



CITY OF BEND

City of Bend

Pavement Management Program

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About Bend Oregon

City of Bend Transportation System



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- 936 Lane Miles
 - 20% Arterials (81-PCI)
 - 10% Collectors (80-PCI)
 - 70% Residential (75 -PCI)
- Overall network PCI of 76
- 7 Miles of Gravel Roads
- 53 Roundabouts
 - 5 new RAB's in design or construction



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City of Bend Logistical Challenges

- **Weather**

- (24hr) Temperature Swings: avg 40°-70°
- Snow + constant freeze thaw cycles
- 250 days of sunshine
- Short construction seasons

- **Population**

- Rapid growth: 106K and growing
- 2.5-3M tourists annually– more vehicles adding stress to our infrastructure and not contributing to funding repairs

- **Resources**

- Bend's central to the state (shipping)
- Limited local materials

- **Environmental Restrictions**

- Deschutes River through middle of town
- Clean Water = Good Beer
- Underground Stormwater Injection (UICs)



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2.5-3M Tourist Per Year Impacting Roads Year-Round

- Hiking
- Biking
- Skiing
- Resorts
- Fishing
- Lakes
- Boating
- Kayaking
- River Rafting
- Shopping
- Food
- **BEER!!!**



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Where We Started: Assessing The Situation

- Wrong Road Wrong Treatment / Poor Material Quality
- Growth Boom / Overwhelming / Lack of Resources
- Franchise Utility Impacts
- No street maintenance focus or dedicated street maintenance funding
- Improper Construction Techniques
- Overloaded trucks on under-constructed roads
- Inadequate Standards and Specifications
- Inadequate pave back policies



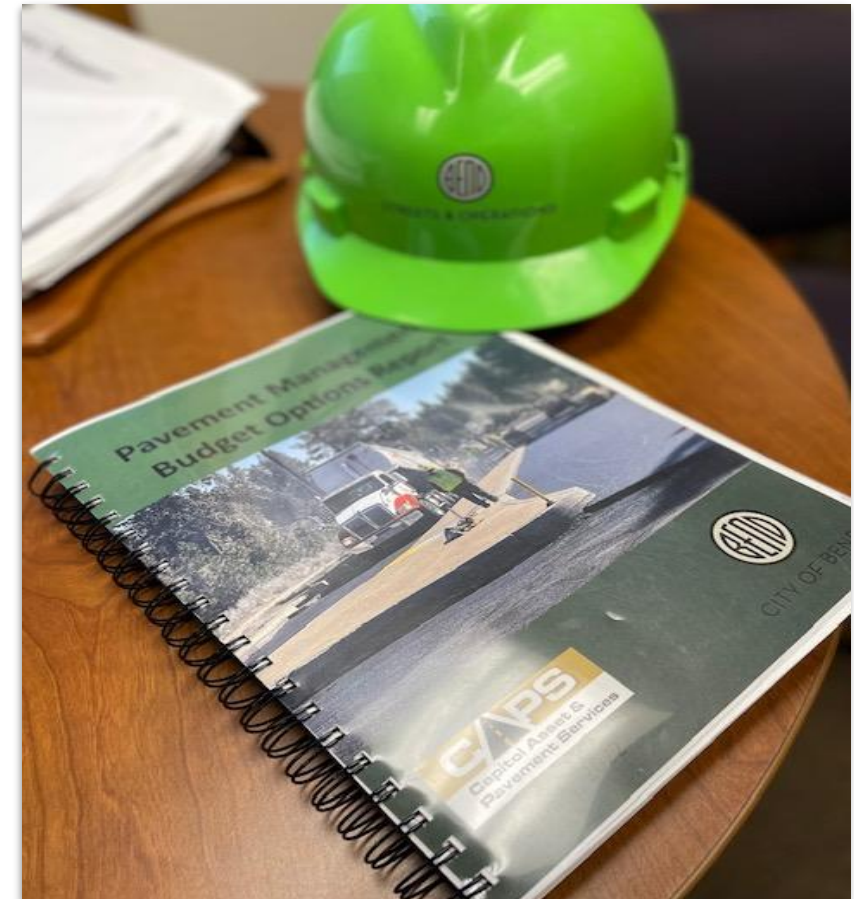
Pavement Management Program in Place, (A Must Have)

