



We're Practically There!

Presented to the
2010 Partnering Conference

By: Jeff Jasper





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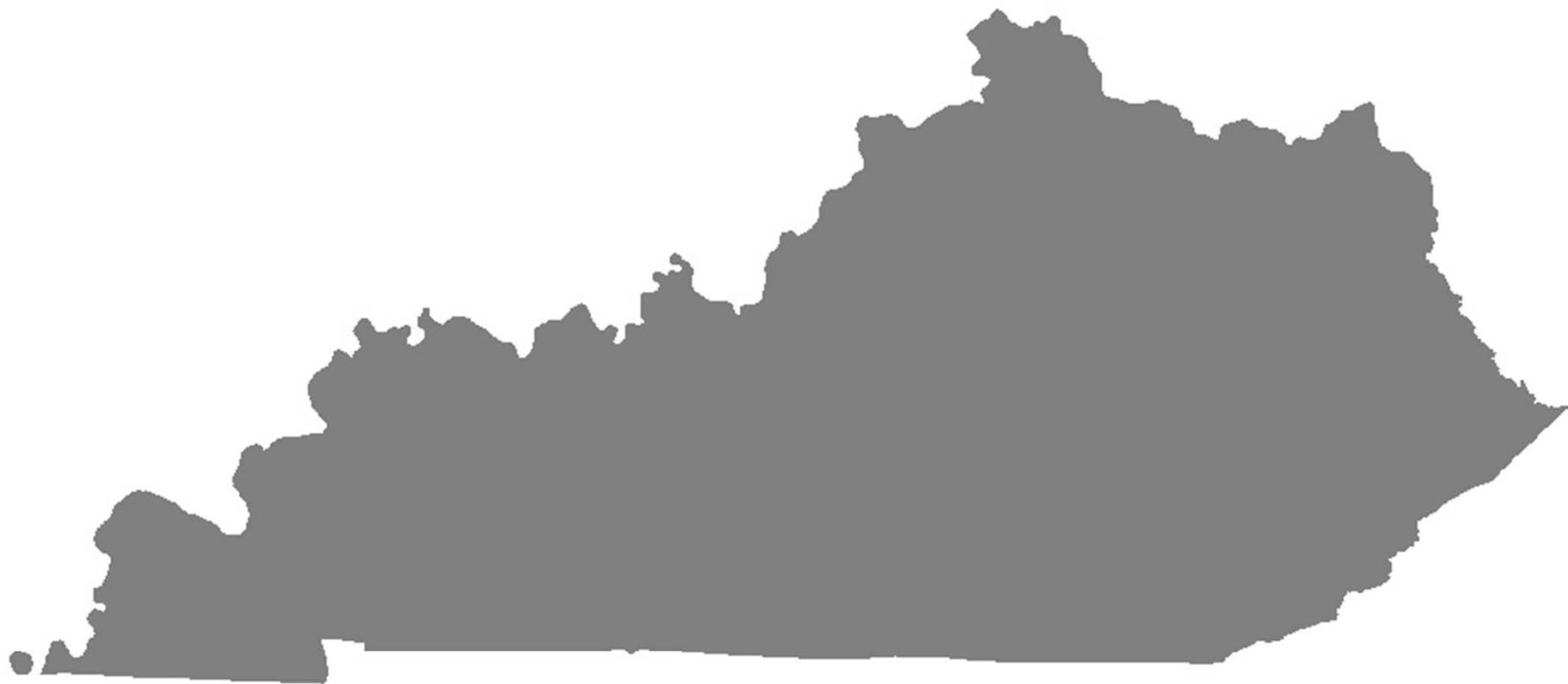




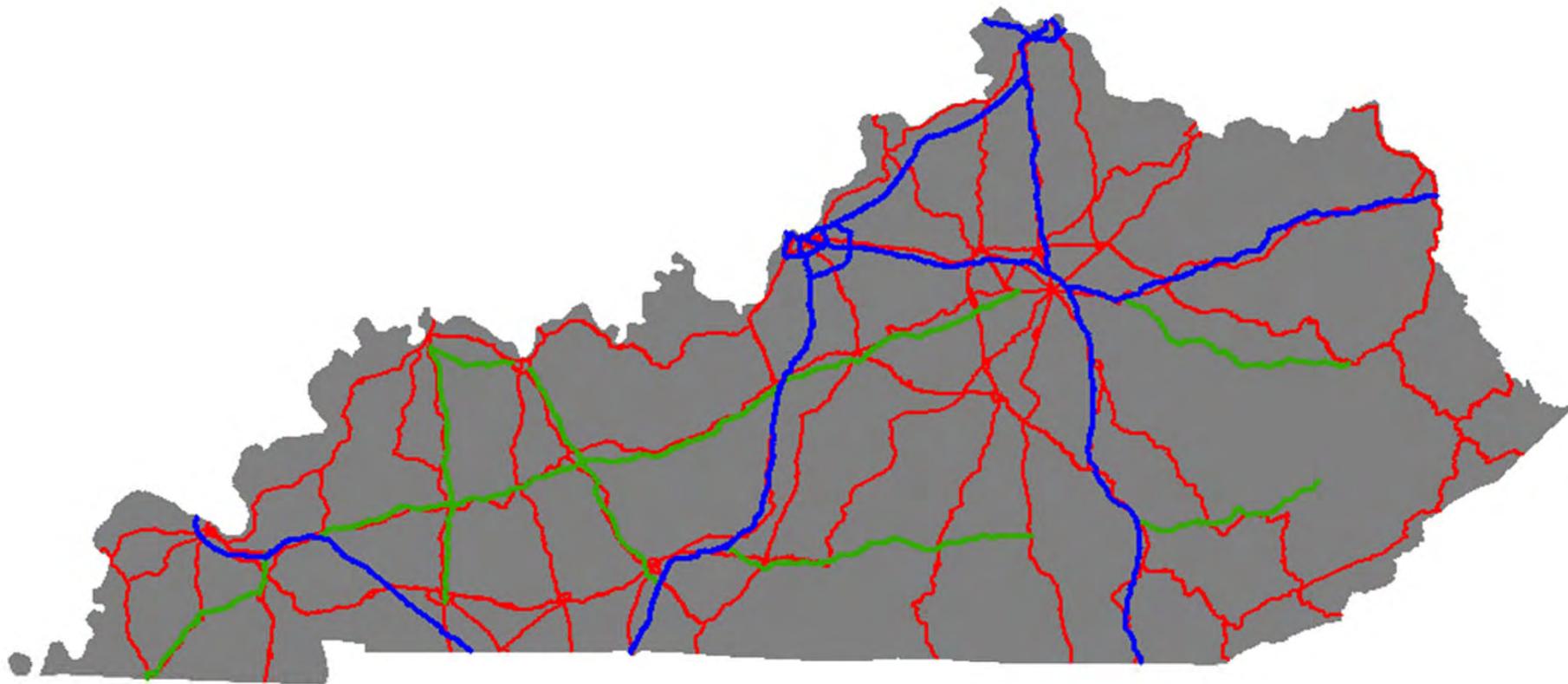
We're Practically There!

