



**NOTES:**

ALL SANITARY LATERAL AND SANITARY MAINS CROSSING UNDER PAVEMENT, IF TRENCHED, SHALL BE BACKFILLED WITH GRANULAR MATERIAL (AGGREGATE) AND COMPACTED.

IF THE STORM AND SANITARY SEWERS ARE PARALLEL AND IN THE SAME TRENCH OR OVERDIG, THE UPPER SHALL BE PLACED ON A SHELF AND THE LOWER SHALL BE BEDDED IN COMPACTED GRANULAR FILL TO THE FLOW LINE OF THE UPPER.

WHEN STORM SEWERS PIPES WHICH CROSS OVER EXISTING OR PROPOSED SANITARY SEWER OR WATER MAIN TRENCH, PROVIDE COMPACTED GRANULAR BACKFILL FROM THE TOP OF THE SANITARY SEWER OR WATER MAIN TO THE BOTTOM OF THE STORM SEWER AND CONSTRUCT CONCRETE CRADLE TO THE RCP STORM SEWER PIPE AND CONCRETE ENCASE HDPE STORM SEWER PIPE WHEN IT IS MORE THAN 18 INCHES ABOVE THE SANITARY SEWER ACROSS THE FULL WIDTH OF THE TRENCH. WHEN THE STORM SEWER IS LESS THAN 18" SEPARATION, BOTH PIPES ARE TO BE ENCASED IN CONCRETE. PROVIDE TWENTY (20) FEET OF DUCTILE IRON PIPE WHERE THE SANITARY SEWER CROSSES OVER THE STORM SEWER TRENCH.

ALL STORM SEWERS MUST MAINTAIN A MINIMUM OF 36" COVER OVER THE TOP OF PIPE.

ONE FULL SECTION OF WATER PIPE SHALL BE CENTERED OVER THE TRENCH AT ALL WATER MAIN CROSSINGS.

