City of Rochester Hills 2021 Transportation Asset Management Plan
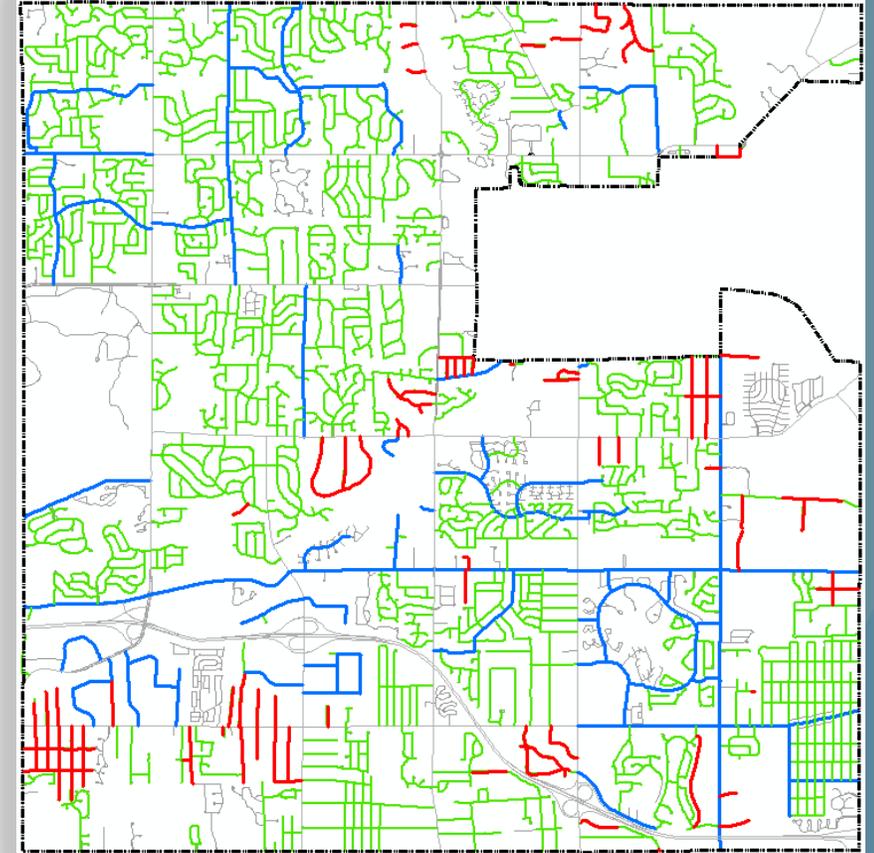
ROCHESTER HILLS
MICHIGAN

innovative by nature

A plan describing the City of Rochester Hills's transportation assets and conditions

Michigan Public Act 325 of 2018

▶ An Act to amend 1951 PA 51

▶ Requires local road agencies responsible for 100 or more certified miles of road to submit an asset management plan to the Transportation Asset Management Council (TAMC)

▶ Rochester Hills is required to submit a transportation asset management plan to the TAMC by October 1, 2021

