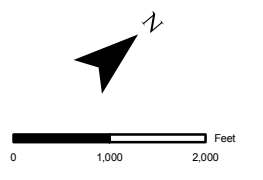
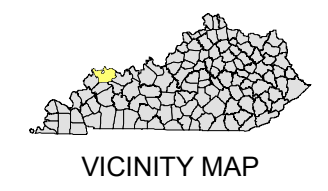
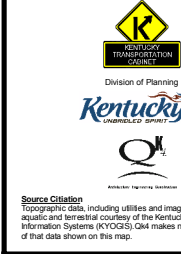


APPENDIX A

EXHIBITS





- | | | |
|----------------------|----------------------------|---------------------------------------|
| ✈ Airport | 🗑 Landfill | 🏠 Water Treatment Plant |
| ⛔ Cemetery | ⚠ HAZMAT Location | ⚙ Water Pump Station |
| 🏡 Park | ⛽ Gas/Oil Well | 🛫 Water Tank |
| 🎓 School | 🚰 Sewer Outfall | --- Existing Waterline |
| 🏥 Hospital | ⬆ Lift Station | 🌿 Wetlands |
| 🚂 Abandoned Railroad | 🏭 Sanitary Treatment Plant | 🌊 100 Year Flood Potential |
| | 🟢 Force Main Sewer | 🏠 National Register Potential |
| | 🟡 Gravity Sewer | 🏠 National Register Property/District |

Source Citation
 Topographic data, including utilities and imagery and less historic, specific and territorial courtesy of the Kentucky Office of Geographic Information Systems (KYOGIS). OAK makes no claim to the accuracy of that data shown on this map.

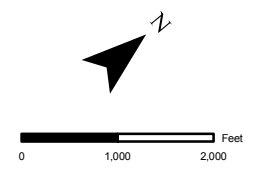
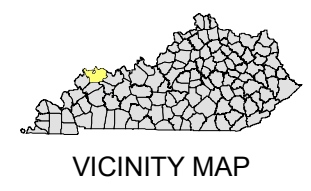
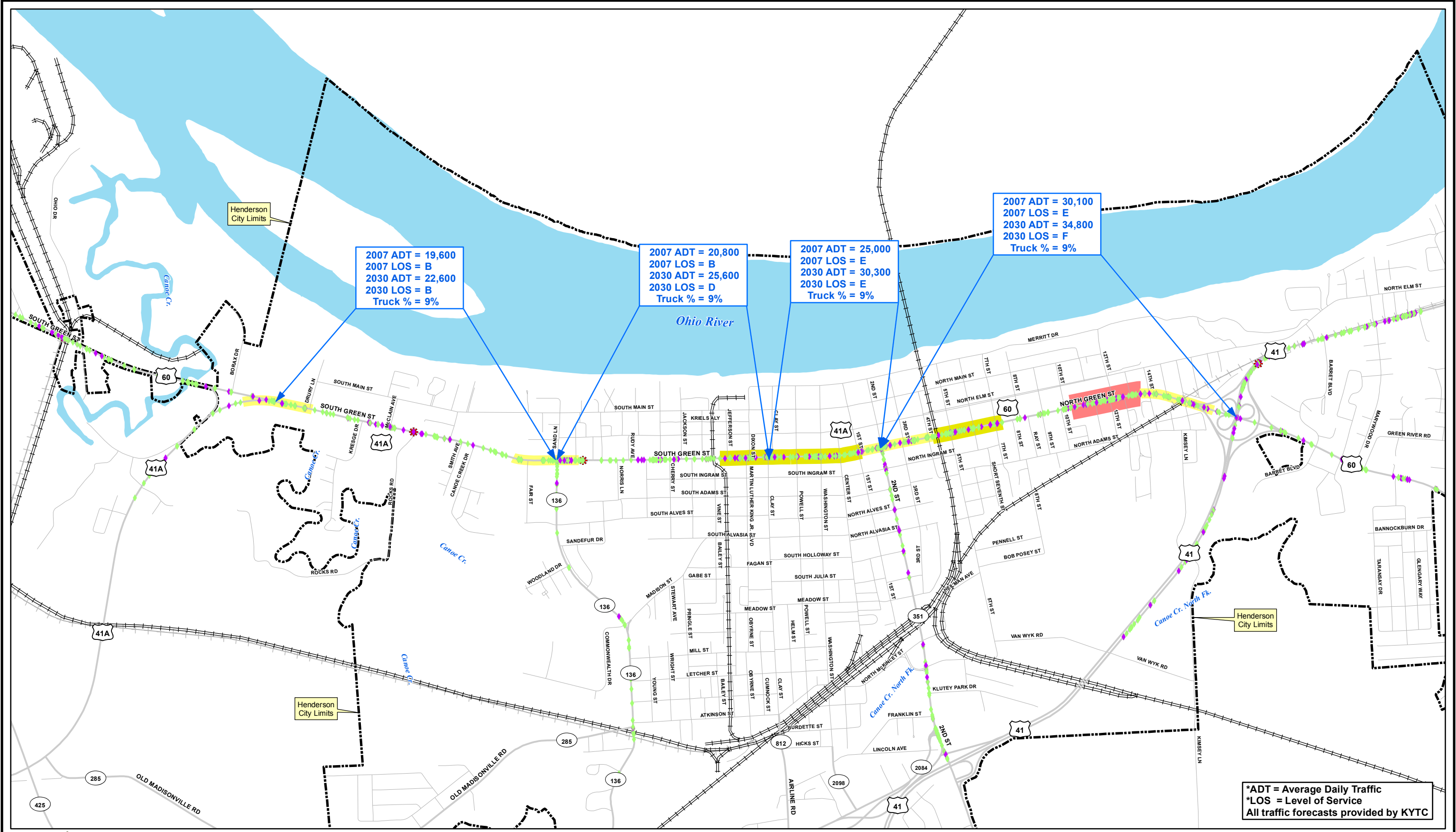


