

Road Repair and Accountability Act (SB 1) FY 19/20 Projects List

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City of Merced Measure V - Proposed Projects List



Senate Bill 1 (SB-1)

The Road Repair and Accountability Act

- April 28, 2017, Governor Brown signed the Road Repair and Accountability Act of 2017 (SB-1). SB 1 is a landmark transportation investment to rebuild California by fixing neighborhood streets, freeways and bridges in communities across California and targeting funds toward transit and congested trade and commute corridor improvements.
- WHERE DOES THE MONEY GO?
- California's state-maintained transportation infrastructure will receive roughly half of SB 1 revenue: **\$26 billion**. The other half will go to local roads, transit agencies and an expansion of the state's growing network of pedestrian and cycle routes. Each year, this new funding will be used to tackle deferred maintenance needs both on the state highway system and the local road system.
- Addresses years of unfunded road maintenance, rehabilitation and critical safety projects. Invests in "Complete Streets" projects uniquely tailored to the needs, preferences and functions of the people who live there.

Measure V Transportation Sales Tax



- Merced County voters approved November 8, 2016
- Half-cent Transportation Sales Tax over next 30 years
- Generate \$450 million over 30 years
- Fund Regional Projects, Local Projects, Transit and Administration
- 50% of Transportation Measure Funds
- Help Cities and County meet maintenance needs
- Rehabilitate aging transportation system
- Funds can be used for all phases of project development/implementation
- Funds can be used for new projects or programs, for safety improvements or for maintenance or operation of existing projects or programs




Local Project Funding - Potential Uses

- Pothole Repair
- Repaving Streets
- Bridge Repair or Replacement
- Traffic Signals
- Add Additional Lanes to Existing Streets and Roads
- Improve Sidewalks
- Bicycle or Pedestrian Facilities
- Separate Street Traffic from Rail Traffic