- Review "Practical Solutions"
- Current Status of "Practical Solutions"
- Examples of Successes

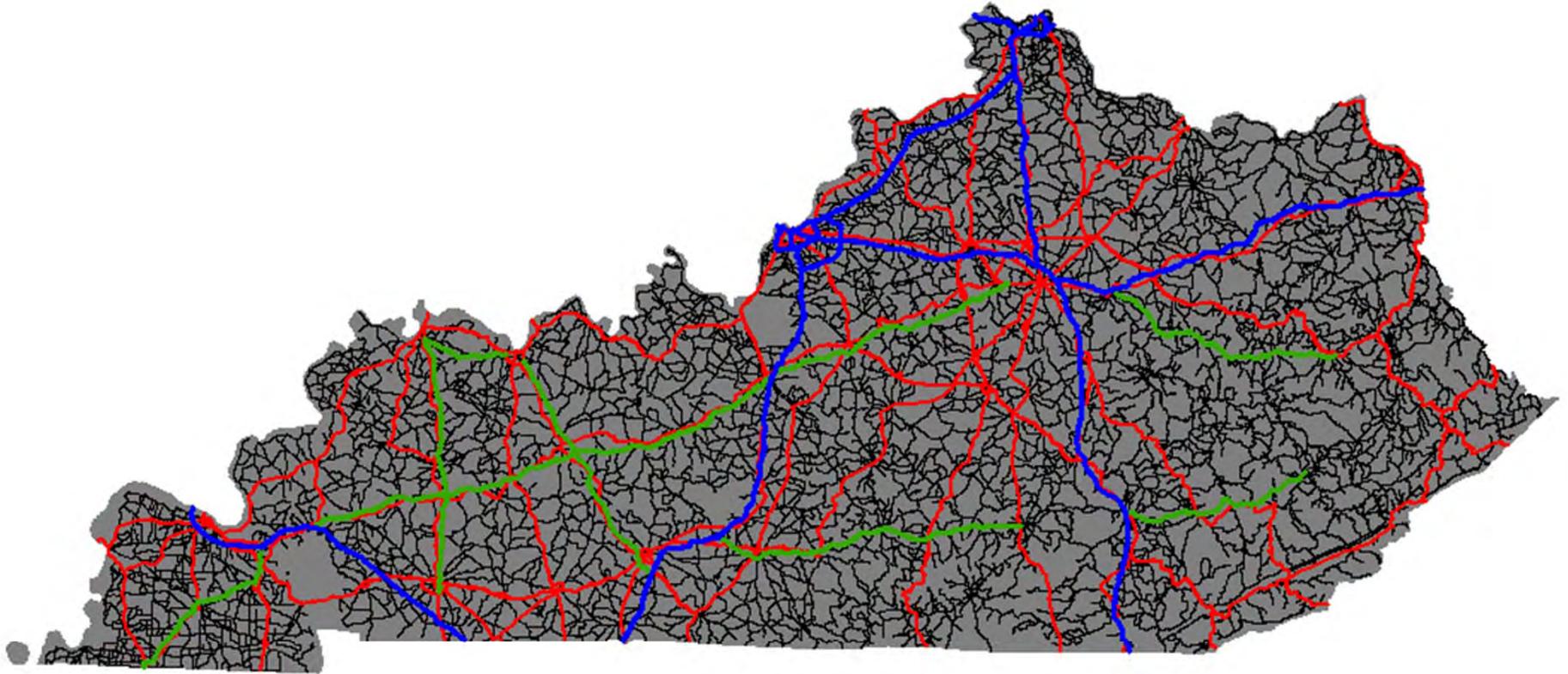




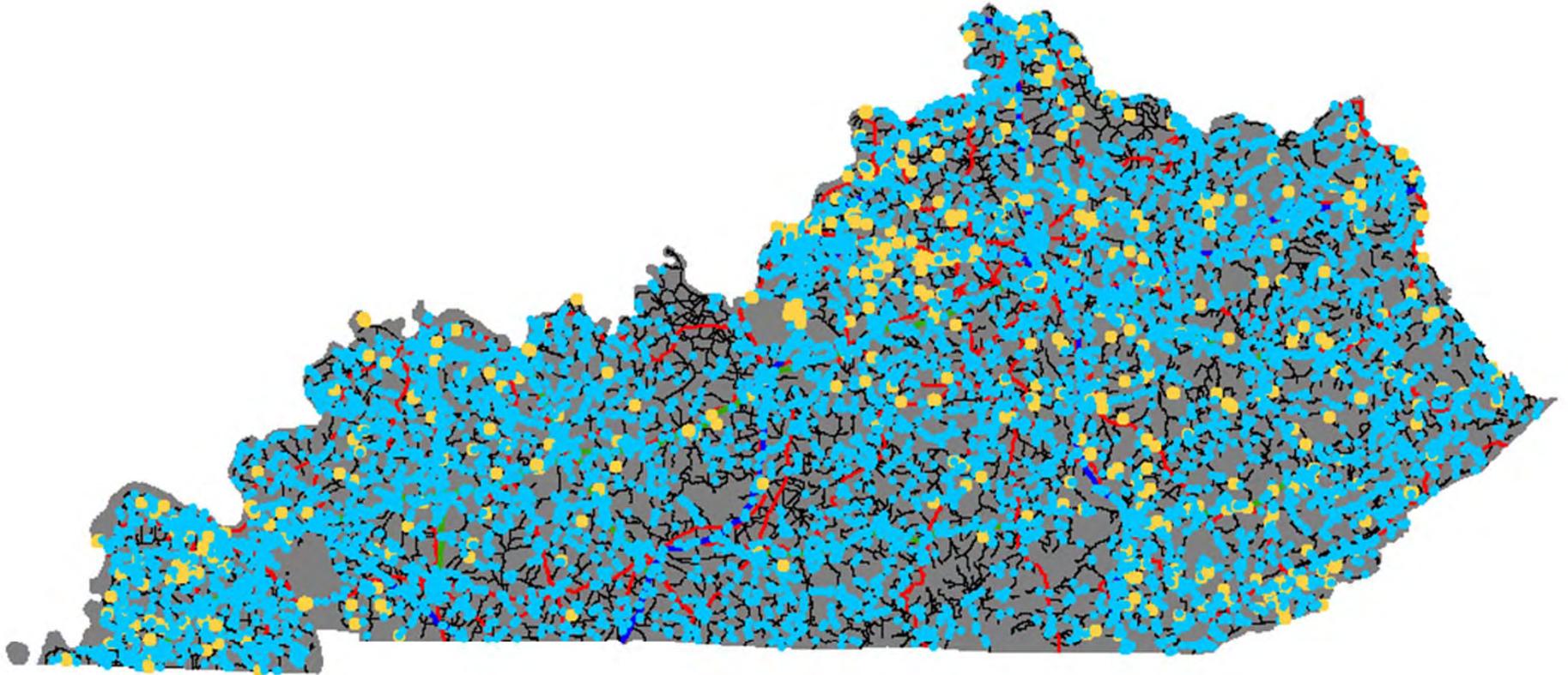
Kentucky has approximately 5000 miles of Interstates, Parkways, and U.S. Routes



Kentucky has approximately 22,600 miles of State Route Highways.



**Kentucky has approximately 8,843
State Maintained Bridges.**







Projects

KYTC



The charge to get Practical...



FROM: O. Gilbert Newman, P.E.
State Highway Engineer

DATE: April 22, 2008

SUBJECT: Guidance for the Use of “Practical Solutions” to Project Delivery

The Kentucky Transportation Cabinet (KYTC) is continually challenged with looking for ways to improve the way we conduct business. As a part of that continuous improvement process, efforts are underway to re-emphasize many of the fundamentals that go into the development and delivery of the KYTC’s roadway projects. As many of you are aware, one of the main challenges we face today is to find a way to “**do more with less!**” While this phrase may begin to sound somewhat “worn out,” this fundamental concept needs to be taken into consideration as an integral part of the decision-making process during all phases of project development and delivery. One of the first steps with any project is to identify the “purpose and need” and the subsequent project scope. It is at this early stage that we have been asked to focus our efforts to ensure that the project scope developed is appropriate and fulfills the initial purpose and need. This initiative, currently labeled “**Practical Solutions,**” is how the KYTC hopes to use the limited resources available to meet the transportation needs of this state.

