

**CITY COUNCIL WORK SESSION
JULY 7, 2014, 6:00 PM
NEWBERG PUBLIC SAFETY BUILDING (401 EAST THIRD STREET)**

WORK SESSIONS ARE INTENDED FOR DISCUSSION. NO ACTION WILL BE TAKEN ON THE AGENDA ITEMS AND NO DECISIONS WILL BE MADE. NO ORAL OR WRITTEN TESTIMONY WILL BE HEARD OR RECEIVED FROM THE PUBLIC.

I. CALL MEETING TO ORDER

II. ROLL CALL

III. REVIEW OF COUNCIL AGENDA AND MEETING

IV. COUNCIL ITEMS

Presentation from engineering and consultants on the 2014 Pavement Condition Evaluation and Street Maintenance Prioritization Plan.

V. ADJOURNMENT

ACCOMMODATION OF PHYSICAL IMPAIRMENTS:

In order to accommodate persons with physical impairments, please notify the City Recorder's Office of any special physical accommodations you may need as far in advance of the meeting as possible and no later than 48 business hours prior to the meeting. To request these arrangements, please contact the city recorder at (503) 537-1283. For TTY service please dial 711.

THIS PAGE INTENTIONALLY LEFT BLANK



MEMORANDUM

ENGINEERING SERVICES DEPARTMENT

P.O. Box 970 • 414 E. First Street • Newberg, Oregon 97132 • Tel 503.537.1240

TO: Newberg City Council

CC: John Duval, PE, and Lindsy Hammond, PE, Pavement Services, Inc.
Jay Harris, PE, Interim Public Works Director

FROM: Paul Chiu, PE, Senior Engineer/Project Manager *Paul Chiu*

SUBJECT: A Council Work Session Presentation of the 2014 Pavement Condition Evaluation & Street Maintenance Prioritization Plan by the Consultant

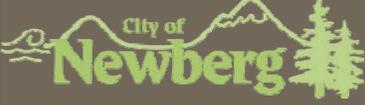
DATE: July 7, 2014

The City of Newberg needs a comprehensive roadway asset management program that keeps track of, and for the maintenance and replacement of the city's existing right of way infrastructure that includes, but not limited to, the city's pavement, street trees and sidewalk facilities. City Council is supportive of this right of way infrastructure preservation effort after the needs were presented to the council at the meeting on May 6, 2013.

The city subsequently hired Pavement Services, Inc. (PSI) to perform the pavement condition evaluation and prioritization project in November, 2013. The work to evaluate the pavement condition and to prioritize street maintenance has now been completed.

At this Council work session, PSI is presenting the pavement condition evaluation and street maintenance prioritization plan ("plan") with more details. Engineering staff will be presenting the plan to the Council for approval at its meeting later this evening. The entire plan will be available on the city's website, subject to City Council's approval.

Please feel free to ask questions during and after the powerpoint presentation. Thank you.



Pavement Management System Implementation Findings

City Council Meeting

July 7, 2014

PAVEMENT SERVICES, INC.
John Duval, P.E.
Lindsí Hammond, P.E.

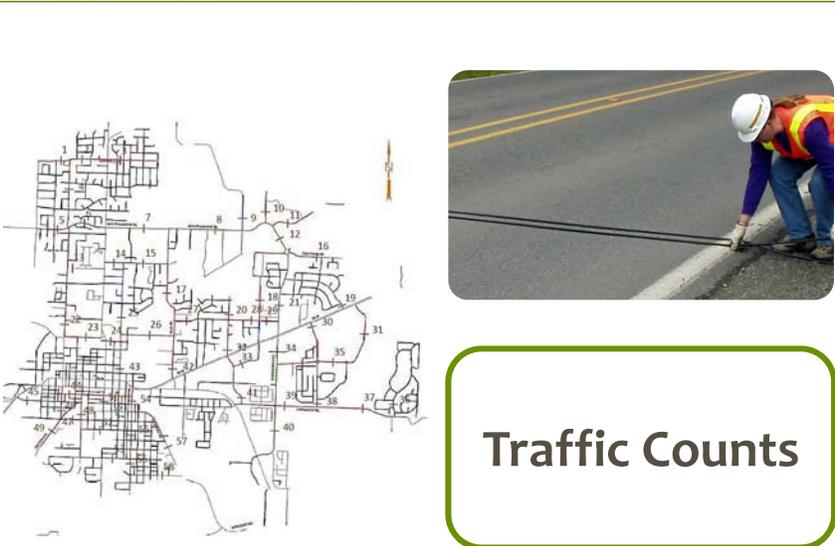


Project Details

- ◆ **Pavement Coring**
 - ◆ Create a database of the City's pavement structure
 - ◆ Fill in the gaps where there is no information on the asphalt and base aggregate thickness
- ◆ **Traffic Counts**
 - ◆ Collect Traffic Count Data at 60 locations and update vehicle classification
 - ◆ Validate the Federal Functional Classification (FFC)
 - Minor Arterial
 - Major Collector
 - Minor Collector
- ◆ **Pavement Management System Implementation**
 - ◆ Pavement Condition Index (PCI) Survey
 - ◆ Budgetary Analysis
 - ◆ Project Development
- ◆ **Newberg has 65.5 miles of paved streets (or 131 lane miles)**
- ◆ **Street Network Replacement Value is Approximately \$150 million**



7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



Traffic Counts

FFC Update Recommendations

Based on traffic counts results and the current FFC we recommend that the following classifications be updated.

