

PUBLIC WORKS DEPARTMENT

Pavement Management Update



July 21, 2020





Pavement Management Program

PAST PROCESS

- Windshield Survey
- Worst First Approach
- No Forecasting Capabilities
- Limited Strategies
- Reactive





Pavement Management Program

PRESENT

- Pavement Condition Rating
- Robust Software Matrix
- Predictability Modeling
- Sustainability Approach
 - Take Care of Good Roads First
 - Research Market Considerations
 - Reutilize Existing Materials in Place
- Broadened Strategies





Pavement Management Strategies

PAVEMENT STRATEGIES

- Preservation
 - Crack Sealing
 - Slurry Seal
 - Microsurfacing
 - Thin Hot Mix Overlay
- Rehabilitation
 - Mill and Overlay
 - Rigid Hot Mix Overlays
- Reconstruction
 - Reclamation



PAVEMENT STRATEGIES

Crack Seal Treatment

\$0.20 / SY (In-House)
\$1.00 / SY (Contracted)



PAVEMENT STRATEGIES

Slurry Seal

\$6.00 / SY (Contracted)



PAVEMENT STRATEGIES

Microsurfacing

\$8.50 / SY (Contracted)



PAVEMENT STRATEGIES

Thin Overlay (MAC/TOM)

\$15.00 / SY (Contracted)



PAVEMENT STRATEGIES

Mill & Overlay

\$36.00 / SY (Contracted)



PAVEMENT STRATEGIES

Full Depth Reclamation

\$120.00 / SY (Contracted)



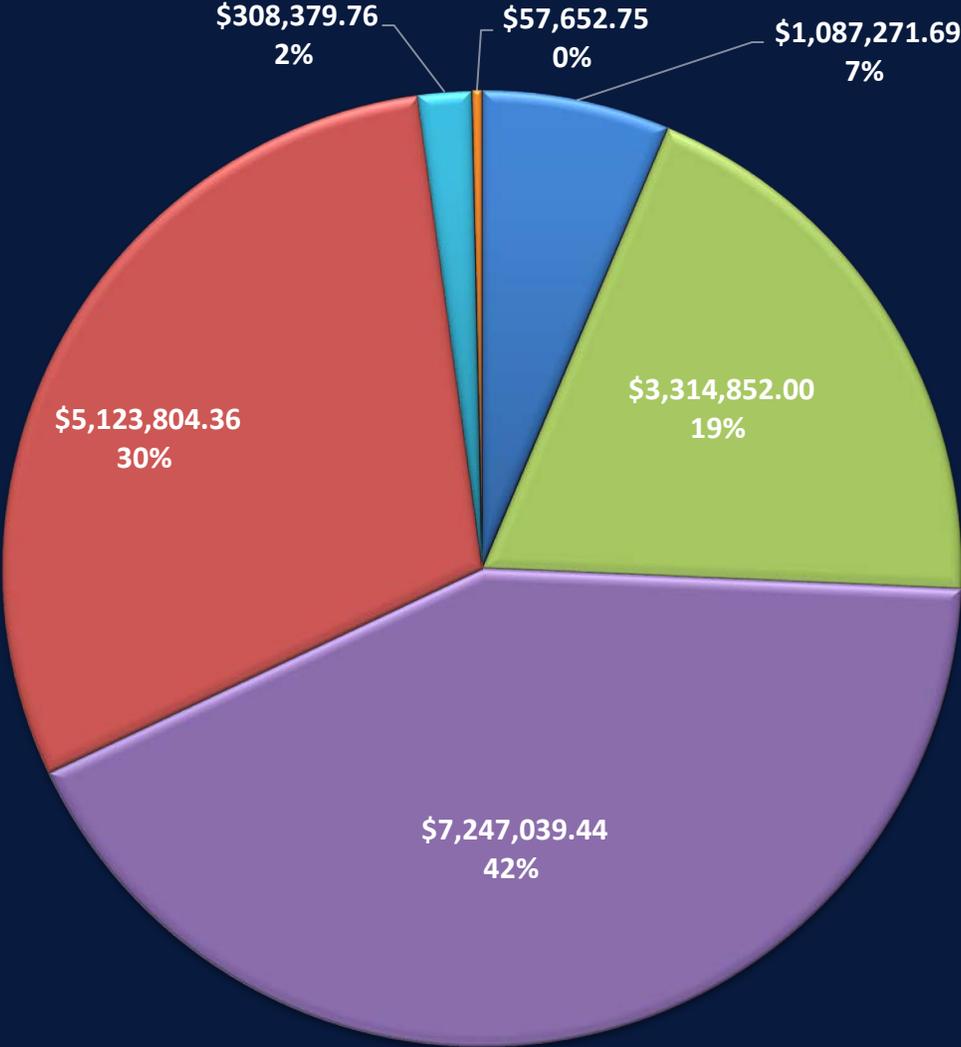


Results of Previous Funding Years

- FY 18-19
 - Overview
 - Detailed Financials/Project Listing
- FY 19-20
 - Overview
 - Detailed Financials/Project Listing
- PCI Rating FY17-20