Practical Solutions = Context Sensitive Solutions





Context Sensitive Solutions

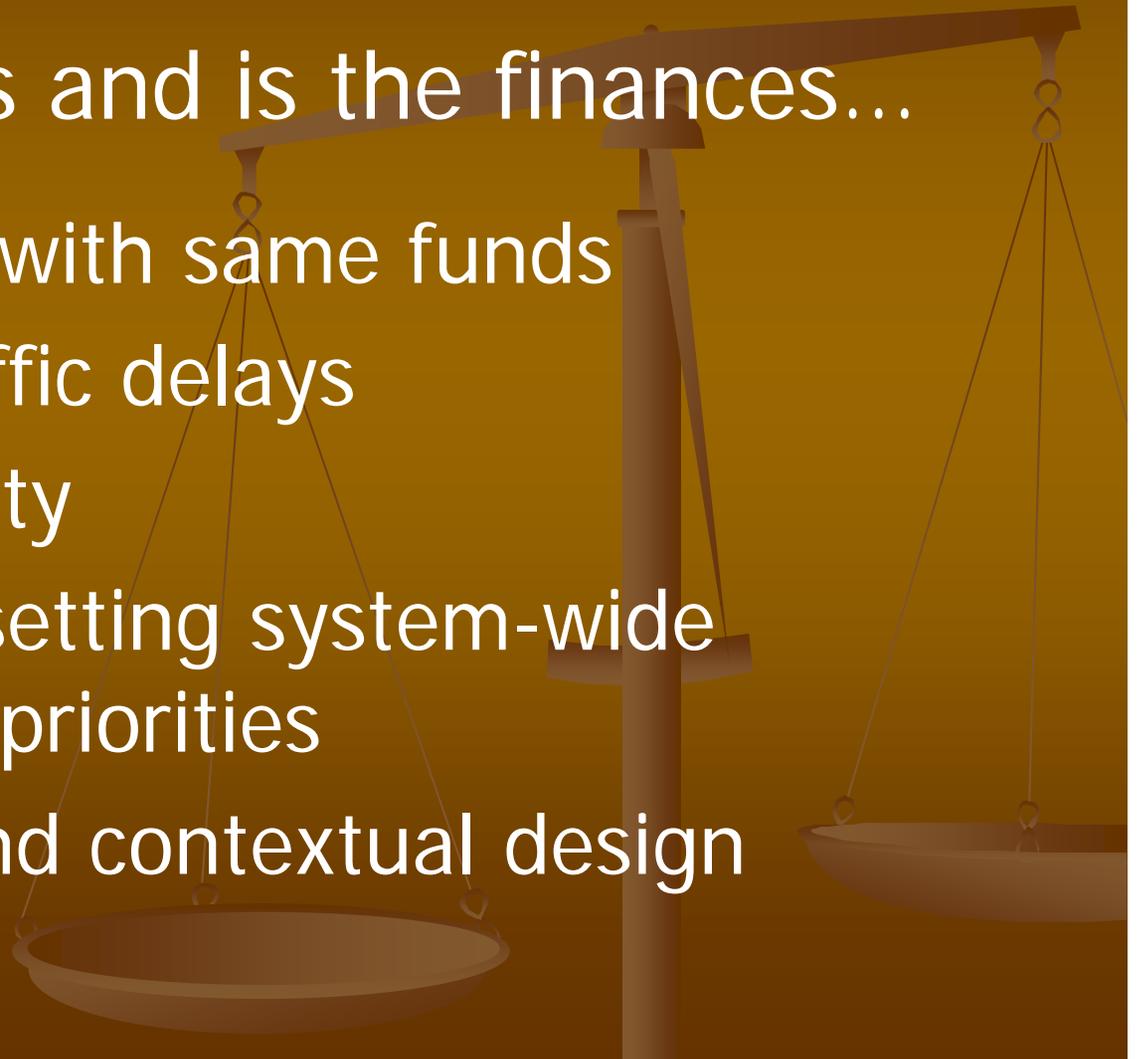
Engineering, Environment, and
Economics

Be Practical!!

SO WHY PRACTICAL SOLUTIONS?

The push was and is the finances...

- More projects with same funds
- Decreased traffic delays
- Improved safety
- Potential for setting system-wide approach and priorities
- Appropriate and contextual design



Practical Definition...





Current Status Nationally of "Practical Solutions"



KENTUCKY
TRANSPORTATION
CABINET





COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE

HON. JAMES L. OBERSTAR (MINN.), CHAIRMAN



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LIVE WEBCAST

Next Live Webcast

TO BE ANNOUNCED

*For Video of Previous Hearings
Visit that Hearing's Web Page*

WATCH NOW >>

Resources

T & I Agenda

Comparison Chart 108th & 109th
to 110th & 111th Congresses

Hearings Comparison Since 2001

Bills Comparison Since 2001

Legislative Summary of the
110th

PRESS RELEASES

Using Practical Design and Context Sensitive Solutions In Developing Surface Transportation Projects

Chairman Oberstar's and Subcommittee Chair DeFazio's opening statements from today's Highways and Transit Subcommittee hearing.

JUNE 10, 2010

By Jim Berard 202-226-5064

The Transportation and Infrastructure Subcommittee on Highways and Transit on Thursday heard testimony on how surface transportation projects can compliment their communities and environment through better design and sensitivity to the project's location.

