



# DRAFT 2022-2027 TRANSPORTATION IMPROVEMENT PROGRAM

May 4, 2021  
AB5853

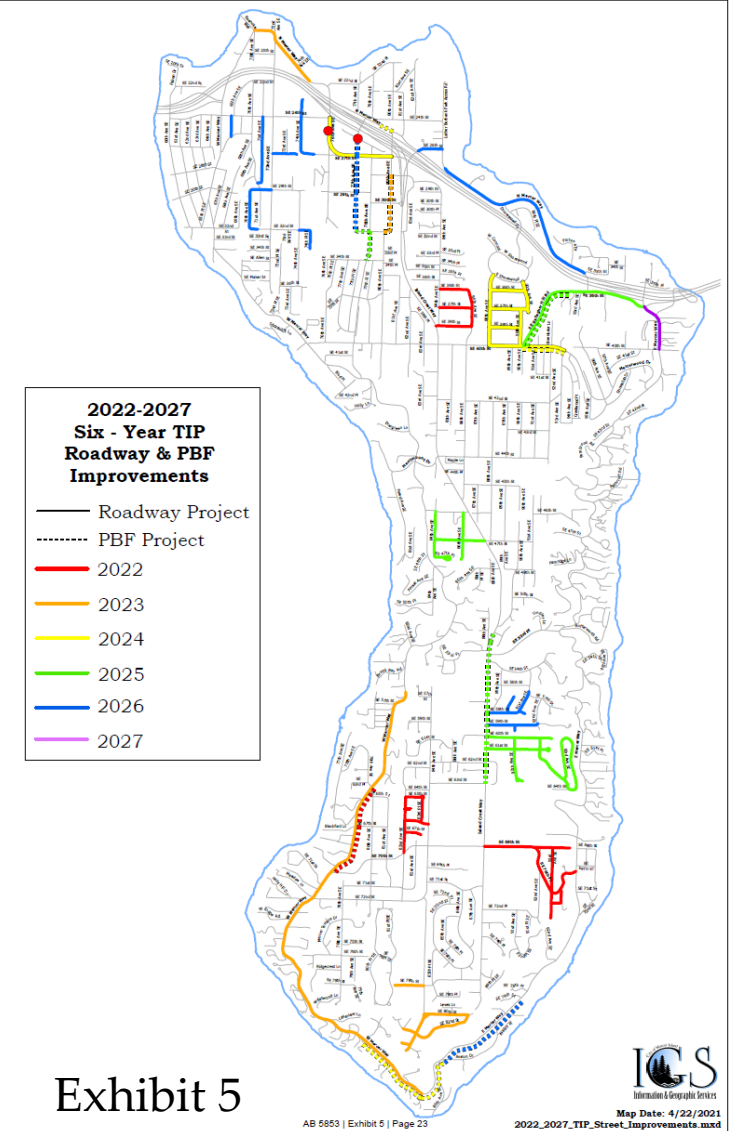
# TIP Background

- RCW 35.77 requires annual update by July 1
- Goals include
  - Reinvesting in existing infrastructure
  - Adding new facilities to increase safety/capacity
  - Maintaining positive Street Fund balance
- TIP is dynamic. Needs and issues change. Updated annually.



# Roadmap for Presentation

- Public Engagement & TIP Schedule
- Program elements
- Street Maintenance Overview (Street Engineer)
- Funding (Finance Director)
- Focus on New (4) and modified (2) projects
- Refer to agenda bill for details
  - Ex. 1 – Public Comments
  - Ex. 2 – Project list **Refer to status column** (new/modified/delayed). Mostly unchanged.
  - Ex. 3 – Street Fund Balance
  - Ex. 4 – Project descriptions
  - Ex. 5 – Project map
  - Ex. 6 – Mercer Way shoulders map



# Public Engagement

- Public Comment Period: March 24 to June 1 (10 week period)
- Can comment on previously adopted TIP, draft preliminary TIP, Council direction to staff, or suggest new projects.
- Advertisement
  - City Website
  - MI Weekly (March 24, April 14)
  - MI Reporter (March 24, March 31)
  - Let's Talk
- Comments received by April 16 are included in AB. (34 comments)
- Public comments can be submitted up to June 1.



# TIP Schedule



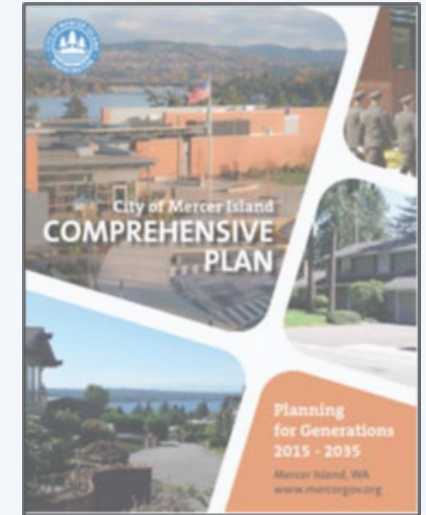
# Program Elements & Priorities

## Preservation & Maintenance (maintain what we have)

- Residential streets (58 miles, ~35 yr. cycle)
- Arterial streets (25.5 miles, ~25 yr. cycle)

## New Construction (build what we need)

- Pedestrian & bicycle facilities (PBF)
- East Link traffic/safety mitigation projects (from ST settlement funds)
- Other improvements – e.g. signals, road capacity.



