

2016 SIDEWALK INSPECTION AND REPAIR PROGRAM REPORT

OBJECTIVE

To inform the Common Council of the results and progress of the 2016 Sidewalk Inspection and Repair Program, and make program development and funding recommendations.

BACKGROUND

- The 2016 General Obligation Bond Debt (G.O. Debt) limit was increased by \$355,000 via budget amendment to accommodate funding of a total of \$380,000 in sidewalk repairs and replacements in the 2016 Capital Improvement Plan, to be executed via city contracts, replacing the system of maintaining sidewalks in the right-of-way via Repair Orders issued to abutting property owners.
- Resolution 0242-16 (Attachment 1) established the 2016 Sidewalk Inspection and Maintenance Program. It revised the inspection criteria to conform to Federal Highway Administration and U.S. Access Board recommendations as detailed in Attachment 2, and prioritized sidewalk inspections and repairs/replacements.
- As authorized by Resolution 0112-16, the city entered into a sole-source contract with Safe Step Inc. of Hortonville, Wisconsin to perform sidewalk inspections and saw-cutting of vertical displacements between sidewalk squares, where appropriate.
- The Engineering Department included sidewalk replacements (funded within the \$380,000 of G.O. Debt) in its 2016 street reconstruction and paving program contracts.

2016 PROGRAM EXECUTION

- The Engineering Department has received 29 resident complaints concerning sidewalk hazards. These locations are being inspected by Safe Step and will be repaired/replaced as appropriate.
- The Engineering Department included an estimated \$118,000 in sidewalk replacements in its five 2016 street reconstruction and paving contracts, covering 6.7 miles of sidewalk. The final cost of this work will be determined after these contracts are completed.
 - The estimated average replacement cost for defective sidewalk within the limits of these five projects is \$35,000 per mile.
- Safe Step has finished inspecting 22 miles of sidewalk (11 street centerline miles) and have identified 1,868 locations for saw-cutting repairs (estimated cost of \$130,610.00) and 257 locations for replacements/mud-jacking (estimated cost of \$126,714.00). Safe Step's September 2016 Report is included as Attachment 3.
 - Safe Step has completed all saw-cutting repairs identified to date, and these repairs function as well as sidewalk replacements where they have been performed.
 - The estimated average repair/replacement cost within the areas inspected by Safe Step is \$12,000 per mile.
- A meeting with Safe Step is being scheduled for the first week of October 2016 to create a list of sidewalk replacement and mud-jacking locations requiring completion in 2016, to be executed via informal-bid contract (less than \$25,000).
 - Sidewalk locations not requiring replacement in 2016 will be executed via formal bid Public Works contract during the 2017 construction season.

RECOMMENDATIONS FOR 2017

- Extend G.O. Debt funding of sidewalk repairs and replacements in the 2017-2026 Ten Year Capital Improvement Plan at levels comparable to the 2016 program.
- Continue inspecting/repairing sidewalks using the priorities established by Resolution 0242-16.



Legislation Text

File #: Res.0242-16, Version: A

Alderman McCarthy

2016 Sidewalk Inspection Maintenance and Replacement Program

Resolved, that the the sidewalk inspection criteria shall be revised to conform to Federal Highway Administration and U.S. Assess Board recommendations and guidelines as detailed in the Criteria for Inspection of Sidewalks in the Right-Of-Way dated May 2016.

Further resolved, that a 2016 pilot management program that prioritizes annual inspections and repairs/replacements shall be established in the following order:

1. Locations of resident/staff submitted complaints.
2. Sidewalk repairs and replacements as a portion of street reconstruction contracts.
3. Priority locations: Downtown, Uptown, West Racine, Lakefront, and vicinity of the Zoo for an estimated total of 80 blocks, or 14 miles of sidewalk.
4. Pedestrian Corridors along BUS routes for an estimated total of 90 miles of sidewalk (17 miles of sidewalk will most probably be completed in 2016).
5. Locations within one or two blocks of a school for an estimated total of 200 blocks or 34 miles of sidewalk (funds will most probably not be available for these locations in 2016).
6. Locations within one block of a park for an estimated 90 blocks, or 16 miles of sidewalk (funds will most probably not be available for these locations in 2016).
7. Sidewalks abutting church properties for an estimated 100 blocks, or 18 miles of sidewalk (funds will most probably not be available for these locations in 2016).

Perform concrete saw-cutting of vertical displacements between sidewalk squares where appropriate.

Perform sidewalk mud-jacking repairs and replacements via open-bid contract(s).

