

City of Ladue

PROJECT IDENTIFICATION INFORMATION SHEET

Storm Water Management Program
 Phase II: Master Plan
 Ladue, Saint Louis County, Missouri

PROJECT NAME: Deerfield/Wakefield
LOCATION: Deerfield/Wakefield Subdivision
PROJECT No: 1601.01

STATUS:

Easements Required:	42
Properties Benefited:	56
Properties Impacted:	42
Project Benefit Points:	6705
Property Benefit Multiplier: X	1.33
Priority WGT Multiplier: X	1.15
Adj Prjct Benefit Points:	10281.00
EOPC, thousand:	\$10,154.02
Cost Sharing, MSD:	
Cost Sharing, Other:	
Adj EOPC, thousand:	\$10,154.02
Benefit to Cost Ratio:	1.01

Problem Categories:

- WGT Description
- 1.15 Habitable structural flooding & erosion from overland flow (non-floodplain)
- 1.15 Public roadway flooding & erosion
- 1.10 Private roadway flooding & erosion
- 1.05 Flooding from inadequate sinkhole
- 1.05 Maintenance of stormwater system facilities
- 1.05 Non-habitable structural flooding & erosion
- 1.00 Yard erosion & erosion of common ground or unmaintained area
- 1.00 Yard flooding
- 0.85 Structural flooding from creeks or rivers (floodplain)

Benefited Property Definition:

- 1 A benefited property is one at which flooding and/or erosion is reduced;
- 2 A property that does not receive an actual reduction in flooding or erosion from the construction of storm water improvements is NOT a benefited property; and
- 3 A property that only receives a financial gain from the construction of storm water improvements is NOT a benefited property.

Impacted Property Definition:

- 1 An impacted property is one at which physical disturbance occurs to construct storm water improvements.

MSD/MO American Water Base Map Number(s): 20L; 21L

Laclede Gas Map Number(s): 145-58; 145-68; 155-51; 155-61

FEMA FIRM Map Number(s): 29189C0213K; 29189C0326K

USGS Quadrangle Map(s): Clayton, MO; Webster Groves, MO

Attachments

- Scope of Work
- Benefit Points Calculation
- Engineer's Opinion of Probable Construction Cost
- Property Contact Information
- Improvement Concept Plan

Project Source:

- Citizen Complaint
- Ladue
- MSD
- Other:

Coordination Required:

- MSD
- Corps of Engineers
- MO DNR
- MODOT
- County Highways
- City Streets
- City Parks
- County Parks
- Municipality: City of Ladue
- Railroad:
- Subivision Trustees
- Other: Local Utilities

Notes: A sinkhole report is required in areas identified as a sinkhole area (MSD Rules & Regs, 4.020.08).

MSD has an identified project in the area: "Wakefield Subdivision Storm Outfall Sewer 11221".

The project outfall is located in the FEMA floodway. A No-Rise Certificate will be required.

PROJECT NAME: Deerfield/Wakefield

PROJECT No: 1601.01

SCOPE OF WORK

Problem Description:

Many streets in the Deer Creek Subdivision do not have a storm sewer collection system. Runoff flows along the sides of the streets, dumping on the nearest property downstream. There are several sinkholes in the area that drain storm water runoff. During heavy storm events the sinkholes reach capacity and overflow into the next downstream sinkhole. The sinkholes store water and eventually drain over time. The subdivision development, as well as recent infill construction, contribute to the amount of runoff to the sinkholes. In addition, some homes have been built in locations of sinkhole overflow paths.

Not all sinkholes are well maintained with some sinkholes being used for yard waste disposal. In at least one case, a resident claims a sinkhole has been filled in. #41 Deerfield Road is the receptor of much of the subdivision's runoff, particularly from Ellsworth Lane and Woodcrest Drive. #41 Deerfield Road has been completely surrounded with yard flooding due to this high concentration of runoff.

The worst flooding in the Deerfield/Wakefield Subdivision ever recorded was from the extreme event that occurred in late December 2015.

