

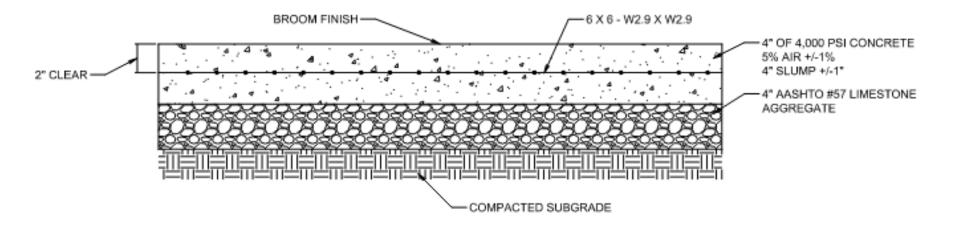


MUNICIPALITY OF MT. LEBANON SIDEWALK TSL STUDY SEPTEMBER 12, 2023

OVERVIEW

- Gateway was tasked with performing a Type, Size, and Location study for sidewalks on select streets within Mt. Lebanon.
- The process for determining the TSL study involved a site walk for each street with existing mapping data. The information was then used to determining the optimum side of the street to place the sidewalk and the associated quantities for the cost estimate. In all cases, in order to minimize cost, sidewalks were considered to start at the back of the existing curbs with no grass planted between the sidewalk and the curb.
- An opinion of cost was developed for each block on each street and totaled for each street. The cost per home was developed using the sidewalk policy and is an average per block and may vary.
- SALDO Section 805.9: Sidewalks shall be located in line with existing sidewalks on adjacent lots or, where none exists, shall be located a minimum of six feet from the edge of any curb or paving where practical and constructed to municipal standards."

TYPICAL DETAIL



NOTES:

- CONTRACTOR SHALL PLACE CONTROL JOINTS AT INTERVALS EQUAL TO THE PAVEMENT WIDTH NOT TO EXCEED 12'.
- 2. EXPANSION JOINTS SHALL BE INSTALLED AT 50' MAXIMUM INTERVALS.
- CURING SHALL BE BY ABSORPTIVE COVER; MOISTURE-RETAINING COVER; OR APPROVED CURING COMPOUND. CONTRACTOR SHALL SUBMIT PROPOSED CURING METHOD TO OWNER FOR APPROVAL PRIOR TO CONCRETE INSTALLATION.
- APPLY WATER BASED 40% SILANE PENETRATING SEALER AFTER A MINIMUM OF 28 DAYS PER MANUFACTURERS RECOMMENDATIONS.
- 5. PROVIDE MINIMUM CROSS-SLOPE OF 1.5% TO MAXIMUM CROSS SLOPE OF 2%.



SIDEWALK POLICY COST SHARING FORMULA

2. Project costs will be determined and divided between municipal and nonmunicipal sources

a. The non-municipal share will be assessed to the property owners abutting the improvements but may be paid by other sources. The Municipality may require the entire amount be paid before the Municipality will proceed with sidewalk installation.

b. The non-municipal share will be the greater of:

i. 10% of the sidewalk construction cost or

ii. 50% of the total project cost over \$9.50 per square foot. Total project cost will include additional costs associated with sidewalk installation such as E&S controls, traffic controls, and mobilization costs. Relocation of private structures or landscaping shall not be considered part of the total project cost and are addressed in Section I.2.d.

