

Sidewalk Condition  
Capital Improvements Committee  
January 23, 2014



Department of Public Works  
Infrastructure Services Division

# Summary

- Overview
- Condition assessment / results
- Assessment Criteria
- Improvement Efforts
- Replacement by Programs
- Sidewalk Program goals
- Annual replacement goals

# Overview

- ~68 million sq ft of sidewalk
- Benefits of well-maintain sidewalks
- Existing general conditions
- Average useful life = 60 yrs ave
- Various programs address need
- Replacement Goals

# Condition Assessment

- 2014 Survey methodology
- Survey 25 Random  $\frac{1}{4}$  Sections
- ~5% of total sidewalk inventory
- Snapshot of a point in time
- General conditions
- Survey to start early March

# 2007 Assessment Results

Area surveyed = 3.48M sq ft of 68M = ~5% of total walk  
Amount defective = 640,000 sq ft = ~18% of area surveyed

Condition	Amount
Cracked	12%
Raised	43%
Settled	31%
Deteriorated	14%

Vast majority of defective walk is due to grade differentials

# Assessment Criteria

- Tripping offsets  $> \frac{3}{4}$  inches
- Cracking  $> \frac{1}{4}$  inches wide
- Spalled surface  $> 25\%$  of slab
- Settled/raised slabs - if significant water is trapped
- Patched slabs

# Improvement Efforts

- Local Paving Program – street/alley
- WisDOT Major Street Paving Program
- Sidewalk Replacement Program
- Sidewalk Maintenance
- Sewer/Water utility work
- Private/public Developments
- Private building/ROW permits
- Excavation/restoration permits

# Sidewalk Replacement by Program

<b>Year</b>	<b>Local Paving</b>	<b>State Paving</b>	<b>Area -wide contract</b>	<b>Scattered sites</b>	<b>Total Sq Foot</b>
2004	249,108	140,845	374,264	13,841	<b>778,058</b>
2005	181,809	221,211	249,858	13,426	<b>666,304</b>
2006	117,531	171,229	103,863	14,290	<b>406,913</b>
2007	142,617	93,216	74,037	8,915	<b>318,785</b>
2008	185,999	94,852	119,739	16,528	<b>417,118</b>
2009	238,581	124,379	131,200	16,622	<b>510,782</b>
2010	290,420	57,258	199,921	20,361	<b>567,960</b>
2011	325,062	14,606	153,136	22,034	<b>514,838</b>
2012	355,927	181,094	251,956	64,780	<b>853,757</b>
2013	468,842	75,124	209,434	29,319	<b>782,719</b>
10-yr Total	2,555,896	1,173,814	1,867,408	220,116	<b>5,817,234</b>
	<i>43.9%</i>	<i>20.2%</i>	<i>32.1%</i>	<i>3.8%</i>	
<b>10-yr Ave</b>	<b>255,590</b>	<b>117,381</b>	<b>186,741</b>	<b>22,012</b>	<b>581,723</b>
<b>Current 5-yr Ave</b>	<b>335,766</b>	<b>90,492</b>	<b>189,129</b>	<b>30,623</b>	<b>646,011</b>

# Sidewalk Cutting Maintenance



2013 Completed : East downtown area (Water/Clybourn/river/lake)

2014 Proposed: Work in conjunction with contracts

# Downtown Scatter Sites Started in 2013



# Adopted Sidewalk Replacement Program

Year	Adopted
2009	\$800,000
2010	\$1,225,000
2011	\$1,345,000
2012	\$1,942,000
2013	\$1,333,000
2014	\$1,425,000
6-yr Ave	\$1,345,000

Program Annual goal = 300-350,000 sq ft  
Based on an annual budget request of \$1.5 million

6-yr average of adopted budget = \$1,345,000

Replacement program consists of:

- Area-wide – targeted geographical areas; most cost-effective unit cost
- Scattered Site - by owner request; unit cost 50 - 70% more

# Annual Replacement Goals

- 60 year ave life = 1.7% replaced per year = 1.1M sq feet of walk/yr
- Sidewalk Program = 350,000 SF
- Paving program = 700,000 SF
- Misc others = 100,000 SF

# Questions?

