

## Why Improvements are Important

Traffic is projected to increase 65 percent by 2040; that means areas with congestion today will just get worse if no improvements are made.

- 230,000 vehicles drive through the interchange today with that number projected to increase to 380,000 by 2040.
- A four-minute drive today through the interchange during the peak PM hour should take three minutes without congestion and is expected to take an average 16 minutes by 2040 if no improvements are made.
- Ten percent of the interchange segments operate in congested conditions today with that percentage expected to exceed 50 percent by 2040 if no improvements are made.

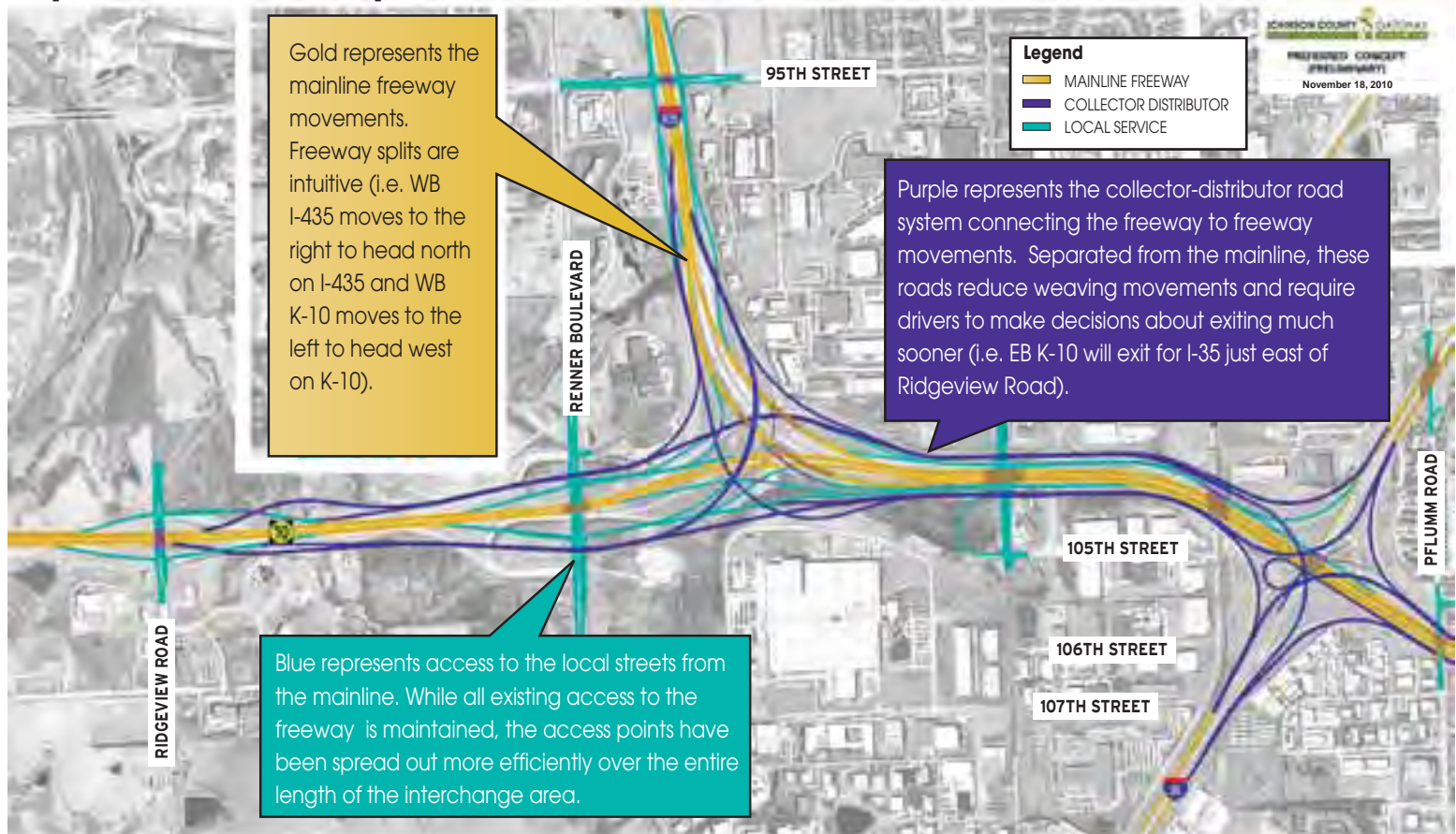
The Johnson County Gateway: I-435/I-35/K-10 interchange is one of the most congested interchanges in the state. The economic vitality of the region relies on the continuity and efficiency of the transportation system. That is why the Kansas Department of Transportation has developed plans for safety and traffic improvements in this area. The study is expected to be completed by early 2011.