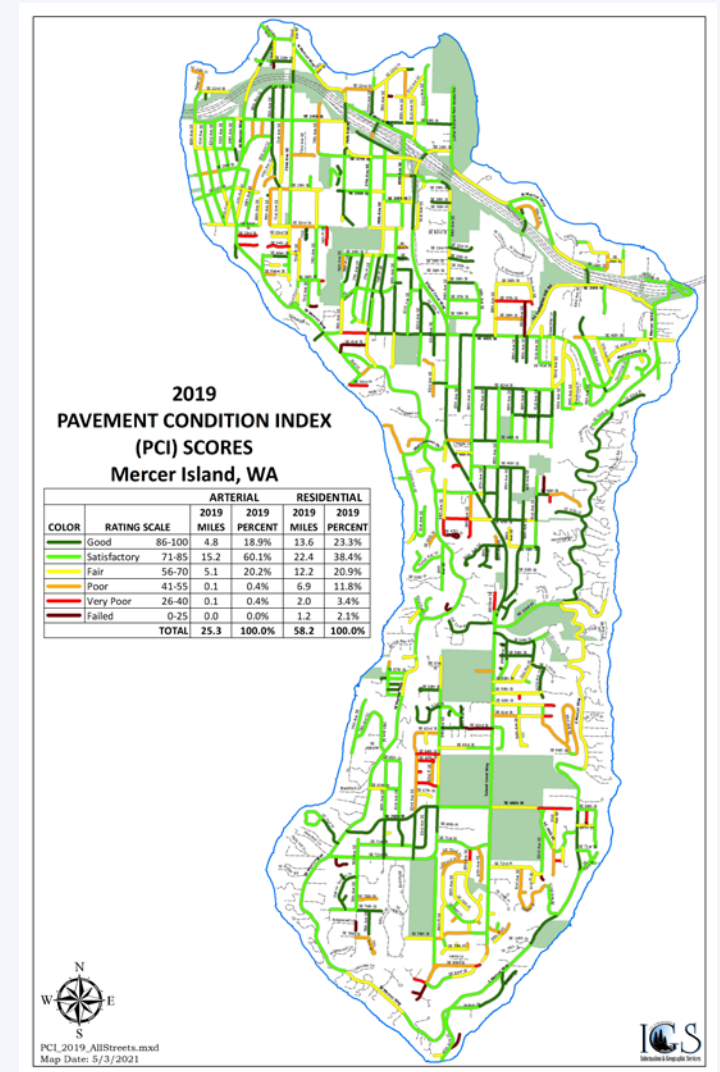
## Comprehensive Plan & CIP Budget Policies

*-Prioritize maintaining existing facilities over constructing new facilities.*



# Mercer Island Streets Overview

- 83.5 miles of City-maintained roads
- Split of 1/3 arterials, 2/3 residential
- 99% of network is asphalt pavement
- 1980's – Chip seal and slurry seal programs
- 1989 – City begins HMA overlay program
- 2011, 2013, 2018 – Chip seal projects
- Network segments are different ages, and therefore at different points in their life cycle
- Use Pavement Condition Index (PCI) to help manage pavement network



# What is Pavement Management?

Pavement Management can be defined as:

- Planning the maintenance and repair of a roadway network to **optimize pavement conditions of the overall network**.
- Applying the **proper repairs**, at the **proper time**, for the least cost.

Some planning tools:

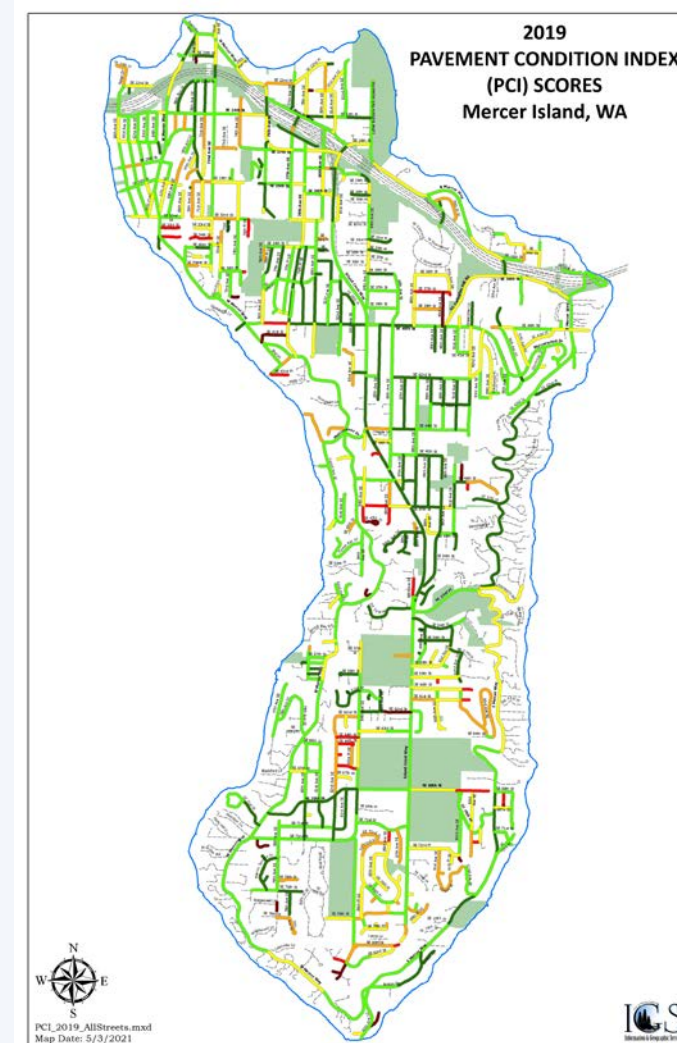
- Network inventory
- Construction history
- Pavement condition surveys
- 6-year plans (TIP, utilities)
- CIP Budget