Decision Tree for a Successful Pavement Preservation Program

- PCI Report, 3rd party Inspection
- StreetSaver and Budget Option Scenarios
- Updating decision tree annually based on actuals
- 5 year list, Year 2-3 solid,
- Data Driven + Boots on the ground
- Corridor approach
- In House Design Team
- In House Inspection
- Self Performed Work (paving and concrete)



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Existing Pavement Condition

- Today: 455 Centerline miles or 936 Lane Miles of streets
- Network replacement value estimated at \$844.9 million (Street base and paved surface only)
- January 2026 Pavement Condition Index (PCI) of the City Network is 76
- Deferred Maintenance Backlog of \$81.8M over the next 5 years

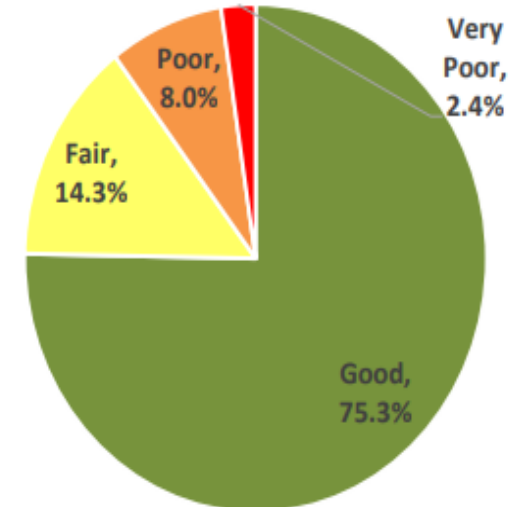
Table 2 – Street Network Statistics and Average PCI by Functional Class

Functional Class	# of Sections	Centerline Miles	Lane Miles	Average PCI
Arterial	630	68.2	160.2	81
Collector	392	37.5	78.5	80
Residential	4,291	330.4	661.6	75
Totals	5313	436.1	900.2	76

