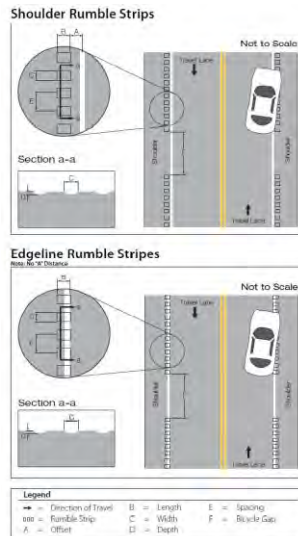


Figure 3 / Bicycle gaps within the rumbles / http://safety.fhwa.dot.gov/roadway_dept/pavement/rumble_strips/t504039/

- 1 BCI: <http://transportation.ky.gov/Bike-Walk/Documents/Bicycle%20Comfort%20Index%20Rating%20%202014.pdf>
- 2 KYTC Pedestrian and Bicycle Travel Policy: <http://transportation.ky.gov/Bike-Walk/Documents/KYTC%20Pedestrian%20and%20Bicycle%20Travel%20Policy%20%202002.pdf>

Prepared by:
Troy Hearn, Bicycle & Pedestrian Program Coordinator
Division of Planning, www.transportation.ky.gov/Bike-Walk
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