Pavement Management Program FY18-19 Funding Breakdown



Street Improvements Funding:

- Bond \$13,824,148
- Cash \$ 3,314,852
- Total \$17,139,000

All Funding Obligated

■ Engineering
 ■ Construction Preservation
 ■ Construction Mill and Overlay
 ■ Construction Reclamation
 ■ PM & Inspection
 ■ Other



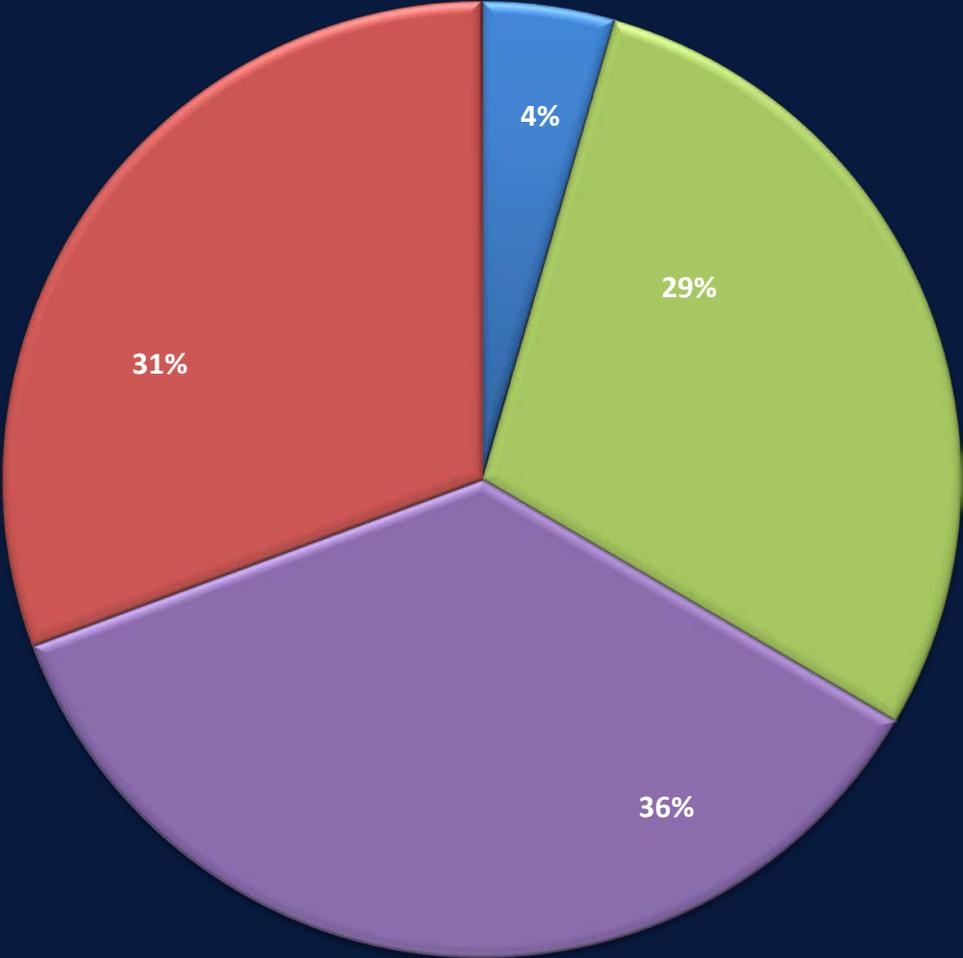
FY 2018-19 Better Streets Waco Program						
		Cash	Bond Proceeds	Total	Scope of Work	Status
Revenues		\$3,314,852	\$13,824,148	\$17,139,000		
Expenditures (Projects)						
	2018 City Wide Crack Seal Program	-\$916,740		-\$916,740	Crack seal to support preservation	Complete
	2018 Street Preservation	-\$2,398,112		-\$2,398,112	Street Preservation	Complete
	2018 Street Reclamation		-\$2,768,134	-\$2,768,134	Street Reclamation	Complete
	2019 Mill and Overlay		-\$4,019,803	-\$4,019,803	Mill and Overlay	Complete
	Washington Avenue Improvements		-\$326,500	-\$326,500	Design	Complete
	Speegleville Road Reclamation		-\$2,027,083	-\$2,027,083	Street Reclamation	Complete
	Franklin Avenue Improvements		-\$246,576	-\$246,576	Preliminary Design	60% complete
	Ritchie Road Improvements		-\$473,082	-\$473,082	Street Reconstruction	90% Complete
	Elm Avenue Phase 1		-\$1,324,403	-\$1,324,403	Design	30% Complete
	5th Street Improvements		-\$2,388,950	-\$2,388,950	Construction	Construction to start in June 2020
	Peach Street Water Line Improvements		-\$200,433	-\$200,433	Mill and Overlay	Complete
	Oak Road Improvements		-\$49,185	-\$49,185	Design	90% Complete
Total Expenditures		-\$3,314,852	-\$13,824,148	-\$17,139,000		
Balance						
		\$0	\$0	\$0		



