State of the Streets
April 2011

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Presentation Purpose

Inform the citizens of Lakewood of the transportation infrastructure –

Accomplishments,

Maximizing Resources, and

Challenges
Transportation – Goals & Objectives

Provide safe, efficient, and convenient access to transportation systems for all people. (City of Lakewood Comprehensive Plan (2000))

- Improve
- Protect
- Maintain
Transportation – Infrastructure Improvement Priorities
Improve

- **Grant Dollars Awarded**
  - $31+ Million

- **Sidewalks & Bicycle Lanes**
  - 25+ miles of sidewalks added
  - 7+ miles of bicycle lanes added

- **Street lights**
  - 1,000+ street lights added

- **Traffic signals**
  - Upgrades in timing and coordination

*since incorporation (1996)
Improve

Maximizing Current Resources

- In-house vs. Outsource
  - City O&M vs. Pierce County Contract
  - City design versus consultants
  - Private contract sweeping vs. Pierce County Contract
- Preserve what we have
  - Better utility restoration standards & utility coordination
  - Video detection vs. loop detection
- Take advantage of grants to overlay roads
Protect

- Safety Improvement Projects (Motor / Whitman Signal)
- Neighborhood Traffic Control Program
- Traffic curbing
- Street lights

Motor-Whitman Traffic Signal

Angle Lane – Speed Feedback / Radar Sign

Fairlawn / 59th Traffic Circle
Maintain

Street Assets

- 181 centerline miles of roadway
- 70 traffic signals
- 25+ miles of sidewalks
- 3,000+ streetlights

$250+ Million of street assets

$190+ Million in pavement
Pavement Management

- Pavement Condition Index (0 to 100)

Pacific Hwy – New Overlay
No Maintenance Needed
PCI = 100

Detroit Ave – Chip Seal / Minor Cracking
Minor preventative maintenance
PCI = 85
Pavement Management (cont’d)

- Pavement Condition Index (0 to 100)

San Francisco Ave – Mod. Cracking
Moderate preventative maintenance
PCI = 64

Fairlawn Dr – Major Cracking
Structural Repair
PCI = 49
Pavement Management (cont’d)

- Pavement Condition Index (0 to 100)

John Dower Road – Severe Cracking
Reconstruct = Rock Base + Pavement
PCI = 17
Pavement Condition Index (PCI) Lakewood

FY 2008
City of Lakewood
Overall PCI = 74
## Pavement Condition Index (PCI) – Comparisons (FY 2008)

<table>
<thead>
<tr>
<th>City</th>
<th>Average PCI</th>
<th>Centerline Miles</th>
<th>Annual Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lakewood</td>
<td>74</td>
<td>181</td>
<td>$1,000,000*</td>
</tr>
<tr>
<td>Redmond</td>
<td>84</td>
<td>130</td>
<td>$600,000</td>
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<tr>
<td>Federal Way</td>
<td>79</td>
<td>225</td>
<td>$2,250,000</td>
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<tr>
<td>Des Moines</td>
<td>75</td>
<td>93</td>
<td>$630,000</td>
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<tr>
<td>Olympia</td>
<td>73</td>
<td>193</td>
<td>$1,200,000</td>
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<tr>
<td>Kirkland</td>
<td>67</td>
<td>147</td>
<td>$1,400,000</td>
</tr>
<tr>
<td>Tacoma</td>
<td>53**</td>
<td>855</td>
<td>$3,700,000**</td>
</tr>
</tbody>
</table>

*This figure is based on FY2008 with $600,000 in overlays and $400,000 for chip sealing and patching.

** FY2007
Pavement Management (cont’d)

Generic Pavement Deterioration Curve
Adapted from: Road Surface Management for Local Governments
FHWA, DOT-1-85-37
Pavement Management – Example
108th Street – Main St. to Bridgeport Way

In 2008: Cost = $270,000
Improve PCI from 58 to 100.

In 2011: Cost = $540,000
Improve PCI from 29 to 100.
Pavement Condition Index History

ANNUAL $ NEED (to maintain current PCI)
ACTUAL ANNUAL EXPENDITURES
PAVEMENT CONDITION INDEX
Transportation Revenue – Operation & Maintenance
Transportation Revenue – Capital Improvements

Transportation Revenue - Capital Improvements

[Bar chart showing annual revenue from various sources such as SWM Xfer In, LIDs, Grants & Donations, REET, Motor Vehicle Fuel Tax, Motor Vehicle License Fee, Utility Taxes / Fees & Permits, General Fund Xfer In, and Revenue minus grants, LIDs, & SWM for the years 1997 to 2011.]
Transportation Revenue vs. Costs to Maintain Street System

O&M
Revenues vs. Costs to Maintain
(2011 to 2020)
Transportation Revenue vs. Planned Improvement Costs

CAPITAL Revenues vs. Planned Improvement Costs (2011 to 2020)
Transportation – Challenges and Opportunities

Challenges

1) Pavement condition has deteriorated below cost effective standards and continues to deteriorate

2) Drop in revenue
   Unable to fund pavement management
   Unable to fund capital improvements (grant match)

3) Grant Awards In-hand
   South Tacoma Way – gap completion ($3.0+ Million grant)
   Bridgeport Way – gap completion ($3.0+ Million grant)
City Budget
General Fund + Street O&M

Public Safety, $19,656,590, 49.4%

Street O&M**, $2,638,230, 6.6%

Nondepartmental*, $5,862,390, 14.7%

Facilities Maintenance, $827,660, 2.1%

City Council, $113,130, 0.3%

Municipal Court, $1,344,430, 3.4%

City Manager/Executive, $489,100, 1.2%

Finance/IS, $2,377,400, 6.0%

Legal, $1,495,670, 3.8%

Community Development, $1,899,380, 4.8%

Human Resources, $542,540, 1.4%

Parks & Recreation, $2,083,230, 5.2%

Fleet Maintenance, $80,360, 0.2%

Community Relations & ED, $349,520, 0.9%
Questions?