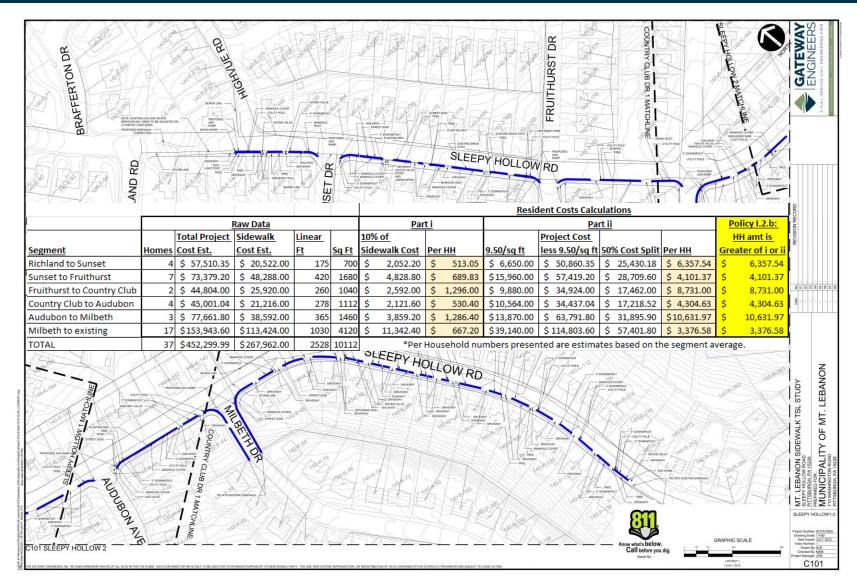
SELECTED STREETS AND PROCESS

- Sleepy Hollow
- Woodland
- Greenhurst
- Lakemont
- Kelso
- Robb Hollow
- Country Club

Description	Units	Quantity	Unit Price	Cost
Richland Rd to Sunset Drive				
Site Clearing / Site Prep (Allowance)	L.S.	1	\$1,000.00	\$1,000.00
Site Cleanup / Site Restoration (Allowance)	L.S.	1	\$3,000.00	\$3,000.00
Erosion and Sedimentation Control (Allowance)	L.S.	1	\$1,000.00	\$1,000.00
Handicap Ramps	EA.	1	\$7,000.00	\$7,000.00
Concrete Driveway remove and replace	EA.	2	\$3,000.00	\$6,000.00
Rain Conductors (assume two per home)	EA.	8	\$200.00	\$1,600.00
Concrete Sidewalk	S.F.	616	\$24.00	\$14,784.00
Cheek Wall	S.F.	75	\$75.00	\$5,625.00
Tree Removal	L.S.	2	\$5,000.00	\$10,000.00
			Subtotal	\$50,009.00
		\$7,501.35		
	Тс	tal for Richl	land to Sunset	\$57,510.35

*Note: The resident costs are an average cost per household based on the length of the block. Actual costs per each resident will be completed upon final design