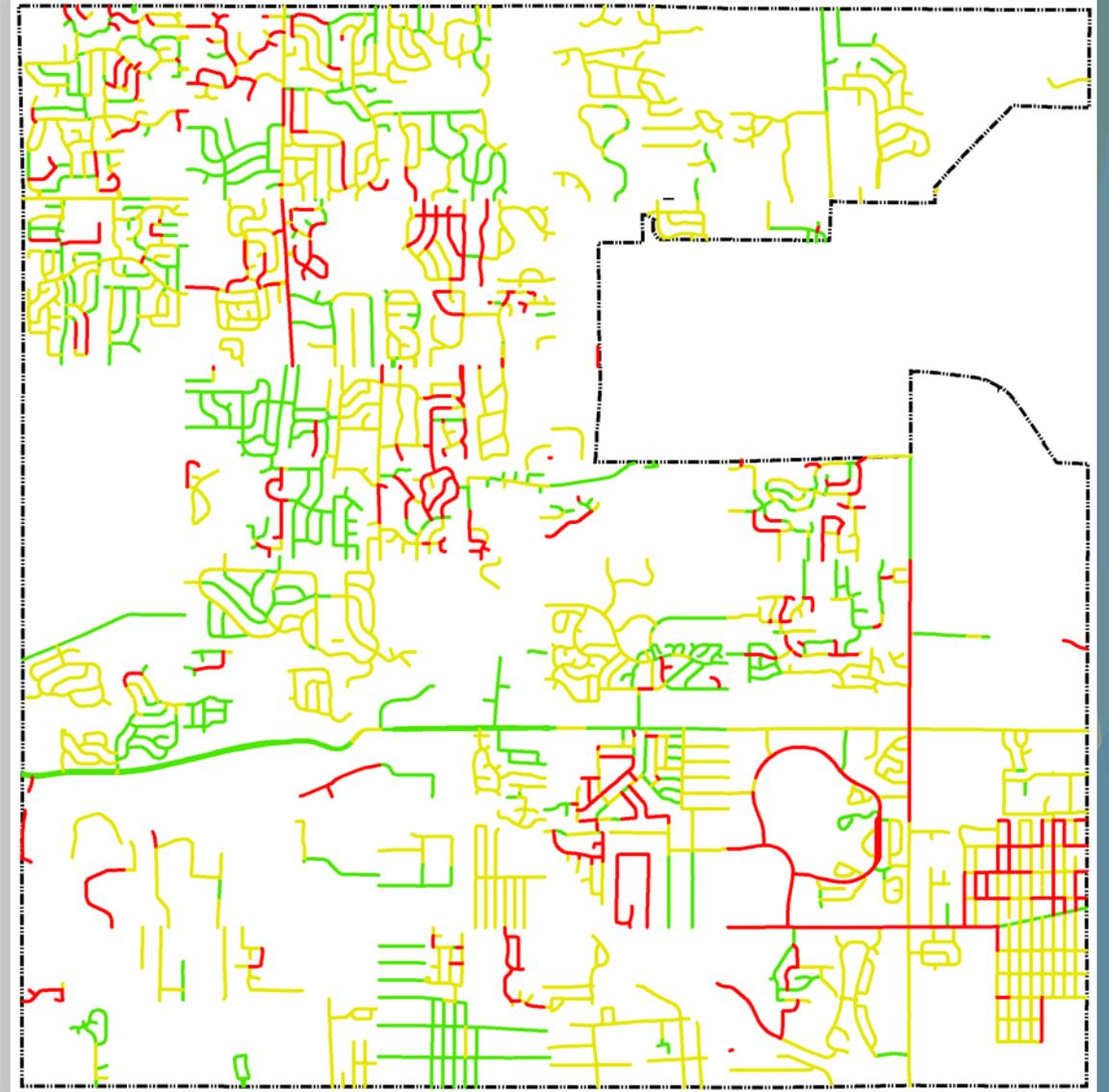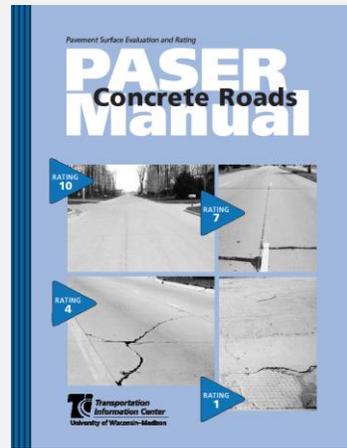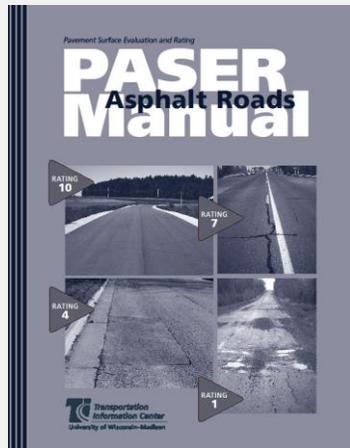▶ An updated plan is to be released every three (3) years

Asset Inventory

▶ The City is responsible for maintaining and operating:

   ▶ Over 266 centerline miles of roads

      ▶ City major: 45.8 centerline miles

      ▶ City local paved: 199.8 centerline miles

      ▶ City local unpaved: 21.1 centerline miles

   ▶ 4 bridge structures

   ▶ 237 storm culverts

   ▶ 13 traffic signals (with an additional 55 traffic signals co-own/share   in cost of maintenance)

▶ This plan identifies the condition of the city's assets, as well as the strategy the city uses to maintain and improve particular assets given the city's goals, priorities of road users, and resources.