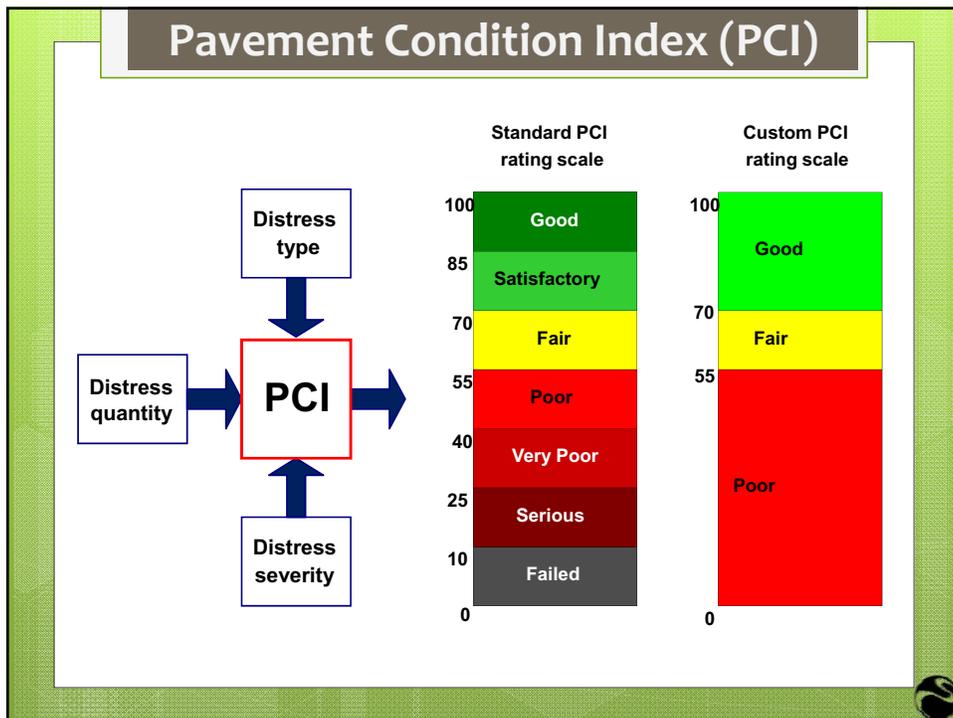
Street	From	To	Current FFC	Recommended FFC
Haworth St	Villa	Springbrook	Major Coll.	Minor Artl.
Villa Rd	Haworth	Hwy 99	Major Coll.	Minor Artl.
River St	Wynooski	Hwy 99	Major Coll.	Minor Artl.
Hayes St	Elliott	Hwy 99	Minor Coll.	Major Coll.
Meridian St	Vermillion	Hwy 99	Minor Coll.	Major Coll.
9 th St	River	Blaine	Minor Coll.	Major Coll.
5 th St	Blaine	Dayton	Residential	Major Coll.
Foothills Dr	Hwy 219	East End	Major Coll.	Minor Coll.
Crestview Dr	Roundabout	Libra	Major Coll.	Minor Coll.
The Greens Ave	Argyle	Masters	Residential	Minor Coll.
6 th St	River St	Blain St	Residential	Minor Coll.
Aspen Way	Mountainview	North City Limits	Minor Coll.	Local

Pavement Management System Implementation

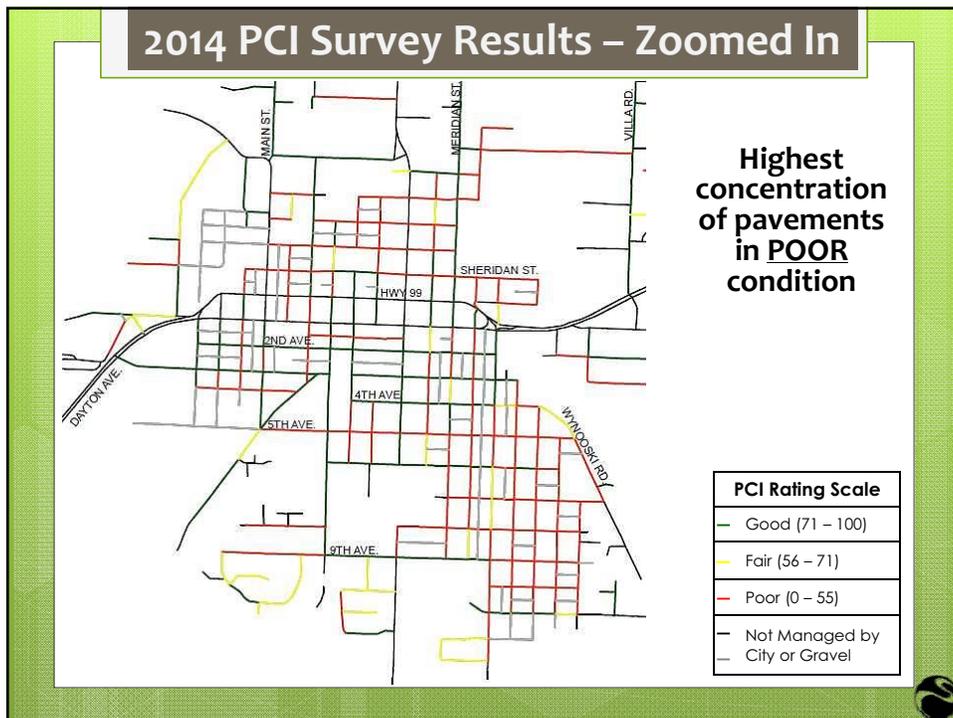
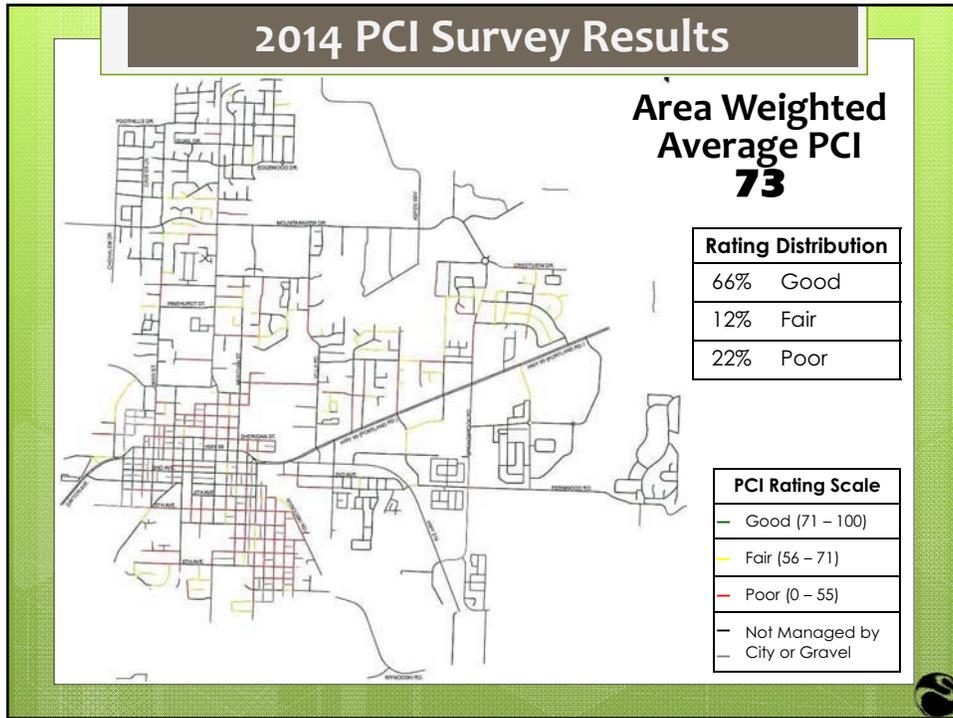
MicroPAVER Implementation Steps