Upp Str	Low Str	PL	S	Upp FLN	Low FLN	PS	Upp ST.EL	Depth HY GR	Upp HY EL	Low HY EL	Hyd Grade	FR Head	VEL	VEL Head	Junc Loss	Turn Loss	Curve Loss	STR Grade	Int Cap	DR Area	P.I.	Q	TQ	Pipe Cap	Remarks	
1	CI1.3	CI1.2	35	12	508.09	506.34	5.00	513.47	5.12	508.35*	507.34	0.00130	0.05	1.62	0.04	0.04	0.00	0.00	0	4.00	0.47	2.64	1.27	1.27	7.97	100 YR HW - 504.93
2	CI1.2	FE1.1	67	12	506.14	499.33	10.18	513.47	6.99	506.48*	504.93	0.00680	0.45	3.73	0.22	0.00	0.00	0.00	0	4.00	0.60	2.64	1.86	2.93	11.37	100 YR HW - 504.93
3	AI3.2	CI3.1	69	12	511.04	510.35	0.99	514.95	3.01	511.94	511.74	0.00200	0.14	2.01	0.06	0.06	0.00	0.00	0	16.00	0.60	2.64	1.58	1.58	3.54	
4	CI3.1	CI2.5	35	15	510.15	509.80	1.00	516.46	4.72	511.74	511.62	0.00270	0.09	2.73	0.12	0.00	0.03	0.00	0	4.00	0.67	2.64	1.77	3.35	6.46	
5	AI2.6	CI2.5	72	12	510.52	509.80	1.00	516.42	4.51	511.91	511.82	0.00280	0.20	2.42	0.09	0.09	0.00	0.00	0	16.00	0.72	2.64	1.90	1.90	3.56	
6	CI2.5	MH2.4	131	24	509.80	509.29	1.00	516.46	4.94	511.62	511.40	0.00120	0.16	2.46	0.09	0.06	0.00	0.00	0	4.00	0.94	2.64	2.48	7.73	22.62	
7	MH2.4	AI2.3	100	24	508.09	507.09	1.00	518.50	7.10	511.40	511.26	0.00120	0.12	2.46	0.09	0.00	0.02	0.00	0	0.00	0.00	2.64	0.00	7.73	22.62	
8	AI2.3	FE2.1	89	24	506.89	506.00	1.00	515.74	4.48	511.26	511.04	0.00180	0.16	3.08	0.15	0.00	0.06	0.00	0	16.00	0.48	2.64	1.27	9.69	22.62	100 YR HW 511.04
9	AI4.8	MH4.7	53	12	513.78	513.26	0.99	518.44	4.03	514.41	514.26	0.00180	0.09	1.91	0.06	0.06	0.00	0.00	0	16.00	0.57	2.64	1.50	1.50	3.54	
10	MH4.7	MH4.6	156	12	513.06	511.50	1.00	522.39	8.86	513.52*	512.50	0.00180	0.28	1.91	0.06	0.00	0.01	0.00	0	0.00	0.00	2.64	0.00	1.50	3.56	
11	MH4.6	AI4.5	31	12	511.30	509.80	4.50	523.80	12.30	511.60*	510.80	0.00180	0.06	1.91	0.06	0.00	0.03	0.00	0	0.00	0.00	2.64	0.00	1.50	7.56	
12	AI4.5	MH4.4	115	15	509.70	508.55	1.00	514.41	4.02	510.39*	509.80	0.00370	0.42	3.20	0.16	0.00	0.03	0.00	0	16.00	0.92	2.64	2.43	3.93	6.46	
13	MH4.4	CI4.3	54	15	508.35	507.67	1.26	515.32	6.13	509.19	508.92	0.00370	0.20	3.20	0.16	0.00	0.07	0.00	0	0.00	0.00	2.64	0.00	3.93	7.25	
14	CI4.3	FE4.1	51	15	506.74	504.21	5.00	515.26	7.95	507.31*	505.50	0.00680	0.44	4.95	0.38	0.00	0.07	0.00	0	4.00	0.81	2.64	2.14	6.07	14.44	100 YR HW - 505.50
15	AI5.5	AI 5.4	157	12	512.26	509.11	2.00	517.34	4.64	512.70*	510.11	0.00320	0.50	2.55	0.10	0.10	0.00	0.00	0	16.00	0.76	2.64	2.00	2.00	5.04	
16	AI5.4	MH5.3	103	12	508.91	507.13	1.73	514.10	4.51	509.59*	508.13	0.01180	1.22	4.93	0.38	0.00	0.00	0.00	0	16.00	0.71	2.64	1.87	3.87	4.69	
17	MH5.3	CI5.2	80	15	508.93	506.13	1.00	512.58	4.94	507.74	507.38	0.00360	0.29	3.15	0.15	0.00	0.07	0.00	0	0.00	0.00	2.64	0.00	3.87	6.46	
18	CI5.2	FE5.1	269	15	505.93	503.24	1.00	514.78	7.59	507.19	504.93	0.00830	2.23	4.81	0.36	0.00	0.03	0.00	0	4.00	0.77	2.64	2.03	5.90	6.46	100 YR HW - 504.93

SCALES:  
HORIZONTAL: 1"= 50'  
VERTICAL: 1"= 10'

**PROJECT TITLE**  
IMPROVEMENT PLANS  
WABASH WOODS  
PHASE TWO  
STORM PROFILES

PPS No. 15014.KAPD.00R  
TASK 002

**PICKETT, RAY & SILVER INC**  
CIVIL ENGINEERING, LAND SURVEYING,  
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**ENGINEER'S AUTHENTICATION**  
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**KARL ANTHONY SCHOENIKE**  
PROFESSIONAL ENGINEER  
NUMBER PE-2003015039

03/02/16  
ELECTRONIC SEAL  
KARL A. SCHOENIKE, P.E.  
PROFESSIONAL ENGINEER LICENSE 2003015039

**Developer / Owner Information**

**LK PROPERTIES II, LLLP**  
PO Box 340  
St. Peters, Missouri 63376

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20100.04  
City No. 15-639-SP

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\*\*\* O'FALLON FOR APPROVAL \*\*\* 03/02/16 \*\*\*