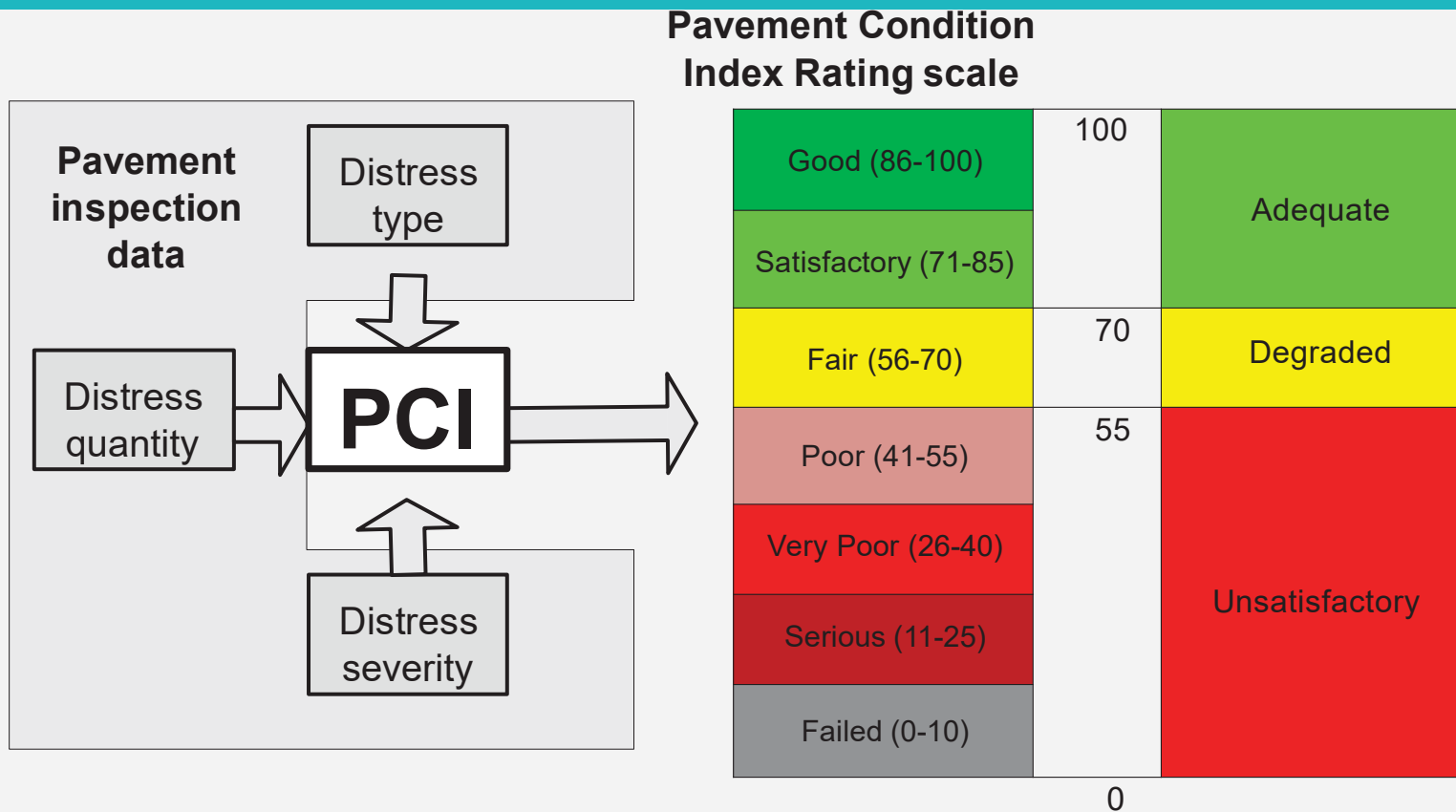
PAVEMENT CONDITION INDEX

BASED ON THE AUTOMATIC PAVEMENT ASSESSEMENT, THE CITY OF MERCED HAS A PAVEMENT CONDITION INDEX (PCI) OF 55. WHY IS THAT IMPORTANT?

	PCI	PCI	REPRESENTATIVE PAVEMENT SURFACE	REPAIR ALTERNATIVE
ROUTINE MAINTENANCE	86 - 100	90		Pavements with PCIs above 85 will benefit from routine maintenance actions, such as periodic crack sealing, periodic joint resealing, or patching.
PAVEMENT PRESERVATION	56-85	65		Pavements with a PCI of 56 (65 for PCC pavements) to 85 may require pavement preservation, such as a surface treatment, thin overlay, or PCC joint resealing.
MAJOR REHABILITATION	0 - 55	25		Pavement allowed to deteriorate below a PCI of 55 (65 for PCC) will require costly reconstruction to restore it to operational condition.

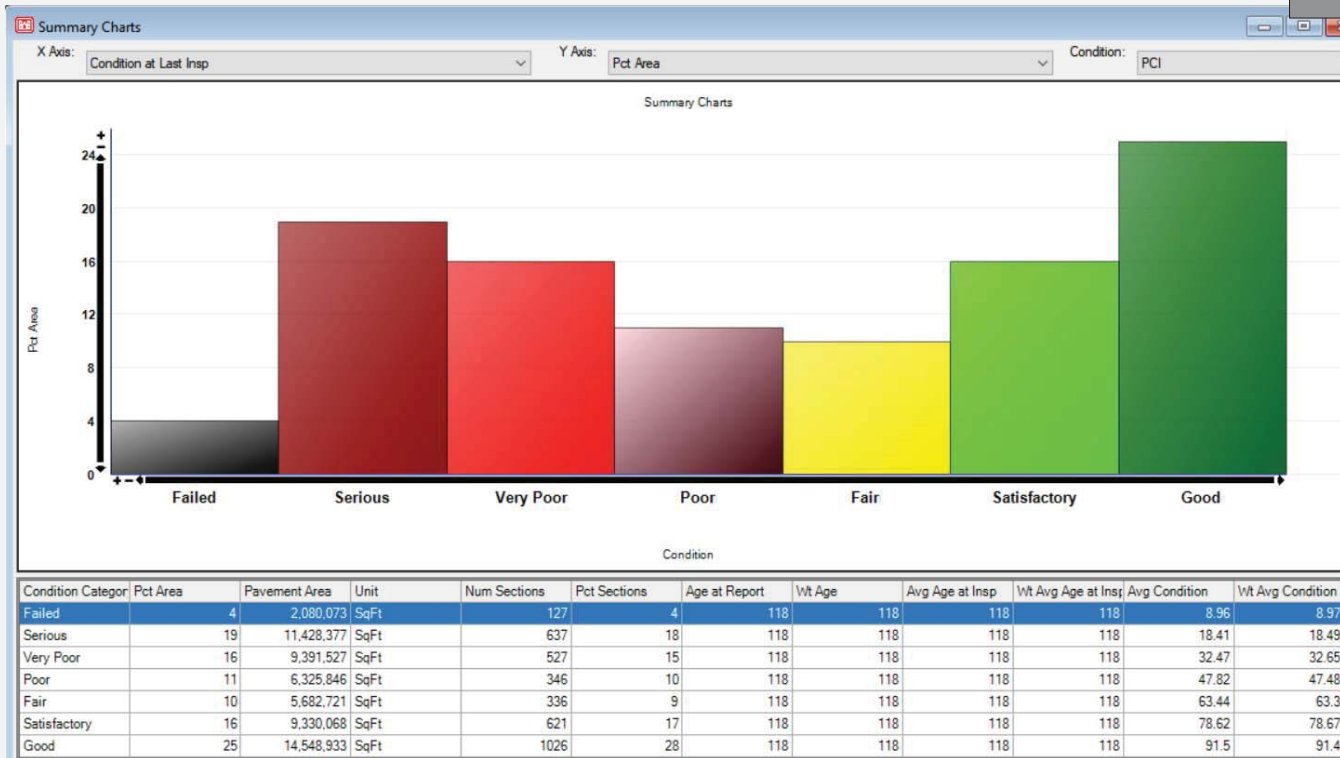
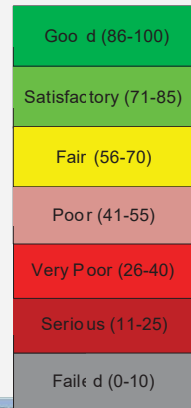
Pavement Condition Index (PCI)

