

Lawrence City Commission
June 17, 2008
Lawrence, KS



Project Location - Lawrence, KS



HNTB

Existing Bridge





HNTB

K-10 Project Timeline

- Begin work on project 8/6/07
- Survey completed 11/07
- Team Meeting #1 11/15/07 Project overview and goals, determine reasonable project alternatives for consideration
- Landowner Workshop 2/26/08 Introduce project to adjacent landowners, discuss impacts
- Team Meeting #2 4/3/08 Discuss pro/cons of five alternatives, select three conceptual designs to evaluate in more detail, incl. phased construction.

K-10 Bridge Replacement



K-10 Project Timeline

 Phone Interviews- LPD, Dg. Co. Sheriff, Jo. Co. Transit

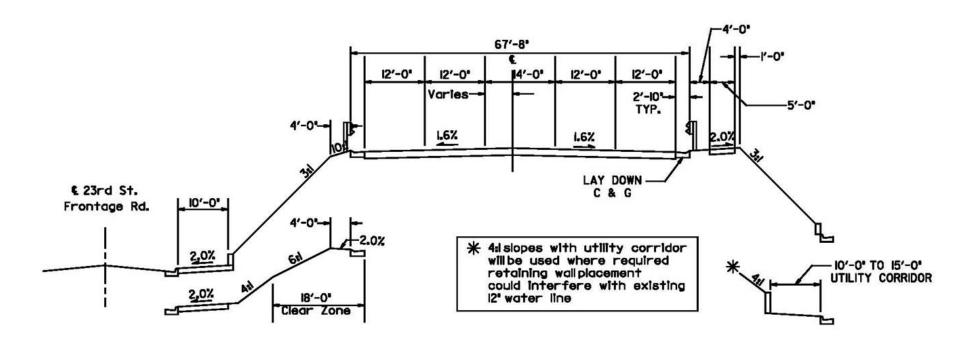
 Team Meeting #3 - 5/22/08 - Evaluate three concepts, recommend one to carry forward to F.C.