City major = blue
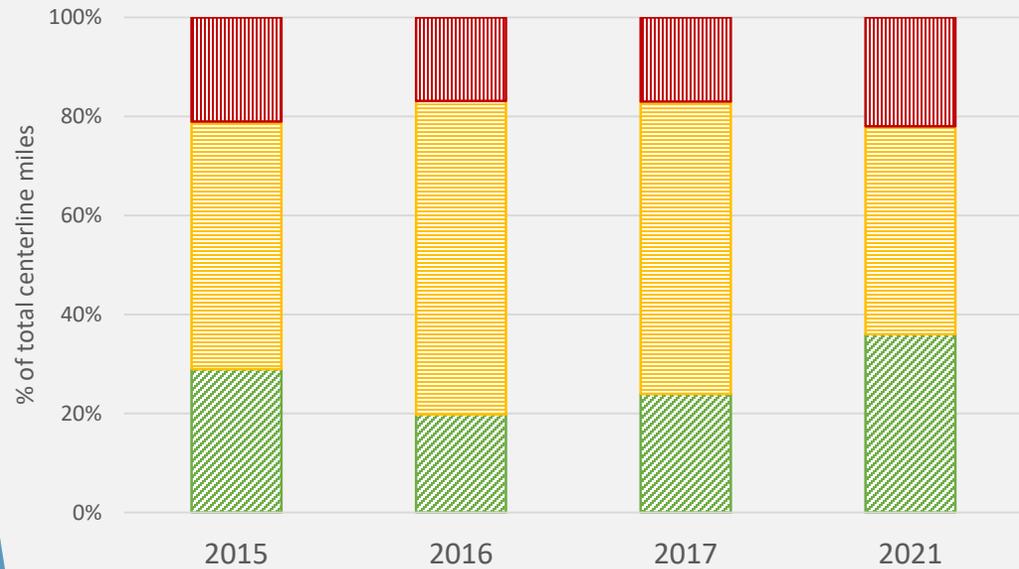City local paved = green
City local unpaved = red

Condition: Road Assets

- Paved roads in Michigan are rated using the Pavement Surface Evaluation and Rating (PASER) system.

  - 1-10 scale: 10 being a newly constructed surface and 1 being a completely failed surface

  - PASER scores are grouped into TAMC definition categories:

    - Good (PASER scores 8-10) in green

    - Fair (PASER scores 5-7) in yellow

    - Poor (PASER scores 1-4) in red
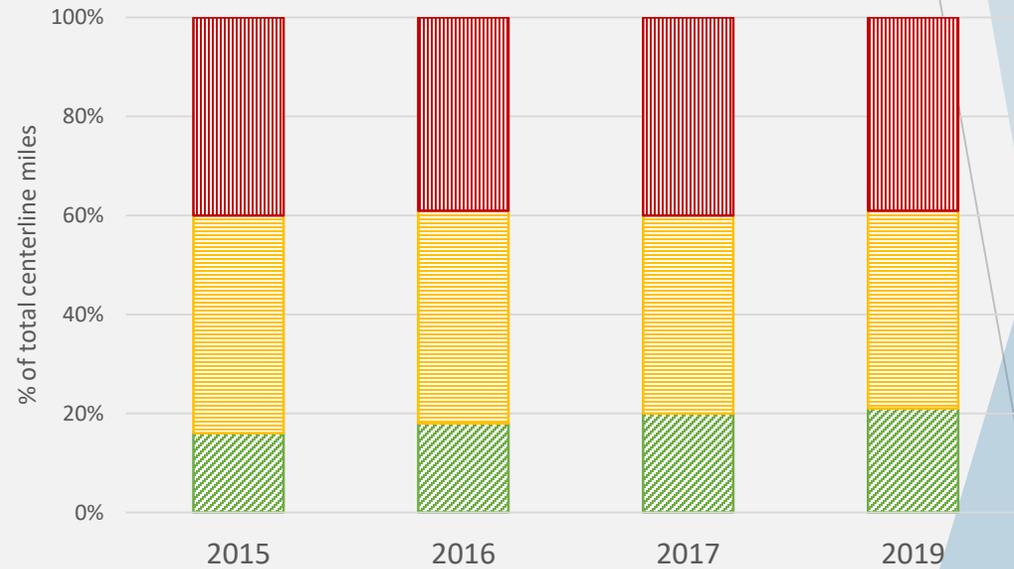
Condition: City Major Road Network
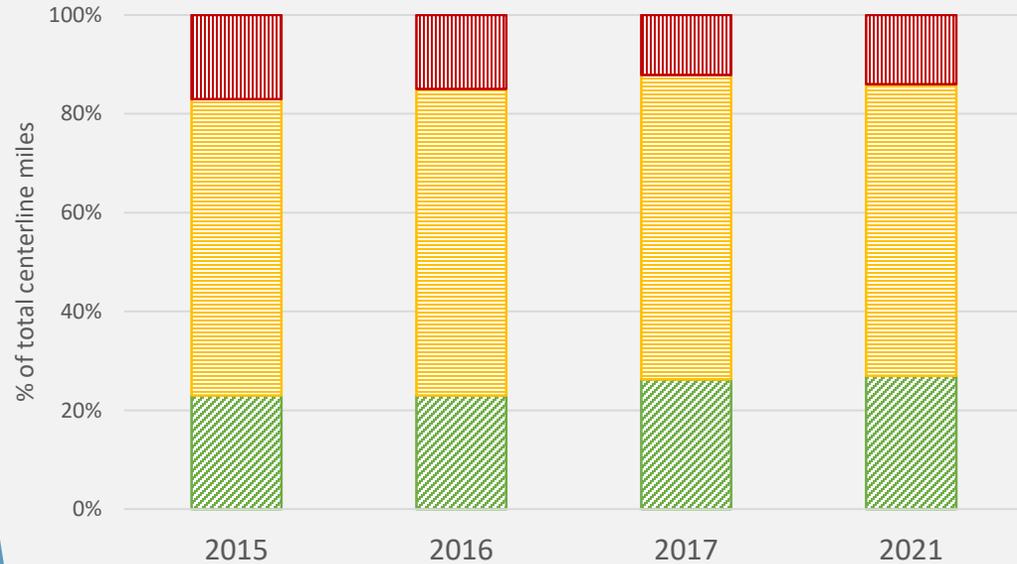

