

EXECUTIVE SUMMARY

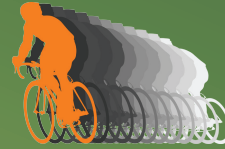
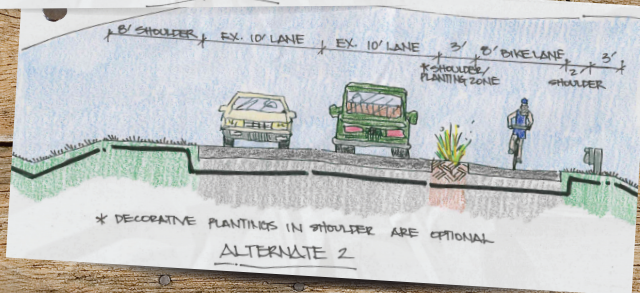
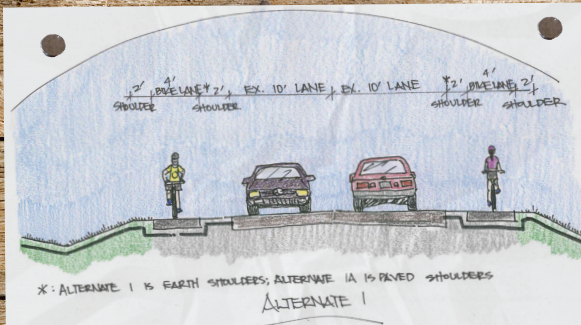


KY 109

from Old Hospital Road to Old KY 398 Road

Final Bicycle Feasibility Study

November 2013



*“State officials
have named
Dawson Springs
the Commonwealth’s
1st Trail Town.”*

Posted on May 8, 2013 at 6:03 AM
Dawson Springs, KY
(AP) Associated Press



EXECUTIVE SUMMARY

The city of Dawson Springs, located in western Kentucky (see *Exhibit 1, following page*), historically has been a destination mineral springs resort community known throughout the South for healthy and recreational lifestyles. Continuing the tradition of promoting healthy lifestyles, among the city's notable features today is its system of trails and recreation areas. Toward the goal of expanding its existing trail facilities and access to recreational areas, city officials are focusing on creating bicycle facilities to connect the city to local parks and natural areas for the benefit of community residents and visitors.

The purpose of this study is to determine the feasibility of providing a safe and cost effective bicycle facility along approximately 3.7 miles of KY 109, south from Old Hospital Road (milepoint 33.4), just south of the Dawson Springs city limit to Old KY 398 Road (milepoint 29.7) in Christian County. The completion of the project would provide a major link in the bicycle network in and around Dawson Springs by connecting the city to near the Pennyriple Forest State Resort Park in the heart of the Pennyriple Forest.

There are three primary alignment concepts—Alternatives 1, 1A, and 2, with varying typical sections. Each alternative provides for a “verge” of varying widths. A verge is the area of separation between the existing pavement and the bicycle path.