Proposed Solution:

Construct approximately 8,899 linear feet of storm sewer consisting of 12-in to 72-in diameter pipe with appurtenances meeting a level of service of 1:15. At each sinkhole, an overflow structure will be constructed to drain excess stormwater, and alleviate flooding of surrounding homes and roads. The pipe network discharges in a single outlet to Deer Creek located south of the subdivision.

Approximately 40 sinkholes in the vicinity store a significant amount of storm water runoff volume. If the natural storage of the sinkholes is eliminated, that runoff is transferred directly, and at a faster rate, to Deer Creek. In order to prevent a significant increase in the Deer Creek discharge that exits the City limits, the natural sinkhole storage must be maintained.

The solution presented here extends the piping system further upstream into the subdivision allowing collection earlier in the system, which would help alleviate road flooding. The pipe sizes are generally smaller than in MSD's solution since this solution utilizes the storage capacity of the sinkholes, rather than draining them from the bottom.

Commentary:

MSD has an identified project in the area, Project #11221 "Wakefield-Deerfield to Litzsinger Sinkhole Relief Sewer Subdivision Storm Outfall Sewer", at an estimated cost of \$10,100,000. The MSD solution drains the sinkholes from the bottom, whereas the solution presented here allows the sinkholes to fill to near the top prior to discharging. The excess runoff volume overflows into the piped system and is discharged to Deer Creek.

MSD requires preparation of a sinkhole report for locations identified as a sinkhole area (MSD Rules & Reg's, 4.020.08). This project would require a sinkhole report.

The project outfall is located in the FEMA floodway. A No-Rise Certificate will be required.

PROJECT NAME: Deerfield/Wakefield
 PROJECT No: 1601.01

BENEFIT POINTS CALCULATION

PROBLEM SOLVED CATEGORY		Chronic (<=2-Yr) Flooding		Frequent (>2<=15-Yr) Flooding		Infrequent (>15-Yr) Flooding		Total Points	
		Points per Category	No. Lots Affected	Points per Category	No. Lots Affected	Points per Category	No. Lots Affected		
Note: Problem points are awarded only for those problems solved by the proposed solution.									
1.0 STREAM	1.1. FLOODING	1.1.1. Structure Flooding							
		Habitable 1st floor, residential; Includes spaces with mechanical equipment (1 lot per structure) Address:	300		150		25		
		Basement (1 lot per structure) Address:	200		100		15		
		Attached Garage (1 lot per structure) Address:	100		50		8		
		Misc. structures including patio/decks, pools, sheds, tennis courts, detached garages, etc.(1 lot per structure) Address:	50		25		4		
		Industrial, office, commercial and warehouse (1 lot per 2,500 sf of floor space flooded) Address:	300		150		25		
		Yard Flooding (1 per lot) Address:	10		5		0		
		1.1.2. Roadway Flooding (allocate 1 lot per 250' of roadway impacted & 2 lots per intersection impacted)							
		Emergency Access restricted (>12" water over only access route to habitable structure), pts per structure Address:	200		100		15		
		Traffic obstruction (> 6" of water) on arterial street Address:	50		25		4		
	Traffic obstruction (> 6" of water) on collector street Address:	25		12		2			
	Traffic obstruction (> 6" of water) on residential street Address:	10		5		1			
	1.2. EROSION	1.2.1. Threatening Structure (Ratio=Height of bank / distance from structure)		Pts. for Ratio ^ 0.70	No. Lots	Pts. for Ratio 0.36 - 0.70	No. Lots	Pts. for Ratio 0.15-0.35	No. Lots
		Habitable structures, residential (1 lot per structure) Address:		300		200		50	
		Misc structures including pools, patio/decks, sheds, tennis courts, detached garages, etc.(1 lot per structure) Address:		150		100		25	
		Industrial, office, commercial and warehouse (1 lot per structure) Address:		300		200		50	
		1.2.2. No. of lots (from 1.2.1) on outside of bend			lots	10 points per lot			
		1.2.3. Threatening Roadway (Ratio=Height of bank / distance from road)		Pts. for Ratio ^ 0.70	No. Lots	Pts. for Ratio 0.36 - 0.70	No. Lots	Pts. for Ratio 0.15-0.35	No. Lots
Arterial Road: Address:		75		50		12			
Collector Road: Address:		35		25		6			
Residential Road: Address:		20		12		3			