Some repair tools:

- Patching
- Crack sealing
- Chip sealing
- Asphalt overlay
- Reconstruction



**COSTS INCREASE**



**2019 Network PCI = 74**





# Why Do Pavement Management?

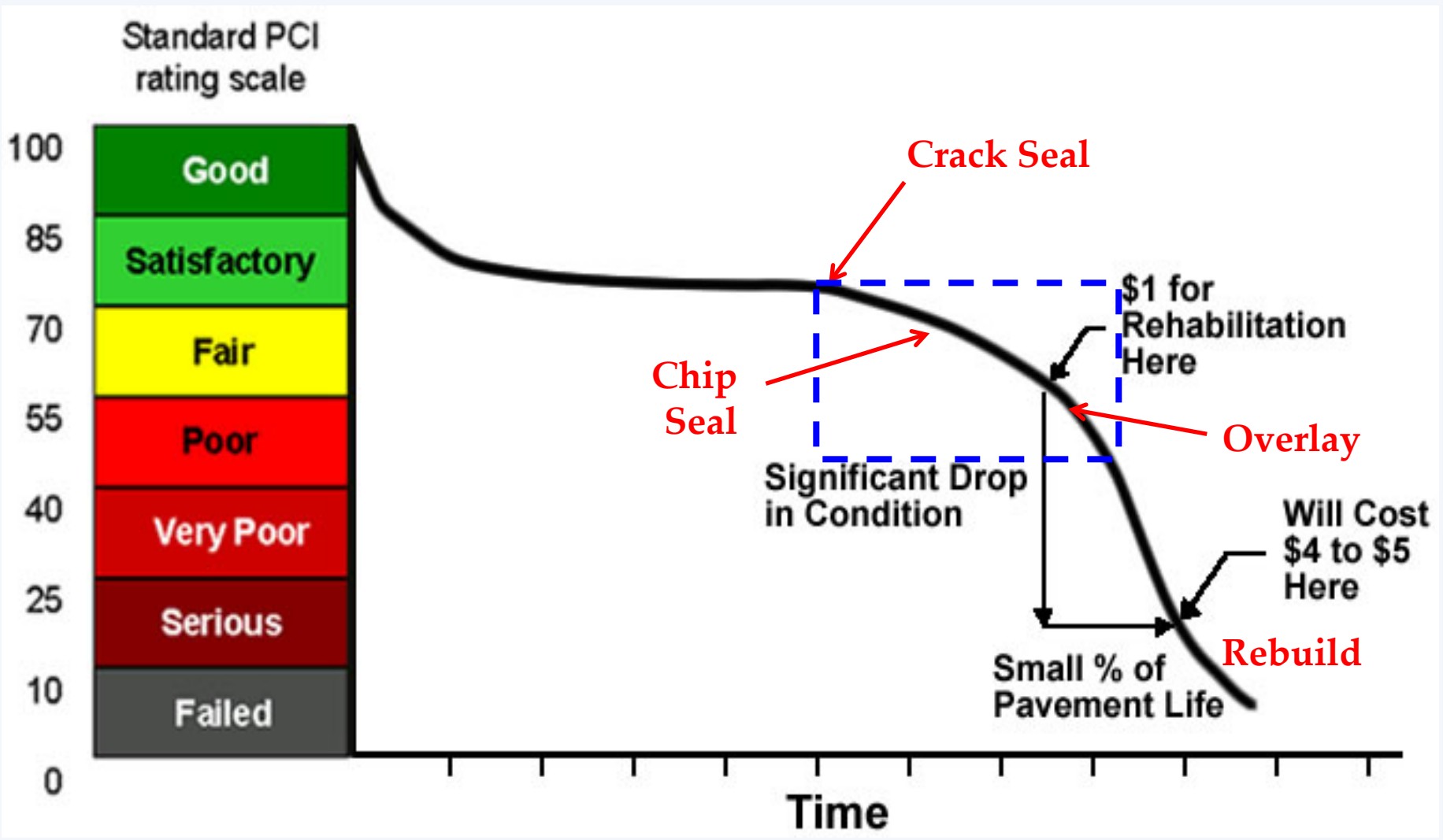
- It is much less expensive to keep a road in good condition than to rebuild it after its condition has become poor.



