

Sidewalk Condition
Capital Improvements Committee
November 10, 2011



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
- Assessable work
- Replacement Goals

Condition Assessment

- Not completed for many years
- 2007 Survey methodology
- Random $\frac{1}{4}$ Sections surveyed
- ~5% of total sidewalk inventory
- Snapshot of a point in time
- General conditions

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

Year	Local Paving	State Paving	Area -wide contract	Scattered sites	Total Sq Foot
2002	131,202	148,196	406,975	14,255	700,628
2003	163,367	138,204	357,043	14,295	672,909
2004	249,108	140,845	374,264	13,841	778,058
2005	181,809	221,211	249,858	13,426	666,304
2006	117,531	171,229	103,863	14,290	406,913
2007	214,345	93,216	74,037	8,915	390,513
2008	289,654	94,852	119,739	16,528	520,773
2009	371,364	124,379	131,200	16,622	643,565
2010	498,047	57,258	199,921	20,361	775,587
2011	499,689	14,606	153,136	22,034	689,465
10-yr Total	2,716,116	1,203,996	2,170,036	154,567	6,244,715
	<i>43.5%</i>	<i>19.3%</i>	<i>34.7%</i>	<i>2.5%</i>	
10-yr Ave	271,612	120,400	217,004	15,457	624,472
Current 5-yr Ave	374,620	76,862	135,607	16,892	603,981

Sidewalk Cutting Maintenance



Completed : Downtown area (2007) and Third Ward Area (2011)

Adopted Sidewalk Replacement Program

Year	Adopted
2006	\$750,000
2007	\$681,250
2008	\$880,000
2009	\$800,000
2010	\$1,225,000
2011	\$1,345,000
6-yr Ave	\$946,800

Sidewalk Replacement Program annual goal of 300-350,000 sq ft is based on an annual budget request of \$1.5 million

6-yr average of adopted budget = \$946,800

Replacement program consists of:

- Area-wide – targeted geographical areas; most cost-effective unit cost
- Scattered Site - by owner request; unit cost 80-100% 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?

