

PIMA COUNTY TRANSPORTATION ADVISORY SUBCOMMITTEE

August 8, 2019

Network Status  
And  
FY21 Department Recommendations



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**PIMA COUNTY**

# FY21 Road List Schedule

## With new PCI data

TAC Subcommittee Criteria Review and Public & Local Input	September - November
TAC Approval of Criteria	December
Data Prep Complete	December
Upload Dataset to StreetSaver	January
Run Scenarios	February
Prepare Bid Package road lists and submit to TAC and BOS for Information	March – April
FY21 Bid Packages to Procurement	May



### Miles by Functional Class and District

8/9/2019

PCI = projected FY2021 starting Network PCI after FY2020 programmed treatments applied

District:	1		2		3		4		5		Total	
	Miles	PCI	Miles	PCI								
Arterial/Collector	144.6	61	41.8	69	253.8	44	191.3	54	36.0	74	667.6	54
Local	456.9	28	55.1	38	311.7	40	303.9	41	108.4	37	1,236.1	35
Total	601.6	-	96.9	-	565.5	-	495.2	-	144.4	-	1,903.7	-

### FY 2021 conditions following programmed FY2020 treatments

#### All Unincorporated Pima County

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	2%	27%		15%	44%
II / III - Good	1%	6%		11%	17%
IV - Poor	4%	8%		5%	17%
V - Fail	3%	18%		0%	21%
<b>Total</b>	<b>10%</b>	<b>59%</b>		<b>31%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good			9%		9%
II / III - Good			15%		15%
IV - Poor			36%		36%
V - Fail			40%		40%
<b>Total</b>			<b>100%</b>		<b>100%</b>

#### District 2

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	5%	34%		25%	63%
II / III - Good	0%	0%		27%	27%
IV - Poor	6%	1%		3%	10%
V - Fail	0%	0%		0%	0%
<b>Total</b>	<b>10%</b>	<b>35%</b>		<b>55%</b>	<b>100%</b>

Condition	Arterial	Collector	Res/Loc	Other(UHV)	Total
I - Very Good			15%		15%
II / III - Good			12%		12%
IV - Poor			44%		44%
V - Fail			30%		30%
<b>Total</b>			<b>100%</b>		<b>100%</b>

#### District 4

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	3%	35%		10%	49%
II / III - Good	1%	7%		5%	12%
IV - Poor	12%	7%		4%	23%
V - Fail	0%	15%		0%	15%
<b>Total</b>	<b>16%</b>	<b>64%</b>		<b>19%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good			11%		11%
II / III - Good			27%		27%
IV - Poor			29%		29%
V - Fail			33%		33%
<b>Total</b>			<b>100%</b>		<b>100%</b>

#### District 1

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	0%	13%		32%	46%
II / III - Good	0%	2%		21%	23%
IV - Poor	0%	5%		14%	19%
V - Fail	0%	12%		0%	12%
<b>Total</b>	<b>0%</b>	<b>32%</b>		<b>68%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good			5%		5%
II / III - Good			6%		6%
IV - Poor			40%		40%
V - Fail			51%		51%
<b>Total</b>			<b>100%</b>		<b>100%</b>

#### District 3

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	2%	26%		4%	32%
II / III - Good	1%	11%		6%	17%
IV - Poor	0%	11%		1%	12%
V - Fail	9%	30%		0%	39%
<b>Total</b>	<b>12%</b>	<b>77%</b>		<b>11%</b>	<b>100%</b>

Condition	Arterial	Collector	Res/Loc	Other(UHV)	Total
I - Very Good			12%		12%
II / III - Good			18%		18%
IV - Poor			34%		34%
V - Fail			37%		37%
<b>Total</b>			<b>100%</b>		<b>100%</b>

#### District 5

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good	3%	46%		24%	73%
II / III - Good	0%	1%		10%	12%
IV - Poor	0%	8%		7%	15%
V - Fail	0%	0%		0%	0%
<b>Total</b>	<b>3%</b>	<b>55%</b>		<b>41%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
I - Very Good			11%		11%
II / III - Good			18%		18%
IV - Poor			36%		36%
V - Fail			35%		35%
<b>Total</b>			<b>100%</b>		<b>100%</b>

### Condition

Condition categories are established in StreetSaver to group ranges of PCI into treatment type categories. Separate ranges can be created for each functional class and each pavement type. Currently we are using the following ranges:

	Arterials	collectors	Residential	Other(UHV)
I - Very Good	90	60	90	50
II / III - Good	60	50	50	40
IV - Poor	50	25	40	25
V - Fail	25	0	25	0

### Other(UHV)

Other is a functional class provided by StreetSaver. This functional class is used for Urban High Volume (UHV) arterials and collectors, for example Campbell Av and Valencia Rd. These roads are differentiated from rural arterials and collectors, for example Sahuarita Rd and Arivaca Rd. Different treatments can then be programmed, for example a poor UHV road could receive a capeseal and a poor arterial could receive a double chip seal.