## Concept Study Recommendations

The I-435/I-35/K-10 interchange Concept Study developed recommendations to address existing and future traffic needs through the year 2040. Most of the proposed improvements will address traffic issues well beyond 2040. These improvements coupled with other transportation solutions such as Intelligent Transportation System (ITS), managed lanes and transit alternatives will allow the Johnson County Gateway interchange to continue to serve as an important transportation hub for future economic development in the region and the state.

The study team prioritized improvement recommendations and developed a phased construction plan to allow the ultimate concept to be completed over time. Additional projects and coordination with the I-435 and US-69 project will create efficiency and cost savings.

## Improvement Concept



# The Gateway Project Phasing Approach

## Project 1 - Yellow Project

The Yellow Project will address the back-up of traffic on the existing WB I-435 to SB I-35 flyover ramp. It will also address the heavy SB and NB I-35 traffic between 119th Street and I-435. Estimated construction cost is \$16 million.

## Project 2 - Orange Project

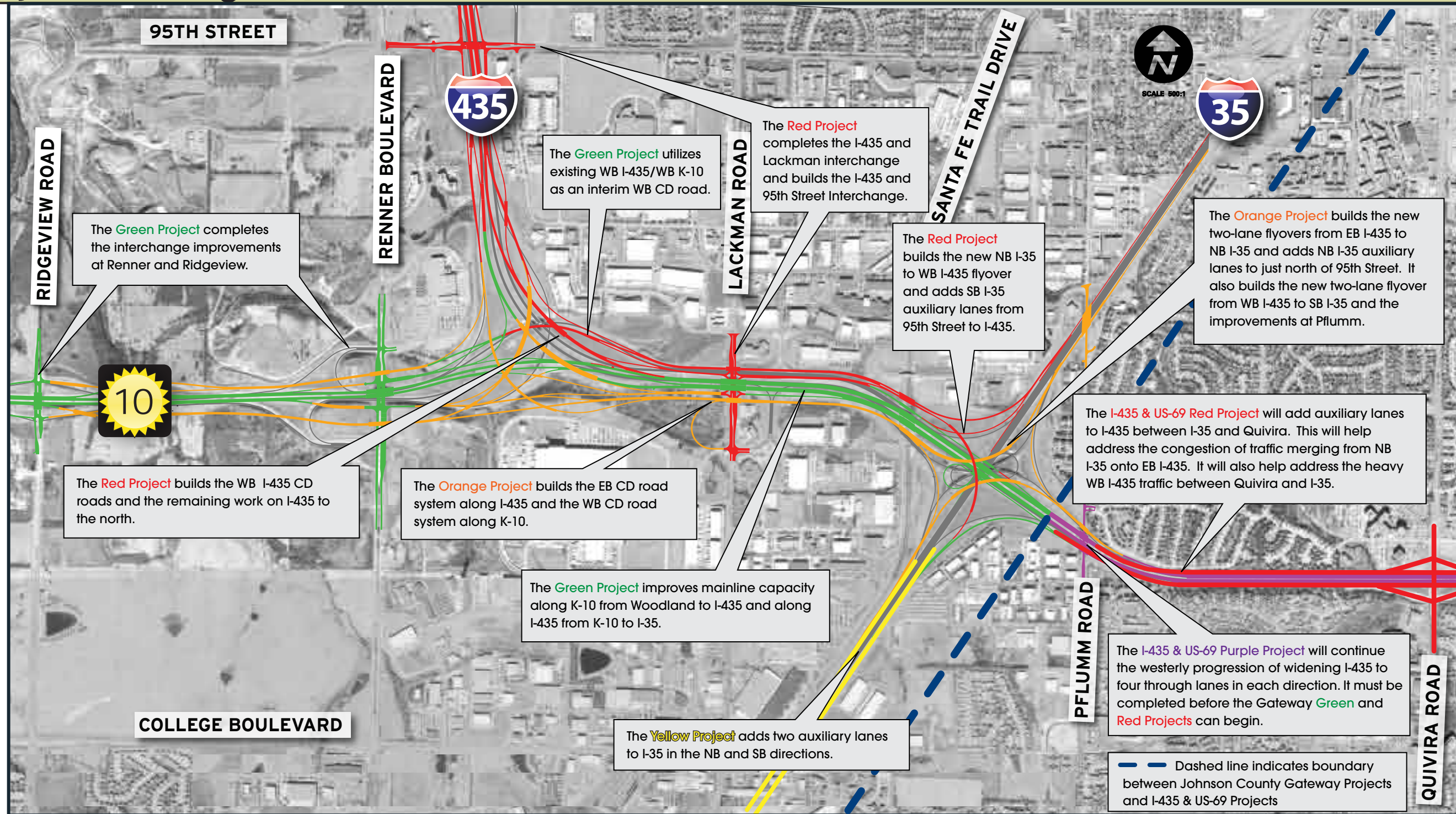
The Orange Project will address the EB traffic congestion between K-10 and I-35. It will also address the heavy traffic on NB I-35 just north of I-435. The Orange Project, in conjunction with the Yellow and I-435 & US-69 Red Project, addresses nearly 80 percent of today's problems within the interchange area. Estimated construction cost is \$244 million in 2016 dollars.