- ◆ Develop and organize the pavement **inventory**
- ◆ Assess the current **condition** of pavements
- ◆ Develop models to **predict** future conditions
- ◆ Report on past and predict future pavement **performance**
- ◆ Develop scenarios for **Maintenance & Repair (M&R)** based on budget or condition requirements
- ◆ Plan **Projects**

7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



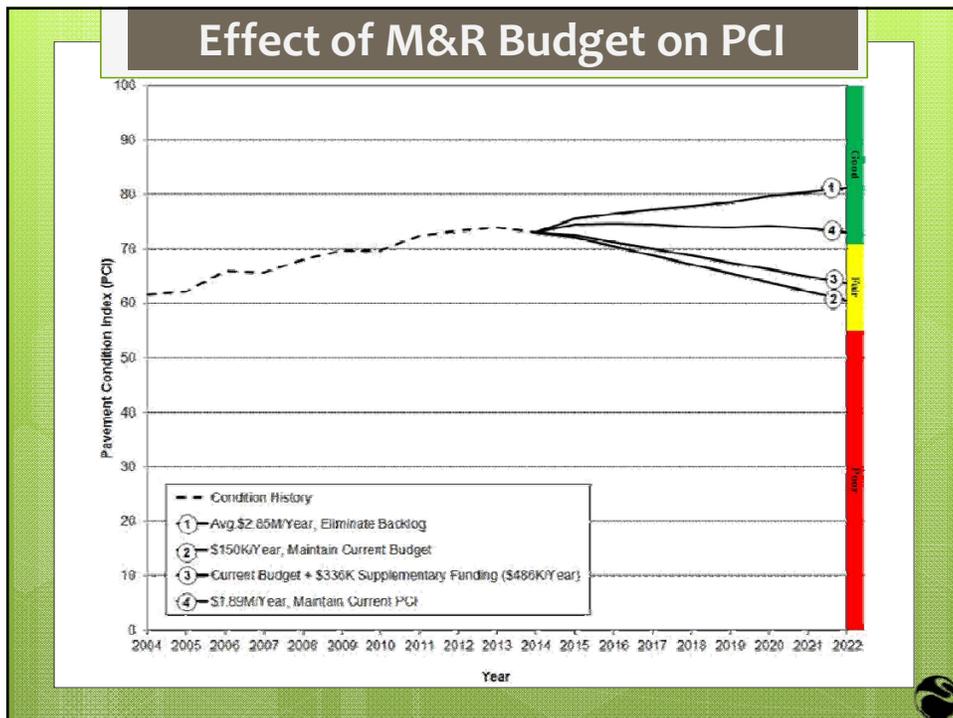
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