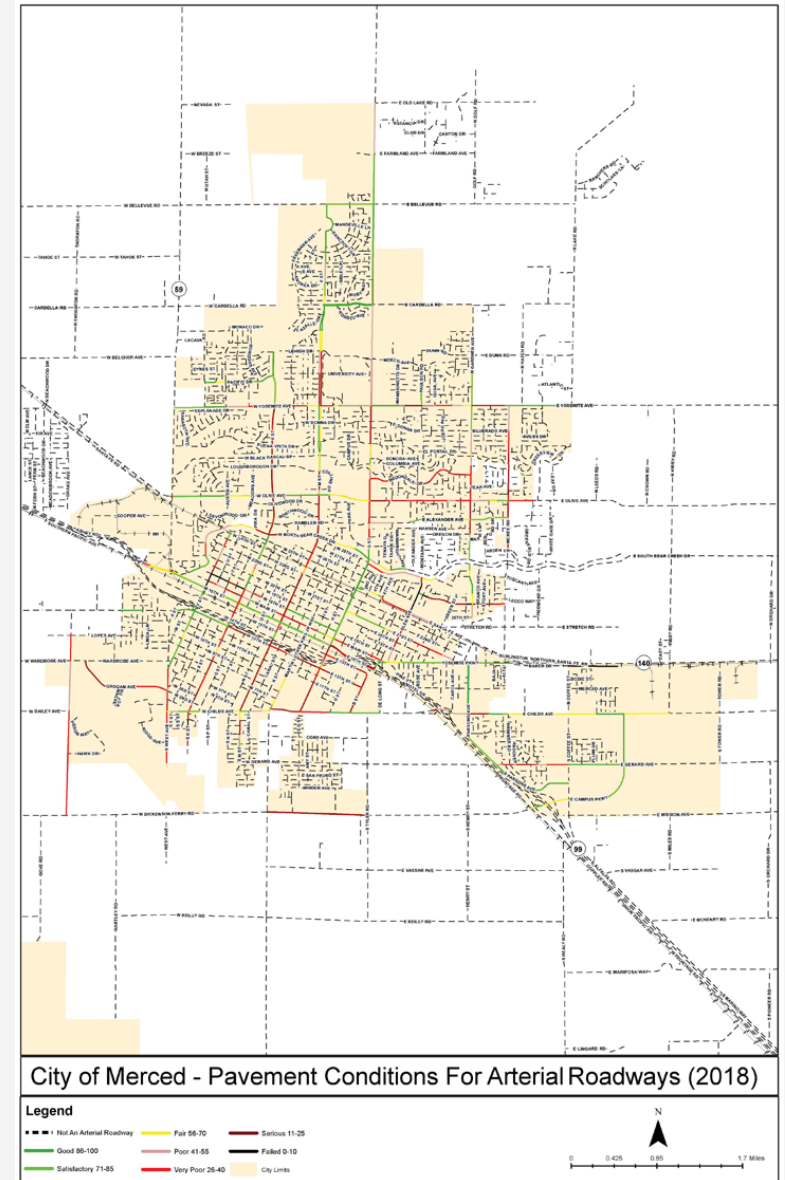
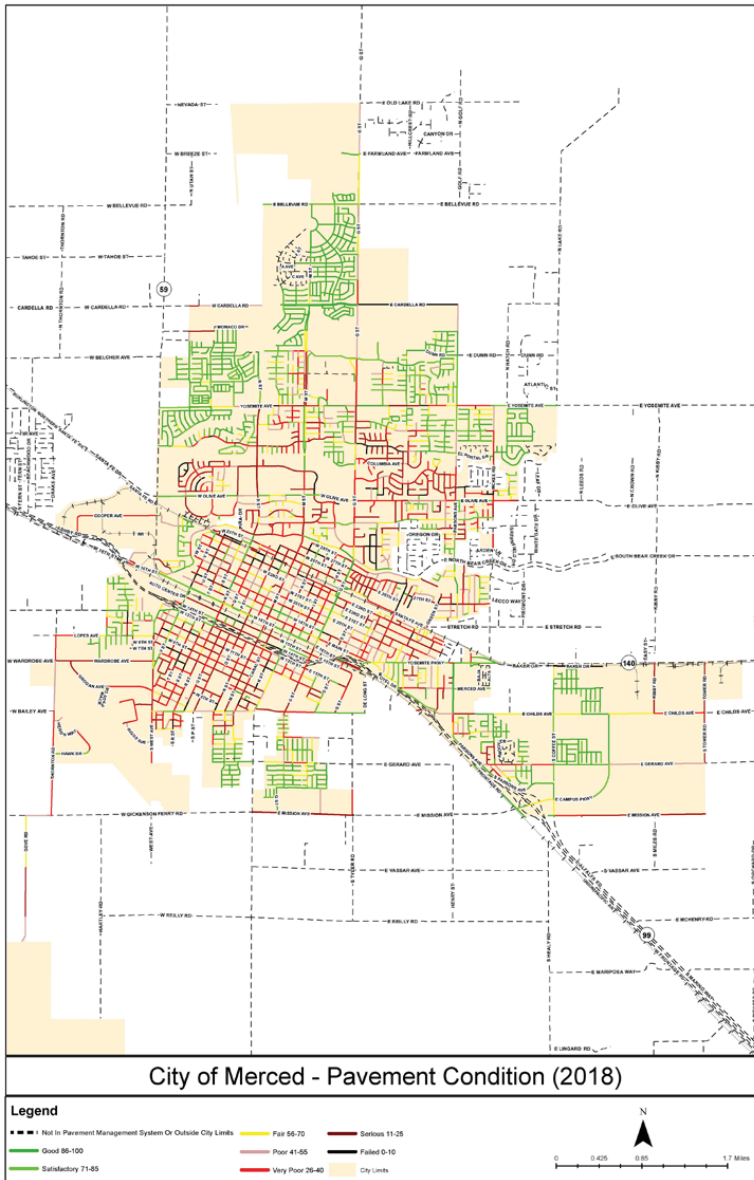
Prefer 7 Color or 3 Color?



