

PAVEMENT SURFACE EVALUATION AND RATING PROGRAM

120.12 MILES WITHIN CITY LIMITS

PRESENTATION TO CITY COUNCIL

July 17th, 2017

Revised April 2018 and June 2020

March 15th, 2021



Pavement Surface Evaluation and Rating Program

PASER

PASER uses visual inspection to evaluate pavement surface conditions. The key to a useful evaluation is identifying different types of pavement distress and linking them to a cause. Understanding the cause for current conditions is extremely important in selecting an appropriate maintenance or rehabilitation technique. There are four major categories of common asphalt pavement surface distress:

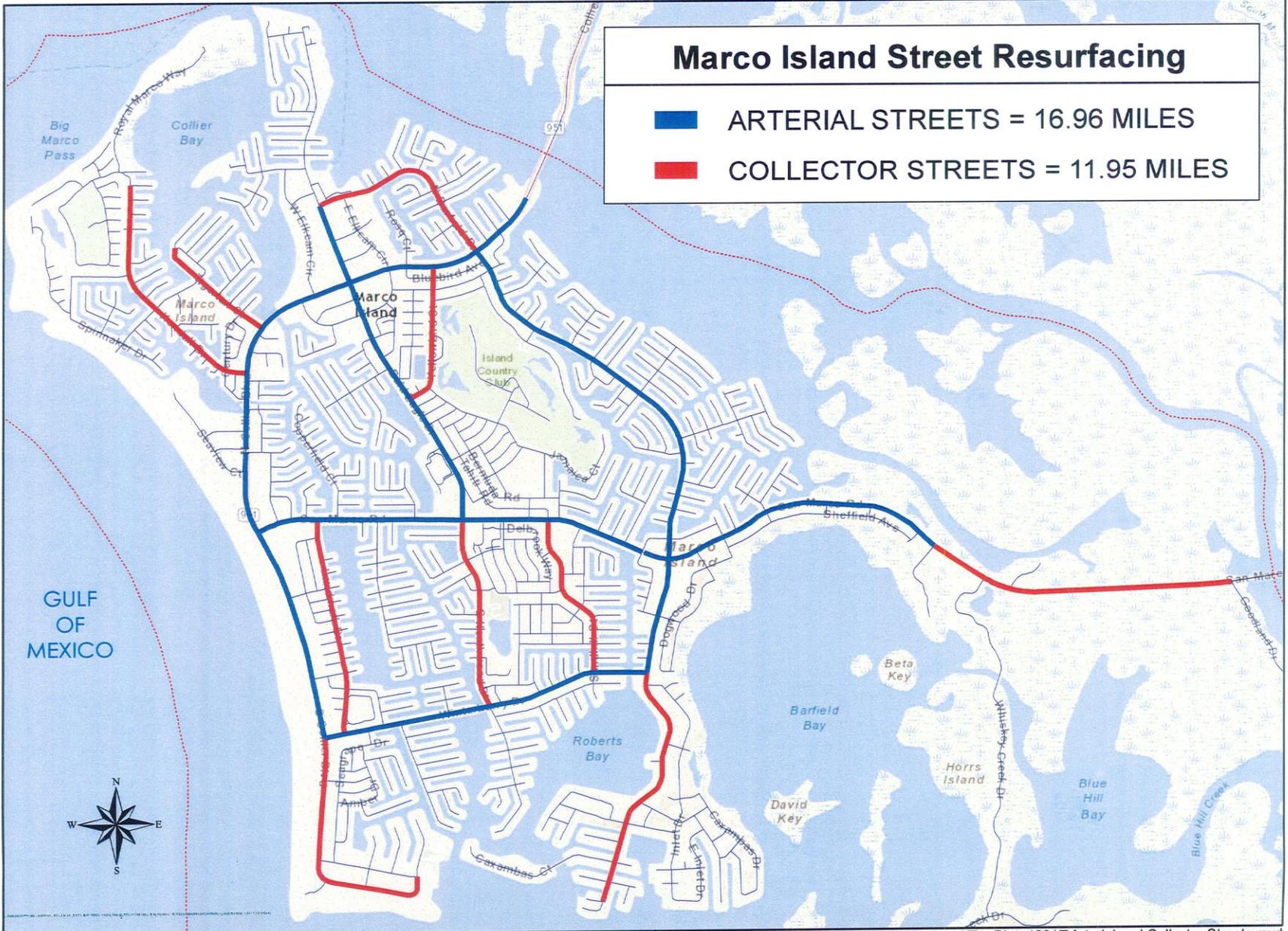
- SURFACE DEFECTS (Raveling, flushing and polishing)
- SURFACE DEFORMATION (Rutting, distortion, settling)
- CRACKS (Transverse, reflection, slippage, block and alligator)
- PATCHES AND POTHOLES

Deterioration has two general causes, environmental due to weathering and aging, and structural caused by traffic loading.

