



2024 Sidewalk Program Summary



Presented to:
Ron Wiedeman, City Engineer
City of Crest Hill, IL 2024

Objectives & Results

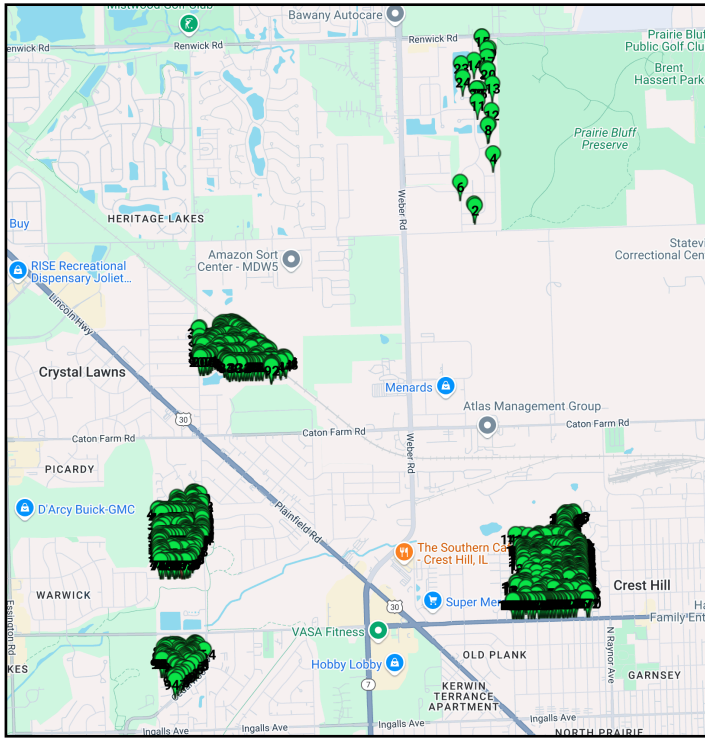
Your Objectives

1. Utilize saw-cutting to achieve an increase in the number of panels repaired
 - **Result:** In 2024, the City repaired an extra **1,107** unsafe sidewalk panels using saw-cutting.
 - Including all projects from 2023-2024, City of Crest Hill repaired an extra **1,421** unsafe sidewalk panels.
2. Develop a strategic and proactive program to identify sidewalk defects until budget is reached
 - **Result:** Safe Step LLC consulted with Crest Hill to establish a 25 point criteria for defect identification and classification and confirmed the sidewalk areas/locations to be evaluated.
 - Crest Hill provided **4** wards to evaluate; all **12.48** total sidewalk miles were able to be evaluated for saw-cutting and R&R defects prior to the budget being reached.
 - Crest Hill also requested we repair select hazards omitted from the 2023 evaluation.
3. Obtain accurate documentation for decision-making and record-keeping
 - **Result:** Safe Step LLC provided defect data through their exclusive online portal “**Sidewalk Central**”.
 - City of Crest Hill maintains full control to review and choose preferred repair types for each defect evaluated in the project area.
 - The data included the nearest defect address, defect measurements and photos, a map view of all defects, and other relevant notes; Completed saw-cutting repairs also include a repair photo for quality control and timestamp for record-keeping. Additionally, GIS shape files with customized attributes are available for import to digitally document and monitor sidewalk conditions, repair types and life cycles.
 - The 2024 sidewalk evaluation documented 37 non-ADA ramps that will be appropriated for future replacement.
4. Decrease staff time and costs for sidewalk evaluations, documentation, and project management
 - **Result:** City of Crest Hill saved an estimated **192** engineering and management hours utilizing Safe Step LLC for the sidewalk consultation and reporting of 45,656 data points collected during the sidewalk evaluation.

Other Feedback

1. Ron noted the 2024 sidewalk program went well and he’s interested in continuing in 2025, although the 2025 program will be less aggressive, maintaining current defect criteria.
2. Safe Step LLC will evaluate walkways ahead of the streets resurfacing program moving forward.

Saw-Cutting Repair Locations



The green markers on the map to the left indicate the locations of sidewalk defects repaired in 2024.