## Project 3 - Green Project

The Green Project, in combination with the Orange and Yellow Projects, addresses nearly 70 percent of the future anticipated problems within the interchange area. Estimated construction cost is \$191 million in 2016 dollars.

## Project 4 - Red Project

The Red Project completes the improvements addressing all the remaining traffic issues identified within the interchange area. Estimated construction cost is \$132 million in 2016 dollars.



## Economic Benefits

### Yellow Project and the I-435 & US-69 auxiliary lanes of the Red Project on I-435 between I-35 and Quivira:

- \$800+M of additional Gross Regional Product plus Traveler Benefit
- CREATION of 1,300+ jobs

### Total Gateway Project: (Including Orange, Green and Red Phases)

- \$1.2+B of additional Gross Regional Product plus Traveler Benefit
- CREATION of 3,500+ jobs

The economic analysis evaluates several factors to develop these benefits, but it is worth noting:

- These benefits are based on the comparison of two situations; the **Build** and **No-Build** situations.
- These are the benefits in year 2035, but are reported in 2010 dollars (basically, it's a look into the future, but in current dollars).

- Approximately 1,300 to 3,500 jobs can be directly attributed to these projects.
- These numbers are a result of improved travel time, congestion relief, safety improvements, improved reliability, and expansion of markets areas.
- Finally, these are **PERMANENT** jobs, not simply construction jobs, while construction jobs are created, they are not reported in these numbers.

## Construction Sequence

		Years																				
		Construction Costs ***	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Johnson County Gateway Interchange	Project 1 - Yellow Project**	\$16 M		■																		
	Project 2 - Orange Project*	\$244 M					■	■	■	■	■											
	Project 3 - Green Project*	\$191 M												■	■	■	■	■				
	Project 4 - Red Project*	\$132 M																			■	■
I-435 & US-69 Interchange	I-435 & US-69 Red Project*	\$115 M	■	■	■	■																
	I-435 & US-69 Purple Project*	\$51 M										■	■									
<p>* Pending future programming decisions, design, right-of-way and utility relocations.</p> <p>** Yellow Project programmed for February 2012 letting.</p> <p>*** Costs shown are 2016 estimated construction costs.</p>																						

## Public Outreach

Supporting the study effort is an extensive public and stakeholder engagement process with the following activities included:

- Community interviews
- Electronic newsletters
- Website: [www.jocogateway.com](http://www.jocogateway.com)
- Blog
- Facebook page: Johnson County Gateway
- Online surveys
- Public meetings
- Community presentations
- Public official briefings
- Advisory groups
- Media relations
- Issues workshops
- Focus groups

## Focus Group Results

The study team conducted focus groups in early 2010. Participants were selected at random from Johnson County, Eudora and Kansas City, Kansas. A total of 71 residents participated in the focus groups with 80 percent of them typically using the interchange. (The results for a sample of 71 participants have a 90 percent level of confidence with a precision of at least +/- 9.8 percent.) Results include:

- 100 percent generally liked the preferred concept.
- 92 percent of participants felt local street access was adequate.
- 97 percent of participants were willing to pay something to fund improvements for the Gateway.

Contact Information: [www.jocogateway.com](http://www.jocogateway.com) or e-mail [jocogateway@hntb.com](mailto:jocogateway@hntb.com)

**Scott King**  
 KDOT Project Manager  
 785.296.6970  
[sking@ksdot.org](mailto:sking@ksdot.org)

**Kimberly Qualls**  
 KDOT Public Affairs  
 785.296.3881  
[kqualls@ksdot.org](mailto:kqualls@ksdot.org)

**Joe Brand**  
 HNTB Project Manager  
 913.491.9333  
[jbrand@hntb.com](mailto:jbrand@hntb.com)



JohnsonCountyGateway