Overall Pavement Condition

- Merced (City)
 - Overall Network Weighted Average PCI of Approximately 55
 - Approximately, 51% in fair to good condition





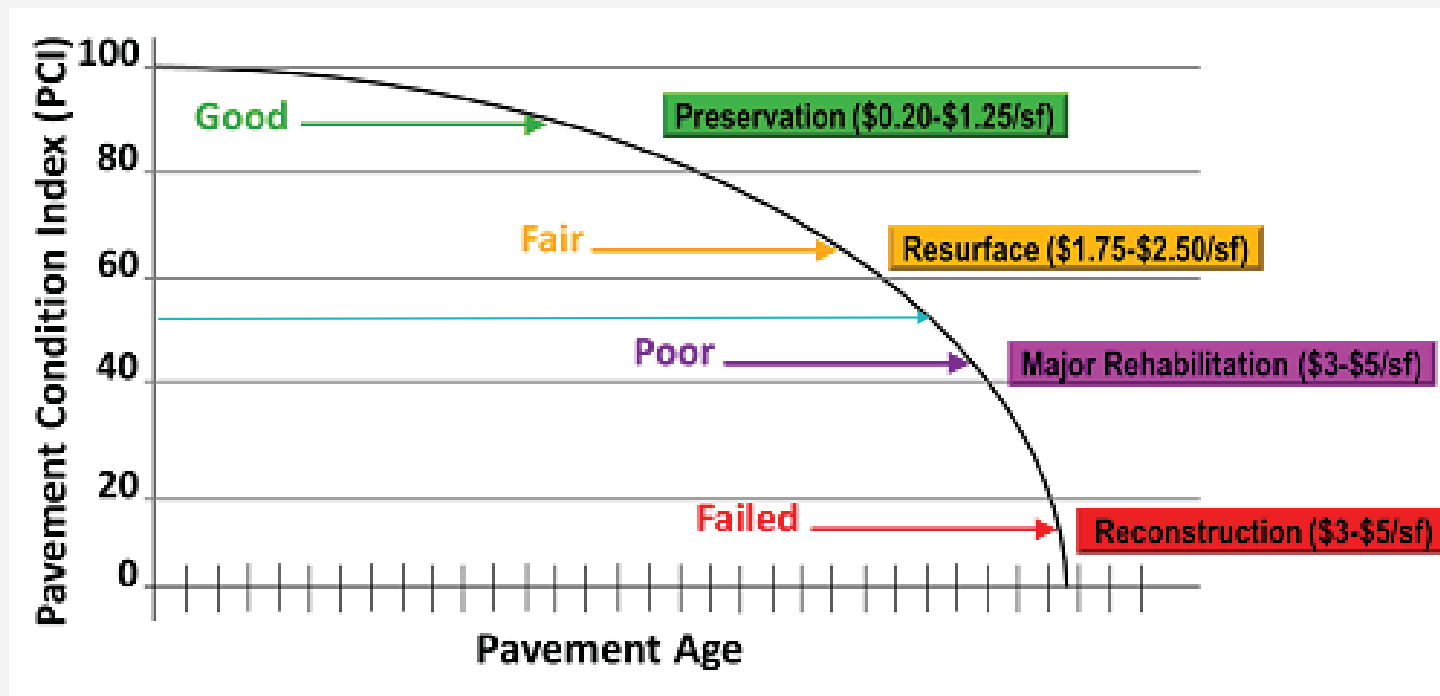
Projected SB 1 & Measure V Funds FY 17/18 to FY19/20

