



Safe & Sound Bridge Improvement Program

FACT SHEET

The program is improving 802 of MoDOT's most worn-out bridges in five years – by Dec. 31, 2013. The 802 bridges are divided into two groups. 248 were identified for rehabilitation (typically means a new deck on existing substructure). 554 are being completely replaced.

An interactive map of Safe & Sound bridge projects is included on the MoDOT website. Color-coded icons indicate each bridge site and where it falls in the construction schedule. Pop-up windows give bridge and construction information, as well as suggested detour routes on state highways.

Interested persons, though, should understand that the project start dates shown are targets, and likely will change as crews finish one bridge and move to the next. Check back often to view the latest projected schedules.

KTU Constructors was selected by the Missouri Highways and Transportation Commission to replace 554 bridges in a single design-build contract on May 21, 2009.

KTU Constructors is a joint venture of:

- Kiewit Western Company – Omaha, Neb.
- Traylor Bros., Inc. – Evansville, Ind.
- United Contractors, Inc. – Great Falls, S.C.
- Their design partners are HNTB Corporation of Kansas City, Mo. and The LPA Group, Inc. of Columbia, S.C.

KTU Constructors is utilizing Missouri-based subcontractors and materials suppliers to deliver the project. Safe & Sound will directly or indirectly support more than 5,300 jobs.

- The 687 bridges that were completed through the end of 2011 were constructed by 63 bridge-building firms and more than 150 second-tier subcontractors and suppliers.

Some key provisions of KTU's contract with MoDOT:

- Quoted price of \$487 million.
- Committed to finish by Dec. 31, 2013 – 10 months earlier than required. They are now on schedule to finish nearly 13 months earlier than that – or by the end of August 2012.
- Average bridge closure for 493 bridges will be 45 days – nearly half of what a normal MoDOT bridge project would take. So far, the average bridge closure has been 42 days.
- MoDOT has moved bridges within KTU's proposed construction schedule to respond to local events and issues. This flexibility minimizes inconvenience to drivers and local residents.
- KTU is managing the project from a central office in Lee's Summit. In 2012 KTU will have regional offices in St. Joseph, Hannibal and Jefferson City. Previously they have had offices in Bethany, Chillicothe, Columbia, Sedalia, Springfield, Bolivar and Benton.

The first Safe & Sound rehabilitation projects began in spring 2009 and the first replacement projects started that fall.

- By the end of 2010, 330 bridges were completed.
- By the end of 2011, 672 bridges were completed including a MoDOT-record 342 in 2011.

KTU completed 156 new bridges through the end of 2010, and 437 through the end of 2011.



Safe & Sound Bridge Improvement Program

FACT SHEET

Under the design-build contract, KTU Constructors is recycling 9,000 tons of steel and 148,000 tons of concrete.

Fastest bridges built so far by KTU Constructors:

Box Culvert	7 days
Single Span	8 days
Double Span	31 days
Triple Span	28 days
Four Span	33 days

Since the first bridge was completed, MoDOT has reopened a new bridge every 1.5 days.

The 248 bridge rehabilitation projects are being contracted using a modified design-bid-build approach, where projects are grouped by type, size or location to accelerate construction schedules.

Construction by Year	MDBB	D-B	Overall
2009	117	4	121
2010	57	152	209
2011	61	281	342
Under Construction	2	0	2
Remaining	13	117	130

Average Closure Durations	MDBB	D-B	Overall
	56 days	42 days	46 days

Progress by MoDOT District through 2011:

- Northwest District – completed 155 of 190, 82%
- Northeast District – completed 77 of 100, 77%
- Kansas City District – completed 146 of 159, 92%
- Central District – completed 61 of 90, 68%
- St. Louis District – completed 17 of 22, 77%
- Southwest District – completed 108 of 125, 86%
- Southeast District – completed 108 of 117, 92%
- **OVERALL – completed 672 of 802, 84%**

A 'progress meter' appears on the Safe & Sound website– www.modot.org/safeandsound – that daily monitors how many bridges are under construction, how many have been completed, and how many are left to reach the 802-bridge target. A list of the bridges on the program, and maps of their locations, can be found on the project website at www.modot.org/safeandsound. There is at least one bridge in every Missouri county.

Safe & Sound Milestones

- #1 – Route AA over Hominy Creek in Polk County
- #100 – Route E over Platte River in Platte County
- #200 – Route JJ over Richland Creek in Morgan County
- #300 – Route Z over Drainage Ditch #2 in Scott County



Safe & Sound Bridge Improvement Program

FACT SHEET

- #400 – Route 19 over E. Lick Creek in Ralls County
- #500 – US 61 over Apple Creek in Perry County
- #600 – Route H over Dry Branch in DeKalb County

Safe & Sound work has already been completed in 59 counties: Adair (9 bridges), Audrain (8), Barry (1), Benton (2), Bollinger (2), Boone (12), Butler (3), Camden (7), Cape Girardeau (10), Carroll (13), Carter (1), Cedar (7), Christian (1), Cooper (8), Dallas (3), Dunklin (3), Franklin (5), Greene (5), Grundy (2), Howard (2), Howell (2), Iron (2), Jackson (13), Jasper (10), Lafayette (22), Lawrence (5), Linn (2), Livingston (2), Macon (6), McDonald (2), Mercer (1), Mississippi (7), Moniteau (2), Morgan (6), Putnam (5), Oregon (2), Ozark (2), Pemiscot (2), Perry (3), Pettis (22), Platte (15), Ralls (7), Randolph (1), Ray (22), Ripley (3), St. Charles (1), St. Francois (5), Schuyler (5), Scotland (4), Scott (13), Shannon (2), Stone (1), Sullivan (8), Taney (3), Texas (4), Washington (5), Wayne (1), Webster (1), Wright (2).

Counties with the most Safe & Sound bridges: Harrison/Henry (25), Stoddard (24), Lafayette/Pettis/Ray (22), Nodaway (21), Cass/Johnson (19), Saline (17).

The total cost of the Safe & Sound program is \$685 million. MoDOT has sold GARVEE bonds ('Grant Anticipation Revenue Vehicles') to pay for the project, with 24 annual payments of approximately \$50 million. MoDOT will use roughly one-third of the Federal bridge replacement funds it receives each year to make those payments. The Safe & Sound program requires no additional funding.

There are 10,405 bridges on the Missouri state highway system – 7th largest total nationwide.

Approximately 1,100 of them are in poor/serious condition. The Safe & Sound Initiative will address most of these bridges.

When the Safe & Sound program was first rolled out in 2006, it was envisioned as a Design-Build-Finance-Maintain project. Ultimately, though, the nation's financial market meltdown in 2008 made the program unaffordable. In September 2008, the MHTC directed MoDOT to move forward with the program in its current form. That decision saved more than \$500 million over the cost of the previous contract model.