Further resolved, that the experience and data garnered from the development and execution of the 2016 program will be used to draft options and recommendations for the 2017 Sidewalk Maintenance Program to be presented to the Common Council as a portion of the 2017 budgeting process.

Fiscal Note: Funding is provided in the 2016 General Obligation Bond Debt.

Department of Public Works

City Hall
730 Washington Avenue
Racine, Wisconsin 53403
262.636.9121 – Public Works
262.636.9191 - Engineering



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Commissioner of Public Works

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Racine, Wisconsin

CRITERIA FOR INSPECTION OF SIDEWALKS IN THE RIGHT-OF-WAY

To ensure the good repair of public sidewalks and maintain them free of physical defects and other conditions that may create hazards to pedestrians, the following criteria shall be used when inspecting concrete sidewalks located in the right-of-way:

Concrete defect criteria and possible repair methods:

1. A difference in elevation greater than 1/2 inch at the joint between adjacent sidewalk squares.
 - Possible repairs: mud jacking; and saw-cutting/shaving the vertical edge to create a smooth transition between squares (for displacements of 1-1/2 inches or less).
2. A pitch along the width of the sidewalk greater than 5/8 inch per foot (5% slope).
 - Possible repair: mud jacking
3. A pitch along the length of the sidewalk exceeding the street grade by 5/8 inch per foot (5% difference in slope).
 - Possible repair: mud jacking
4. Ponding of water covering 1/2 or more of the width, or 2 feet or more along the length of a sidewalk as evidenced by silting, collection of debris or water stains.
 - Possible repairs: mud jacking
5. Cracks, gaps between squares and/or deterioration exceeding 3/4 inch in width.
 - No possible repair, sidewalk square replacement required
6. A difference in elevation greater than 1/2 inch within a sidewalk section separated by a crack.
 - No possible repair, sidewalk square replacement required
7. Loose, chipped or spalled concrete, which has resulted in surface irregularities greater than 2 inches wide and 1/2 inch deep relative to the sidewalk surface, and that creates a safety hazard.
 - No possible repair, sidewalk square replacement required

ATTACHMENT 2 Page 1 of 2

Adopted by Resolution 0242-16, dated June 21, 2016

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Underground vault covers and frames, ground level surface accesses, drainage grates, window well grates and similar fixtures: (Note: all repairs of these items are the responsibility of the abutting property owner and the Commissioner of Public Works shall issue the abutting property owner a Repair Order to correct the deficiencies.)

1. Which are cracked or broken in any manner, fixture replacement is required.
2. Which are rusted through in any place, fixture replacement is required.
3. Where any part of the surface of such fixtures is more than ½ inch higher or lower than the adjacent sidewalk. Adjustment of the fixture may be acceptable.



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VILLAGE OF RACINE

Sidewalk Trip Hazard Repair
September Budget Report

Safe Step LLC
PO Box 411
Hortonville, WI 54944

Presented to: Mark Yehlen
September 2016

City of Racine
730 Washington Ave
Racine, WI 53403





City of Racine 2016 Budgetary Numbers Per Priority

	Avg \$ S/F		Avg \$ S/F		Avg \$ S/F		Avg \$ S/F	
	\$2.08	\$6.00	\$2.08	\$6.00	\$2.08	\$6.00	\$2.08	\$6.00
	<u>Est. Sawcut Numbers</u>		<u>D&R - MJ - Client Reviews</u>		<u>Total Cost</u>		<u>Cost/Mile</u>	
	Miles	Est. Sawcuts	Occurrences	Sq Ft.	Est. Cost			
Priority 1	1.2	284	47	2,619	\$15,714.00	\$34,614.00	\$28,845.00	
Priority 2	2.12	377	43	3,500	\$21,000.00	\$45,050.00	\$21,250.00	
Priority 3	1.68	319	47	3,300	\$19,800.00	\$43,645.00	\$25,979.17	
Priority 4	1.78	307	27	2,700	\$16,200.00	\$37,475.00	\$21,053.37	
*Priority 5	4.19	581	93	9,000	\$54,000.00	\$96,540.00	\$23,040.57	
Totals:	11	1,868	257	21,119	\$126,714.00	\$257,324.00		

*Priority 5 is partially completed

Avg Cost/Mile: \$24,033.62

*11 STREET CENTERLINE MILES
= 22 SIDEWALK MILES*

The information in this summary is confidential, and is to be used only by the intended recipient and Safe Step in evaluating the project. Any copying or unauthorized disclosure of this information is prohibited.