CONTINUED:

2.0 STORM SEWER / OVERLAND FLOW	2.1. FLOODING	PROBLEM SOLVED CATEGORY, CONT.		Chronic (<=2-Yr) Flooding		Frequent (>2<=15-Yr) Flooding		Infrequent (>15-Yr) Flooding		Total Points
		Points per Category	No. Lots Affected	Points per Category	No. Lots Affected	Points per Category	No. Lots Affected			
Note: Problem points are awarded only for those problems solved by the										
2.1.1. Structure Flooding										
Habitable 1st floor, residential; Includes spaces with mechanical equipment (1 lot per structure)* Address: <i>See attachment</i>										
Basement (1 lot per structure)* Address: <i>See attachment</i>										
Industrial, office, commercial and warehouse (1 lot per 2,500 sf of floor space flooded)* Address:										
If there is an existing public system and points are taken for any of the 3 items above, add 50 points.										
Attached Garage (1 lot per structure) Address: <i>See attachment</i>										
Misc. structures including patio/decks, pools, sheds, tennis courts, detached garages, etc. (1 lot per structure) Address: <i>See attachment</i>										
Yard Flooding (1 per lot) Address: <i>See attachment</i>										
2.1.2. Roadway Flooding (allocate 1 lot per 250' of roadway impacted & 2 lots per intersection impacted)										
Emergency Access restricted (>12" water over only access route to habitable structure), pts per structure Address: <i>See attachment</i>										
Traffic obstruction (> 6" of water) on arterial street Address:										
Traffic obstruction (> 6" of water) on collector street Address:										
Traffic obstruction (> 6" of water) on residential street Address: <i>See attachment</i>										
Ponding (per ponding area) Address:										
2.2. Moderate Risk Erosion of misc. structures Address: #41 Deerfield Rd										
2.3. Yard Erosion (1 per lot) Address: <i>See attachment</i>										
2.4. Age of Existing System										
Points for Age										
Note: Problem points are awarded only for those problems solved by the proposed solution.										
TOTAL PROBLEM POINTS										6520

CONTINUED:

SOLUTION BENEFIT CATEGORY					
3.0 REGIONAL	3.1. Reduction of flowrate leaving site	% reduction of peak flowrate :		Max points: 1000	
	3.2. Combines smaller projects into regional solution (see note)	No. Add'l Projects:		Points per Add'l Proj.: 50	
4.0 ENVIRONMENTAL / WATER QUALITY	4.1. Addresses pollutants:	No. Units		Points per Unit	
	Bioswales		PER 100 LF	10	
	Forebays		AC	200	
	Wet Ponds		AC	100	
	Wetlands		AC	50	
	Biostabilzation of banks (per bank)	7.5	PER 100 LF	10	75
	Riffle Pool Complex		PER 100 LF	10	
4.2. Eliminates combined sewer (per project)		EA	100		
4.3	Eliminates inflow into sanitary system (1 each per basement flooded, yard vent overtopped, street inlet or driveway drain connected to sanitary/combined system, etc.)	11	EA	10	110
5.0 MISC.	5.1. Ease of Implementation (No. of Easements)	0-5 (20 pts)	6-10 (10 pts)	11-15 (5 pts)	>15 (0 pts)
	Points for Easements	0	0	0	X
	5.2. Recreational/Educational		Yes = 100, no = 0 pts	0	
TOTAL SOLUTION POINTS				185	
TOTAL BENEFIT POINTS				6705	

Note: A regional solution combines several smaller projects into a watershed or subwatershed solution.