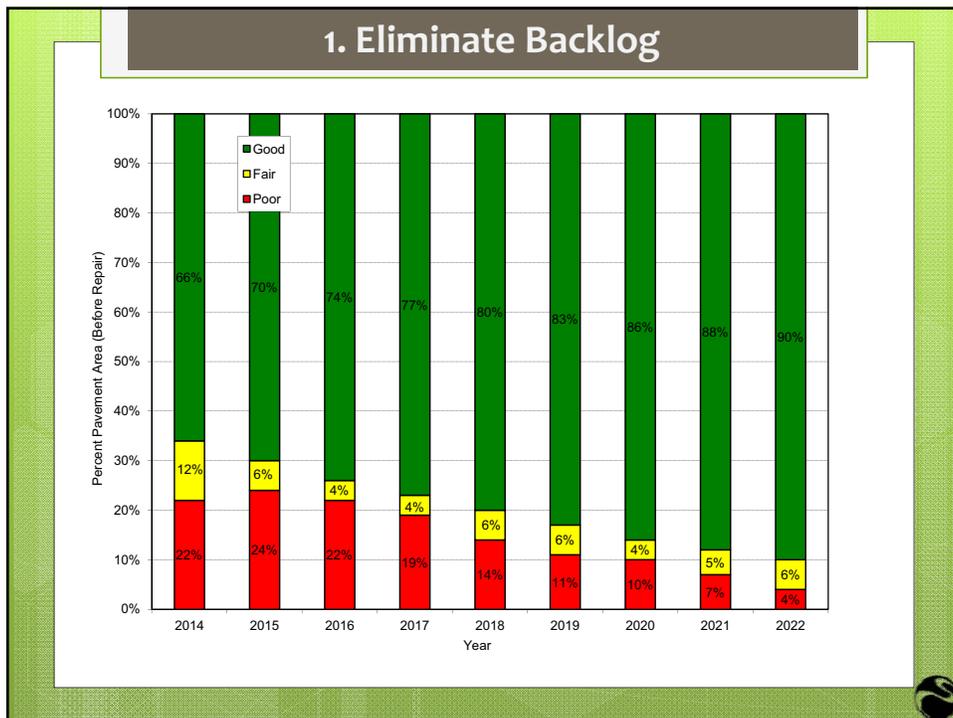
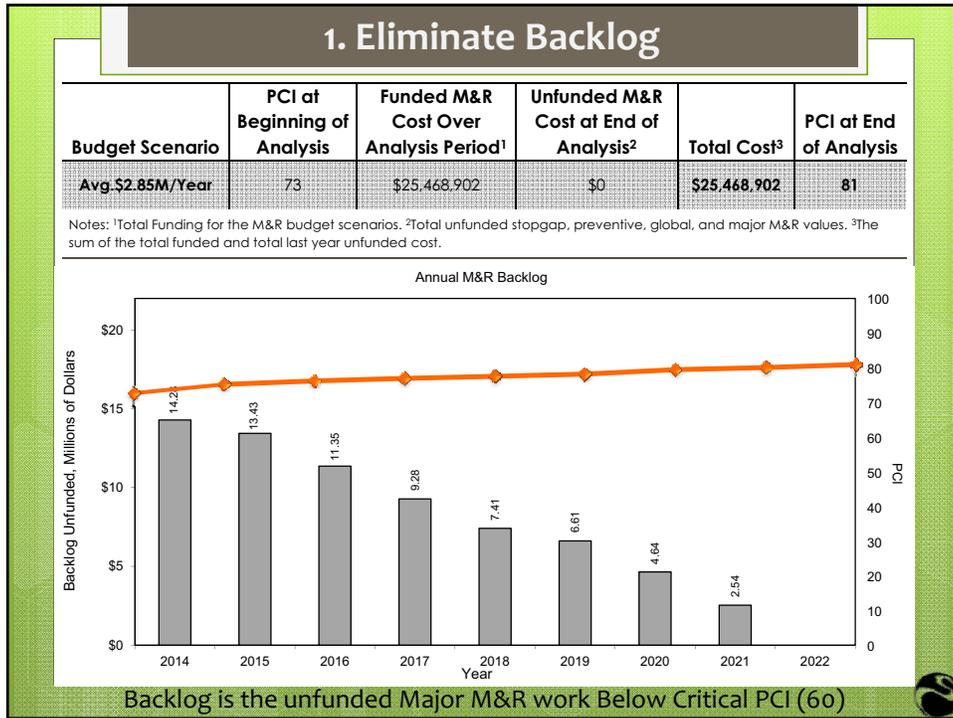
Budget Analysis & Maintenance & Repair (M&R) Work Planning

Budget Scenarios (2014 – 2022)