Funding Source	FY 2017/18	FY 2018/19	FY 2019/20	Total
SB1 (Fund 076)	\$ 484,186	\$ 1,498,634	\$ 1,435,854	\$ 3,418,674
Measure V (Fund 075)	\$ 324,689	\$ 310,892	\$ 292,146	\$ 927,727
Measure V (Fund 078)	\$ 1,176,569	\$ 1,243,569	\$ 1,460,730	\$ 3,880,868
Total =	\$ 1,985,444	\$ 3,053,095	\$ 3,188,730	\$ 8,227,269

Estimated Roadway Treatment Cost Per Mile

ROADWAY CLASSIFICATION	STREET LENGTH	ESTIMATED AREA (SF)	Roadway Full Re-Construction	Roadway Full Depth Reclamation	Grind & Overlay	Cape Seal	Scrub & Fog Seal
			ITEM TOTAL	ITEM TOTAL	ITEM TOTAL	ITEM TOTAL	ITEM TOTAL
Arterial Street	Mile	337920	\$ 2,200,000.00	\$ 1,689,600.00	\$ 1,352,000.00	\$ 470,000.00	\$ 226,000.00
Collector Street	Mile	232320	\$ 1,100,000.00	\$ 929,280.00	\$ 790,000.00	\$ 323,000.00	\$ 155,000.00
Local Street	Mile	168960	\$ 700,000.00	\$ 609,000.00	\$ 550,000.00	\$ 235,000.00	\$ 113,000.00

WHY IS THIS SIGNIFICANT?



THE CURRENT PCI OF 55 IS VERY IMPORTANT. THE GRAPH SHOWS WHAT RESOURCES WILL BE NECESSARY TO BEING THE CONDITION OF THE EXISTING PAVEMENT TO A HIGHER LEVEL. WHAT PCI LEVEL SHOULD THE CITY SET? PCI OF 60, 65 OR 70?

TYPES OF ROAD TREATMENT

MINOR ROAD TREATMENT

CRACK SEAL – INTEND TO SEAL CRACKS ON THE ROAD



FOG SEAL –
REJUEVENATE
THE OIL IN THE
ASPHALT



SLURRY SEAL –
WEARING/
SEALING
SURFACE

TYPES OF ROAD TREATMENT

MINOR ROAD TREATMENT

CHIP SEAL/ SCRUB SEAL

– EMULSION IS SPRAYED OVER THE ROAD AND “CHIP” (SMALL ROCKS) ARE APPLIED ON TOP OF THE ROAD



CAPE SEAL –
COMBINATION OF A
CHIP SEAL AND A
SLURRY SEAL

TYPES OF ROAD TREATMENT

MAJOR ROAD TREATMENT

GRIND & OVERLAY –
PLACEMENT OF NEW
ASPHALT CONCRETE ON
TOP OF EXISTING



**FULL DEPTH
RECLAMATION (FDR)** –
PULVERIZE IN-PLACE
ADDITION OF
LIME/CEMENT

Proposed SB 1 Projects List (FY 19/20)

Crack Filling Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
Olive Ave - (Hwy 59 to G Street)	10,300	\$ 67,700
G Street - (16th to 22nd)	2,400	\$ 13,000
16th Street - (V St to G St)	7,230	\$ 39,100
Yosemite (West of R St) w/Deep Patch	3,660	\$ 89,800
Total Estimated Cost:		\$ 209,600

Grind & Overlay Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
Yosemite Ave (Parsons to Mansionette) w/Deep Patch	3,360	\$ 737,100
M Street (13th to Childs Ave) w/Deep Patch	3,780	\$ 535,900
Total Estimated Cost:		\$ 1,273,000

Roadway Slurry Seal Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
Canal Street (Childs to 16th St)	4,900	\$ 83,300
East El Portal Ave (G St to Joerg)	4,000	\$ 84,000
West 26th Street (G St to M St)	3,000	\$ 51,000
Merced Ave (Parsons to Motel Dr)	2,900	\$ 52,200
Total Estimated Cost:		\$ 270,500

Road Improvement/Reconstruction Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
18th Street (R St to V St)	1,920	\$ 629,000
Glen Ave (Santa Fe to Bear Creek)	1,940	\$ 488,900
R Street (Olive Ave to Northwood Dr)	1,130	\$ 462,800
26th Street (Glen to 7th)	1,330	\$ 360,300
Childs Ave (Parsons to Campus Parkway) **	6,900	\$ 492,800
Total Estimated Cost:		\$ 2,433,800

Road Maintenance & Rehabilitation Programs and Material Purchase

Location	Approximate Quantity	Estimated Cost
Various Locations throughout City (SB 1)	LS	\$ 191,735
Various Locations throughout City (Measure V)	LS	\$ 255,000
Total Estimated Cost:		\$ 446,735