TOTAL COST IN THOUSANDS=

\$10,154.02

MSD BENEFIT/ COST RATIO= TOTAL POINTS/ TOTAL COST IN THOUSANDS=

0.66

PROJECT NAME:		Deerfield/Wakefield			
PROJECT No:		1601.01			
<u>ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST</u>					
ITEM NUMBER	PAY ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1	Mobilization	1	Lump Sum	\$171,517.41	\$171,517.41
2	Abandonment - Pipe Fill	10	Cubic Yards	\$425.00	\$4,250.00
3	Asphalt Overlay (4")	15,768	Square Yards	\$40.00	\$630,720.00
4	Bank Protection - Biostabilization	898	Square Yards	\$155.00	\$139,190.00
5	Bottom Sect. Of Manhole-27" - 36" Pipe	13	Each	\$2,700.00	\$35,100.00
6	Bottom Sect. Of Manhole-42 Inch Pipe	1	Each	\$3,000.00	\$3,000.00
7	Bottom Sect. Of Manhole-48 Inch Pipe	4	Each	\$6,100.00	\$24,400.00
8	Bottom Sect. Of Manhole-60 Inch Pipe	4	Each	\$7,000.00	\$28,000.00
9	Bottom Sect. Of Manhole-66 Inch Pipe	13	Each	\$8,000.00	\$104,000.00
10	Bottom Sect. Of Manhole-72 Inch Pipe	2	Each	\$9,000.00	\$18,000.00
11	Bypass Pumping	1	Lump Sum	\$4,490.00	\$4,490.00
12	Check Valve	1	Each	\$5,000.00	\$5,000.00
13	Clearing (Channel Projects)	1	Lump Sum	\$3,592.00	\$3,592.00
14	Curb & Gutter	10,550	Linear Feet	\$40.00	\$422,000.00
15	Excavation Class "A"	989	Cubic Yards	\$190.00	\$187,867.78
16	Excavation Class "B"	99	Cubic Yards	\$55.00	\$5,438.28
17	Flared End Section 30 Inch Pipe	1	Each	\$2,250.00	\$2,250.00
18	Flared End Section 36 Inch Pipe	1	Each	\$2,700.00	\$2,700.00
19	Flared End Section 72 Inch Pipe	1	Each	\$5,400.00	\$5,400.00
20	Inlet (Area, Street, etc.)	21	Each	\$2,500.00	\$52,500.00
21	Inlet Manhole	44	Each	\$3,200.00	\$140,800.00
22	Manhole	6	Each	\$3,000.00	\$18,000.00
23	Pipe Sewer 12-Inch	818	Linear Feet	\$180.68	\$147,792.22
24	Pipe Sewer 15-Inch	103	Linear Feet	\$185.31	\$19,087.27
25	Pipe Sewer 18-Inch	497	Linear Feet	\$203.84	\$101,306.47
26	Pipe Sewer 21-Inch	313	Linear Feet	\$219.87	\$68,817.83
27	Pipe Sewer 24-Inch	986	Linear Feet	\$236.05	\$232,748.73
28	Pipe Sewer 30-Inch	552	Linear Feet	\$262.85	\$145,094.94
29	Pipe Sewer 36-Inch	1,673	Linear Feet	\$275.31	\$460,598.78
30	Pipe Sewer 42-Inch	207	Linear Feet	\$282.76	\$58,530.85
31	Pipe Sewer 48-Inch	615	Linear Feet	\$309.60	\$190,404.56
32	Pipe Sewer 60-Inch	359	Linear Feet	\$374.78	\$134,544.39
33	Pipe Sewer 66-Inch	2,515	Linear Feet	\$555.87	\$1,398,002.72
34	Pipe Sewer 72-Inch	261	Linear Feet	\$622.40	\$162,445.94
35	Sodding - Bluegrass	19,776	Square Yards	\$13.00	\$257,082.22
36	Street Pavement - Asphaltic Concrete	339	Square Yards	\$85.00	\$28,815.00
37	Stormwater Management-Water Quality	21,022	Cubic Feet	\$11.00	\$231,242.00
38	Stormwater Mngmnt-Channel Protection	22,185	Cubic Feet	\$11.00	\$244,035.00
39	Protection and Restoration of Site	1	Lump Sum	\$883,315.00	\$883,315.00
40	Utility Relocation (Allowance)	1	Lump Sum	\$117,776.00	\$117,776.00
				Sub-Total:	\$6,889,855.38
				Estimated Construction Engineering Fee:	\$98,369.98