SEARCH THIS SITE

SEARCH THOMAS FOR LEGISLATION

Latest Video



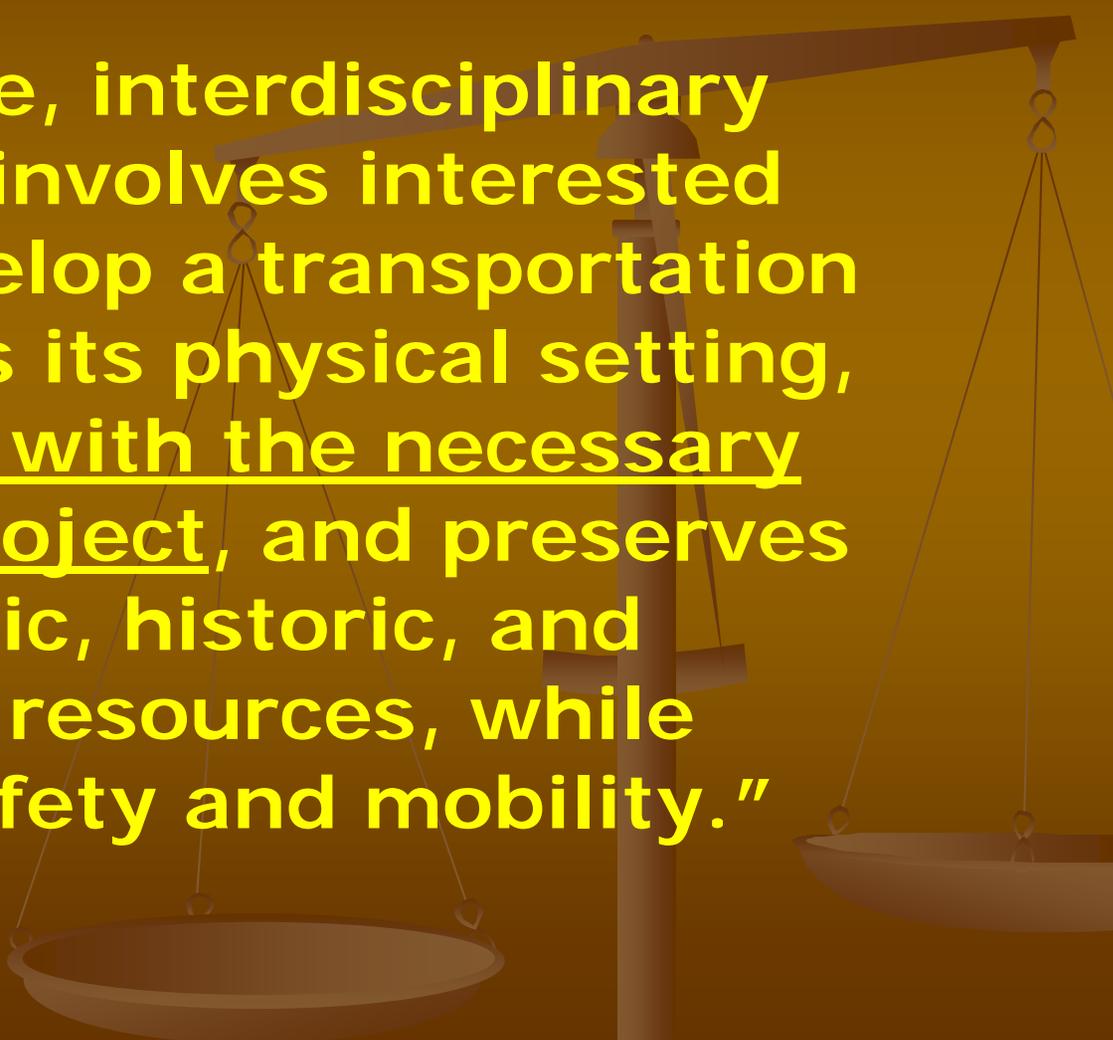
Important Info

RECOVERY ACT REPORT



Surface Transportation Authorization Act: “practical design standards” provision

“a collaborative, interdisciplinary approach that involves interested entities to develop a transportation facility that fits its physical setting, balances costs with the necessary scope of the project, and preserves scenic, aesthetic, historic, and environmental resources, while maintaining safety and mobility.”



Current Status in Kentucky of “Practical Solutions”



KENTUCKY
TRANSPORTATION
CABINET



“it has become a part of the design process...we don't say 'Practical Solutions' much anymore...there has been such good buy in that everybody is just making it happen.”



“Projects used to come up here & I would ask ‘could you go back and look at this?’ ...to see if we could trim the costs. Now, the districts are coming to me asking if we can shorten the project or pointing out a potential savings. It’s great!”



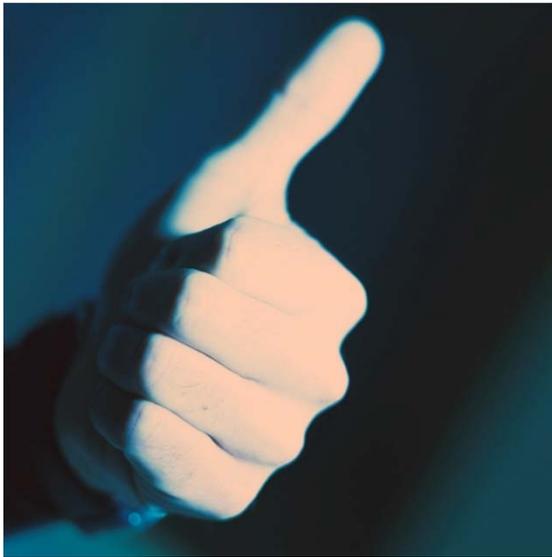
“From a cash-flow perspective, we are really seeing success. We have been able to move more projects to construction ...and the needs of the projects are being met! The projects are being ‘right-sized’.”



“Make sure you credit the people...the Location Engineers, the Project Development Branch Managers, Districts and Central Office staff...our Consultants and FHWA. This has been and will continue to be a team effort.”



Examples of Success!!



