



DEPARTMENT OF PUBLIC WORKS

Ernesto De La Garza, P.E., Director



FY 2024 – 2028

Five-Year Rolling Infrastructure Management Plan

June 13, 2023

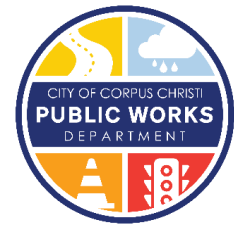


Infrastructure Management Plan (IMP) Overview



- The Infrastructure Management Program (IMP) is a five-year rolling program which focuses on the maintenance of Corpus Christi streets.
- Established in 2020 as a 5-year scheduled program for street improvements
- Currently in 3rd Annual IMP (FY 2023-2027)
- Proposing 4th Annual IMP (FY 2024-2028)
- This plan was developed from assessment and review of the City's street conditions and input from Public Works public sessions in May 2023.





Programs Overview

Street Preventative Maintenance Program (SPMP)

- Regularly scheduled maintenance program for streets in fair condition. All streets that are considered in fair condition are eligible for maintenance work through either an ultra thin surface or overlay under this program. The annual Work Plan includes residential, local, collector and arterial streets.

Residential Street Rebuild Program (RSRP)

- Address the City's residential streets in poor condition. Two methods of pavement rebuild work include: rehabilitation and reconstruction. Candidate residential street selection is based on criteria including pavement condition, underground utility work needed, proximity to schools, and overall cost to repair the street.

In-House Pavement Rehabilitation

- Rehabilitation of residential streets. These streets have minimal concrete work associated. The work consists of a mill and overlay with spot base repairs. This program targets a "neighborhood approach".

Concrete Restoration

- This program begins the City's concrete pavement maintenance program. The work includes joint sealants, panel replacement, and crack sealing.