*Excavation Class 'C' cost included in unit price

		Estimated Construction Survey Fee:	\$12,450.08
		Estimated MSD Construction Permit Fee:	\$195.00
		Estimated MSD Stormwater Construction Inspection Fee:	\$22,247.50
		Estimated MSD Sanitary Construction Inspection Fee:	
	Estimated area disturbed:	7.60 ac	
		Estimated MDNR Land Disturbance Permit Fee:	\$600.00
		Estimated CWA 404/401 Permit Fee:	
		Sub-Total:	\$7,023,717.94
		30% Contingency:	\$2,107,115.38
		SUB-TOTAL - CONSTRUCTION:	\$9,130,833.32
		Estimated Design Engineering Fee:	\$557,429.89
		Estimated MSD Plan Review Submittal Fee:	
		Estimated MSD Conceptual Review Fee:	
		Estimated MSD Plan Review Fee:	
	<i>Note: MSD submittal & review fees are waived by reciprocal agreement with the City of Ladue.</i>		
		CWA 404/401 Permit Application Preparation:	\$3,000.00
		MDNR Land Disturbance Permit Application & SWPPP Preparation:	\$6,889.86
		Sinkhole Report:	\$5,000.00
		Floodplain Study:	
		No Rise Certification or LOMR:	\$5,000.00
	Estimated Geotechnical Engineering Fee:	31 Borings @ \$2000/each =	\$62,000.00
		Estimated Property Strip Map Survey Fee:	\$63,000.00
		Estimated Topographic Survey Fee:	\$41,500.26
	Estimated Property Title/Easement Search Report Fee:	42 ESR's @ \$500/each =	\$21,000.00
	Estimated Easement Preparation:	42 Plats @ \$450/each =	\$18,900.00
		Estimated Saint Louis County Recording Fee - Easements:	\$1,890.00
		Sub-Total:	\$785,610.01
		30% Contingency:	\$235,683.00
		SUB-TOTAL - DESIGN:	\$1,023,183.01
		TOTAL PROJECT:	\$10,154,016.33