City Major Historic PASER Scores

% of total centerline miles

100% 80% 60% 40% 20% 0%

2015 2016 2017 2021

Statewide Federal-aid Historic PASER Scores

% of total centerline miles

100% 80% 60% 40% 20% 0%
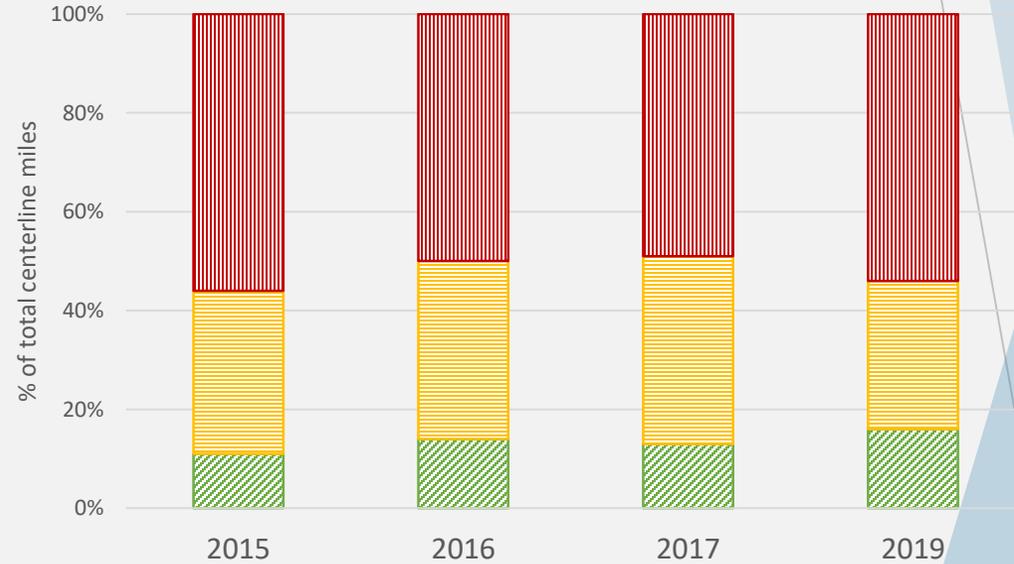
2015 2016 2017 2019

Spending on projects depends on revenues from Michigan Transportation Fund, city contributions, and federal/state programs.