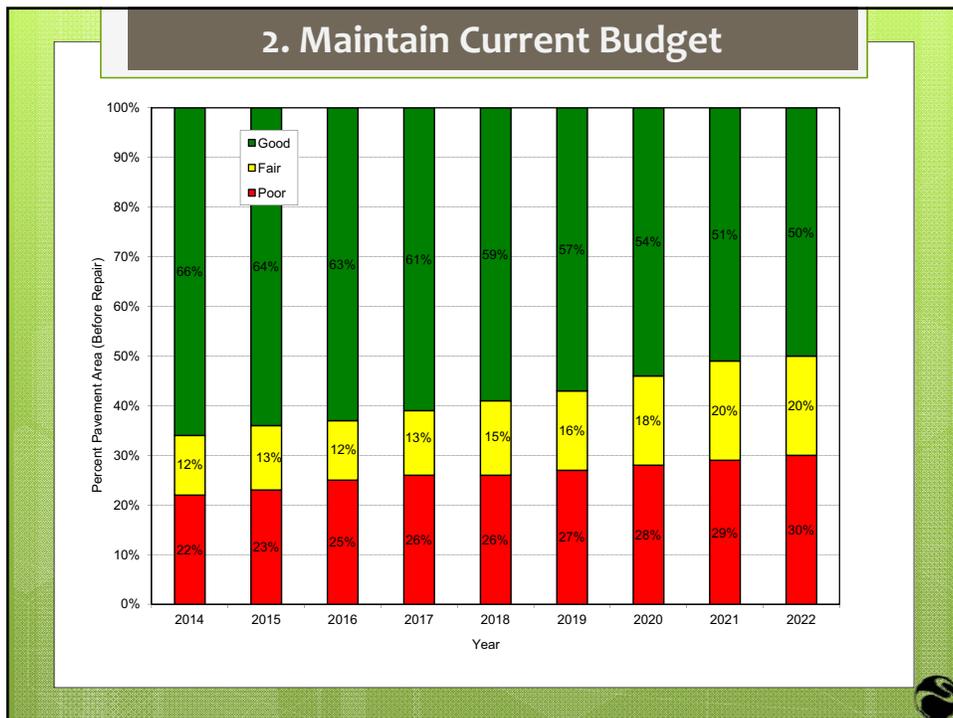
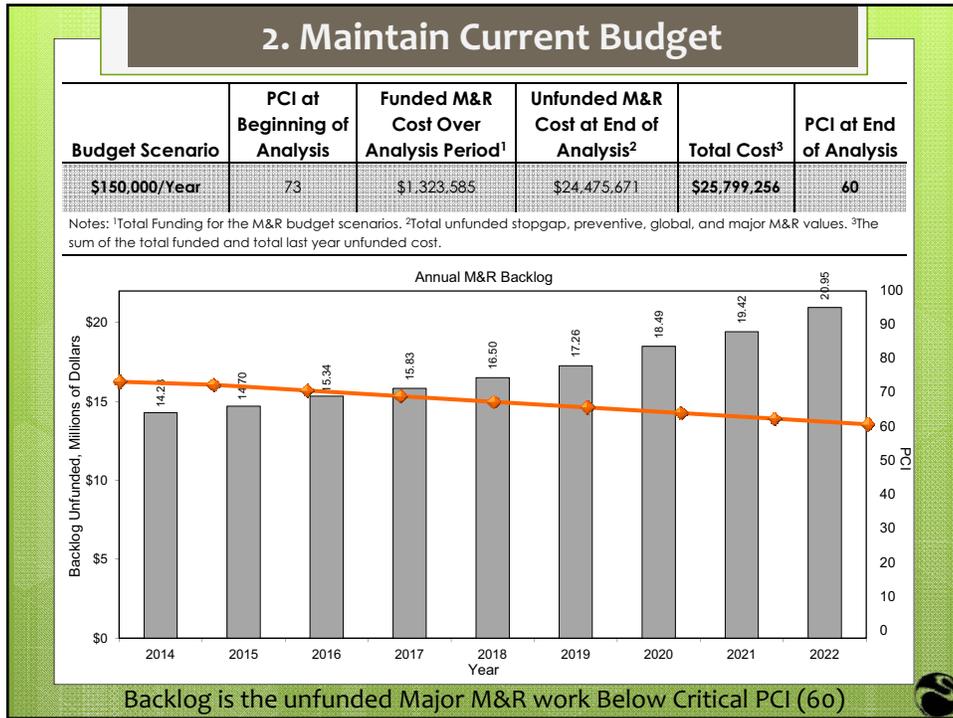
1. Eliminate Backlog in 7 years
 - \$2.85M/year
2. Maintain Current Budget
 - \$150,000/year
3. Current Budget plus Supplementary Funding
 - \$486,000/year
4. Maintain Current Condition
 - \$1.87M/year



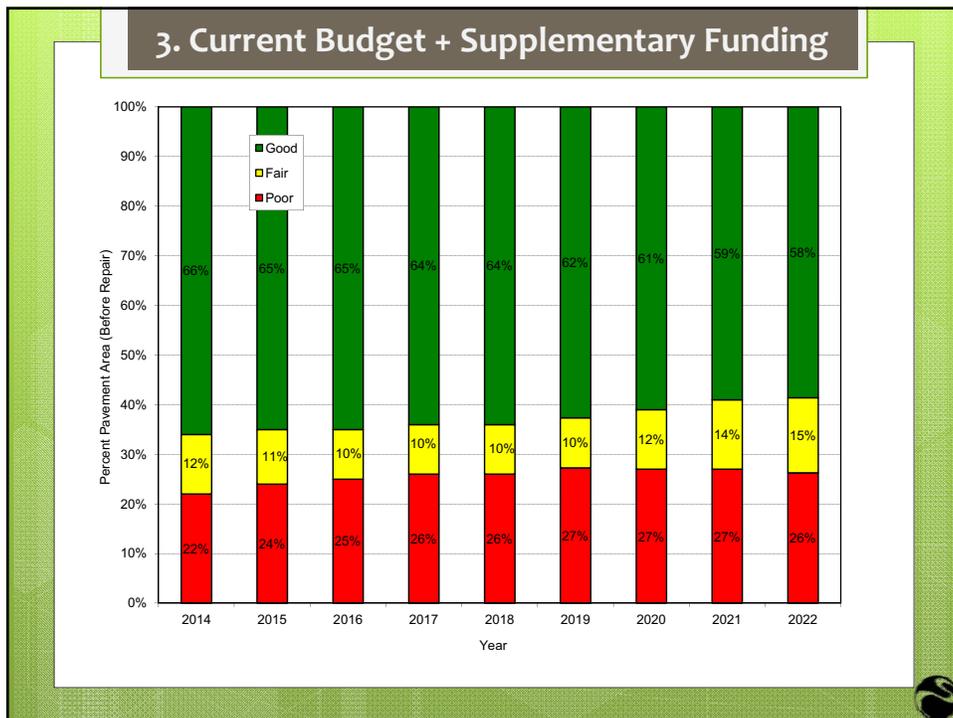
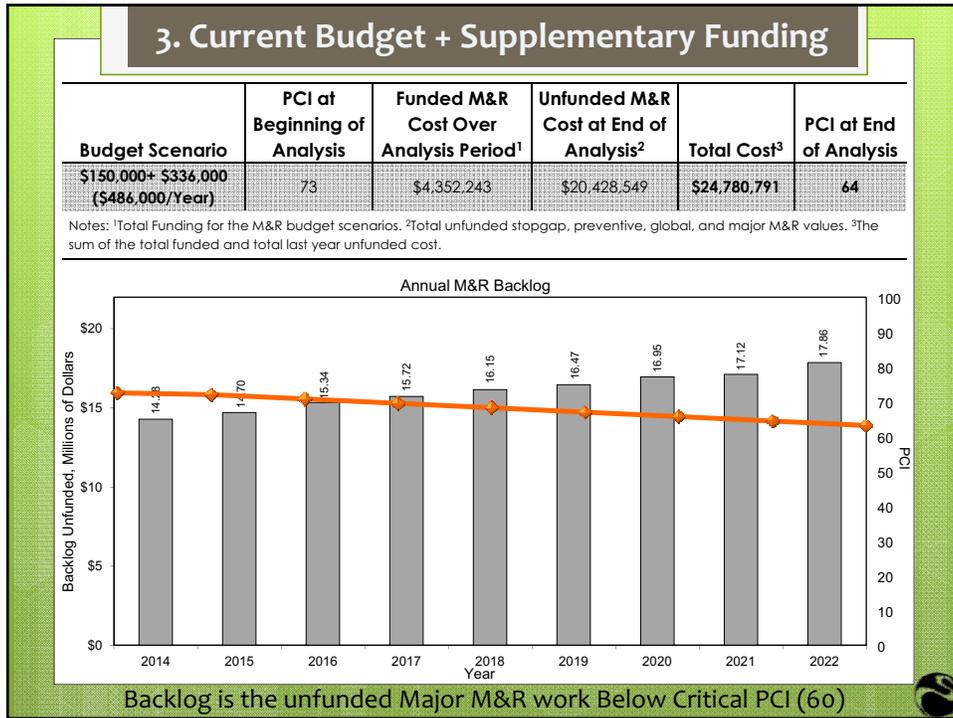
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