PROJECT NAME: Deerfield/Wakefield

PROJECT No: 1601.01

PROPERTY CONTACT INFORMATION

BENEFITED PROPERTY OWNERS			
Count	Property Address	Contact Name	Phone Number
1	2 DANFIELD RD	KREMS ROBERT B WENDY A	
2	1 DANIEL RD	JOFFRAY JEFF	
3	3 DANIEL RD	MARSHALL DOUGLAS	
4	5 DANIEL RD	HANZLIK JOSEPH J & VICTORIA F TRUSTEES	
5	7 DANIEL RD	JENTE RICHARD L TRUSTEE ETAL	
6	32 DANIEL RD	HOWARD TODD KEVIN & KATHRYN GARLOCK H/W	
7	DANIEL RD R/W	DANIEL RD SUBDIVISION TRUSTEES	
8	DEER CREEK WOODS R/W	DEER CREEK WOODS SUBDIVISION TRUSTEES	
9	30 DEERFIELD TER	MURRAY DAVID & NANCY H/W	
10	34 DEERFIELD TER	MARTIN ANGELA J	
11	38 DEERFIELD TER	UNGACTA LIVING TRUST	felixungacta@gmail.com
12	DEERFIELD TER R/W	DEERFIELD TER TRUSTEES	
13	25 DEERFIELD RD	VOGEL PAUL L & LYNN ANN H/W	
14	28 DEERFIELD RD	KNIGHT NEWELL S JR & JANET M H/W	
15	29 DEERFIELD RD	THORNHILL ELIZABETH WILHELM TRUSTEE	
16	41 DEERFIELD RD	WOLFSBERGER CLARK & WENDY H/W	wendygoessling@group360.com
17	47 DEERFIELD RD	WOLFSBERGER CLARK & WENDY H/W	wendygoessling@group360.com
18	DEERFIELD RD R/W	DEERFIELD RD SUBDIVISION TRUSTEES	
19	19 ELLSWORTH LN	LUMAGHI PETER NANCY J H/W	
20	20 ELLSWORTH LN	SIMS RICHARD S TRUSTEE	
21	21 ELLSWORTH LN	KINSELLA MICHAEL J SHARON D H/W	
22	22 ELLSWORTH LN	HENNESSEY JANET DUNSMORE & PETER POLLNOW	
23	24 ELLSWORTH LN	J S B ELLSWORTH L L C	jboudoures@charter.net
24	27 ELLSWORTH LN	BELLAN LINDA K TRUSTEE	
25	ELLSWORTH LN R/W	ELLSWORTH LN SUBDIVISION TRUSTEES	
26	15 LINDWORTH DR	LETTAU MICHAEL & MURPHY MEGAN H/W	
27	17 LINDWORTH DR	TRAVIS MARK L & ANN L H/W	
28	19 LINDWORTH DR	GUPTA ANJU & SURI GAURAV H/W	
29	39 LINDWORTH DR	WENDE ADOLPH H TR	
30	LINDWORTH DR R/W	LINDWORTH DR SUBDIVISION TRUSTEES	
31	5 TRAILS END LN	THOMPSON JOYCE D TRUSTEE	
32	7 TRAILS END LN	SLETTEN BYRON ETAL	
33	4 WAKEFIELD DR	TREMAYNE RONALD D & ROBIN M H/W	
34	5 WAKEFIELD DR	OLDANI LOUIS EVELYN H/W	
35	6 WAKEFIELD DR	RYAN JAMES A & MARY LOU S H/W	
36	7 WAKEFIELD DR	BENDON DONNA L REVOCABLE TRUST	
37	8 WAKEFIELD DR	GILBERTSON MATTHEW & BROOKE H/W	
38	9 WAKEFIELD DR	HANLEY MICHAEL J ROSEMARY H/W	
39	10 WAKEFIELD DR	DELANO PHILIP G & ENGELBREIT MARY H/W	
40	11 WAKEFIELD DR	STENSON WILLIAM F & JANET M REVOCABLE	
41	12 WAKEFIELD DR	MCCARTHY KAREN R	
42	WAKEFIELD DR R/W	WAKEFIELD DR SUBDIVISION TRUSTEES	
43	WILD ROSE R/W	WILD ROSE DR SUBDIVISION TRUSTEES	
44	19 WOODCREST DR	JACOBSON TERESA	
45	22 WOODCREST DR	MAXEINER JAMES R & ELAINE F TRUSTEES	
46	24 WOODCREST DR	PLIAKOS HARRY G GEORGIANA	
47	26 WOODCREST DR	KLOTZ ELIZABETH C	
48	28 WOODCREST DR	KASTIGAR MATTHEW J SUSAN M H/W	
49	29 WOODCREST DR	TECU PATRICIA VIVIANO	
50	30 WOODCREST DR	ROSE SHERYL E REVOCABLE TRUST	
51	31 WOODCREST DR	FEI YIHONG & ZHOU DONG H/H	
52	49 WOODCREST DR	ADAMS JAMES S & SUSAN R H/W	
53	50 WOODCREST DR	HORN EDWIN W II TRUST ETAL	
54	51 WOODCREST DR	LEE JOAN LI CHUAN	
55	53 WOODCREST DR	ROTHERY DANIEL J JANE E H/W	