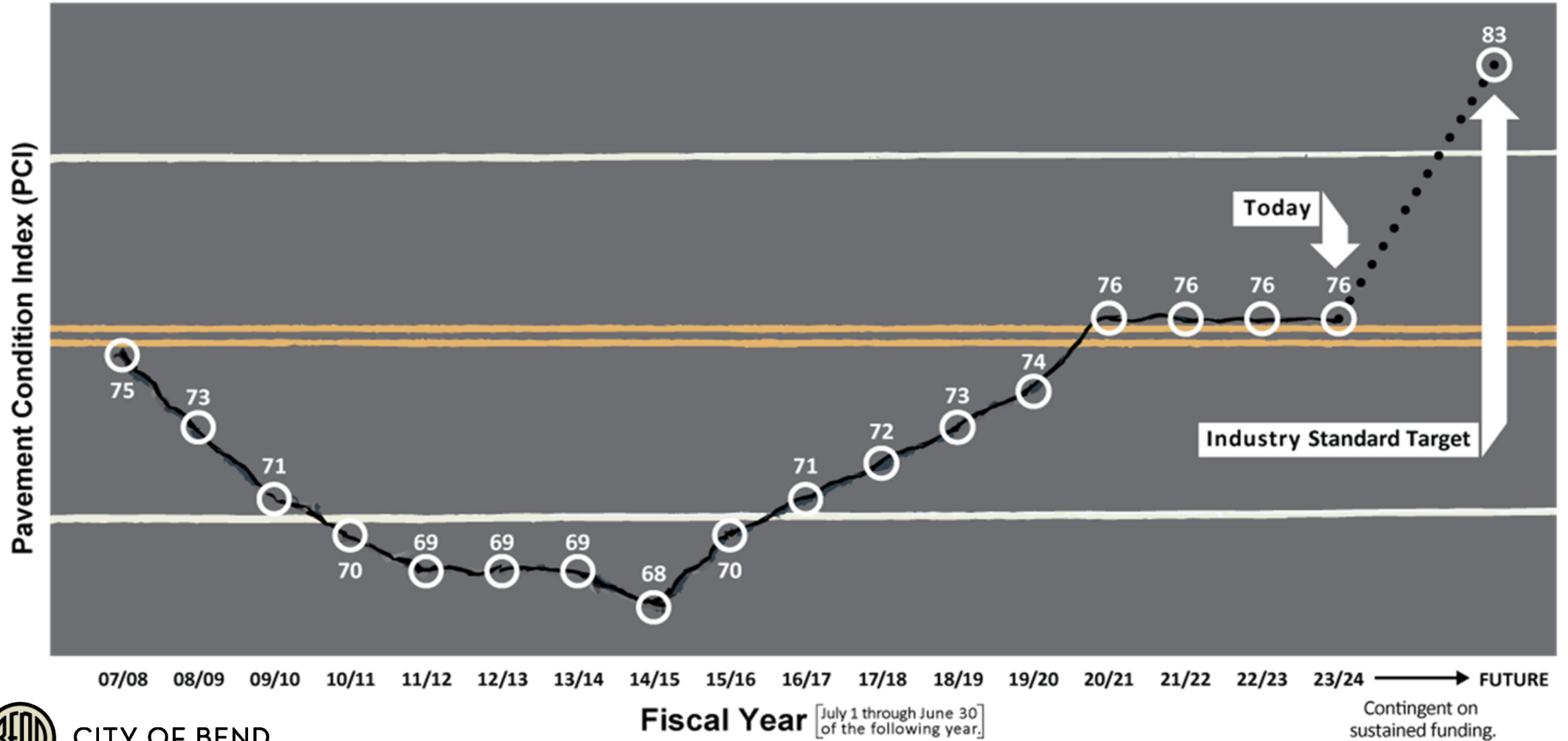
Table 3 and Figure 2 details the percentage of the street network area by each PCI range or condition category.

Table 3 and Figure 2 – Percent Network Area by Functional Class and Condition

Condition Class	PCI Range	Arterial	Collector	Residential	Total
Good (I)	70-100	17.4%	7.6%	50.3%	75.3%
Fair (II/III)	50-70	2.1%	1.3%	10.9%	14.3%
Poor (IV)	25-50	0.4%	0.1%	7.4%	8.0%
Very Poor (V)	0-25	0.0%	0.0%	2.4%	2.4%
Totals		19.9%	9.0%	71.0%	