Citywide Street Assessment

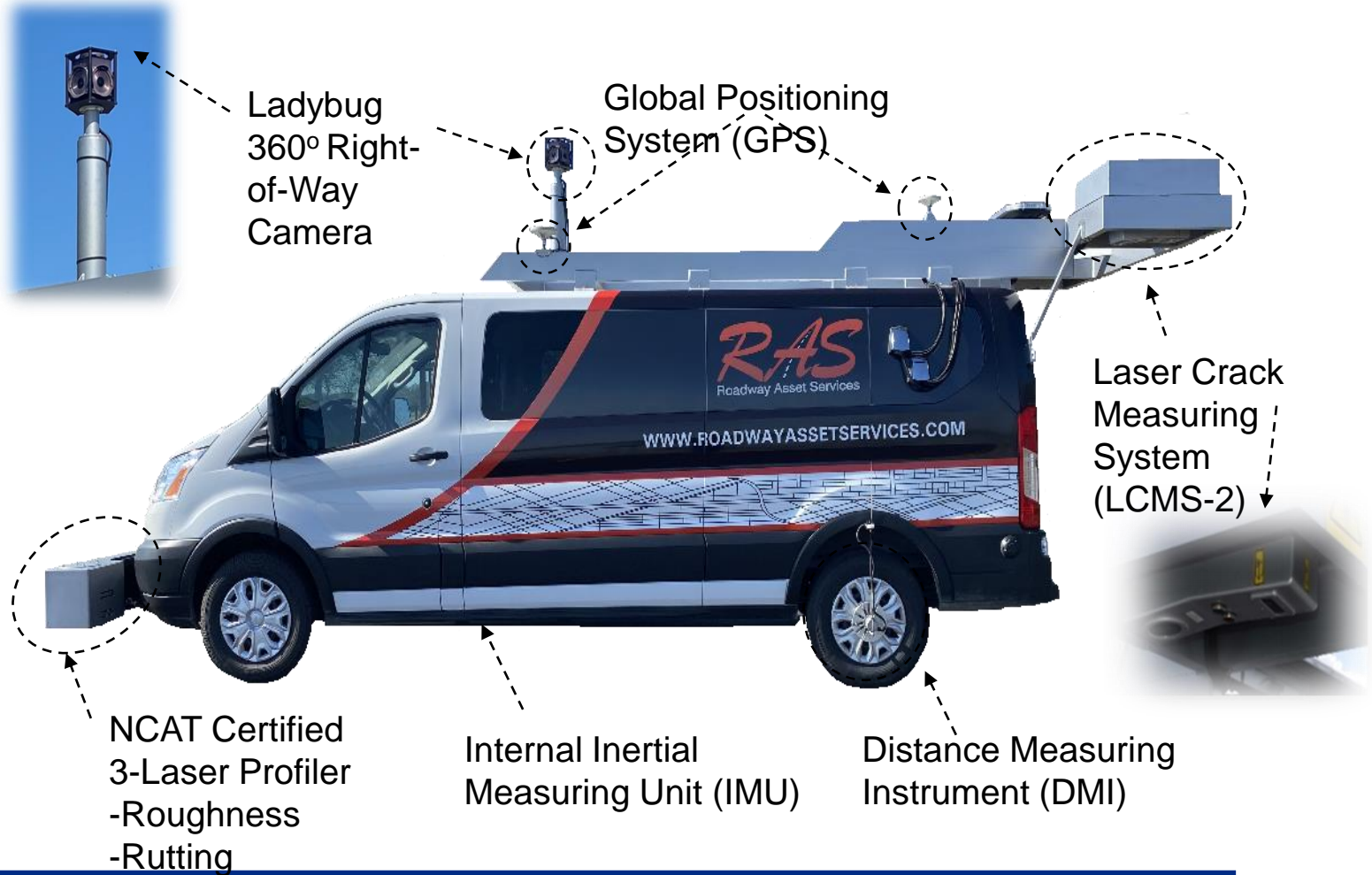


Current Network

1238 Total Centerline Miles*

- 22 Alley
- 835 Local
- 216 Collector
- 165 Arterial

* the total length of a given road from a start point to an end point



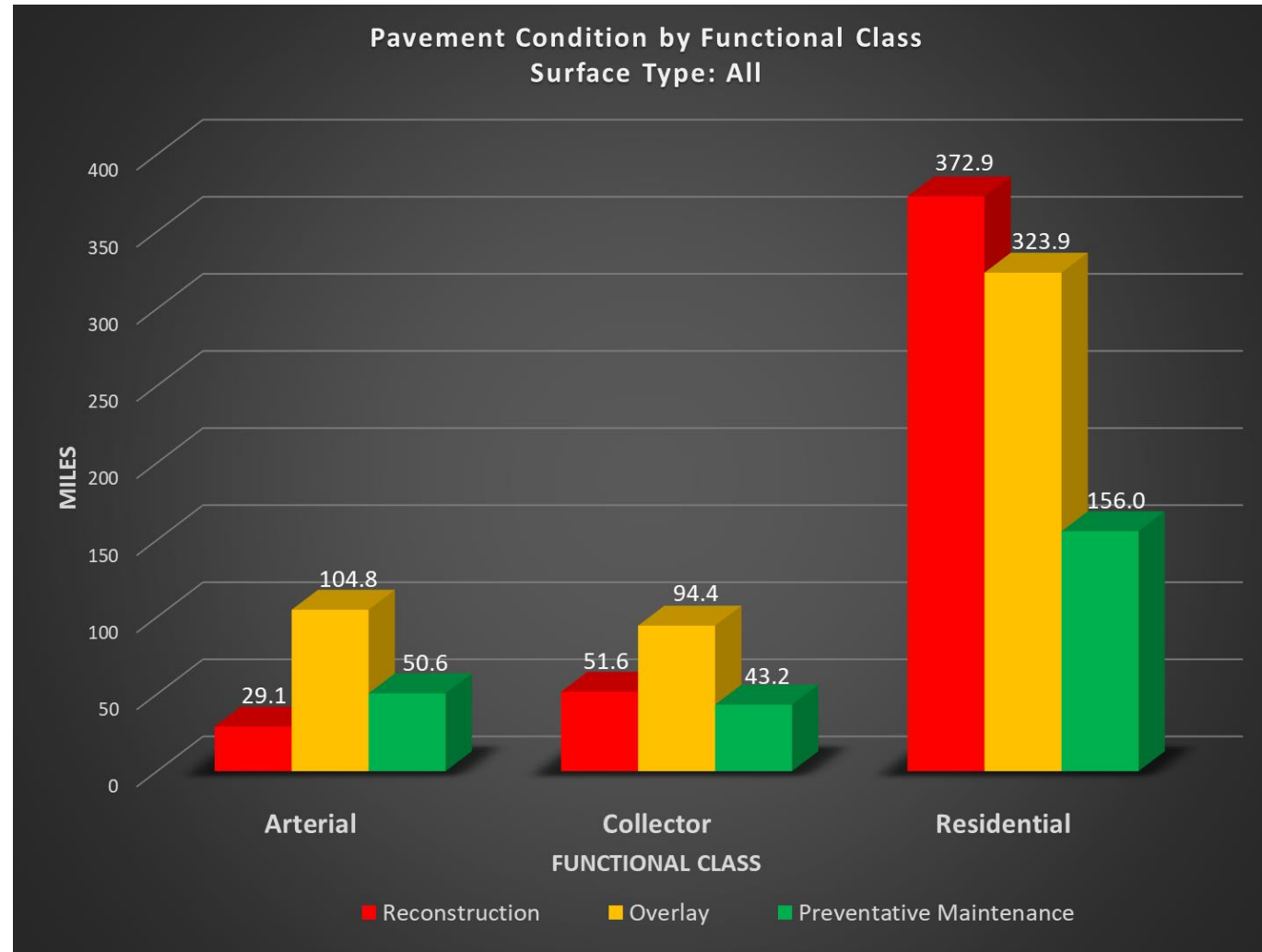
Pavement Treatments



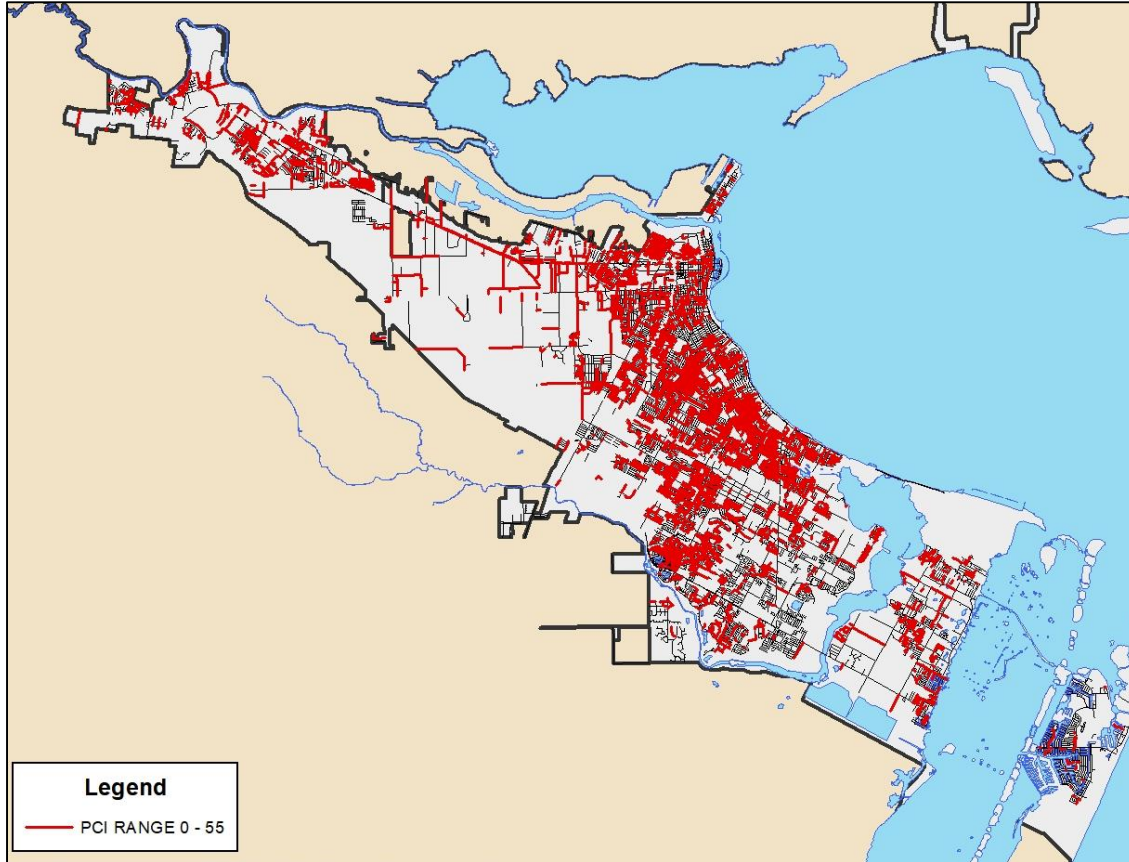
PCI	Street Maintenance Type & Applications
86-100	Preventative Maintenance- Crackseal, Ultrathin
71-85	Maintenance- Mill & Overlay
56-70	Rehabilitation- Mill & Overlay, base repairs
0-55	Reconstruction- Full depth pavement reconstruction



Network Data



Revised IMP



- Pavement only approach
- Worst first in initial 2 years
- Address more residential streets
- 5x faster
- Design life 10-30 years

Pilot Program



Austin St.



5/22/23



5/31/23

Pilot Program



Odem Dr.



