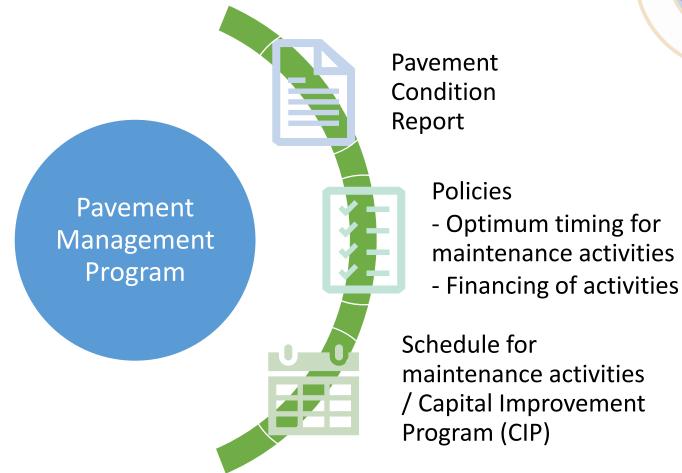
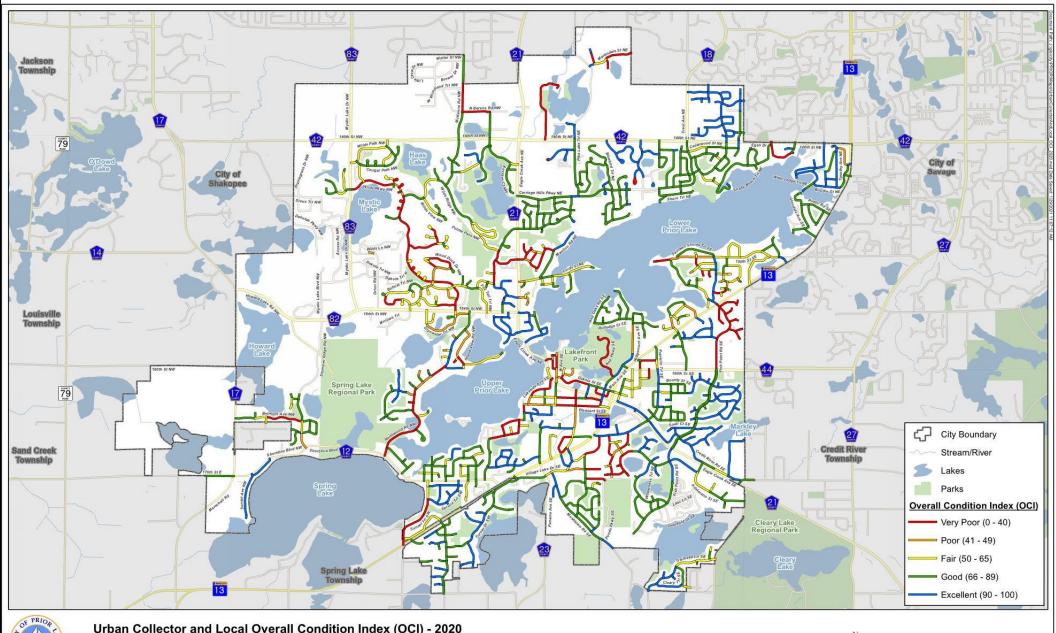
What is a Pavement Management Program?





- City streets are rated every (3) years.
- Pavement distresses (cracks, settlements, potholes) are logged for quantity and severity for each street segment.
- The type, number and severity of distresses results in an Overall Condition Index (OCI) for each street segment.
- New streets start with an OCI of 100; a completed failed street has an OCI of 0.







Urban Collector and Local Overall Condition Index (OCI) - 2020

Pavement Management Program City of Prior Lake, Minnesota







Current OCI

Condition Category	OCI Range	Percentage of Urban Local	Miles of Urban Local	Percentage of Urban Collector	Miles of Urban Collector
Excellent	90 - 100	27%	24 mi.	17%	3 mi.
Good	66 - 89	42%	38 mi.	51%	9 mi.
Fair	50 - 65	14%	13 mi.	9%	2 mi.
Poor	41 - 49	4%	4 mi.	3%	1 mi.
Very Poor	0 - 40	13%	12 mi.	20%	4 mi.