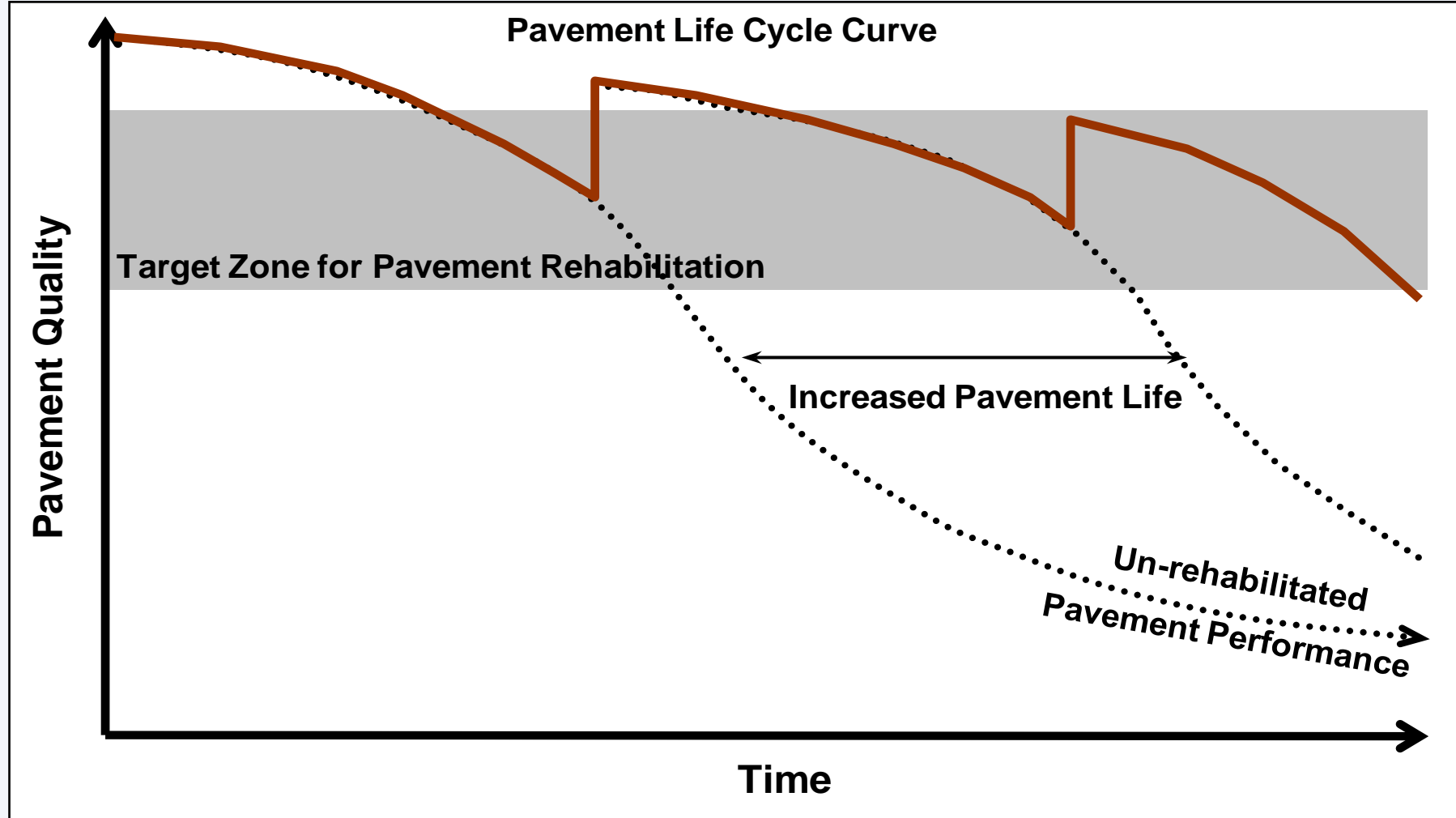
- Pavement Management's PCI data helps staff identify changes in roadway conditions and plan future work.