Success!! Example #1

KY 172 in Morgan County

**SYP description: “reconstruct KY 172
from the 2 mile marker to the 10.4”**

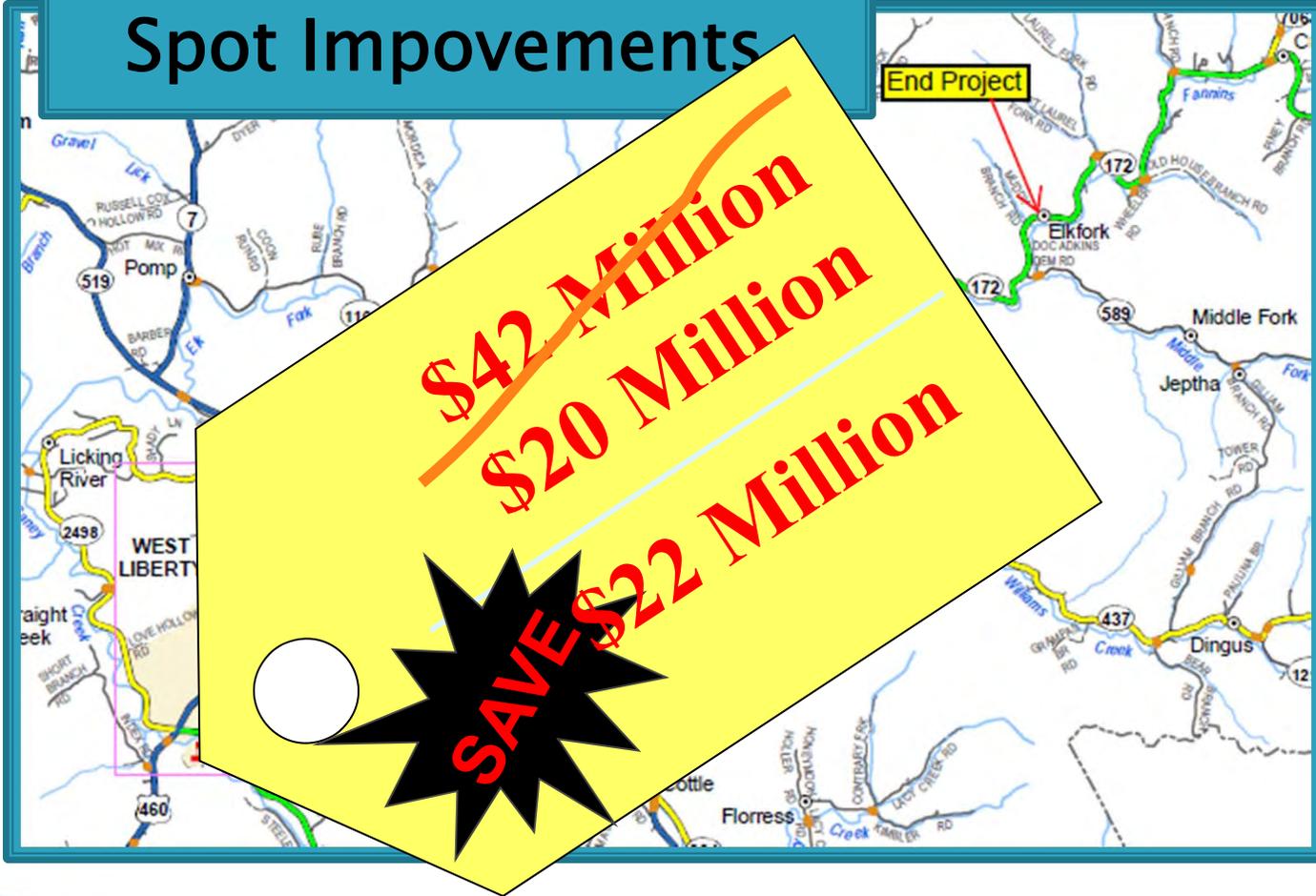
Functional class =rural collector

**Current ADT of 2500 vpd (m.p. 2) and
900 vpd (m.p.10)**

Residential/small farms .