Condition: City Local Road Network

City Local Historic PASER Scores
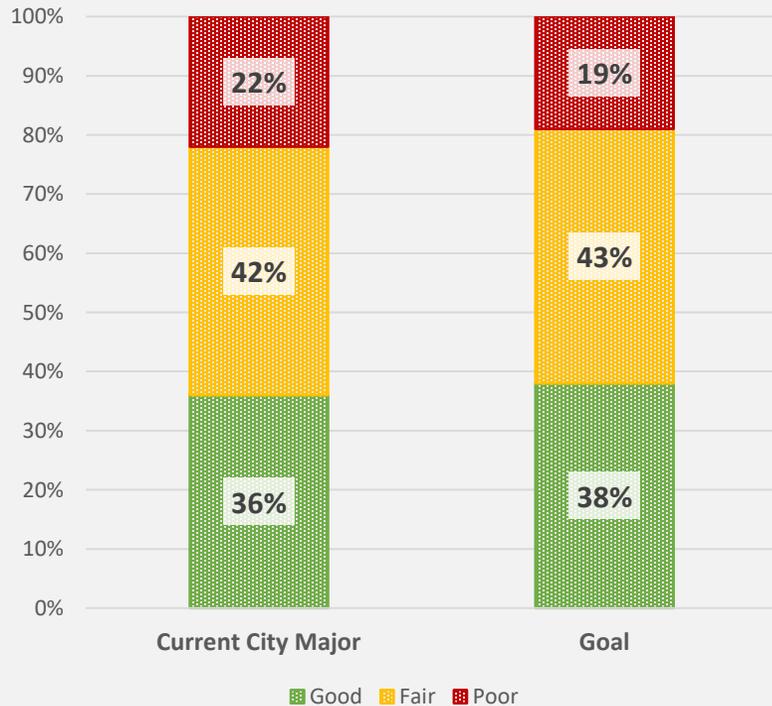
Statewide Non-federal-aid Historic PASER Scores

Spending on projects depends on revenue from millages and city contributions.
- One (1) millage up to 1.0965 mill
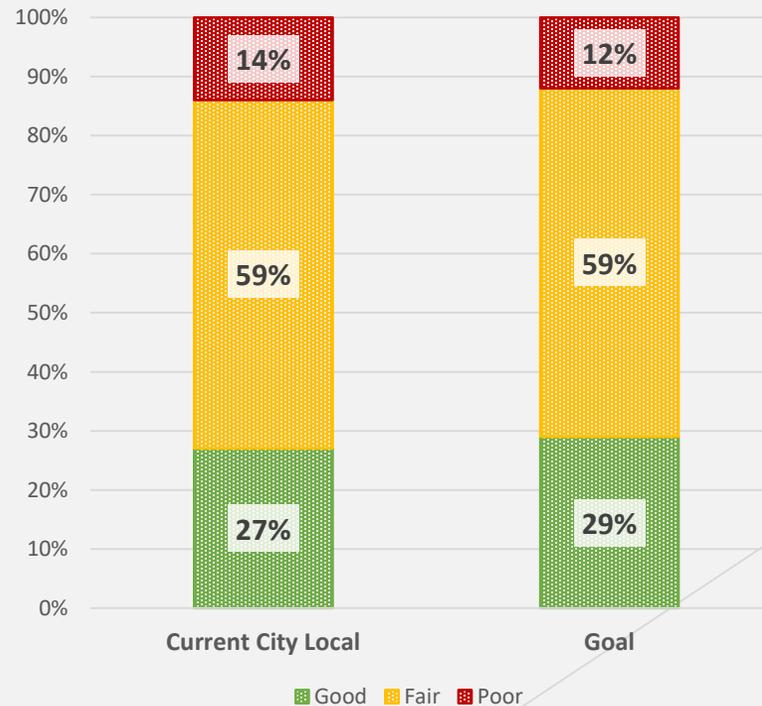- The city invests $5,000,000 annually into its local road network

Goals

▶ City Major Road Network

    ▶ Prevent its good and fair (PASER 10-5) roads from becoming poor (PASER 4-1)

