

# *SUSTAINABLE BOULEVARDS*

Public Works Committee

April 22, 2009



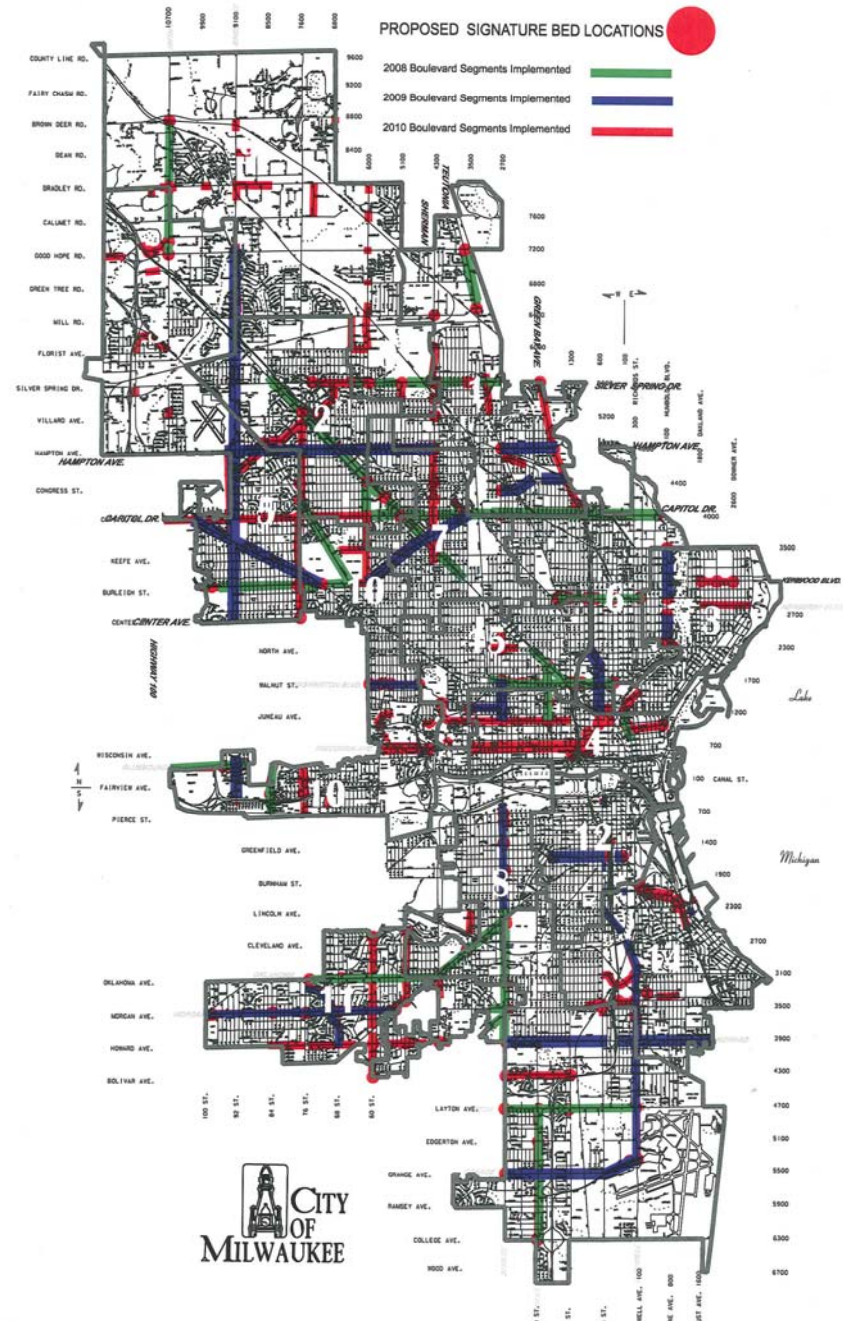
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City of Milwaukee  
Environmental Services

# *Sustainable Boulevards Program Summary*

- Installation of 284 signature beds citywide
- Removal of 1,800 low impact beds
- Planting of 4,500 trees
- Installation of automated irrigation system
- Required three-year capital investment for long term savings
- Eliminates 18 seasonal laborers in 2011 (an annual savings of \$140,000 annually in base salaries)

# ■ Three Phase Plan

## ENVIRONMENTAL SERVICES SUSTAINABLE BOULEVARDS



# Phasing Criteria

- Capital Paving Project Schedule
- Condition/age of irrigation infrastructure
- Completion of significant boulevard segments for maximum efficiency and effectiveness
- Initial focus on major arterials/commercial areas with high vehicle/pedestrian traffic
- Equal workload distribution in forestry districts

# 2008 Boulevard Segments

## ■ North

- Appleton Ave
- Capitol Drive
- Fond du Lac Ave
- Silver Spring Drive
- Teutonia Ave
- 60<sup>th</sup> Street