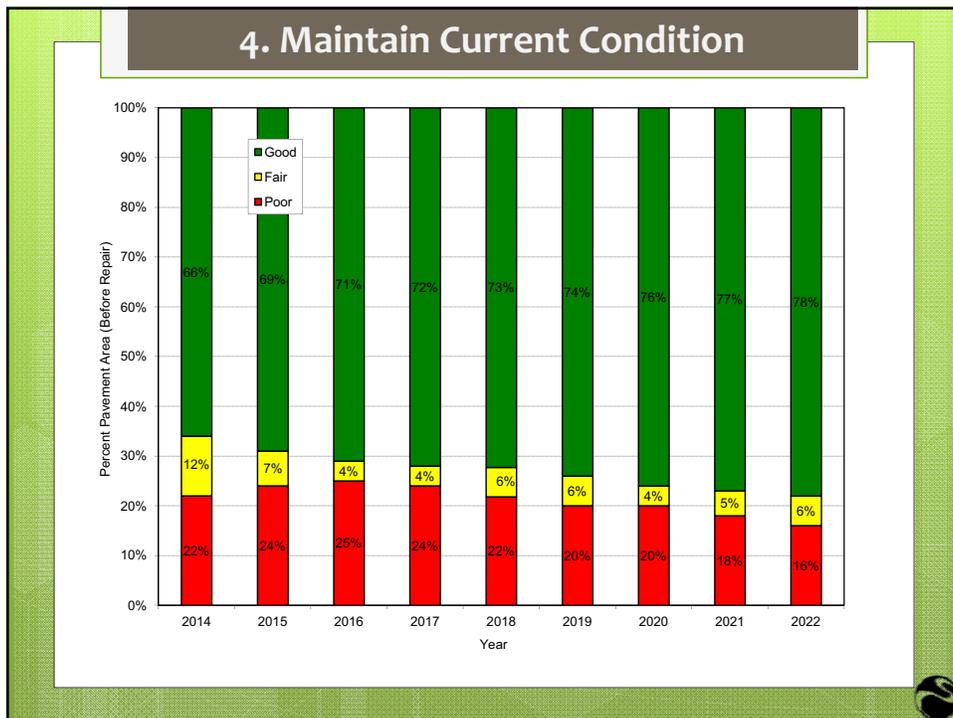
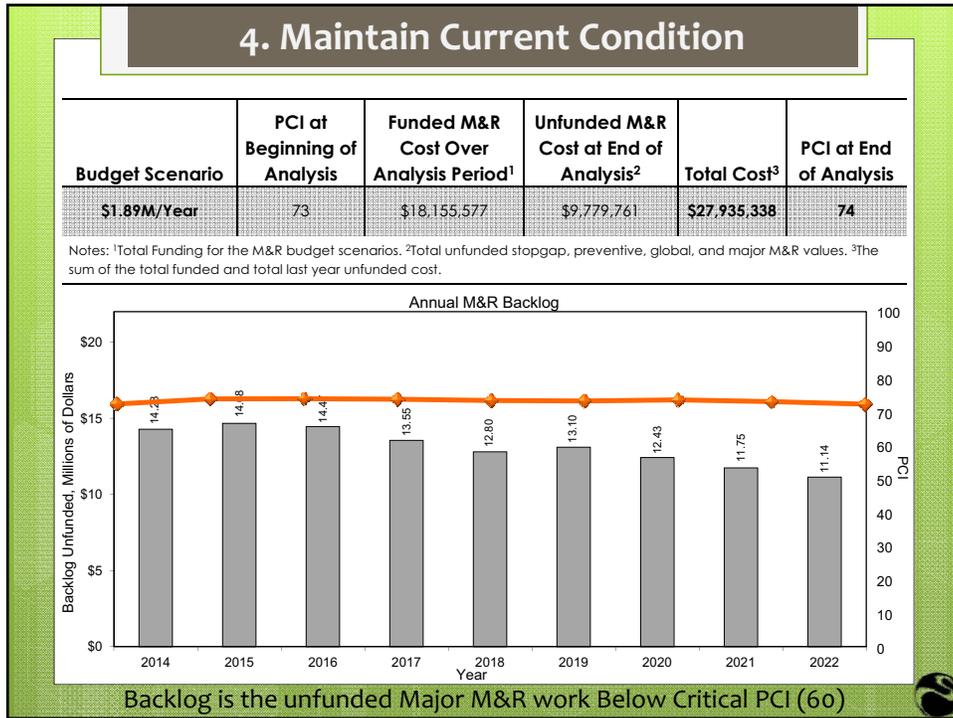
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