PROJECT NAME: Deerfield/Wakefield

PROJECT No: 1601.01

PROPERTY CONTACT INFORMATION

Count	Property Address	Contact Name	Phone Number
56	WOODCREST DR R/W	WOODCREST DR SUBDIVISION TRUSTEES	
IMPACTED PROPERTY OWNERS			
1	1 DANFIELD RD	EZZELGOT MOSTAFA & JOYCE H/W	
2	2 DANFIELD RD	KREMS ROBERT B WENDY A	
3	1 DANIEL RD	JOFFRAY JEFF	
4	16 DANIEL RD	MACKEY MARIAN MIMI ETAL J/T	
5	20 DANIEL RD	OTOOLE THOMAS J & ANN T H/W	
6	28 DANIEL RD	CORRY MICHAEL CAROLYN H/W	
7	32 DANIEL RD	HOWARD TODD KEVIN & KATHRYN GARLOCK H/W	
8	DANIEL RD R/W	DANIEL RD SUBDIVISION TRUSTEES	
9	DEER CREEK WOODS R/W	DEER CREEK WOODS SUBDIVISION TRUSTEES	
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15	DEERFIELD RD R/W	DEERFIELD RD SUBDIVISION TRUSTEES	
16	ELLSWORTH LN R/W	ELLSWORTH LN SUBDIVISION TRUSTEES	
17	15 LINDWORTH DR	LETTAU MICHAEL & MURPHY MEGAN H/W	
18	17 LINDWORTH DR	TRAVIS MARK L & ANN L H/W	
19	19 LINDWORTH DR	GUPTA ANJU & SURI GAURAV H/W	
20	39 LINDWORTH DR	WENDE ADOLPH H TR	
21	LINDWORTH DR R/W	LINDWORTH DR SUBDIVISION TRUSTEES	
22	1300 LITZINGER WOODS LN A	UNION ELECTRIC COMPANY	
23	22 OVERBROOK DR	HUFFMAN WILLIAM E DAWN L H/W TRUSTEES	
24	4 WAKEFIELD DR	TREMAYNE RONALD D & ROBIN M H/W	
25	5 WAKEFIELD DR	OLDANI LOUIS EVELYN H/W	
26	8 WAKEFIELD DR	GILBERTSON MATTHEW & BROOKE H/W	
27	9 WAKEFIELD DR	HANLEY MICHAEL J ROSEMARY H/W	
28	10 WAKEFIELD DR	DELANO PHILIP G & ENGELBREIT MARY H/W	
29	11 WAKEFIELD DR	STENSON WILLIAM F & JANET M REVOCABLE	
30	12 WAKEFIELD DR	MCCARTHY KAREN R	
31	WAKEFIELD DR R/W	WAKEFIELD DR SUBDIVISION TRUSTEES	
32	WILD ROSE R/W	WILD ROSE DR SUBDIVISION TRUSTEES	
33	19 WOODCREST DR	JACOBSON TERESA	
34	22 WOODCREST DR	MAXEINER JAMES R & ELAINE F TRUSTEES	
35	24 WOODCREST DR	PLIAKOS HARRY G GEORGIANA	
36	26 WOODCREST DR	KLOTZ ELIZABETH C	
37	28 WOODCREST DR	KASTIGAR MATTHEW J SUSAN M H/W	
38	31 WOODCREST DR	FEI YIHONG & ZHOU DONG H/H	
39	50 WOODCREST DR	HORN EDWIN W II TRUST ETAL	
40	51 WOODCREST DR	LEE JOAN LI CHUAN	
41	53 WOODCREST DR	ROTHERY DANIEL J JANE E H/W	
42	WOODCREST DR R/W	WOODCREST DR SUBDIVISION TRUSTEES	
EASEMENTS REQUIRED			
Count	Property Address	Contact Name	Phone Number
1	1 DANFIELD RD	EZZELGOT MOSTAFA & JOYCE H/W	
2	2 DANFIELD RD	KREMS ROBERT B WENDY A	
3	1 DANIEL RD	JOFFRAY JEFF	
4	16 DANIEL RD	MACKEY MARIAN MIMI ETAL J/T	
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6	28 DANIEL RD	CORRY MICHAEL CAROLYN H/W	
7	32 DANIEL RD	HOWARD TODD KEVIN & KATHRYN GARLOCK H/W	
8	DANIEL RD R/W	DANIEL RD SUBDIVISION TRUSTEES	
9	DEER CREEK WOODS R/W	DEER CREEK WOODS SUBDIVISION TRUSTEES	
10	DEERFIELD TER R/W	DEERFIELD TER TRUSTEES	