Success!! Example #1

Spot Improvements



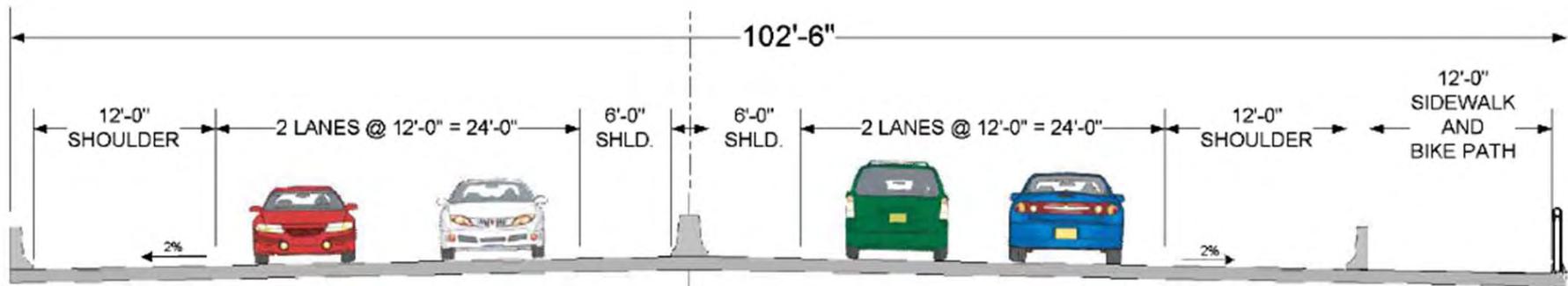
Success!! Example #2

New Bridges Over Lake Barkley & Kentucky Lake; US 68 / KY 80

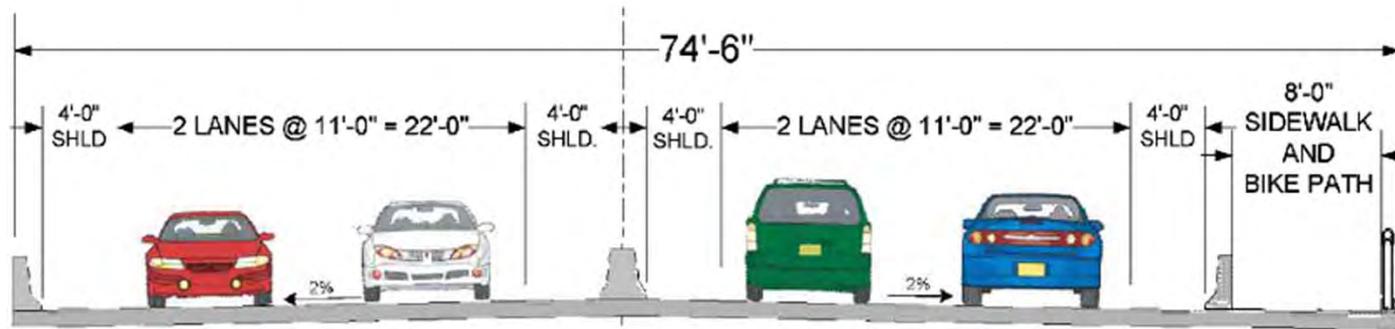




Bridge Cross Section Options



ORIGINAL TYPICAL SECTION



REDUCED SECTION





Alternative 6 Basket-Handle Tied Arch



~~\$460 Million~~
\$320 Million
SAVE \$140 Million

Success!! Example #3

**Harlan County: Bridge Replacement on
KY3459 over Martin's Fork of
Cumberland River**

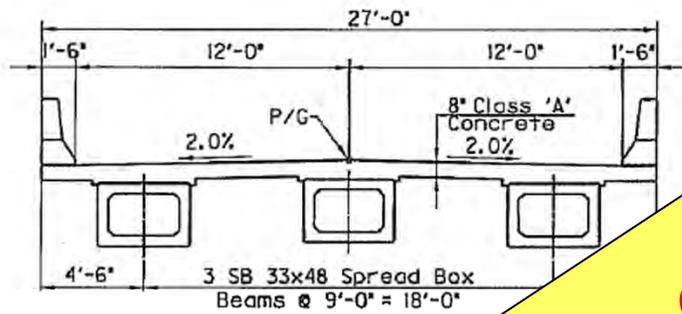
Structurally deficient bridge (SR=14.6)

**The approach road (KY3459) is a rural
local with 10' lanes & 1' shoulders.**

**Current ADT of 3730 vpd. Speed limit is
35 mph.**



Success!! Example #3

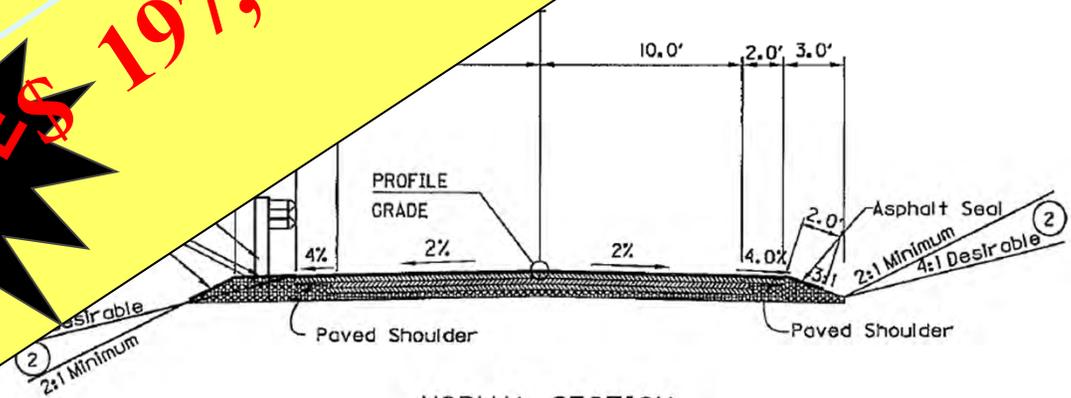


TYPICAL DECK SECTION

Reduced Section

~~\$1,075,650~~
\$ 878,000
SAVES \$ 197,650

SECTIONS



NORMAL SECTION

Success!! Example #4

**Warren County: Cumberland Trace
Road, KY 2158**

3.23 mile roadway improvement

A portion of this stretch has commercial development with higher traffic volumes. The remainder of the project is residential and farm land.