Marco Island Street Resurfacing

 ARTERIAL STREETS = 16.96 MILES

 COLLECTOR STREETS = 11.95 MILES



PAVEMENT SURFACE EVALUATION AND RATING 120.12 MILES WITHIN CITY LIMITS

	EXCELLENT	GOOD	FAIR	POOR
ARTERIAL STREETS				
	N. COLLIER BLVD. 1.17 MILES 2018		COLLIER BLVD. 8.1 MILES	N. BARFIELD 1.99 MILES
	BALD EAGLE 0.92 MILES 2019		BALD EAGLE 0.40 MILES	S. BARFIELD 1.14 MILES
	SAN MARCO RD. 3.67 MILES 2018		WINTERBERRY 1.58 MILES	

PAVEMENT SURFACE EVALUATION AND RATING

	EXCELLENT	GOOD	FAIR	POOR
MINOR COLLECTOR STREETS				
	N. BARFIELD 1.10 MILES 2018	S. COLLIER BLVD. 2.39 MILES	S. BARFIELD 2.53 MILES	
	SAN MARCO 1.27 MILES 2018	HEATHWOOD 0.95 MILES		
	TIGERTAIL 0.59 MILES 2018	SANDHILL 0.85 MILES		
	KENDALL 1.26 MILES 2018			

Marco Island Annual Street and Roadway Resurfacing Program



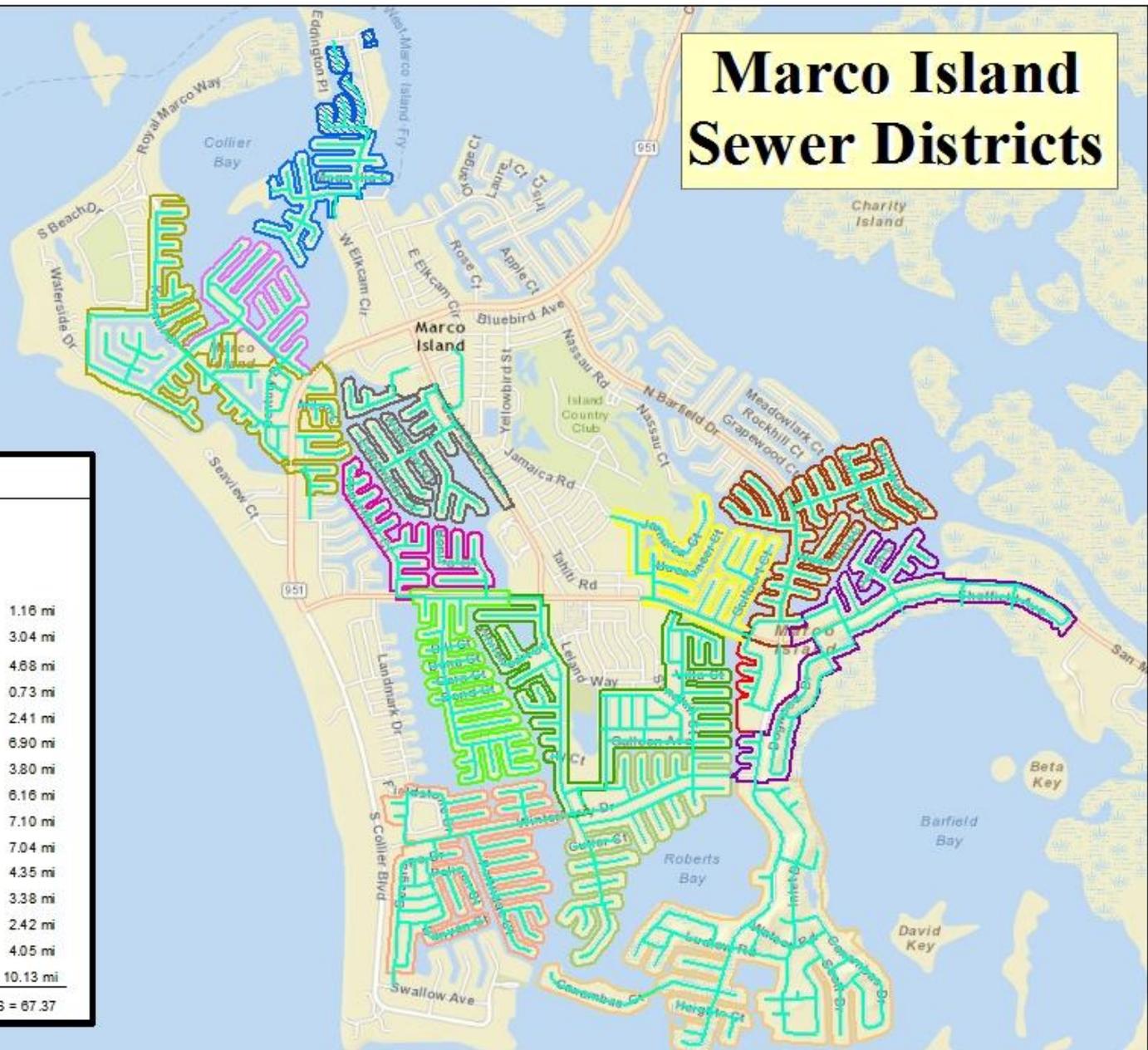
PAVED GROUP	MILES
1	1.20
2	4.21 - 2018
3	3.50 - 2019
4	3.58
5	4.91
6	2.60
7	5.62 - 2021
8	3.80 - 2015
9	0.93 - 2020
10	3.54 - 2021
11	3.68 - 2016
12	0.93 - 2020
BALANCE REMAINING	12.29