 Commission Meeting - 6/17/08- Introduce project to Lawrence City Commission

K-10 Bridge Replacement

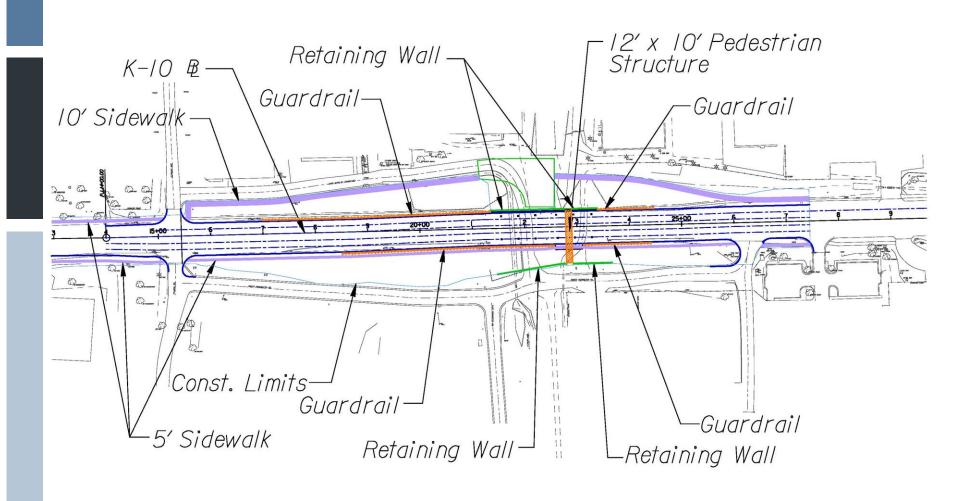


Roadway Typical Section



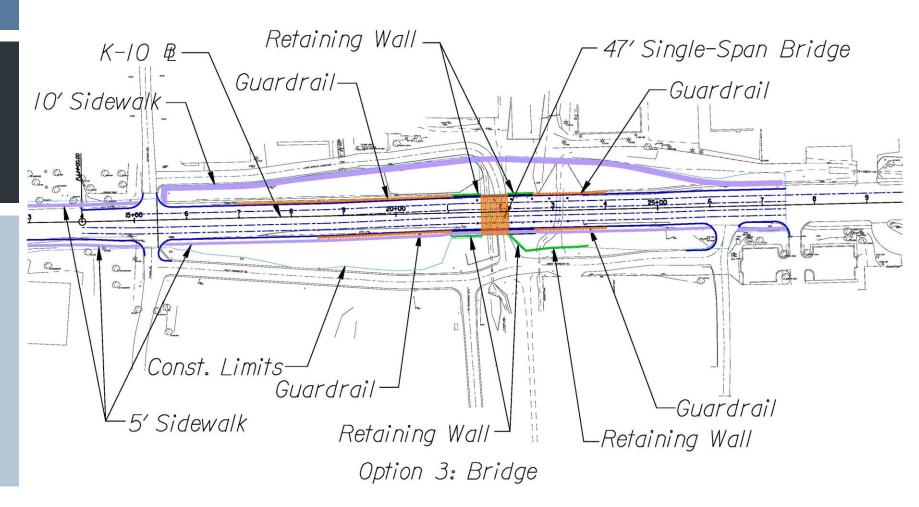


Option 1B - Pedestrian Structure - Plan View



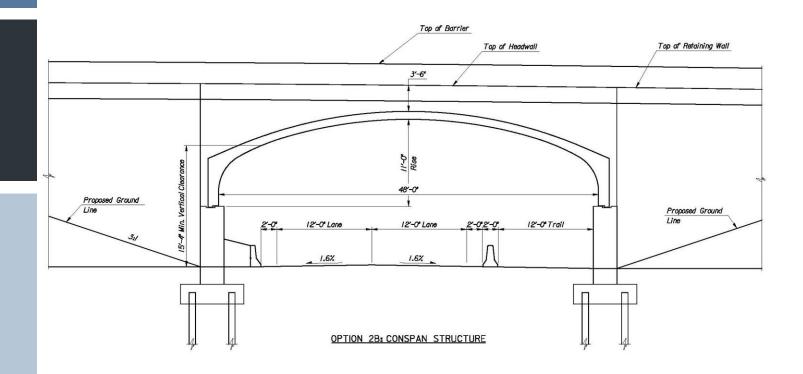


Options 2 & 3 - Plan View



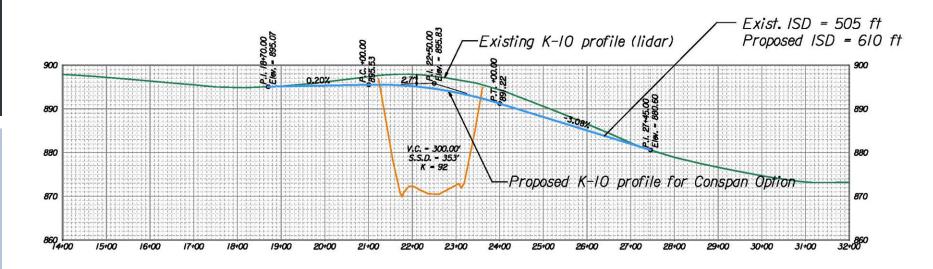


Option 2B - Conspan Structure - Elevation





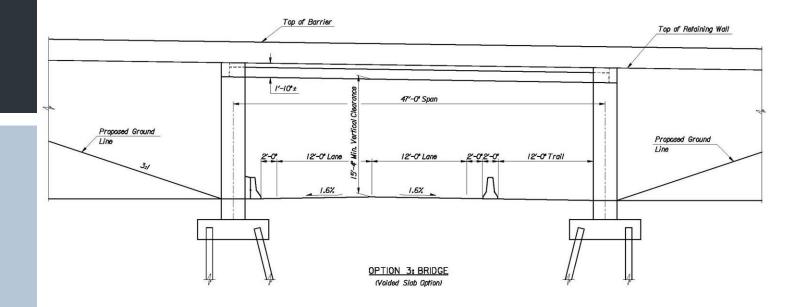
Option 2B - Profile



Option 2B: Conspan Structure

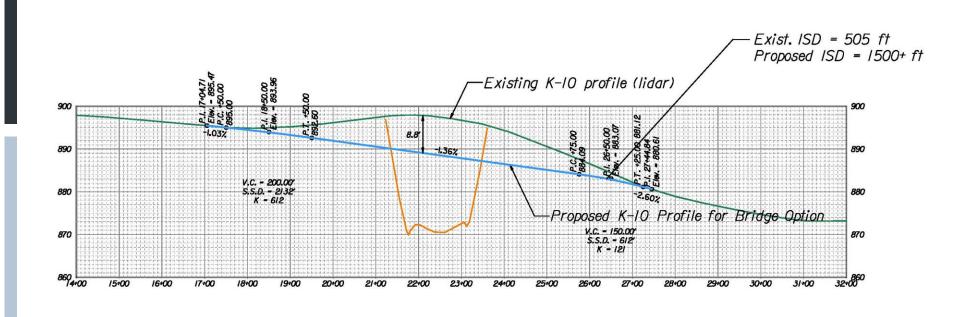


Option 3 – Elevation View





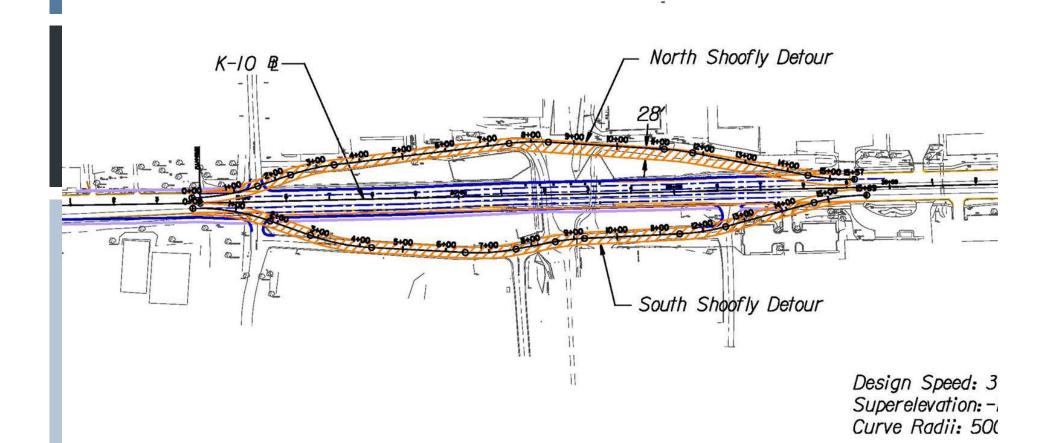
Option 3 – Profile



Option 3: Bridge



Shoofly Detours – North & South





Cost Comparison

Preliminary Construction Cost Comparison (Differences Only) K-10 (23rd St.) Bridge Replacement Project - Concept Design Phase KDOT Proj. No. 10-23 KA-0685-01 May-08

	Option 1B - I		Option 1B - II		Option 2B - I		Option 2B - II		Option 3 - I		Option 3 - II	
	Pedestrian Structure with Phasing		Pedestrian Structure with Two Shooflys		AND OWNERS TO THE RESIDENCE OF THE PERSON OF		Conspan Structure with Two Shooflys		Phasing		Bridge with Two shooflys	