PROJECT NAME: Deerfield/Wakefield**PROJECT No:** 1601.01**PROPERTY CONTACT INFORMATION**

11	25 DEERFIELD RD	VOGEL PAUL L & LYNN ANN H/W	
12	29 DEERFIELD RD	THORNHILL ELIZABETH WILHELM TRUSTEE	
13	41 DEERFIELD RD	WOLFSBERGER CLARK & WENDY H/W	wendygoessling@group360.com
14	47 DEERFIELD RD	WOLFSBERGER CLARK & WENDY H/W	wendygoessling@group360.com
15	DEERFIELD RD R/W	DEERFIELD RD SUBDIVISION TRUSTEES	
16	ELLSWORTH LN R/W	ELLSWORTH LN SUBDIVISION TRUSTEES	
17	15 LINDWORTH DR	LETTAU MICHAEL & MURPHY MEGAN H/W	
18	17 LINDWORTH DR	TRAVIS MARK L & ANN L H/W	
19	19 LINDWORTH DR	GUPTA ANJU & SURI GAURAV H/W	
20	39 LINDWORTH DR	WENDE ADOLPH H TR	
21	LINDWORTH DR R/W	LINDWORTH DR SUBDIVISION TRUSTEES	
22	1300 LITZINGER WOODS LN A	UNION ELECTRIC COMPANY	
23	22 OVERBROOK DR	HUFFMAN WILLIAM E DAWN L H/W TRUSTEES	
24	4 WAKEFIELD DR	TREMAYNE RONALD D & ROBIN M H/W	
25	5 WAKEFIELD DR	OLDANI LOUIS EVELYN H/W	
26	8 WAKEFIELD DR	GILBERTSON MATTHEW & BROOKE H/W	
27	9 WAKEFIELD DR	HANLEY MICHAEL J ROSEMARY H/W	
28	10 WAKEFIELD DR	DELANO PHILIP G & ENGELBREIT MARY H/W	
29	11 WAKEFIELD DR	STENSON WILLIAM F & JANET M REVOCABLE	
30	12 WAKEFIELD DR	MCCARTHY KAREN R	
31	WAKEFIELD DR R/W	WAKEFIELD DR SUBDIVISION TRUSTEES	
32	WILD ROSE R/W	WILD ROSE DR SUBDIVISION TRUSTEES	
33	19 WOODCREST DR	JACOBSON TERESA	
34	22 WOODCREST DR	MAXEINER JAMES R & ELAINE F TRUSTEES	
35	24 WOODCREST DR	PLIAKOS HARRY G GEORGIANA	
36	26 WOODCREST DR	KLOTZ ELIZABETH C	
37	28 WOODCREST DR	KASTIGAR MATTHEW J SUSAN M H/W	
38	31 WOODCREST DR	FEI YIHONG & ZHOU DONG H/H	
39	50 WOODCREST DR	HORN EDWIN W II TRUST ETAL	
40	51 WOODCREST DR	LEE JOAN LI CHUAN	
41	53 WOODCREST DR	ROTHERY DANIEL J JANE E H/W	
42	WOODCREST DR R/W	WOODCREST DR SUBDIVISION TRUSTEES	