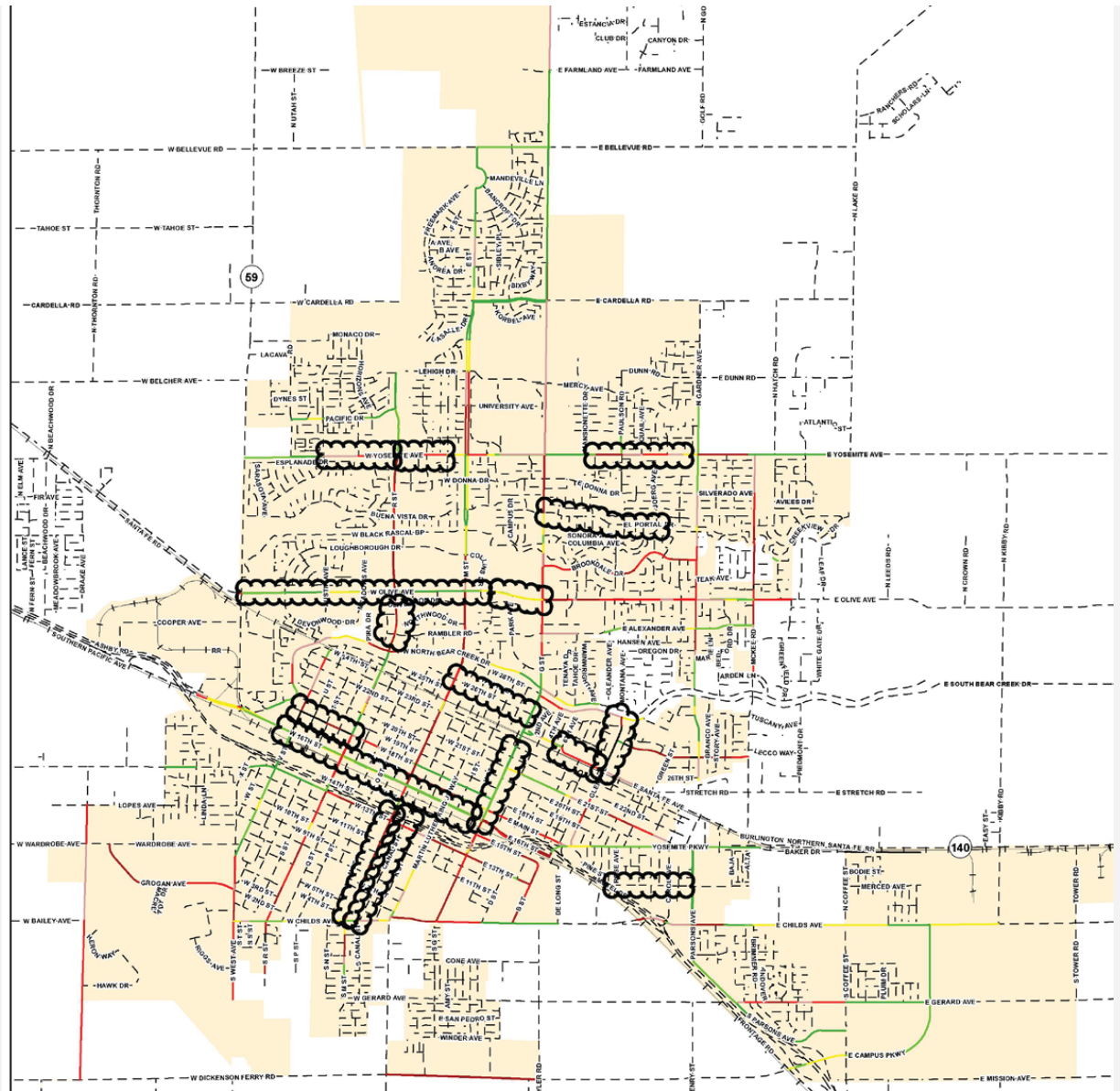
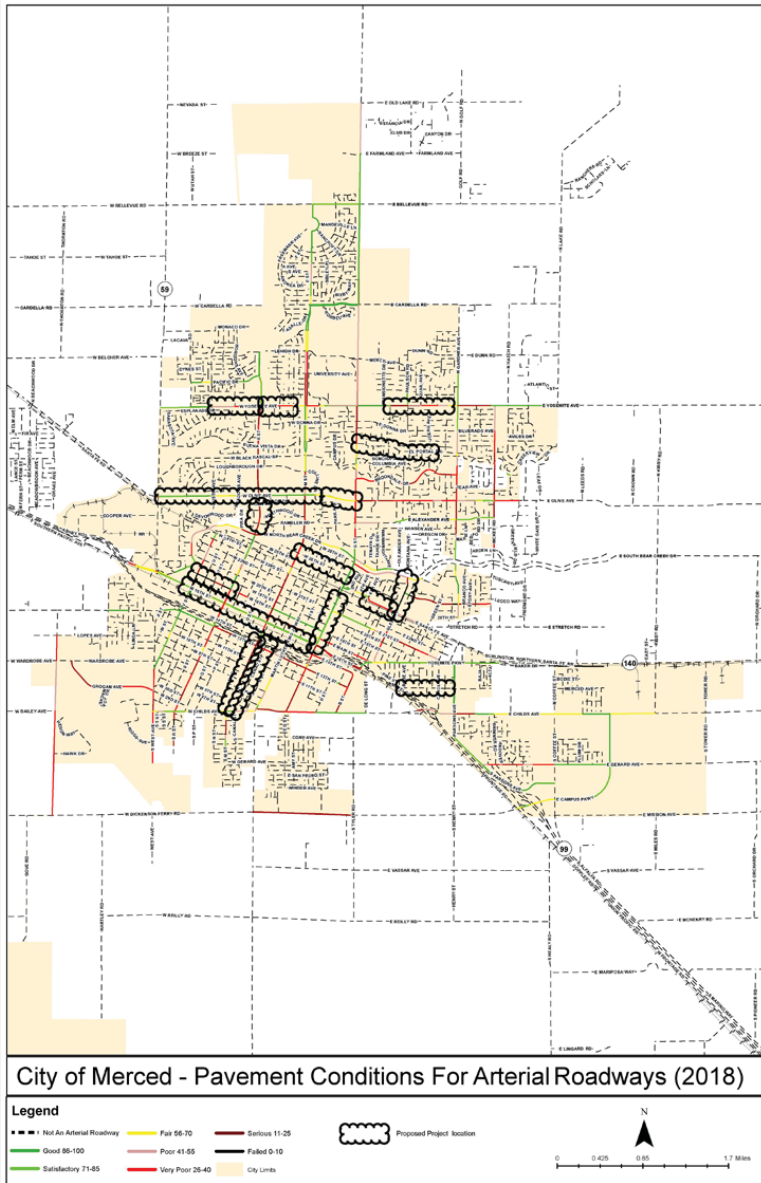
** - Propose moving it out to future year