Exhibit 2
Environmental Constraints
 US 41A - Green Street
 Henderson County, Kentucky
 KYTC Item No. 02-140.00



*ADT = Average Daily Traffic
 *LOS = Level of Service
 All traffic forecasts provided by KYTC

Crash Types	Critical Rate Factor
Fatal	1 - 1.70
Injury	1.70 - 2.4
PDO	2.4 - 3.1
	3.1 - 3.8

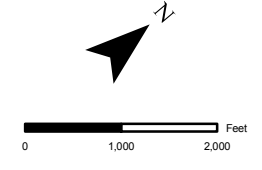
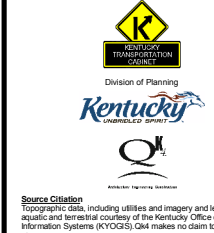


Exhibit 3
Existing and Projected No-Build Traffic, Functional Class and, Crashes
 US 41A - Green Street
 Henderson County, Kentucky
 KYTC Item No. 02-140-00



Source Citation
 Topographic data, including utilities and imagery and less historic, specific and terrestrial courtesy of the Kentucky Office of Geographic Information Systems (KYOGIS). KYOGIS makes no claim to the accuracy of that data shown on this map.

US 41A Widening Alternative Impacts and Cost Itemization

US 41A: from South to North		Construction											Total Construction Cost
		Pavement							C&G \$17/LF	Sidewalk \$30/SY	RR Overpass	Misc. (@70%)	
		Width		Area		Cost							
Length (ft.)	New (ft.)	Overlay (ft.)	New (SY)	Overlay (SY)	New (\$60/SY)	Overlay (\$8/SY)	Total						
Section 1 (US 60 to Sand Lane)													
Alt. L	6,780	26	38	19,587	28,627	\$1,175,220	\$229,016	\$1,404,236	\$230,520	\$226,000	\$0	\$1,302,529	\$3,163,000
Alt. M	6,780	26	38	19,587	28,627	\$1,175,220	\$229,016	\$1,404,236	\$230,520	\$226,000	\$0	\$1,302,529	\$3,163,000
Alt. R	6,780	26	38	19,587	28,627	\$1,175,220	\$229,016	\$1,404,236	\$230,520	\$226,000	\$0	\$1,302,529	\$3,163,000
Section 2 (Sand Lane to Wash St.)													
Alt. L	5,330	26	38	15,398	22,504	\$923,880	\$180,032	\$1,103,912	\$181,220	\$177,667	\$0	\$1,023,959	\$2,486,000
Alt. M	5,330	26	38	15,398	22,504	\$923,880	\$180,032	\$1,103,912	\$181,220	\$177,667	\$0	\$1,023,959	\$2,486,000
Alt. R	5,330	26	38	15,398	22,504	\$923,880	\$180,032	\$1,103,912	\$181,220	\$177,667	\$0	\$1,023,959	\$2,486,000
Section 4 (3rd St. to 5th St.)													
Alt. L	2,050	26	38	5,922	8,656	\$355,320	\$69,248	\$424,568	\$69,700	\$68,333	\$7,302,000	\$393,821	\$8,258,000
Alt. M	2,050	26	38	5,922	8,656	\$355,320	\$69,248	\$424,568	\$69,700	\$68,333	\$7,302,000	\$393,821	\$8,258,000
Alt. R	2,050	26	38	5,922	8,656	\$355,320	\$69,248	\$424,568	\$69,700	\$68,333	\$7,302,000	\$393,821	\$8,258,000
Section 5 (5th St. to 14th St./US 60)													
Alt. L	3,900	26	38	11,267	16,467	\$676,020	\$131,736	\$807,756	\$132,600	\$130,000	\$0	\$749,249	\$1,819,000
Alt. M	3,900	26	38	11,267	16,467	\$676,020	\$131,736	\$807,756	\$132,600	\$130,000	\$0	\$749,249	\$1,819,000
Alt. R	3,900	26	38	11,267	16,467	\$676,020	\$131,736	\$807,756	\$132,600	\$130,000	\$0	\$749,249	\$1,819,000