City of Bends PCI Journey



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Treatments in the Toolbox

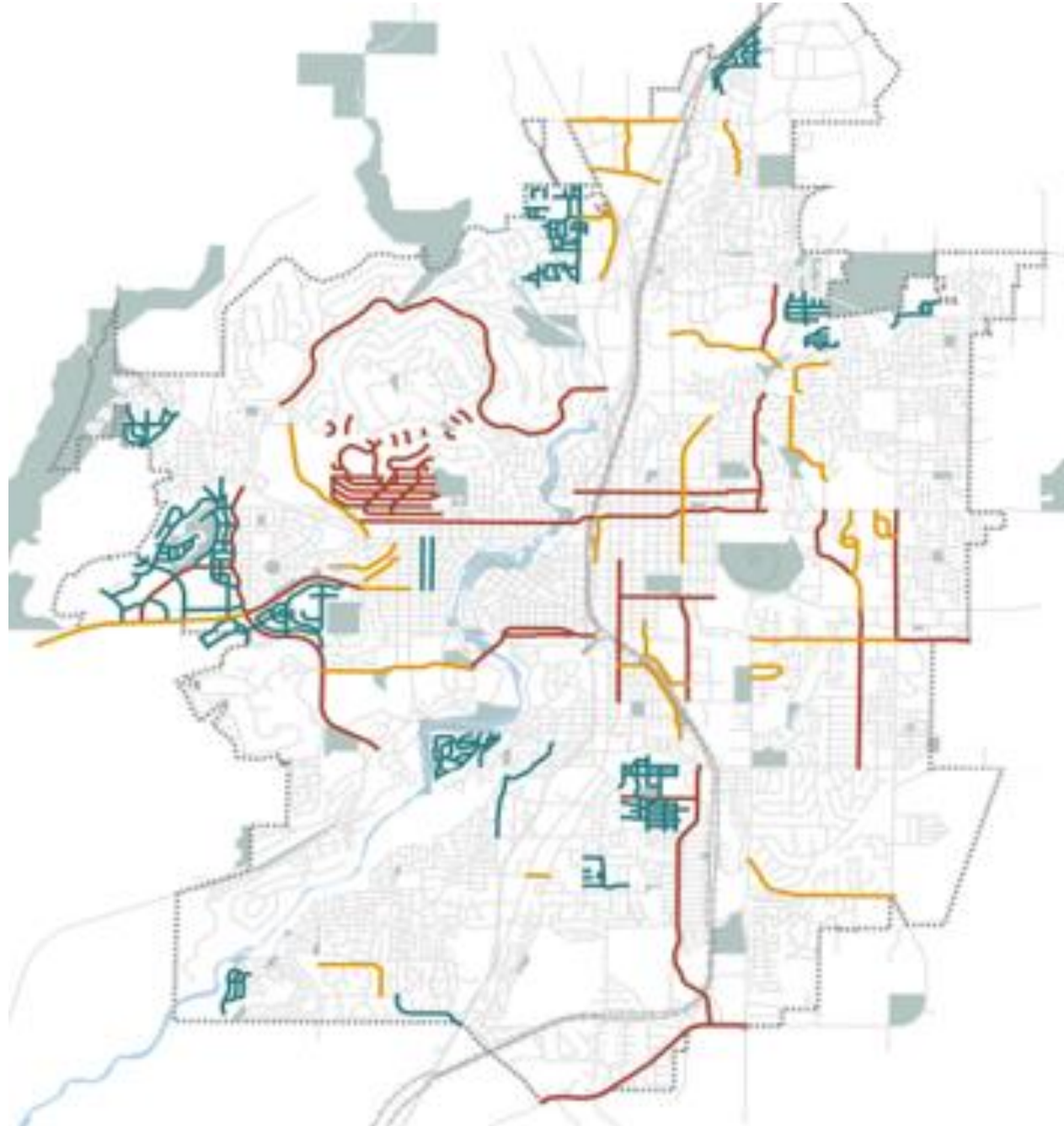
- Crack Seal Program
- Chip Seal / Contract / County MOU
- HMAC Overlay, Grind and Inlay, Contracted Work
- Self Performed Paving work
- Concrete Paving, RAB Reconstruct
- Full Depth Reclamation
- Slurry Seal (8th year of the program)
- Rubberized Chip Seal
- Micros
- Cape Seals



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Planning / Communication

- ChipSeal
- Slurry
- Inlays Overlays



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Inspections

- Qualified Inspector, Certifications
- Pre-Construction, Set Expectations
- Submittals
 - Follow up / Follow Through
- QA/QC
 - Have a Testing Lab on Speed Dial
 - Don't be afraid to use them
- Check List
 - Check the Boxes / Cover Your Bases

Awards=Bragging Rights



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The Transportation System is a Public Investment

- Needs regular maintenance to ensure mobility, public safety, economic activity and quality of life
- Motorists, bicyclists and pedestrians: we all rely on a well-maintained system
- Mail delivery, garbage hauling, bus routes, food delivery, emergency services