Due to the limitations of GPS mobile app technology, the locations shown above should be relied upon as approximate to their actual locations. Map Data: Google

2023-2024 Sidewalk Project Information

Project Year	Offset Criteria	Sidewalk Avg Width	Saw-cut Repairs	Total Cost of Saw-Cutting	Miles Repaired*	Sawcut Cost / Mile	Sq. Ft. Saved	# of Repairs if R&R used	Additional Repairs Using Safe Step	R&R Sq. Ft. Price
2023	1/2" - 2"	4.99	376	\$33,078	7.60	\$4,352	11,061	62	314	\$18.00
2024	1/2" - 2"	4.55	1299	\$96,161	12.48	\$7,705	36,202	192	1,107	\$18.00
2023-2024		4.8	1,675	\$129,240	20.08	\$6,436	47,263	254	1,421	

*Sidewalk miles repaired are based on survey of sidewalk segments by offset criteria - scatter sites mileage not determined

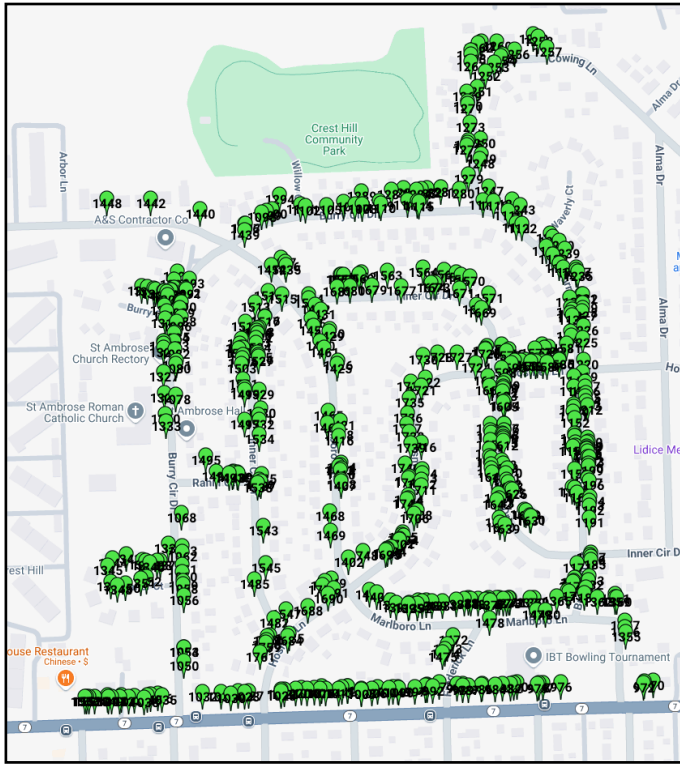
2023-2024 Sidewalk R&R Information

Project Year	4 Inch SqFt	4 Inch Est. Cost	6 Inch SqFt	6 Inch Est. Cost	Total R&R Cost	R&R Cost Per Mile
2023	4909.51	\$51,550	1,633.2	\$19,598	\$71,148	\$9,361.61
2024	11162.3	\$178,597	8,643.5	\$155,583	\$334,180	\$26,777.23
2023-2024	16,071.81	\$230,147	10,276.70	\$175,181	\$405,328	\$36,138.84

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Ward 1 Saw-Cutting Repair Locations



The green markers on the map to the left indicate the locations of sidewalk defects repaired in 2024.

Ward 1 2024 Sidewalk Project Information

Project Year	Offset Criteria	Sidewalk Avg Width	Saw-cut Repairs	Total Cost of Saw-Cutting	Miles Repaired*	Sawcut Cost / Mile	Sq. Ft. Saved	# of Repairs if R&R used	Additional Repairs Using Safe Step	R&R Sq. Ft. Price
2024	1/2" - 2"	4.2	536	\$33,619	5.08	\$6,618	12,931	77	459	\$18.00
2024		4.2	536	\$33,619	5.08	\$6,618	12,931	77	459	

*Sidewalk miles repaired are based on survey of sidewalk segments by offset criteria - scatter sites mileage not determined