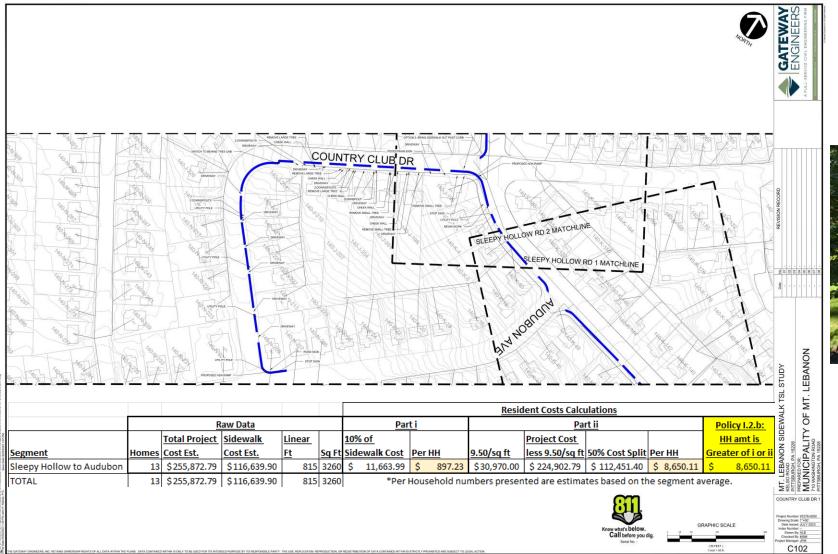
SLEEPY HOLLOW





Nearest schools Howe Elem: 0.4mi

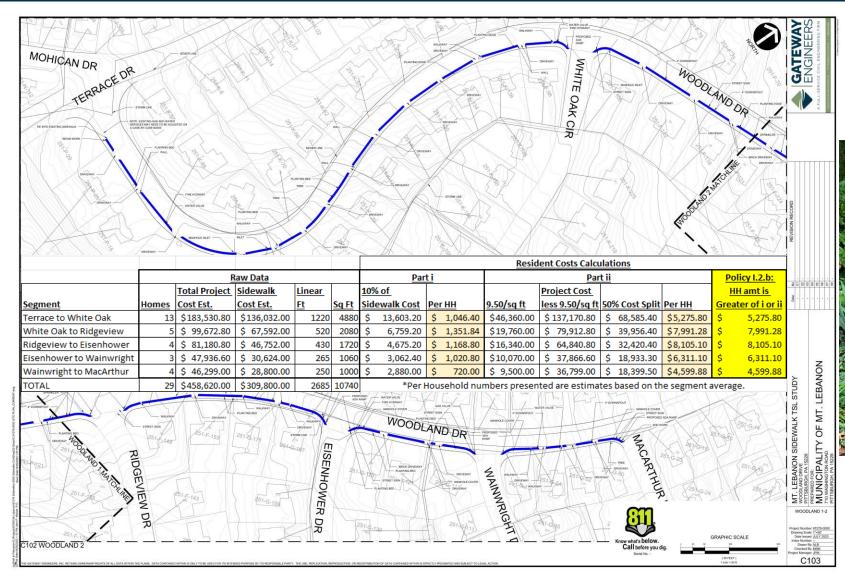
COUNTRY CLUB





Nearest school: Howe Elementary

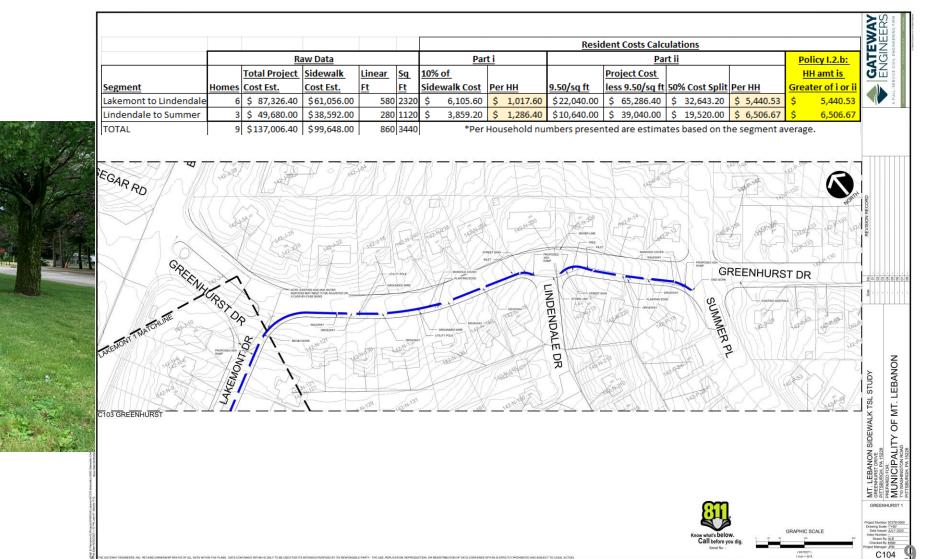
WOODLAND





Nearest school: Foster Elementary 500 ft from Woodland/Vermont

GREENHURST



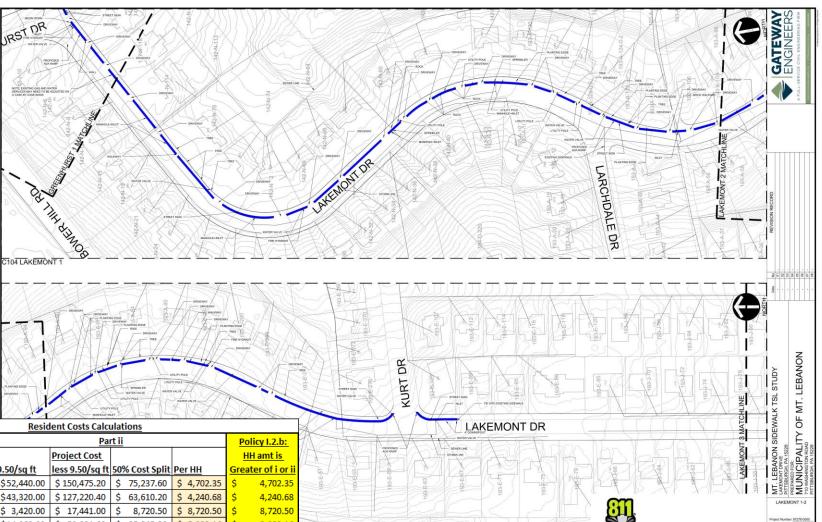


Nearest schools: Hoover: 0.2 mi Jefferson Schools: 0.4 mi

LAKEMONT

Nearest schools: Hoover: 0.2 mi Jefferson Schools: 0.4 mi





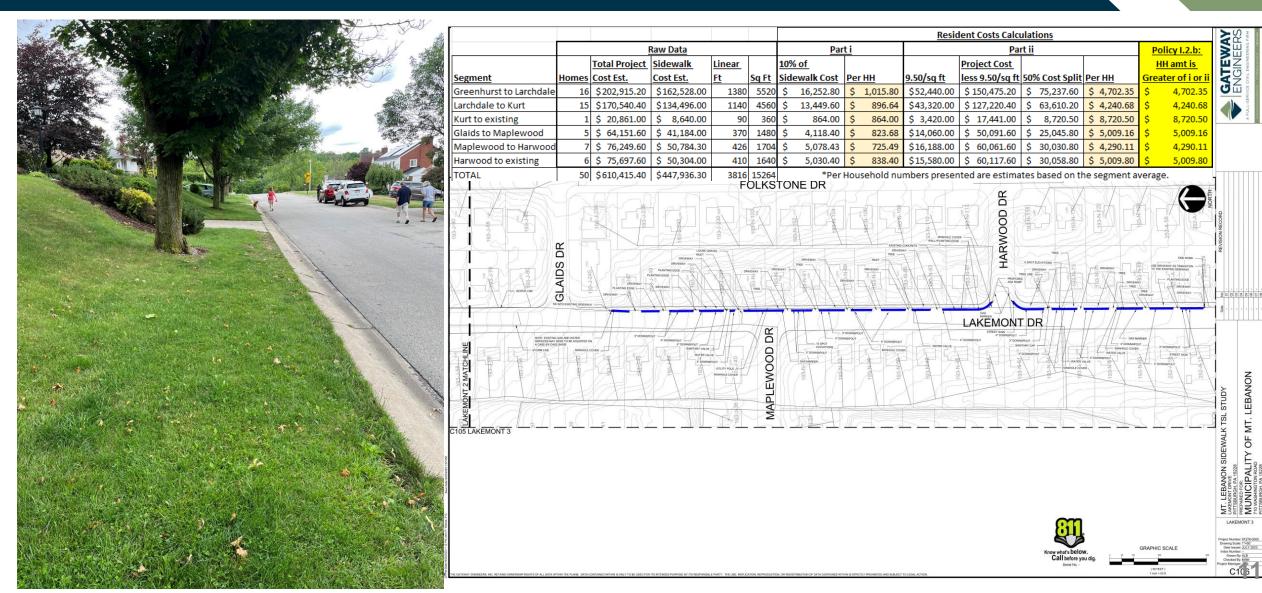
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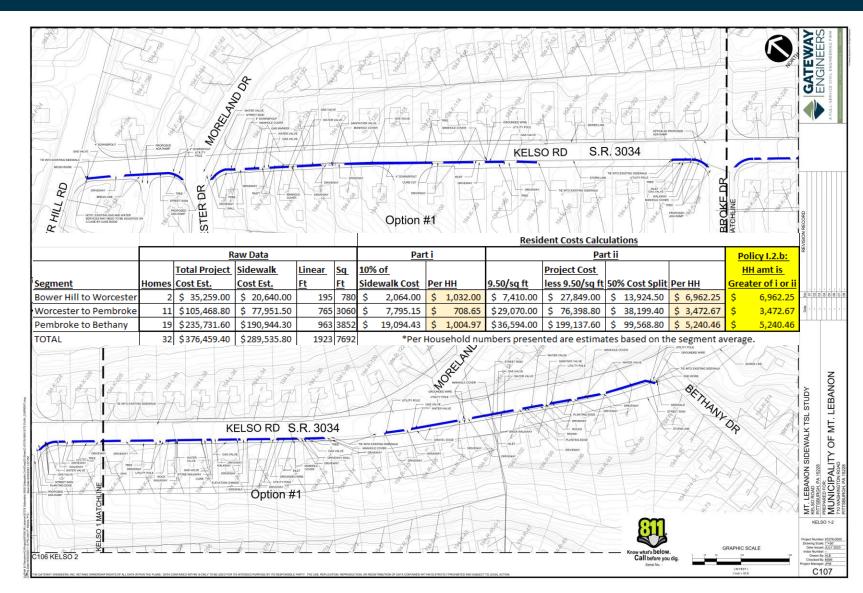