Total Project Cost = \$ 4,633,635

Total SB 1 Funds FY19/20 = \$ 1,435,854

Total Measure V Funds FY19/20 = \$ 1,752,876

Total Funds (SB1 + V) = \$ 3,188,730



Existing SB 1 Projects List (FY 18/19)

Sidewalk Remove & Replace Projects

Location	Approximate Quantity (Square ft)	Estimated Cost
K, Canal, & 8th Streets (McNamara Park)	1,415	\$ 75,000
Seville Way	760	\$ 40,000
East Donna Drive	840	\$ 45,000
Q & 4th Streets	2,045	\$ 110,000
Q & 10 Streets	655	\$ 35,000
R & 10th Streets	100	\$ 5,000
Evelyn & Julie Drive	790	\$ 40,000
East 22nd St & Cherry Ave	190	\$ 10,000
Total Estimated Cost:		\$ 360,000

Curb & Gutter Remove & Replace Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
K Street	26	\$ 1,500
Q & 10th Streets	157	\$ 8,000
R & 10th/11th Streets	81	\$ 4,000
Evelyn Court	35	\$ 2,000
East 22nd St & Cherry Ave	31	\$ 1,500
V & 8th Streets	43	\$ 2,000
Total Estimated Cost:		\$ 19,000

Roadway Scrub Seal Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
Canal Street (Childs to 16th St)	4,900	\$ 152,300
East El Portal Ave (G St to Joerg)	4,000	\$ 124,400
West 26th Street (G St to M St)	3,000	\$ 93,300
Merced Ave (Parsons to Motel Dr)	2,900	\$ 90,000
Total Estimated Cost:		\$ 460,000

Road Improvement Projects

Location	Approximate Quantity (Linear ft)	Estimated Cost
Yosemite Ave (St. Augustine to SR 59)	1,500	\$ 300,000
Childs Ave (Parsons to Campus Parkway)	6,900	\$ 492,800
Total Estimated Cost:		\$ 792,800