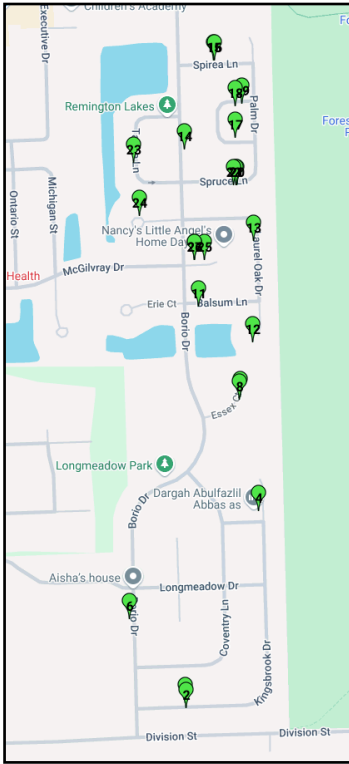
Ward 1 2024 Sidewalk R&R Information

Project Year	4 Inch SqFt	4 Inch Est. Cost	6 Inch SqFt	6 Inch Est. Cost	Total R&R Cost	R&R Cost Per Mile
2024	124	\$1,984	238	\$4,284	\$6,268	\$1,233.86
2024	124	\$1,984	238.00	\$4,284	\$6,268	\$1,233.86

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Ward 2 Saw-Cutting Repair Locations



The green markers on the map to the left indicate the locations of sidewalk defects repaired in 2024.

Ward 2 2023-24 Sidewalk Project Information

Project Year	Offset Criteria	Sidewalk Avg Width	Saw-cut Repairs	Total Cost of Saw-Cutting	Miles Repaired*	Sawcut Cost / Mile	Sq. Ft. Saved	# of Repairs if R&R used	Additional Repairs Using Safe Step	R&R Sq. Ft. Price
2023	1/2" - 2"	4.99	376	\$33,078	7.60	\$4,352	11,061	62	314	\$18.00
2024	1/2" - 2"	4.2	23	\$1,934	Individual Locations requested	N/A	605	4	19	\$18.00
2023-2024		4.6	399	\$35,012	7.60	\$4,607	11,666	67	332	

*Sidewalk miles repaired are based on survey of sidewalk segments by offset criteria - scatter sites mileage not determined

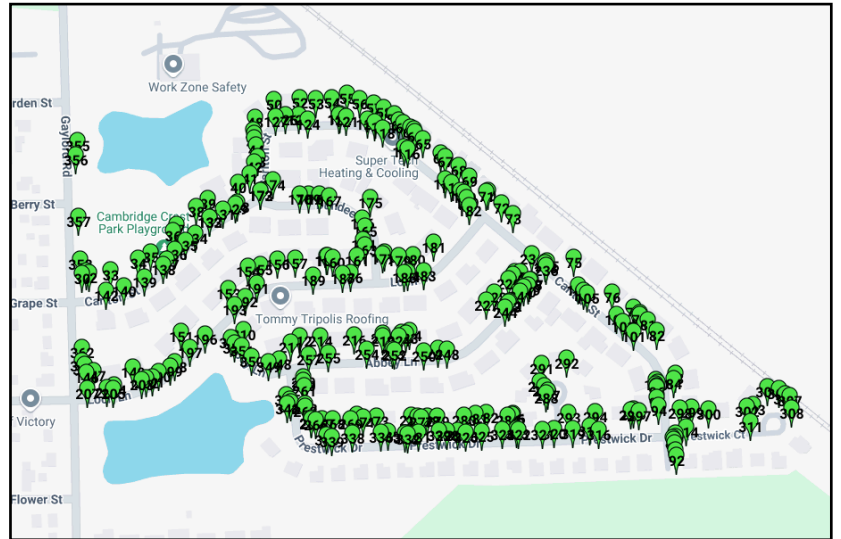
Ward 2 2023-2024 Sidewalk R&R Information

Project Year	4 Inch SqFt	4 Inch Est. Cost	6 Inch SqFt	6 Inch Est. Cost	Total R&R Cost	R&R Cost Per Mile
2023	4909.51	\$51,550	1,633.2	\$19,598	\$71,148	\$9,361.61
2024	124	\$1,984	238	\$4,284	\$6,268	*Individual Locations
2023-2024	5,033.51	\$53,534	1,871.20	\$23,882	\$77,416	\$9,361.61

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Ward 3 Saw-Cutting Repair Locations



The green markers on the map to the above indicate the locations of sidewalk defects repaired in 2024.