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			Raw Data			Par	<u>ti</u>		Pa	<u>rt ii</u>		Policy I.2.b	- 7
		Total Project	Sidewalk	Linear		10% of			Project Cost			HH amt is	14
Segment	Homes	Cost Est.	Cost Est.	<u>Ft</u>	Sq Ft	Sidewalk Cost	Per HH	9.50/sq ft	less 9.50/sq ft	50% Cost Split	Per HH	Greater of i o	r ii
Greenhurst to Larchdale	16	\$202,915.20	\$162,528.00	1380	5520	\$ 16,252.80	\$ 1,015.80	\$52,440.00	\$ 150,475.20	\$ 75,237.60	\$ 4,702.35	\$ 4,702.3	35 🚞
Larchdale to Kurt	15	\$170,540.40	\$134,496.00	1140	4560	\$ 13,449.60	\$ 896.64	\$43,320.00	\$ 127,220.40	\$ 63,610.20	\$ 4,240.68	\$ 4,240.	58
Kurt to existing	1	\$ 20,861.00	\$ 8,640.00	90	360	\$ 864.00	\$ 864.00	\$ 3,420.00	\$ 17,441.00	\$ 8,720.50	\$ 8,720.50	\$ 8,720.	50
Glaids to Maplewood	5	\$ 64,151.60	\$ 41,184.00	370	1480	\$ 4,118.40	\$ 823.68	\$14,060.00	\$ 50,091.60	\$ 25,045.80	\$ 5,009.16	\$ 5,009.3	16
Maplewood to Harwood	7	\$ 76,249.60	\$ 50,784.30	426	1704	\$ 5,078.43	\$ 725.49	\$16,188.00	\$ 60,061.60	\$ 30,030.80	\$ 4,290.11	\$ 4,290.3	11
Harwood to existing	6	\$ 75,697.60	\$ 50,304.00	410	1640	\$ 5,030.40	\$ 838.40	\$15,580.00	\$ 60,117.60	\$ 30,058.80	\$ 5,009.80	\$ 5,009.8	30 ATON
TOTAL	50	\$610.415.40	\$447,936,30	3816	15264	*Per	Household nu	mbers preser	nted are estima	ites based on t	he segment a	verage.	