Marco Island Sewer Districts

LEGEND

	City Limits	
YEAR - SEWER DISTRICT		
	ALREADY ON SEWER	
	2006 - SOUTH BARFIELD	1.16 mi
	2006 - TIGERTAIL	3.04 mi
	2007 - NORTH BARFIELD	4.68 mi
	2007 - OLD MARCO	0.73 mi
	2007 - NORTH MARCO	2.41 mi
	2007 - WEST WINTERBERRY	6.90 mi
	2008 - LAMPLIGHTER	3.80 mi
	2008 - SHEFFIELD	6.16 mi
	2009 - KENDALL	7.10 mi
	2009 - MACKLE PARK	7.04 mi
	2010 - EAST WINTERBERRY	4.35 mi
	2010 - GULFPORT	3.38 mi
	2011 - COPPERFIELD	2.42 mi
	2011 - GOLDENROD	4.05 mi
	2012 / 13 - ESTATES	10.13 mi
TOTAL PAVED MILES = 67.37		



PAVEMENT SURFACE EVALUATION AND RATING

	EXCELLENT	GOOD	FAIR	POOR
RESIDENTIAL STREETS				
	GROUP 8 2015 3.8 MILES 2015	GROUP 6 2.15 MILES	GROUP 1 1.2 MILES	N. BARFIELD AREA 4.01 MILES
	GROUP 11 2016 3.68 MILES 2016	S. BARFIELD AREA 0.78 MILES	GROUP 4 3.12 MILES	LAMPLIGHTER AREA 0.86 MILES
	GROUP 2 3.46 MILES 2018	SHEFFIELD AREA 4.79 MILES	GROUP 5 3.97 MILES	
	TIGERTAIL AREA 2.45 MILES 2018		LAMPLIGHTER AREA 2.94 MILES	
	GROUP 3 2.58 MILES 2019		N. MARCO AREA 3.14 MILES	GROUP 7 5.62 MILES 2021
	GROUP 9 2.55 MILES 2020		W. WINTERBERRY 6.9 MILES	GROUP 10 3.54 MILES 2021

PAVEMENT SURFACE EVALUATION AND RATING

	EXCELLENT	GOOD	FAIR	POOR
RESIDENTIAL STREETS				
	JOY CIRCLE 0.32 MILES 2019	MACKLE PARK AREA 7.04 MILES	KENDALL AREA 5.84 MILES	
		E. WINTERBERRY AREA 3.71 MILES	GULFPORT AREA 2.83 MILES	
		ESTATES AREA 7.60 MILES	COPPERFIELD AREA 1.82 MILES	COPPERFIELD CT. 0.60 MILES
			GOLDENROD AREA 3.73 MILES	

ESTIMATED COSTS PER MILE

5,280 LF/ Mile = 5,280 LF x 24 ft. wide = 126,720 SF/Mile

126,720 SF/ Mile / 9 = 14,080 SY / Mile

14,080 SY x 2 inches thick x 110 LBS. / 2000 = 1548 Tons/Mile

\$102.00 / Ton x 1548 Tons = **\$157,896.00** per 24 ft. Wide Road

\$102.00 per Ton is based on Collier County Annual Paving Contract

Select Roadways To Be Resurfaced in FY-2021

Group 7 - 5.62 Miles



Select Roadways To Be Resurfaced in FY-2021

Group 10 - 3.54 Miles