# Pavement Life Cycle Curve

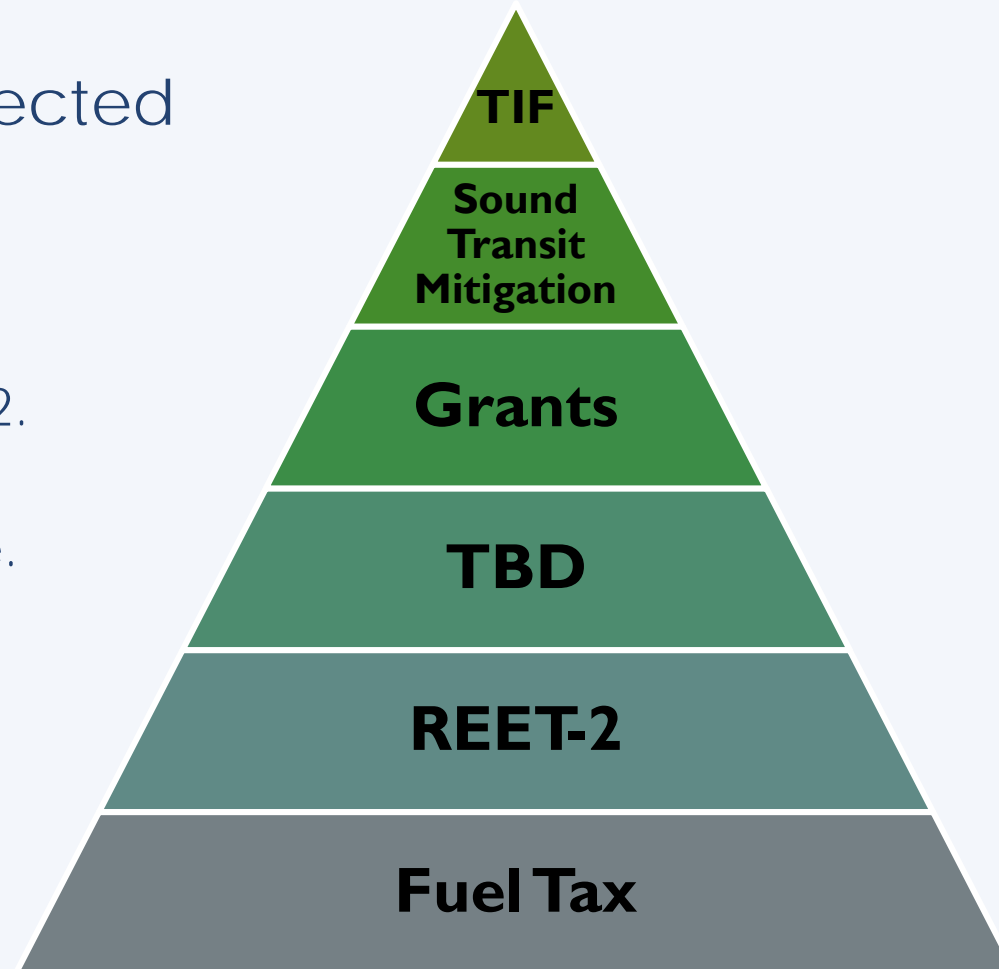


# Life Cycle Curve w/ Rehab



# TIP Funding

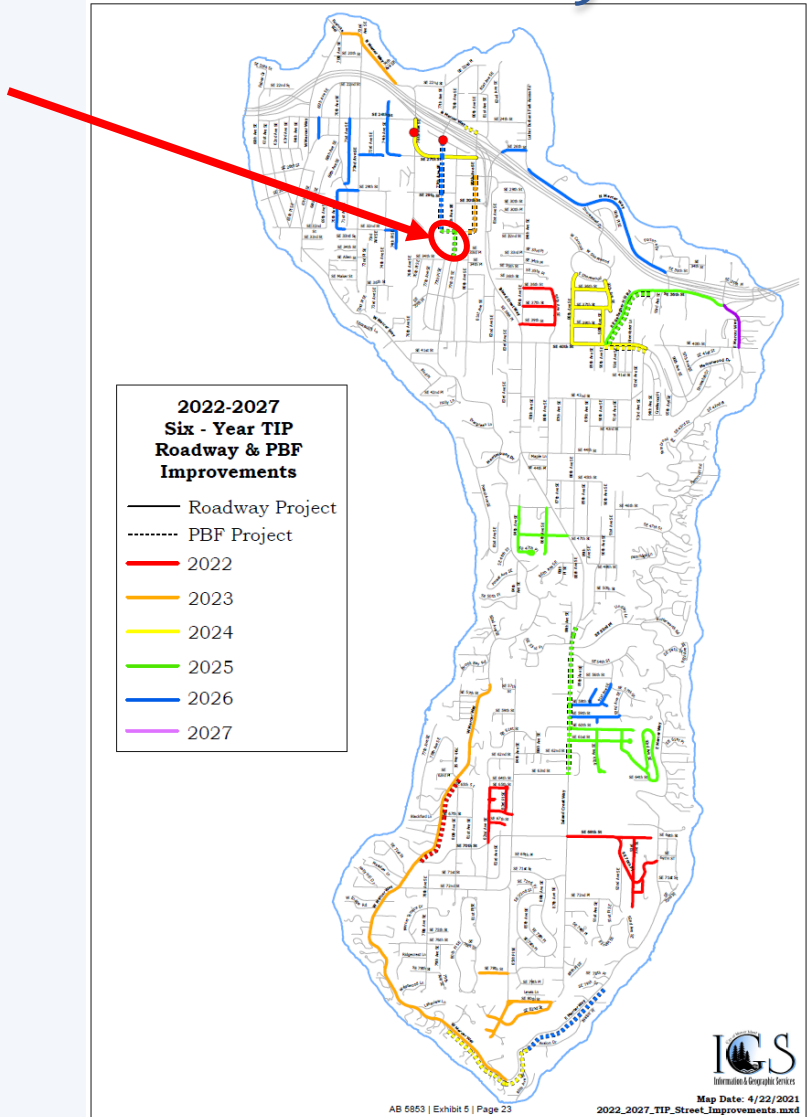
- ❑ TIP is funded via the Street Fund, with a projected healthy Fund balance.
  - Forecast a \$6.7 M beginning Fund balance in 2022.
  - 2027 year-end, estimate a \$2.1 M ending balance.
- ❑ Apply most restrictive revenues first.
- ❑ Refer to Exhibit 3 – 104 Fund Forecast.