LAKEMONT



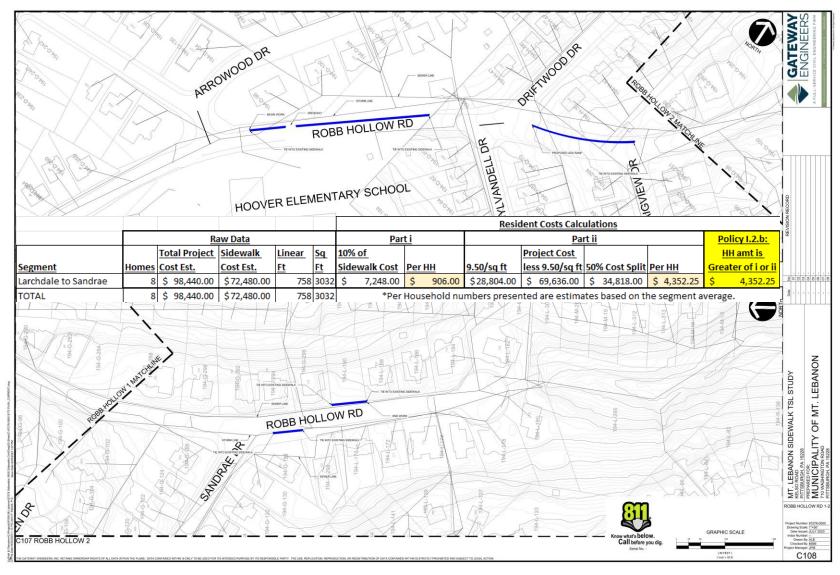
KELSO





Nearest school: Hoover Elem: 0.8 mi

ROBB HOLLOW





Nearest school: Hoover Elementary

SUMMARY

*Note: The cost per household is an average cost based on the length of the block. Actual costs per each resident will be completed upon final design and will vary based on linear footage of sidewalk through each property.