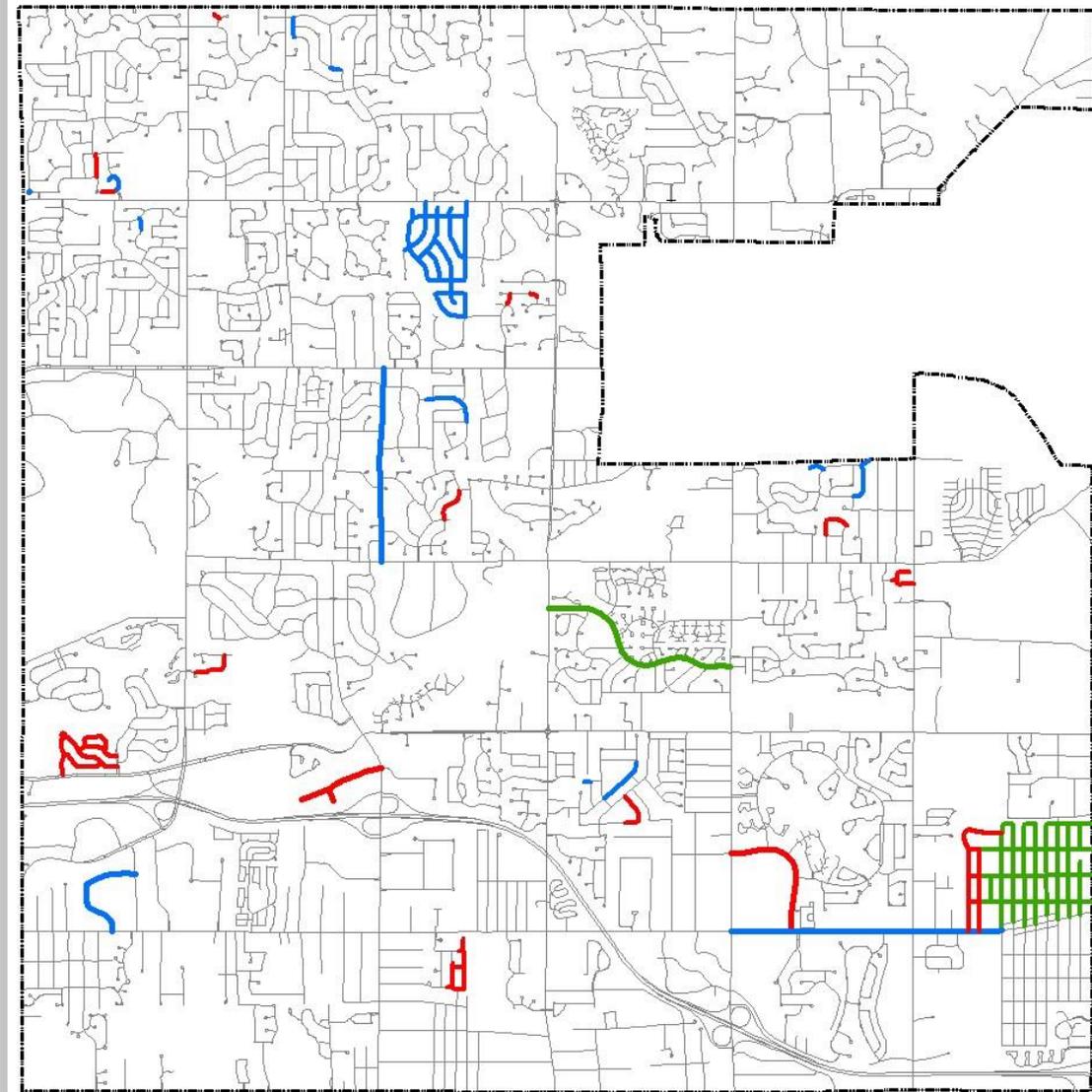   ▶ Move 3% of the road network out of the poor category

▶ City Local Road Network

    ▶ Prevent its good and fair (PASER 10-5) roads from becoming poor (PASER 4-1)

    ▶ Move 2% of the road network out of the poor category

City Major Road Network chart — Current City Major: Poor 22%, Fair 42%, Good 36%; Goal: Poor 19%, Fair 43%, Good 38%. Legend: Good, Fair, Poor.

City Local Road Network chart — Current City Local: Poor 14%, Fair 59%, Good 27%; Goal: Poor 12%, Fair 59%, Good 29%. Legend: Good, Fair, Poor.

Planned Projects: 2022-2024

- ## 23 miles of planned road projects
  - Major road = 7 miles
  - Local road = 16 miles

- ## Over 60 miles crack sealing preventative maintenance (not shown on map)

2022: Blue
2023: Red
2024: Green

Summary

- City of Rochester Hills will update and submit a transportation asset management plan every three (3) years

- The city is on track to meet its 2024 goal with the current planned projects and funding
  - Move 3% of major roads out of the poor category
  - Move 2% of local roads out of the poor category
  - Perform capital preventative maintenance (crack sealing) on roads to prevent good and fair roads from becoming poor