Pavement Management Program FY19-20 Funding Breakdown

Street Improvements Funding:

- Bond \$21,900,000
- Cash \$ 3,320,000
- Total \$25,220,000



■ Engineering ■ Construction Preservation ■ Construction Mill and Overlay ■ Construction Reclamation ■ Other



FY 2019-20 Better Streets Waco Program					
	<u>Cash</u>	<u>Bond Proceeds</u>	<u>Total</u>	<u>Scope of Work</u>	<u>Status</u>
Revenues	\$3,320,000	\$21,900,000	\$25,220,000		
Expenditures (Projects)					
2019 City Wide Crack Seal Program	-\$605,800		-\$605,800	Crack seal to support preservation	Complete
2020 Street Preservation	-\$1,755,203		-\$1,755,203	Street Preservation	60% Complete
2020 Street Preservation - Seal Coat	-\$623,019		-\$623,019	Street Preservation	Construction to start in June 2020
2020 Street Preservation Phase 3	-\$80,300		-\$80,300	Street Preservation - Thin Overlay HMAC	90% Complete
2019 Mill and Overlay Phase 2		-\$2,170,860	-\$2,170,860	Mill and Overlay	Low bid approved by council 5/19/20
5th Street Improvements (Construction)		-\$1,524,751	-\$1,524,751	Street, Pedestrian, Storm, Water, and Sewer Improvements	Construction to start in June 2020
4th Street Improvements		-\$266,473	-\$266,473	Preliminary Design	60% complete
Dutton Avenue Improvements		-\$174,450	-\$174,450	Design	60% complete
Harris Creek Improvements		-\$1,183,671	-\$1,183,671	Street Reconstruction	Construction to start in June 2020
Lake Shore Drive 19th to MLK Improvements		-\$1,992,549	-\$1,992,549	Mill and Overlay	Contract awarded 7/7/20
Subtotal: Construction Contract Awarded	-\$3,064,322	-\$7,312,753	-\$10,377,076		
<i>Washington Avenue Improvements</i>		-\$2,710,463	-\$2,710,463	<i>Mill and Overlay</i>	<i>Rebid</i>
<i>2020 Street Preservation Phase 3</i>	-\$255,678		-\$255,678	<i>Street Preservation - Thin Overlay HMAC</i>	<i>30% Complete</i>
<i>2019 Street Reclamation</i>		-\$1,700,000	-\$1,700,000	<i>Street Reclamation</i>	<i>60% Design</i>
<i>Texas Central Parkway Improvements</i>		-\$3,100,000	-\$3,100,000	<i>Mill and Overlay</i>	<i>90% Design</i>
<i>Dutton Avenue Improvements</i>		-\$2,300,000	-\$2,300,000	<i>Street, Pedestrian, Storm, Water, and Sewer Improvements</i>	<i>90% Design</i>
<i>Oak Road Improvements</i>		-\$1,200,000	-\$1,200,000	<i>Street Reconstruction</i>	<i>Bid Process</i>
<i>Franklin Avenue Improvements</i>		-\$450,000	-\$450,000	<i>Final Design - Two Way Conversion, Mill and Overlay</i>	<i>Design</i>
<i>4th Street Improvements</i>		-\$1,000,000	-\$1,000,000	<i>Final Design - Combination Project</i>	<i>Design</i>
<i>2019 Street Reclamation Phase 2</i>		-\$1,674,333	-\$1,674,333	<i>Street Reclamation (to be supplemented with FY20-21 Funds)</i>	<i>60% Design</i>
<i>Subtotal: Construction Pending</i>	-\$255,678	-\$14,134,796	-\$14,390,474		
Total Expenditures	-\$3,320,000	-\$21,447,549	-\$24,767,550		
Balance	\$0	\$452,451	\$452,450		

Pavement Condition Index (PCI) FY17-20



PUBLIC WORKS DEPARTMENT

Pavement Management Program Questions?



July 21, 2020