Ward 3 2024 Sidewalk Project Information

Project Year	Offset Criteria	Sidewalk Avg Width	Saw-cut Repairs	Total Cost of Saw-Cutting	Miles Repaired*	Sawcut Cost / Mile	Sq. Ft. Saved	# of Repairs if R&R used	Additional Repairs Using Safe Step	R&R Sq. Ft. Price
2024	1/2" - 2"	5	625	\$51,132	6.12	\$8,355	19,314	92	533	\$18.00
2024		5.0	625	\$51,132	6.12	\$8,355	19,314	92	533	

*Sidewalk miles repaired are based on survey of sidewalk segments by offset criteria - scatter sites mileage not determined

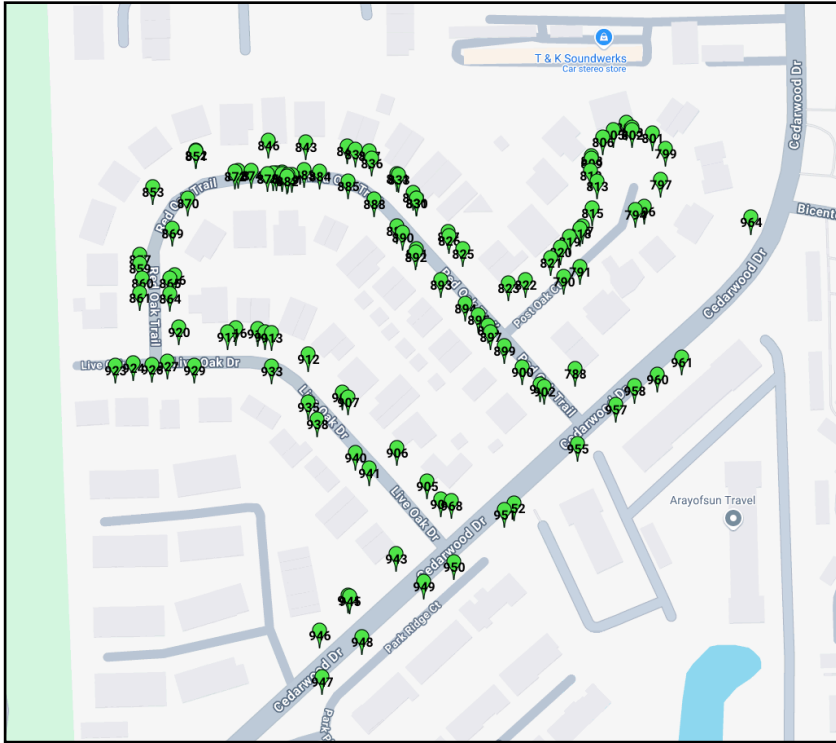
Ward 3 2023-2024 Sidewalk R&R Information

Project Year	4 Inch SqFt	4 Inch Est. Cost	6 Inch SqFt	6 Inch Est. Cost	Total R&R Cost	R&R Cost Per Mile
2024	2260.7	\$36,171	4,872.7	\$87,709	\$123,880	\$20,241.80
2024	2,260.7	\$36,171	4,872.70	\$87,709	\$123,880	\$20,241.80

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Ward 4 Saw-Cutting Repair Locations



The green markers on the map to the left indicate the locations of sidewalk defects repaired in 2024.

Ward 4 2024 Sidewalk Project Information

Project Year	Offset Criteria	Sidewalk Avg Width	Saw-cut Repairs	Total Cost of Saw-Cutting	Miles Repaired*	Sawcut Cost / Mile	Sq. Ft. Saved	# of Repairs if R&R used	Additional Repairs Using Safe Step	R&R Sq. Ft. Price
2024	1/2" - 2"	5	118	\$9,964	1.27	\$7,845	3,353	19	99	\$18.00
2024		5.0	118	\$9,964	1.27	\$7,845	3,353	19	99	

*Sidewalk miles repaired are based on survey of sidewalk segments by offset criteria - scatter sites mileage not determined