4/10/23



4/19/23

Pilot Program



Cresthill Dr.



2/28/23



3/15/23

Pilot Program



Lake Bolsena Dr.

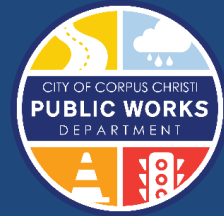


6/5/2023

3/8/23

3/21/23

Pilot Program



Moritz Lake Dr.



3/28/23



4/4/23

Pilot Program



Rhone Lake Dr.

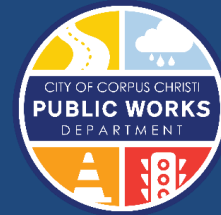


3/21/23



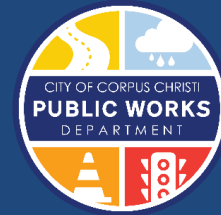
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Pilot Program Summary

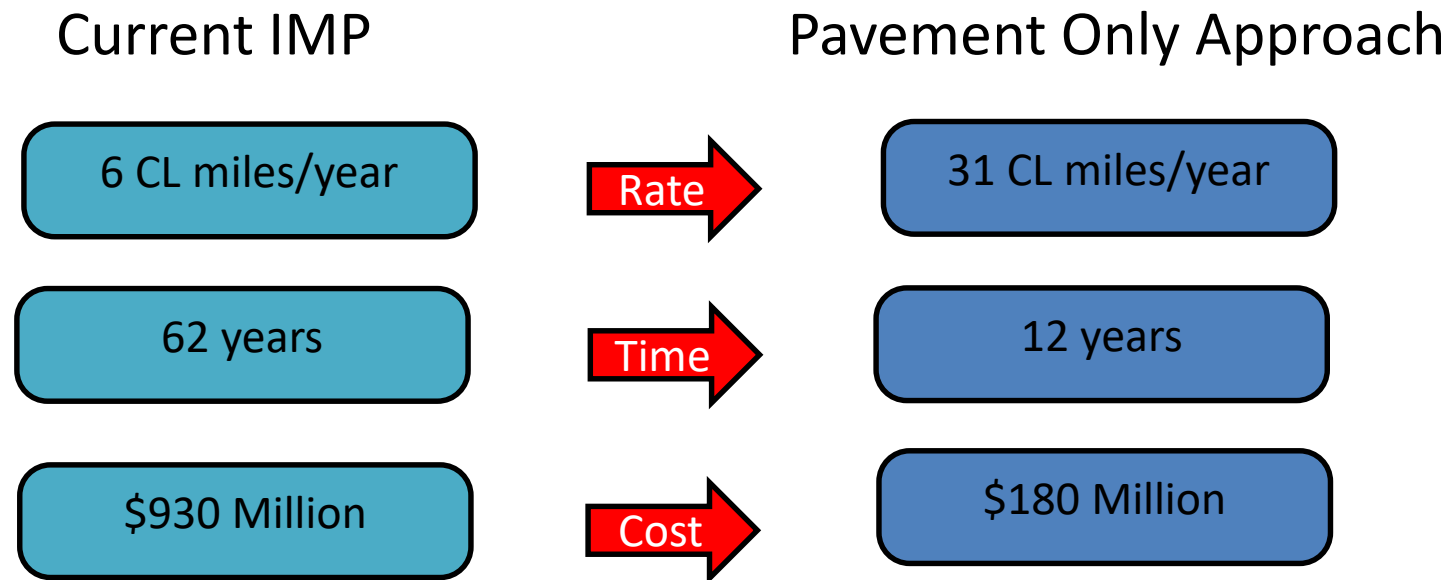


- Began pilot program on 2/28
- Milestones
 - 10 streets completed
 - 2.7 Centerline Miles
 - \$1.4 Million PW IH construction cost

Results



Comparison of approaches to improve 373 CL miles of local streets with PCI 0 – 55 (Failed to Very Poor)



Note: 5 times as many street CL miles will be paved with the Pavement Only Approach

Summary



- The proposed IMP is anticipated to provide the following results:
 - Projected PCI will improve from a 65 to a 75
 - Overall IMP production is 37 CL miles/year
 - Begin in July with Council approval
- Public Works is actively pursuing the reevaluation of the street network
- This work will begin in FY 2024 and last approximately 1 year
- The results will be reflected in the FY 2025 IMP development
- Public Works is actively pursuing the reevaluation of the street network. This work will begin in January 2021 and last approximately 1 year. The results will be reflected in the FY 2022 IMP development.