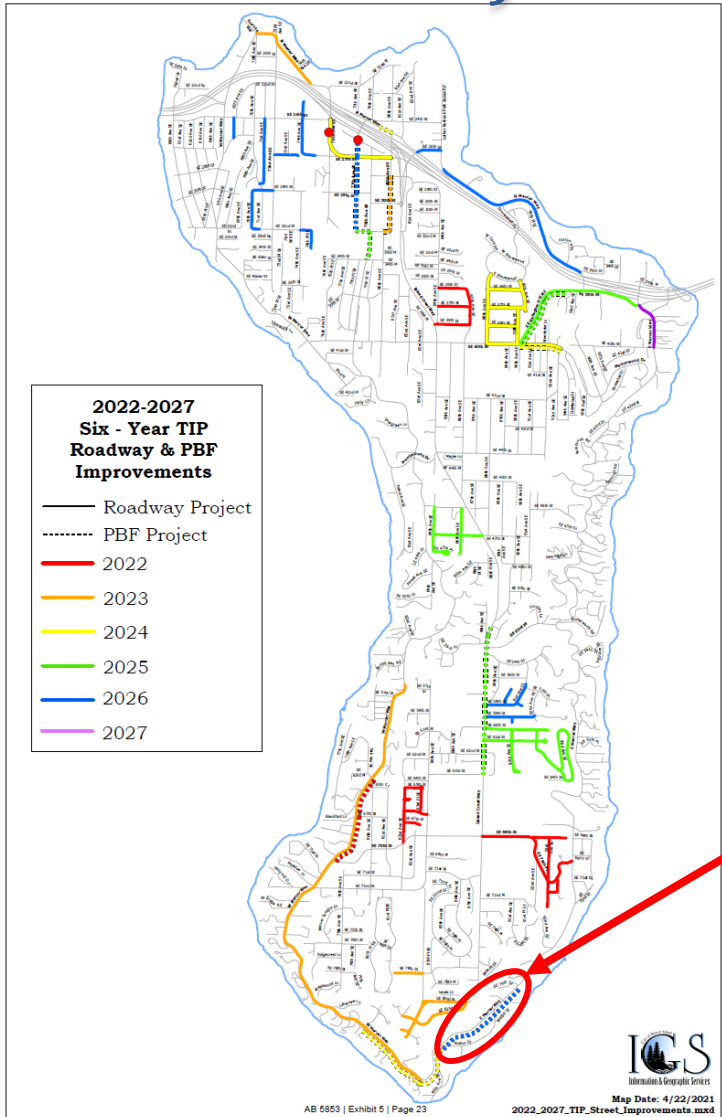
# New Projects

SE 32<sup>nd</sup> St. (77<sup>th</sup> to 78<sup>th</sup> Ave SE)  
[2024-2025]

- Sidewalk Replacement to address sidewalk damage and uplift caused by trees
- Sidewalk provides access to Mercerdale Park, used by patrons of the Farmer's Market.
- \$191K