Total Cost Range	
Least Costly	\$27.7M
Most Costly	\$31.5M

US 41A: from South to North		Right-of-Way								Utilities					Engineering	Total Project Cost	
		Parcels		Area (\$50k/Ac.)				Relocations (\$300,000)		Total R/W Cost	Sewer	Water	Gas	Overhead	Total Utility Cost		Total Engineering Cost
				Lt.	Rt.	Lt. (sq.ft.)	Rt. (sq.ft.)	R.R. (sq.ft.)	Total (Ac.)								
Length (ft.)	Lt.	Rt.	Lt. (sq.ft.)	Rt. (sq.ft.)	R.R. (sq.ft.)	Total (Ac.)	Residential	Commercial									
Section 1 (US 60 to Sand Lane)																	
Alt. L	6,780	43	24	120,297	19,598	0	3.2	0	0	\$161,000	\$1,000,000	\$600,000	\$830,000	\$200,000	\$2,630,000	\$696,000	\$6,650,000
Alt. M	6,780	44	28	61,474	81,331	0	3.3	0	0	\$164,000	\$1,000,000	\$600,000	\$830,000	\$200,000	\$2,630,000	\$696,000	\$6,653,000
Alt. R	6,780	9	28	18,047	123,355	0	3.2	0	0	\$162,000	\$1,000,000	\$600,000	\$830,000	\$200,000	\$2,630,000	\$696,000	\$6,651,000
Section 2 (Sand Lane to Wash St.)																	
Alt. L	5,330	39	12	113,656	5,196	0	2.7	0	1	\$436,000	\$400,000	\$1,022,000	\$770,000	\$150,000	\$2,342,000	\$547,000	\$5,811,000
Alt. M	5,330	40	62	62,414	47,330	0	2.5	0	0	\$126,000	\$405,000	\$1,022,000	\$860,000	\$153,750	\$2,441,000	\$547,000	\$5,600,000
Alt. R	5,330	33	62	9,770	100,330	0	2.5	1	0	\$426,000	\$389,000	\$1,020,000	\$738,000	\$113,750	\$2,261,000	\$547,000	\$5,720,000
Section 4 (3rd St. to 5th St.)																	
Alt. L	2,050	22	0	15,685	0	145,000	3.7	0	2	\$784,000	\$314,000	\$433,000	\$287,000	\$50,000	\$1,084,000	\$1,817,000	\$11,943,000
Alt. M	2,050	11	3	4,442	113	145,000	3.4	0	0	\$172,000	\$311,000	\$435,000	\$348,000	\$28,750	\$1,123,000	\$1,817,000	\$11,370,000
Alt. R	2,050	2	27	276	10,744	145,000	3.6	0	4	\$1,379,000	\$303,000	\$438,000	\$233,000	\$28,750	\$1,003,000	\$1,817,000	\$12,457,000
Section 5 (5th St. to 14th St./US 60)																	
Alt. L	3,900	32	4	65,644	475	0	1.5	0	0	\$76,000	\$462,000	\$622,000	\$625,000	\$150,000	\$1,859,000	\$400,000	\$4,154,000
Alt. M	3,900	35	19	35,667	17,296	0	1.2	0	2	\$661,000	\$472,000	\$696,000	\$619,000	\$150,000	\$1,937,000	\$400,000	\$4,817,000
Alt. R	3,900	17	32	9,392	47,414	0	1.3	3	5	\$2,465,000	\$467,000	\$688,000	\$619,000	\$150,000	\$1,924,000	\$400,000	\$6,608,000



Exhibit 4
US 41A Widening Alternative Impacts and Cost Itemization

US 41A - Green Street
Henderson County, Kentucky
KYTC Item No. 02-140.00