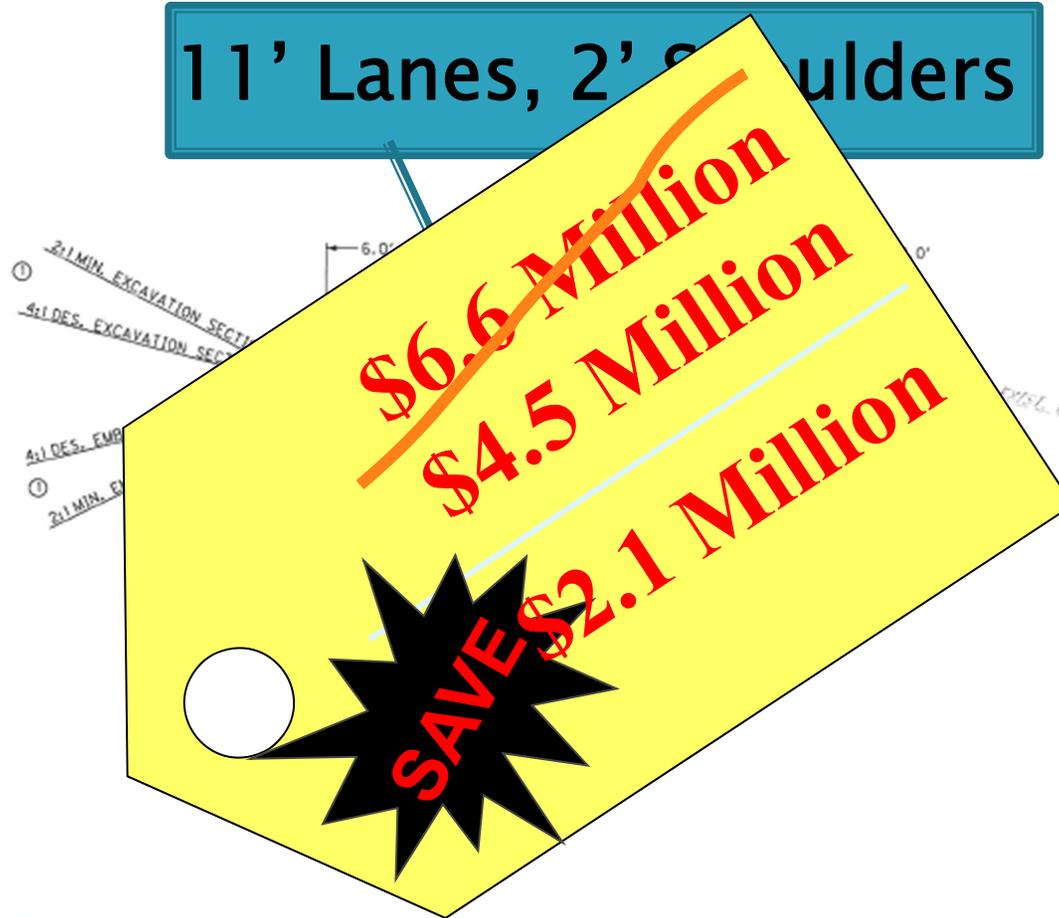
KY 2158 Rural Section

KY 2158 Urban Section



Success!! Example #4

11' Lanes, 2' Shoulders



Success!! Example #5

The KY720/Horseshoe Bend Road project was to improve the capacity and safety of the intersection.

The problem was limited visibility through the intersection area.





~~\$780,000~~

\$ 13,500

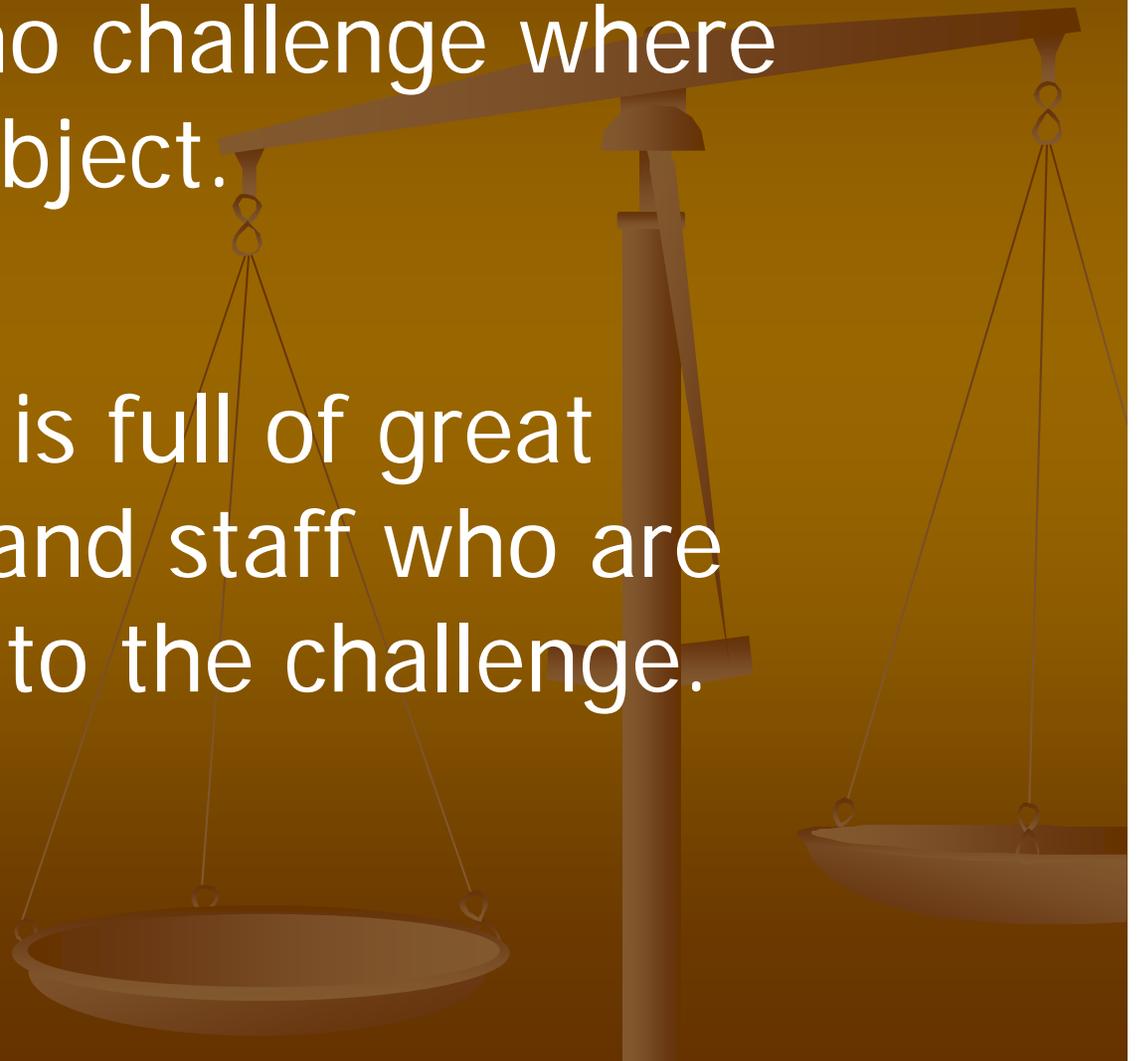
\$766,500

SAVES \$13,500

Context Sensitive and Practical

Engineering is no challenge where
money is no object.

Our community is full of great
professionals and staff who are
more than up to the challenge.



Project Development Philosophy

And the key to success is...

You!