# New Projects

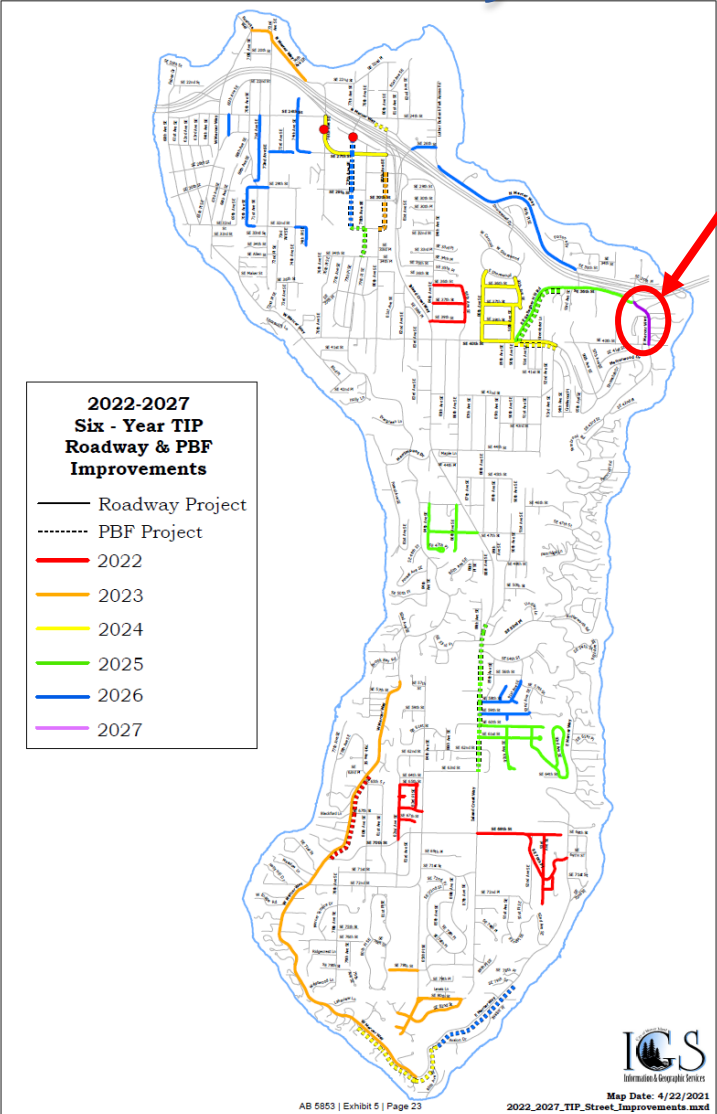


## East Mercer Way Shoulders – Ph.11 (SE 79<sup>th</sup> St. to 8400 bock) [2026]

- Final phase of roadside shoulders to complete the Mercer Way loop
- \$490K



# New Projects



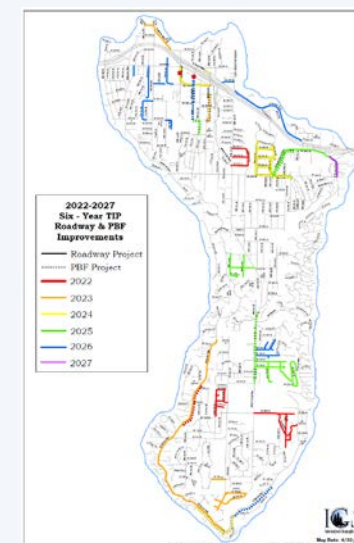
East Mercer Way  
(SE 36<sup>th</sup> St – SE 40<sup>th</sup> St) [2027]

- Resurface pavement w/ HMA overlay
- \$211K



# New Projects

- Pedestrian & Bicycle Facilities Plan Update [2026-2027]
  - Current PBF Plan is out of date. Developed in 1996. Modest update in 2010.
  - Lacks detailed project information, refined costs, clear priorities.
  - Standards/guidelines change over time.
  - Incorporate other plans/studies – ADA Transition, PROS Plan, TC Parking Study, etc.
  - \$385K