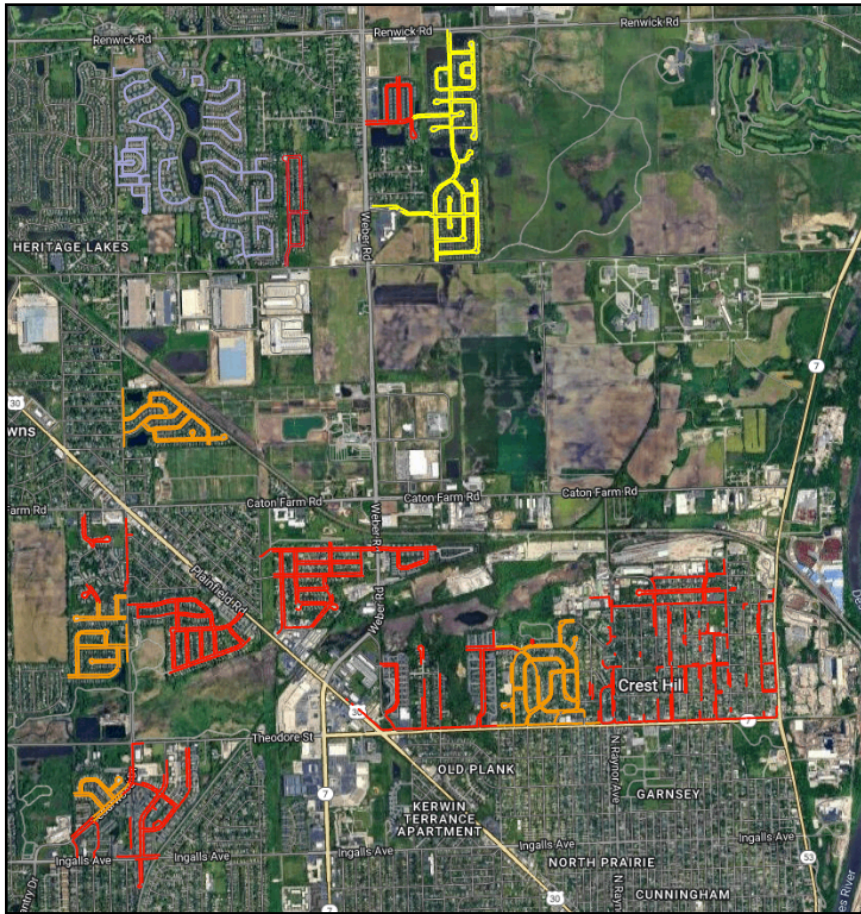
Ward 4 2023-2024 Sidewalk R&R Information





Project Year	4 Inch SqFt	4 Inch Est. Cost	6 Inch SqFt	6 Inch Est. Cost	Total R&R Cost	R&R Cost Per Mile
2024	1347	\$21,552	1,275.5	\$22,959	\$44,511	\$35,048.03
2023-2024	1,347	\$21,552	1,275.50	\$22,959	\$44,511	\$35,048.03

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Sidewalk Repair Program Progress



	2024	12.48 Miles
	2023	7.60 Miles
	Remaining -	28.77 Miles
Total Miles		48.85
	Private	7.62 Miles

Map Data: Google

The map above shows the sidewalk areas that have been completed from 2023 onward.

Red highlighting indicates areas not yet evaluated or repaired. Various colored highlighting indicates the sidewalks that have been evaluated and repaired.

Estimated Sidewalk Infrastructure Value

Life Cycle Progress

Estimated Sidewalk Miles	Avg Width	Estimated Sq. Ft Cost	Total Value of Sidewalk
48.85	4.8	\$18.00	\$22,284,979

Current Budget	Avg Saw-Cut / Mile	Sidewalk Miles To Be Repaired	Years Remaining
\$96,000	\$6,436.00	28.8	2

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Additional Benefits

Crest Hill’s engineering time for the sidewalk program can be broken into three major categories:

1. **Evaluation time:** Mapping and verifying sidewalk areas, defining and confirming a 25 point defect evaluation criteria, mobilizing, assessing each sidewalk panel, accurately capturing 26 key data points, photographing and time-stamping each defect, and physically marking sidewalk panels as appropriate.
2. **Data validation time:** Processing and validating data for accuracy, preparing reports for project execution, archiving defect data for record-keeping, and preparing this yearly summary for review and future decision-making.
3. **Project management time:** Verifying contractor’s work, communication with contractor, quality assurance checks, interacting with residents, and more. Safe Step LLC’s exclusive online portal allows city personnel to maintain control of the project with an easy method to review defects and photos, select preferred repair types, observe project completion, and ensure quality with completed repair photos, minimizing visits to the sidewalks.

Public Support for Safe, Walkable Sidewalks

1. **85.9%** of adults think it important to find a walkable community with safe sidewalks when looking for a new place to live.
2. **87%** of Americans feel that it is important for local governments to achieve ADA compliance and for sidewalks to be accessible for those with disabilities.
3. **84.7%** of adults believe it is important to use local tax dollars toward sidewalks.

Results based on a nationwide survey conducted in April 2019 by Praecones Analytics



Sample Repair Photo: Defect 236 was repaired on 08/09/2024 at 21401 Abbey Ln at 11:06 AM

Completed repair photos and timestamps help ensure repair quality

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