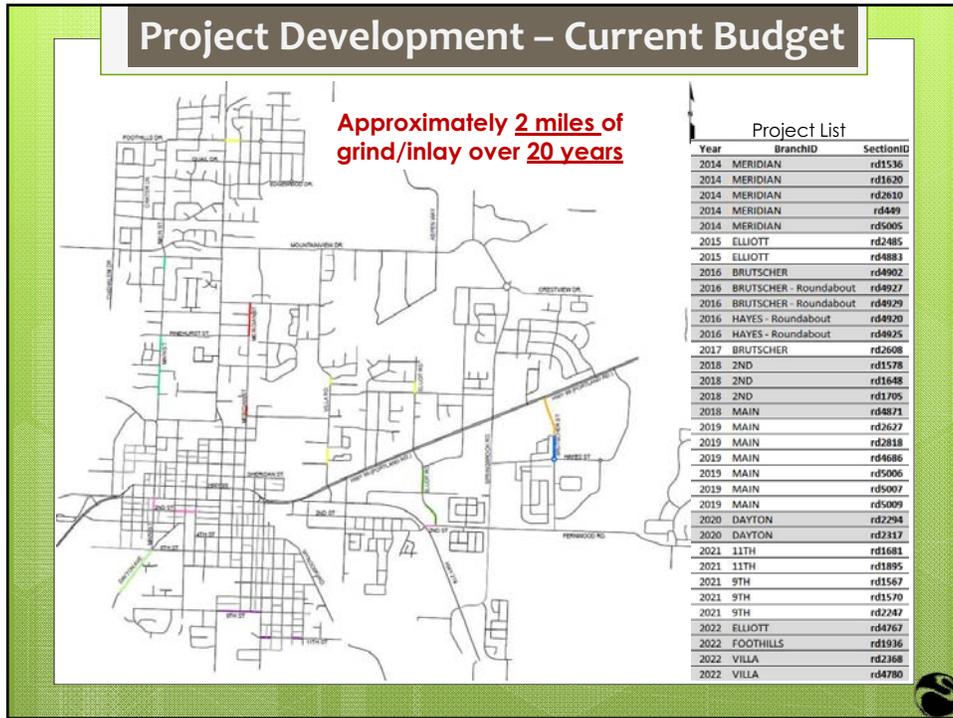
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



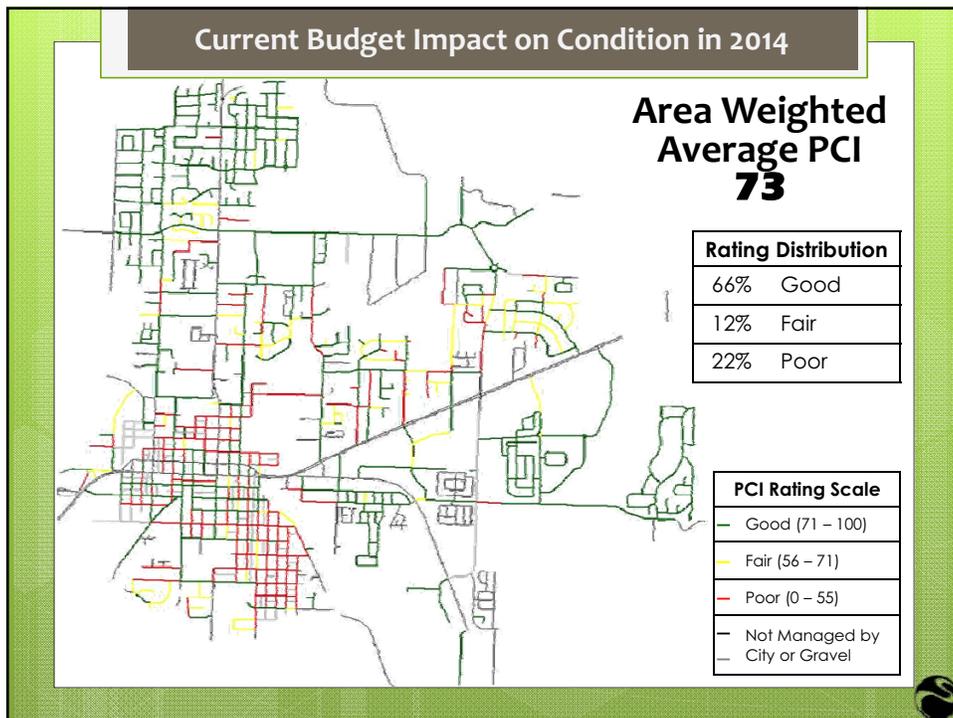
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