	Bay Data					Reident Sha	re Part i	Resident Share Part ii				Police
Sleeps Hollow Road	Homes	Total Project Cost Est.		Linear Et	Sq. Et	<u>10% of</u> Sidewalk Cost	Per HH	9.50/sa ft	Project Cost less 9.50/sq ft	50% Cost	Per HH	<u>I.2.b:</u> HH amt is Greater of
Richland to Sunset	4		\$ 20,522.00	175		\$ 2,052.20		\$ 6,650.00	\$ 50,860.35		\$ 6,357.54	\$ 6,357.54
Sunset to Fruithurst	7		\$ 48,288.00	420	1680	\$ 4,828.80	\$ 689.83	\$ 15,960.00	\$ 57,419.20	· · ·	\$ 4,101.37	\$ 4,101.37
Fruithurst to Country Club	2			260	1040				\$ 34,924.00			\$ 8,731.00
Country Club to Audubon	4		\$ 21,216.00	278	1112	\$ 2,121.60	\$ 530.40	\$ 10,564.00	\$ 34,437.04		\$ 4,304.63	\$ 4,304.63
Audubon to Milbeth	3	· · ·	\$ 38,592.00	365	1460	\$ 3,859.20	\$1,286.40		\$ 63,791.80	<u> </u>	\$10,631.97	\$ 10,631.97
Milbeth to existing	17			1030	4120	\$ 11,342.40				\$ 57,401.80		
	37			2528	10112							
TOTAL	31	\$ 452,299.99	\$ 267,962.00	2020	10112	reir	iousenoia ni	umbers preser	ited are estimates ba	ased on the se	gment averaç	e.
												Deller
		T	0.1		<u> </u>	10-1 -1			D	East Care		Policy
Course Club Daine		Total Project		Linear		<u>10% of</u>	B	0 501 (1	Project Cost	50% Cost	B 101	<u>1.2.b:</u>
Country Club Drive	Homes	Cost Est.	Cost Est.	Et	Et				less 9.50/sq ft		Per HH	<u>HH amt is</u>
Sleepy Hollow to Audubon	13			815			\$ 897.23			\$ 112,451.40		\$ 8,650.11
TOTAL	13	\$ 255,872.79	\$ 116,639.90	815	3260	Per H	lousehold n	umbers preser	nted are estimates ba	ased on the se	gment averag	ie.
		Total Project		Linear		<u>10% of</u>			Project Cost	50% Cost		Policy. I.2.b:
Voodland Drive	<u>Homes</u>	Cost Est.	Cost Est.	Et	Et	Sidewalk Cost	Per HH	<u>9.50/sq ft</u>	less 9.50/sq ft	Split	Per HH	<u>HH amt is</u>
Terrace to White Oak	13		\$ 136,032.00	1220		\$ 13,603.20		\$ 46,360.00	\$ 137,170.80			\$ 5,275.80
White Oak to Ridgeview	5		\$ 67,592.00	520	2080	\$ 6,759.20		\$ 19,760.00	\$ 79,912.80	\$ 39,956.40	\$ 7,991.28	\$ 7,991.28
Ridgeview to Eisenhower	4			430	1720				\$ 64,840.80	\$ 32,420.40		\$ 8,105.10
Eisenhower to Wainwright	3			265	1060	\$ 3,062.40			\$ 37,866.60	<u> </u>		\$ 6,311.10
Wainwright to MacArthur	4			250	1000	\$ 2,880.00	\$ 720.00	\$ 9,500.00	\$ 36,799.00	\$ 18,399.50	\$ 4,599.88	\$ 4,599.88
TOTAL	29	\$ 458,620.00	\$ 309,800.00	2685	10740	"Per H	lousehold n	umbers preser	nted are estimates ba	ased on the se	gment averag	je.
												Policy
		Total Project	Sidewalk	Linear	Sa	10% of			Project Cost	50% Cost		1.2.b:
Greenhurst Drive	Homes	Cost Est.	Cost Est.	Et	Et	Sidewalk Cost	Per HH	9.50/sq ft	less 9.50/sa ft		Per HH	HH amt is
Lakemont to Lindendale	6			580		\$ 6,105.60			\$ 65,286.40			\$ 5,440.53
Lindendale to Summer	3			280	1120		\$1,286.40			\$ 19,520.00		\$ 6,506.67
TOTAL	9		\$ 99,648.00	860	3440		lousehold n	umbers preser	ited are estimates ba			
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		Total Project	Sidewalk	Linear	Sa	10% of			Project Cost 50% Cost		Policy 1.2.b:	
Lakemont Drive	Homes	Cost Est.	Cost Est.	Et	Et	Sidewalk Cost	Per HH	<u>9.50/sq ft</u>	less 9.50/sq ft	Split	Per HH	HH amt is
Greenhurst to Larchdale	16	\$ 202,915.20	\$ 162,528.00	1380		\$ 16,252.80	\$ 1,015.80	\$ 52,440.00	\$ 150,475.20		\$ 4,702.35	\$ 4,702.35
Larchdale to Kurt	15			1140	4560	\$ 13,449.60	\$ 896.64	\$ 43,320.00	\$ 127,220.40		\$ 4,240.68	\$ 4,240.68
Kurt to existing	1			90	360	\$ 864.00		\$ 3,420.00	\$ 17,441.00	\$ 8,720.50		\$ 8,720.50
Glaids to Maplewood	5			370	1480	\$ 4,118.40		\$ 14,060.00	\$ 50,091.60			\$ 5,009.16
Maplewood to Harwood	7			426	1704	\$ 5,078.43			\$ 60,061.60		\$ 4,290.11	\$ 4,290.11
Harwood to existing	6		\$ 50,304.00	410	1640	\$ 5,030.40			\$ 60,117.60			\$ 5,009.80
TOTAL	50			3816	15264	· · · · · · · · · · · · · · · · · · ·			ited are estimates ba			
		÷ 010,110.10	*	0010	10207			I preser	ites are estimates be	in the se	ginen averag	
Kelso Road	Homes	<u>Total Project</u> Cost Est.	Sidewalk Cost Est.	<u>Linear</u> Et	Sq. Ft	<u>10% of</u> Sidewalk Cost	Ber UU	9.50/sa ft	Project Cost less 9.50/sa ft	50% Cost	Per HH	Policy 1.2.b: HH amt is
Bower Hill to Worcester				195	780		Per HH \$1,032.00	\$ 7,410.00	\$ 27,849.00	Split \$ 13,924.50	\$ 6,962,25	\$ 6,962.25
	2		\$ 20,640.00			· · · · · · · · · · · · · · · · · · ·				<u> </u>	+	· · ·
Vorcester to Pembroke	11		\$ 77,951.50	765	3060	\$ 7,795.15	\$ 708.65	\$ 29,070.00	\$ 76,398.80	\$ 38,199.40	\$ 3,472.67	\$ 3,472.67
Pembroke to Bethany	19			963	3852	\$ 19,094.43		\$ 36,594.00		\$ 99,568.80		\$ 5,240.46
TOTAL	32	\$ 376,459.40	\$ 289,535.80	1923	7692	"Per H	iousehold n	umbers preser	nted are estimates ba	ased on the se	gment averag	je.
		Total Project		Linear		<u>10% of</u>			Project Cost	50% Cost		<mark>1.2.b:</mark> HH amt is
Robb Hollow Road		Cost Est.	Cost Est.	Et 750	Et				less 9.50/sq ft		Per HH	Greater of
Larchdale to Sandrae		· · ·	\$ 72,480.00	758				\$ 28,804.00		\$ 34,818.00		
TOTAL	8	\$ 98,440.00	\$ 72,480.00	758	3032	"Per H	iousehold ni	umbers preser	nted are estimates ba	ased on the se	gment averag	je.
		Total Project		Linear								
		Cost Est.	Cost Est.	Et	Et							
	170	A 0.000 M0.00	A 1 CO 4 000 00	10005	52540							
GRAND TOTAL	1/8	\$ 2,389,113.98	\$ 1,604,002.00	13385	53540							

SUMMARY

Questions?