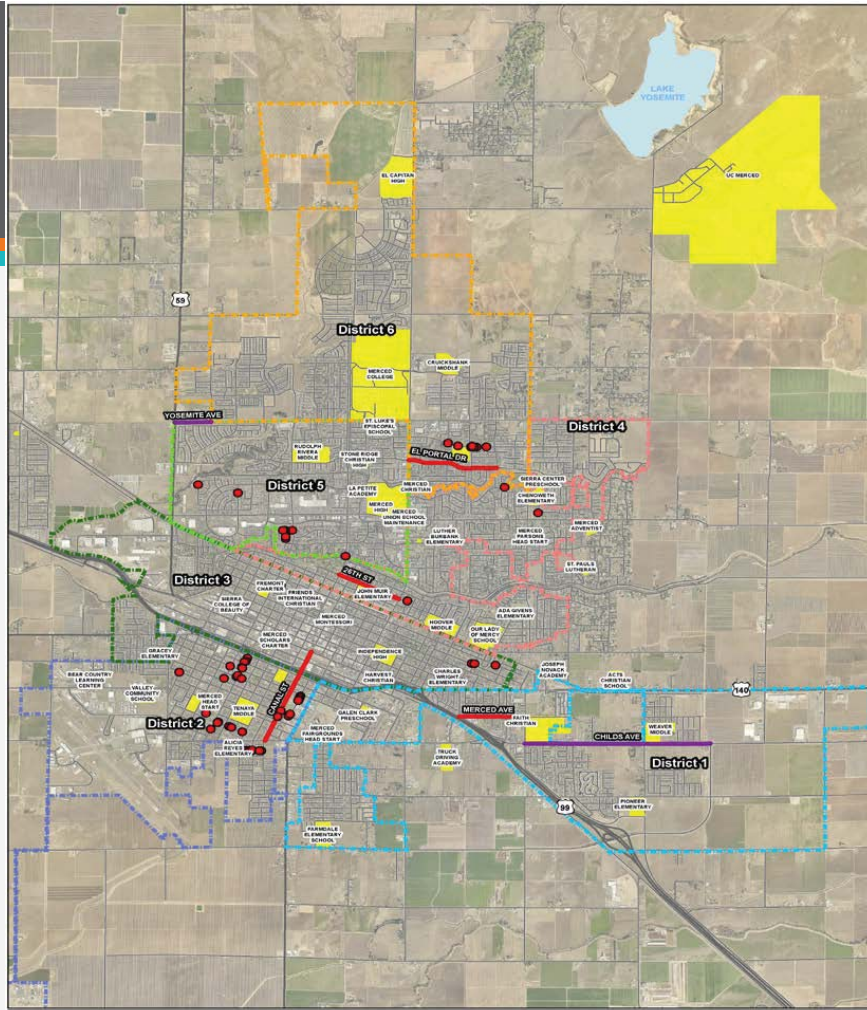
Road Maintenance & Rehabilitation Programs and Material Purchase

Location	Approximate Quantity	Estimated Cost
Various Locations throughout City		\$ 306,021
Total Estimated Cost:		\$ 306,021

Total Project Cost = \$ 1,937,821

Total SB 1 Funds FY17/8 & 18/19 = \$ 1,982,820

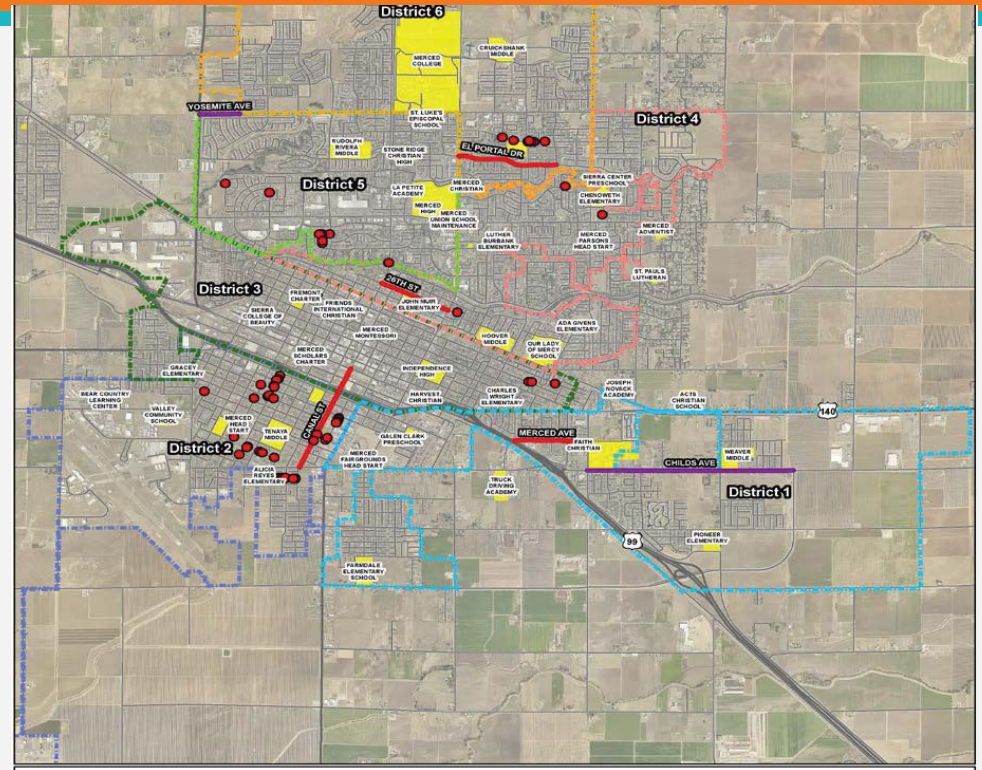
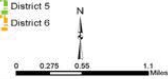
Existing SB 1 Projects List Location Map



City Of Merced - Various Projects

Legend

- Various Projects (Sidewalk & Curb and Gutter Replacement)
 - Scrub Seal Projects
 - Road Improvements
 - City Of Merced Roads
 - Schools
- City Of Merced Council Boundaries**
- District 1
 - District 2
 - District 3
 - District 4
 - District 5
 - District 6



City Of Merced - Various Projects

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