<b>Miles by Functional Class and District</b>												8/9/2019	
PCI = projected FY2021 starting Network PCI after FY2020 programed treatments applied													
District:	1		2		3		4		5		Total		
	Miles	PCI	Miles	PCI									
Arterial/Collector	144.6	61	41.8	69	253.8	44	191.3	54	36.0	74	667.6	54	
Local	456.9	28	55.1	38	311.7	40	303.9	41	108.4	37	1,236.1	35	
Total	601.6	-	96.9	-	565.5	-	495.2	-	144.4	-	1,903.7	-	

**FY 2021 conditions following programmed FY2020 treatments**

<b>All Unincorporated Pima County</b>					
Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
<b>I - Very Good</b>	2%	27%		15%	44%
<b>II / III - Good</b>	1%	6%		11%	17%
<b>IV - Poor</b>	4%	8%		5%	17%
<b>V - Fail</b>	3%	18%		0%	21%
<b>Total</b>	<b>10%</b>	<b>59%</b>		<b>31%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
<b>I - Very Good</b>			9%		9%
<b>II / III - Good</b>			15%		15%
<b>IV - Poor</b>			36%		36%
<b>V - Fail</b>			40%		40%
<b>Total</b>			<b>100%</b>		<b>100%</b>

<b>District 1</b>					
Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
<b>I - Very Good</b>	0%	13%		32%	46%
<b>II / III - Good</b>	0%	2%		21%	23%
<b>IV - Poor</b>	0%	5%		14%	19%
<b>V - Fail</b>	0%	12%		0%	12%
<b>Total</b>	<b>0%</b>	<b>32%</b>		<b>68%</b>	<b>100%</b>

Condition*	Arterial	Collector	Res/Loc	Other(UHV)*	Total
<b>I - Very Good</b>			5%		
<b>II / III - Good</b>			6%		
<b>IV - Poor</b>			40%		
<b>V - Fail</b>			51%		
<b>Total</b>			<b>100%</b>		

<b>District 2</b>					
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>	5%	34%		25%	63%
<b>II / III - Good</b>	0%	0%		27%	27%
<b>IV - Poor</b>	6%	1%		3%	10%
<b>V - Fail</b>	0%	0%		0%	0%
<b>Total</b>	<b>10%</b>	<b>35%</b>		<b>55%</b>	<b>100%</b>
<b>Condition</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)</b>	<b>Total</b>
<b>I - Very Good</b>			15%		
<b>II / III - Good</b>			12%		
<b>IV - Poor</b>			44%		
<b>V - Fail</b>			30%		
<b>Total</b>			<b>100%</b>		

<b>District 3</b>					
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>	2%	26%		4%	32%
<b>II / III - Good</b>	1%	11%		6%	17%
<b>IV - Poor</b>	0%	11%		1%	12%
<b>V - Fail</b>	9%	30%		0%	39%
<b>Total</b>	<b>12%</b>	<b>77%</b>		<b>11%</b>	<b>100%</b>
<b>Condition</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)</b>	<b>Total</b>
<b>I - Very Good</b>			12%		
<b>II / III - Good</b>			18%		
<b>IV - Poor</b>			34%		
<b>V - Fail</b>			37%		
<b>Total</b>			<b>100%</b>		

<b>District 4</b>					
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>	3%	35%		10%	49%
<b>II / III - Good</b>	1%	7%		5%	12%
<b>IV - Poor</b>	12%	7%		4%	23%
<b>V - Fail</b>	0%	15%		0%	15%
<b>Total</b>	<b>16%</b>	<b>64%</b>		<b>19%</b>	<b>100%</b>
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>			11%		
<b>II / III - Good</b>			27%		
<b>IV - Poor</b>			29%		
<b>V - Fail</b>			33%		
<b>Total</b>			<b>100%</b>		

<b>District 5</b>					
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>	3%	46%		24%	73%
<b>II / III - Good</b>	0%	1%		10%	12%
<b>IV - Poor</b>	0%	8%		7%	15%
<b>V - Fail</b>	0%	0%		0%	0%
<b>Total</b>	<b>3%</b>	<b>55%</b>		<b>41%</b>	<b>100%</b>
<b>Condition*</b>	<b>Arterial</b>	<b>Collector</b>	<b>Res/Loc</b>	<b>Other(UHV)*</b>	<b>Total</b>
<b>I - Very Good</b>			11%		
<b>II / III - Good</b>			18%		
<b>IV - Poor</b>			36%		
<b>V - Fail</b>			35%		
<b>Total</b>			<b>100%</b>		

**Condition**

Condition categories are established in StreetSaver to group ranges of PCI into treatment type categories. Separate ranges can be created for each functional class and each pavement type. Currently we are using the following ranges:

	Arterials		collectors		Residential		Other(UHV)	
<b>I - Very Good</b>	90	60	90	50	Do Nothing		90	70
<b>II / III - Good</b>	60	50	50	40	Worst First		70	50
<b>IV - Poor</b>	50	25	40	25	50	25	50	25
<b>V - Fail</b>	25	0	25	0	25	0	25	0

**Other(UHV)**

Other is a functional class provided by StreetSaver. This functional class is used for Urban High Volume (UHV) arterials and collectors, for example Campbell Av and Valencia Rd. These roads are differentiated from rural arterials and collectors, for example Sahuarita Rd and Arivaca Rd. Different treatments can then be programmed, for example a poor UHV road could receive a capeseal and a poor arterial could receive a double chip seal.

## FY21 Department Recommendations

- Overall \$ distribution: by district or to allow PCI to rise uniformly across region for greater equity and efficiency
- Road type \$ distribution: 50% local and 50% arterial/collector:
- Arterial/collector selection/treatment criteria: allow the department to prioritize based on greatest ROI modeling
- Local road selection criteria refined with community input: worse first with sub criteria as determined by TAC