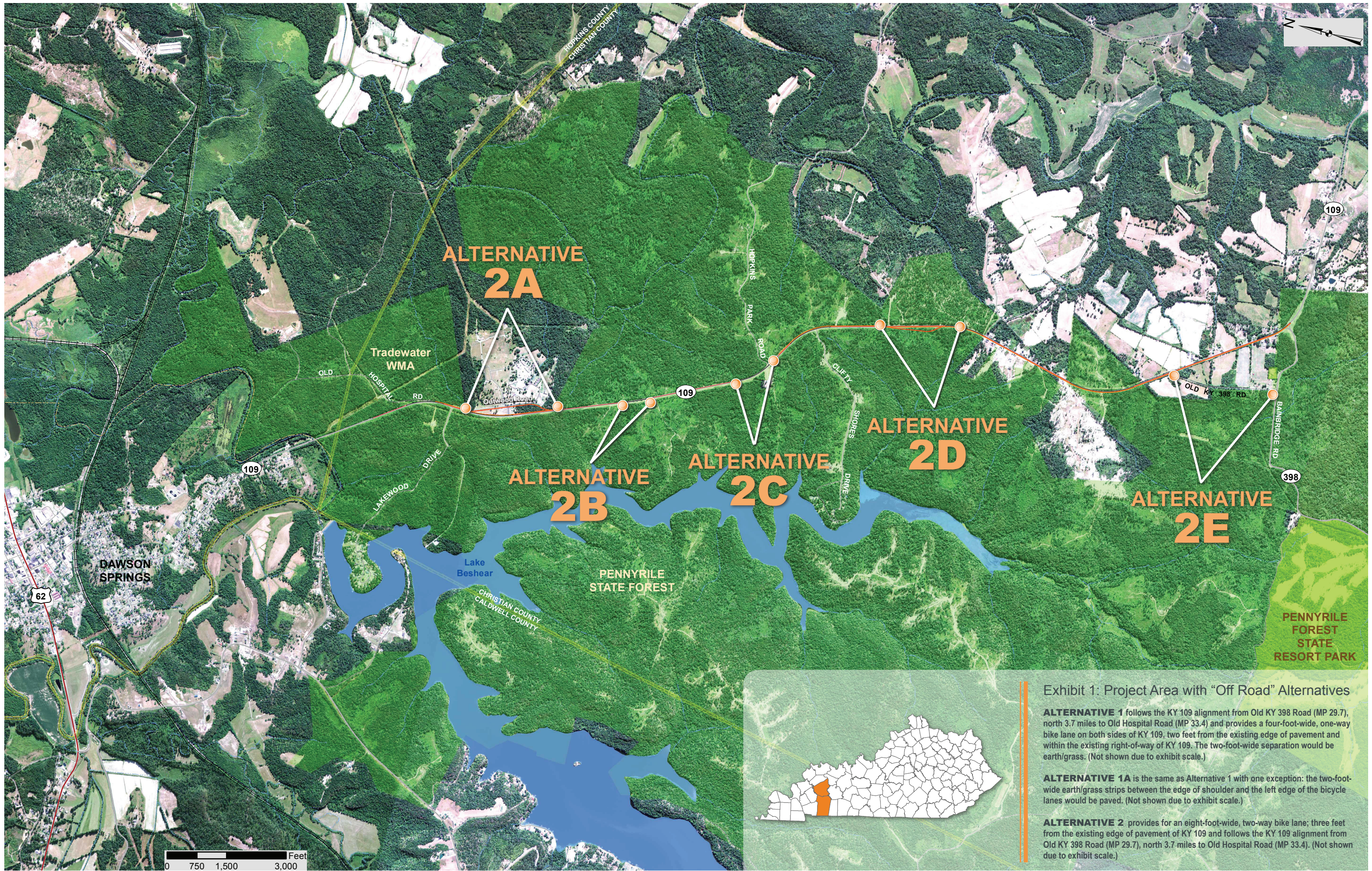
Alternatives 1 and 1A are “on-road” (i.e., on KY 109) bicycle lane alternatives that would expand the KY 109 roadway width to accommodate a four-foot wide, one-way bike lane on both sides of the road and adjacent to each travel lane. These alternatives are more traditional bicycle lanes.

Alternative 2 is also an “on-road” alternative, but unlike Alternatives 1 and 1A, it provides for a two-way bike lane located on one side of KY 109. Additionally, this alternative concept allows for several spot alignment options (2A-2E) located off of, but parallel to, KY 109.

After a review of alternative concepts and preliminary cost estimates, a discussion was conducted regarding possible funding for the bicycle facility. Alternative 2 with the off-road options may be eligible for Recreation Trails Program funding. If the project was selected, the grant could support 100% of the construction costs; design, right of way and utility relocation costs would need to be funded separately. Design, right of way, and utility relocation funds could be supported by additional project funds. The bicycle facility may also be eligible for Transportation Alternatives funding.

Alternative 2 with off-road options 2A, 2B, 2C, 2D and 2E and aesthetic plantings was selected as the “**preferred alternative**” by the Project Team. This alternative was selected because it is (1) safer for the cyclists, (2) provides an ideal location for crossing the roadway, (3) is more in keeping with the character of the area, and (4) would be expected to increase bicycle use.





ALTERNATIVE 2A

ALTERNATIVE 2B

ALTERNATIVE 2C

ALTERNATIVE 2D

ALTERNATIVE 2E

Exhibit 1: Project Area with "Off Road" Alternatives

ALTERNATIVE 1 follows the KY 109 alignment from Old KY 398 Road (MP 29.7), north 3.7 miles to Old Hospital Road (MP 33.4) and provides a four-foot-wide, one-way bike lane on both sides of KY 109, two feet from the existing edge of pavement and within the existing right-of-way of KY 109. The two-foot-wide separation would be earth/grass. (Not shown due to exhibit scale.)

ALTERNATIVE 1A is the same as Alternative 1 with one exception: the two-foot-wide earth/grass strips between the edge of shoulder and the left edge of the bicycle lanes would be paved. (Not shown due to exhibit scale.)

ALTERNATIVE 2 provides for an eight-foot-wide, two-way bike lane; three feet from the existing edge of pavement of KY 109 and follows the KY 109 alignment from Old KY 398 Road (MP 29.7), north 3.7 miles to Old Hospital Road (MP 33.4). (Not shown due to exhibit scale.)



0 750 1,500 3,000 Feet



Engineering Planning

Groundbreaking by Design.



1046 E. Chestnut Street; Louisville, KY 40204
Ph. 502-585-2222 | Fx. 502-581-0406 | www.qk4.com