- The current Prior Lake overall street network average OCI is 71.
- The target street network average OCI is between 70 and 75. This is consistent with industry standards and other metro communities.



Northwood Road



Duluth Avenue



Dunkirk Ave (Intersection at Pershing St)



Wilds Drive

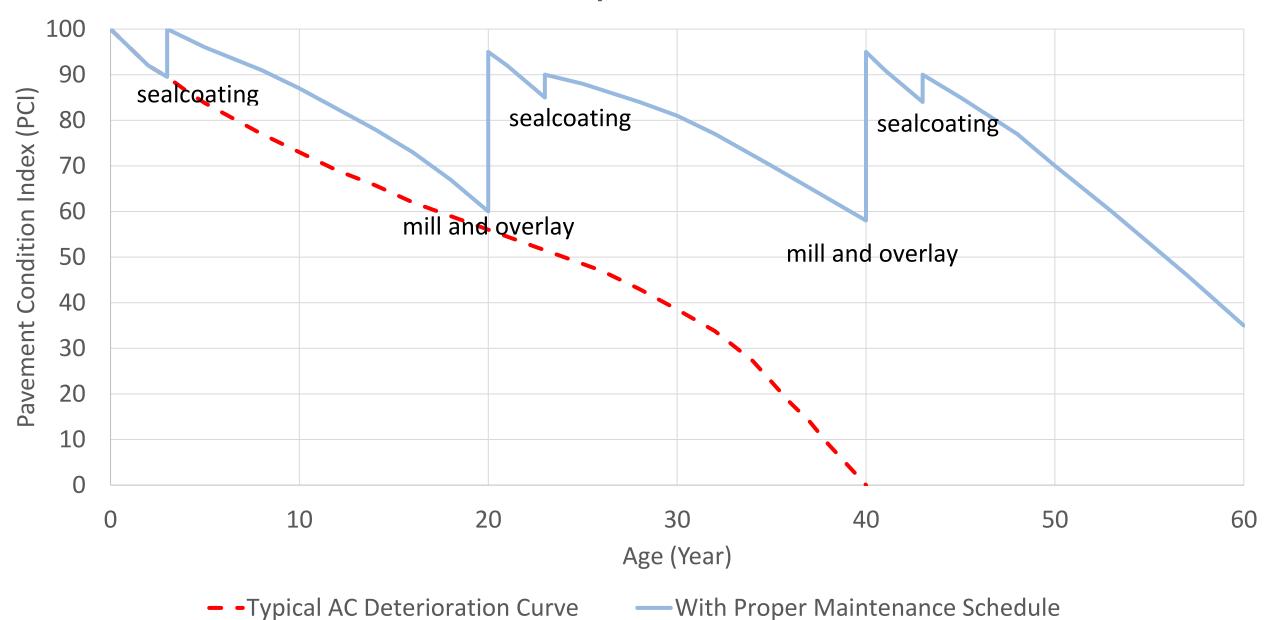


Willow Lane





Asphalt Pavement Deterioration Curve with and without Proper Maintenance Schedule



 The goal of a pavement management program is the investment of funds for maintenance activities at appropriate points in the pavement life cycle to extend the overall pavement life to 40 – 60 years before full reconstruction is required.

 Pavement management activities include crack sealing, chip seals, and mill/overlays at target OCI points in the pavement life cycle.

Pavement Management Program Maintenance Protocol

Type of Activity	OCI Range	Impact / Improvement
Reclamation / Reconstruction	0 – 40	100 OCI
Mill and Overlay	50 – 65	90 OCI
Seal Coating	First 3 years (90 – 100)	10%



- At current funding levels, the city's overall network average is projected to fall to a 55 OCI.
- The projected 20-year funding need to maintain a target overall network average OCI between 70 and 75 is \$95M; approximately \$5M per year.
- The estimated cost to recover from an overall network average 55 OCI in 20 years is between \$150M and \$200M.

Current Average Annual Funding

Type of Activity	Budget	
Reconstruction	\$2 mil	
Mill and Overlay	\$750,000	
Seal Coating	\$225,000	

Ending OCI = 55 OCI

Budget Scenario

20-Year Budget Scenario	Ending OCI	20-Year Total Costs
(\$3 mil to \$5 mil at year 2025 and maintain that budget)	71	\$95 mil

Budget C: \$3M to \$5M at year 2025