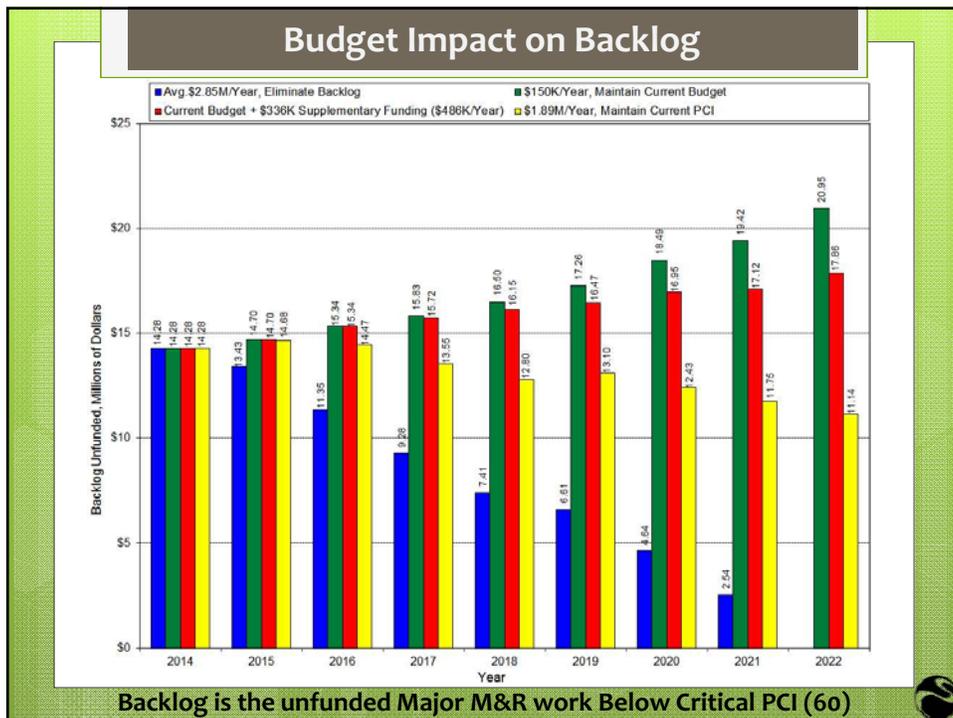
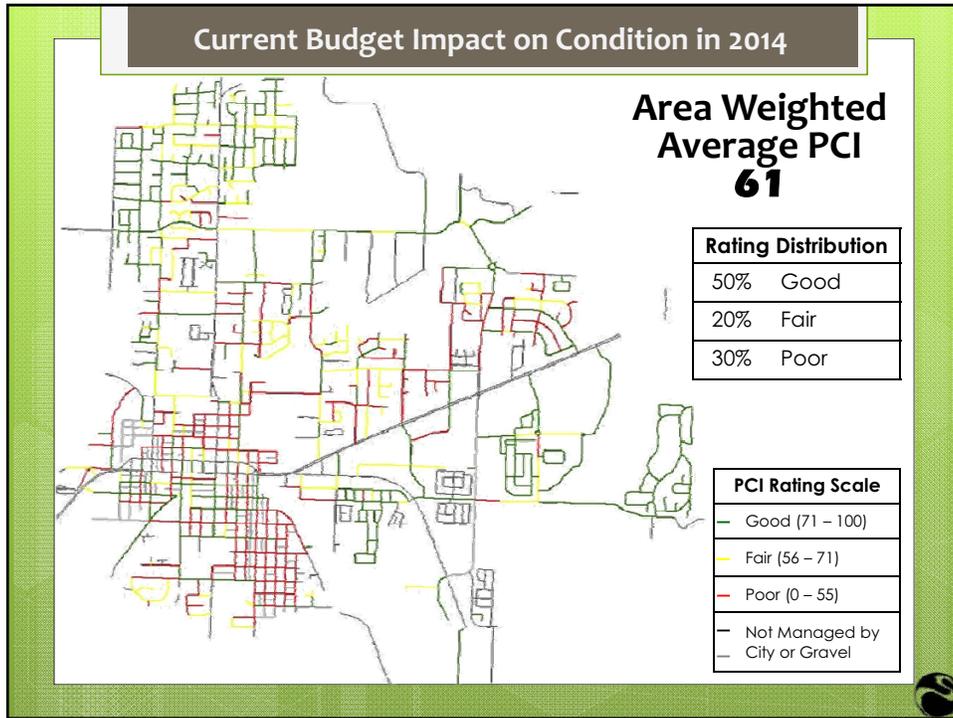
7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



7/7/14 Council Work Session reviewing:
The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
prior to adoption of Resolution No. 2014-3156



7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156



7/7/14 Council Work Session reviewing:
 The Pavement Conditions Evaluation & Street Maintenance Prioritization Plan
 prior to adoption of Resolution No. 2014-3156

Food for Thought... Supplementary Funding Options/Ideas

Gas Tax

Bond Measures

Utility Fee

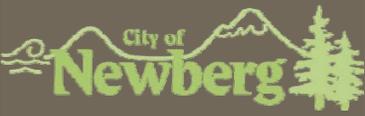
User Fee

*Public-Private
 Partnership*

What are
 your
 neighbors
 doing? →

City	Population	Number Centerline Miles	Street Maintenance Funding Mechanism
Canby	16,000	54	\$5.00
Corvallis	55,000	187	\$1.36 + 0.3% per month after 2011
Eugene	158,000	533	Two voter approved bond measure
Lake Oswego	37,200	158	\$4.00
McMinnville	32,500	100	Transportation System Development Charge (TSDC)
Milwaukie	20,400	74	\$3.35
Oregon City	32,800	134	\$11.56
Sherwood	18,300	54	\$2.00
Tigard	49,800	151	\$5.83
Tualatin	26,700	78	\$4.00
West Linn	26,500	107	\$10.31
Wilsonville	20,500	62	\$4.00





Questions?

Thank You

July 7, 2014

PAVEMENT SERVICES, INC.
 John Duval, P.E.
 Lindsy Hammond, P.E.