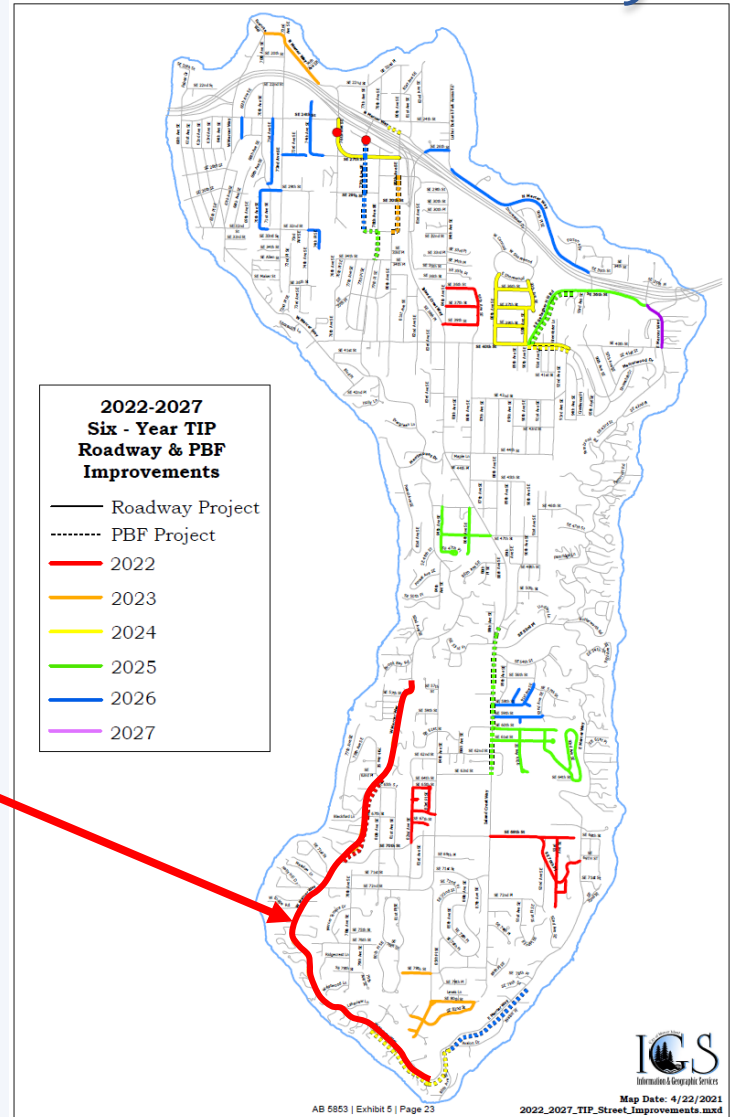


# Modified Projects

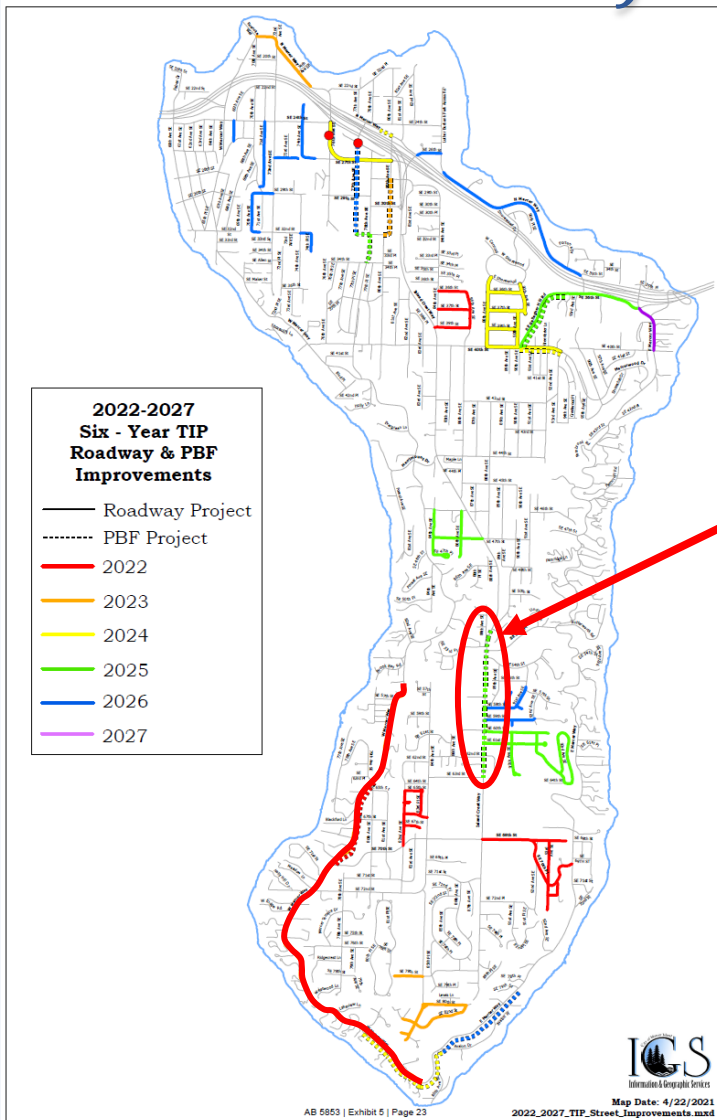
## SP105A:

### West Mercer Way (SE 56th St – East Mercer Way) [2027]

- HMA alternative to SP105 (chip seal) for Council consideration
- Recommend delay until pavement condition warrants overlay
- Estimated cost of \$1,810,000 (Note: SP105 – Chip seal in 2023, \$511K)



# Modified Projects



- SP119:  
N-S Bike Route Completion ICW  
(90<sup>th</sup> Ave SE – SE 63<sup>rd</sup> St) [2022-2025]
- Project phasing refined to consolidate activities.
  - Ph. 1 – Alternatives, feasibility, public engagement, project selection (Q4 2022-2024).
  - Ph. 2 – Design (~\$200K placeholder in 2025)
  - Uses ST mitigation funds
  - Ph. 3 – Construction cost & timing TBD based on scope of design



# SP126 - 77<sup>th</sup> Ave. SE Channelization

- Added to TIP last year for 2026. Received requests in 2021 to keep the bike lanes.
- 77<sup>th</sup> Ave. SE in TC
  - Current configuration – Bike lanes, one lane each direction, center turn lane.
  - Future configuration – On street parking and sharrows (shared lane) through restriping roadway.
- Why do this?
  - Requirement in TC Street Standards (MICC 19.11.120)
  - Having project in TIP allows us to accept fee in lieu of piecemeal improvements by private developments.
  - Gives Council time to evaluate results of TC Parking Study and then consider changing TC street standards if warranted.



Figure 14 (MICC 19.11.120)



# TIP Next Steps

- Public hearing tonight
- Receive feedback from Council and update TIP
- Adoption scheduled for June 1

## Things to remember

- The TIP is a “plan”.
- Things change. It’s updated annually based on the best information available at the time.



# Questions and Discussion