Grading	\$	76,200	\$	84,200	\$	189,500	\$	197,500	\$	90,900	\$	98,900
Structure	\$	128,000	\$	123,000	\$	720,000	\$	660,000	\$	848,000	\$	786,000
MSE/Sidewalk Retaining Wall	\$	322,000	\$	322,000	\$	535,000	\$	535,000	\$	319,000	\$	319,000
23rd St. Frontage Rd Under Structure	\$.=.	\$	■.	\$	34,300	\$	34,300	\$	34,300	\$	34,300
Temporary Shoring/TMSE wall	\$	186,000	\$	=	\$	113,000	\$		\$	183,000	\$	i.f.
Temporary K-10 Pavement	\$	18,700	\$	-	\$	18,700	\$	-	\$	18,700	\$:=
South Shoofly pavement	\$	-	\$	140,600	\$:-	\$	140,600	\$	-	\$	140,600
Total	\$	731,000	\$	670,000	\$	1,611,000	\$	1,567,000	\$	1,494,000	\$	1,379,000



Summary

Team selected Option 3-II: Open Span Bridge option

Will be constructed on one phase- minimizes construction duration

- Accommodates pedestrian and vehicular traffic movements
- Minimizes retaining walls
- Largest sight distance improvement

K-10 Bridge Replacement

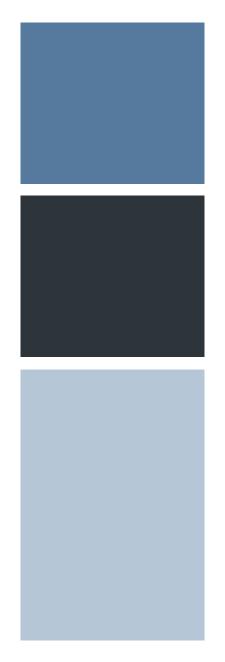


Moving Forward

- Public Meeting June 25, 2008
- Continued utility coordination and public involvement
- Project to Field Check in February

K-10 Bridge Replacement





Questions?