## ■ South

- Forest Home Ave
- Layton Ave
- Loomis Ave
- Morgan Ave
- National Ave
- Oklahoma Ave
- 20<sup>th</sup> Street
- 27<sup>th</sup> Street

## ■ Central

- Appleton Ave
- Bluemound Road
- Burleigh Street
- Fond du Lac Ave
- Kilbourn at 6<sup>th</sup> Street
- Locust Street
- Walnut Street
- 17<sup>th</sup> Street
- 84<sup>th</sup> Street

# Phase I (2008)

- 600 Low Impact Beds Removed
- 98 signature beds installed
- Components
  - Perennials
  - Flowering Shrubs
  - Trees
  - Annuals
  - Stone Elements (reclaimed cobbles, boulders & Lannon)
  - Drip Irrigation (water conservation and reduced overspray onto road)

# Low Impact Beds



# Low Impact Beds Replaced with Trees & Turf





# Signature Bed Added







MARCUS  
The Best of Both Worlds

THE  
SCHOOL  
UNIVERSITY

البحر  
Comm 30 y Care

SPEED  
LIMIT  
30  
NO  
PARKING



07/10/2009 10:07 am





# Sustainable Boulevards

## Recognition

- 2007 Mayor's Urban Design Award – E. Kilbourn Avenue
- 2008 Professional Grounds Management Society Award
- APWA Reporter April 2009



# Phase I Funding

- \$500,000 Capital request
  - Plant procurement requirements significantly offset by using City nursery grown plant materials
  - Salary Fringe and Indirect Salaries not included in original Capital request. Operating funds reallocated to fill gap
  - Planned removal of 600 low impact beds created capacity for reallocation of resources to signature bed construction



# 2009 Signature Bed Segments

## ■ North

- Hampton Avenue
- Roosevelt Drive
- N. 91<sup>st</sup> / 92<sup>nd</sup> Street

## ■ South

- Chase Avenue
- Grange Avenue
- Howard Avenue
- Howell Avenue
- Lapham Boulevard
- Mitchell Boulevard
- S. 6<sup>th</sup> Street

## ■ Central

- Bluemound Rd @ Miller Park
- N. Humboldt Street
- Lisbon Avenue
- McKinley Boulevard
- Roosevelt Drive
- Washington Boulevard
- N. 6<sup>th</sup> Street
- N. 27<sup>th</sup> Street
- N. 92<sup>nd</sup> Street
- S. 92<sup>nd</sup> Street

# 2010 Signature Bed Segments

## ■ North

- Capitol Drive
- Green Bay Avenue
- Grantosa Drive
- Sherman Boulevard
- Silver Spring Drive
- N. 76<sup>th</sup> Street

## ■ South

- S. Layton Boulevard
- Morgan Avenue
- Oklahoma Avenue
- S. 51<sup>st</sup> Street
- S 60<sup>th</sup> Street
- West Bolivar
- Bay Street
- KK Avenue
- W. Holt Avenue

## ■ Central

- Highland Avenue
- Kenwood Avenue
- Kilbourn Avenue
- Sherman Boulevard
- Water Street
- Wisconsin Avenue
- 4<sup>th</sup> Street
- 6<sup>th</sup> Street
- 76<sup>th</sup> Street

# Pruning Backlog Elimination Strategies

- 19,000 tree pruning backlog resulting from 2007/08 record snowfall
- AIM Pruning Backlog Elimination Strategies
  - Federal Stimulus funding of seasonal employees for boulevard maintenance and tree planting to redirect 3 crews for summer pruning: Prunes 16,000 trees

# Pruning Backlog Elimination Strategies

- Contract Power  
Mulching of  
Signature Beds  
(unfunded): Prunes  
3,400 trees



# Pruning Backlog Elimination Strategies

- Remove Sustainable Boulevards Phase III low impact beds in 2009 and redirect resources to summer pruning : Prunes 6,200 trees.



# 2010 Blvd Segments Proposed for Annual Flower Bed Elimination

## ■ North

- Capitol Drive
- Green Bay Avenue
- Grantosa Drive
- Sherman Boulevard
- Silver Spring Drive
- N. 76<sup>th</sup> Street

## ■ South

- S. Layton Boulevard
- Morgan Avenue
- Oklahoma Avenue
- S. 51<sup>st</sup> Street
- S 60<sup>th</sup> Street
- West Bolivar
- Bay Street
- KK Avenue
- W. Holt Avenue

## ■ Central

- Highland Avenue
- Kenwood Avenue
- Sherman Boulevard
- Wisconsin Avenue
- 76<sup>th</sup> Street

**QUESTIONS?**

The background of the slide features a pattern of stylized green leaves and branches. The leaves are rendered in various shades of green, from a vibrant lime green to a darker forest green, creating a layered, textured effect. The branches are thin and dark green, extending across the frame. The overall aesthetic is clean and modern, with a focus on natural elements.