



MTC P-TAP Round 22

Pavement Management System Update

Data Collection &

Quality Management Report

March 17, 2022

Submit to:

Metropolitan Transportation Commission
&
City of Monte Sereno
Engineering Department



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1 Executive Summary

Metropolitan Transportation Commission (“MTC”) has contracted with Adhara Systems, Inc. (“ADHARA”) for its Pavement Management Technical Assistance Program (P-TAP) Round 22 and assigned ADHARA to the City of Monte Sereno, California (“CITY”) for its Pavement Management Systems Update Project (“PROJECT”) in 2021. CITY uses StreetSaver Online Pavement Management Program (“PMP”) software developed by MTC.

In general, the Project consists of:

- 1) obtaining and updating information on attributes changes of the sections in CITY ’s road network,
- 2) performing a pavement condition survey,
- 3) performing quality control following Quality Assurance (“QA”)/Quality Control (“QC”) plan,
- 4) updating CITY’s existing StreetSaver Online PMS database with the distress information collected in the inspection, and
- 5) reviewing CITY’s treatment scenario with unit cost and determining impacts of funding levels on CITY’s road network.

Additionally, the work scope includes updating StreetSaver GIS Tool following inventory update. Work scope items 1) to 4) is described in this document. Work scope item 5) is described in a separate document titled “Budget Options Report”.

CITY manages 88 sections, 13.53 centerline miles (26.30 lane miles, 2.02 million ft²) of road network. During 2020 and 2021, CITY maintained 20 sections, 443 thousand ft² (21.8% of total network area).

Through the PROJECT, ADHARA evaluated a total of 13.7 lane miles (12 feet wide) for 13.5 centerline mile of CITY’s managed network in December 2021. Total sampled and evaluated area was 868.7 thousand ft² for total inventory area of 2.02 million ft². Resulted sampling rate was 43.0%. Sections received M&R in 2020 and 2021 are excluded from the final inspection units uploading file.

CITY's pavement conditions is resulted in a current weighted network average Pavement Condition Index ("PCI") of 72 as of March 17, 2022. This PCI rating places the CITY's street network condition in "GOOD" ($70 \leq \text{PCI} \leq 100$) category.

2 Project Purpose

The purpose of this project is to update CITY's StreetSaver database for 2021. This report presents the results of the pavement survey of work scope, including an overall PCI evaluation on the entire network, a section-by-section current PCI rating, and a discrepancy list on the surveyed section attributes such as start/end locations, width, length, and areas. All budget-related issues are excluded from this report and prepared separately in the Budget Options Report.

ADHARA conducted the pavement condition survey using its automated condition survey approach, combining a vehicle-driven, computerized data collection system for detecting crack distresses and visual observation for detecting non-crack pavement distresses. Appendix E describes the details of ADHARA's methodology.

The survey was scheduled and conducted in December 2021. After corrections of the section inventory and QA/QC on the survey data, ADHARA entered the collected inspection units into CITY's StreetSaver database to evaluate the network condition.

3 Network Description

CITY’s managed network consists of 13.53 centerline miles, 26.30 lane miles, 2.02 million ft² of street, or 88 pavement sections. Appendix B shows the Network Summary Statistics

Table 1 and Figure 1 summarize the network inventory by functional classes. The network breakdown is as follows:

Functional class	No. of sections	Centerline miles	Area (1,000 yd ²)	% of area (Weight)	Area (1,000 ft ²)	No of Lane-Mile
Arterial	2	0.37	10.5	4.7%	94.5	0.69
Collector	1	0.02	0.4	0.2%	3.6	0.05
Residential	85	13.14	213.4	95.1%	1,920.9	25.56
Total	88	13.53	224.3	100.0%	2,019.1	26.30

Table 1. Summary of CITY’s road network

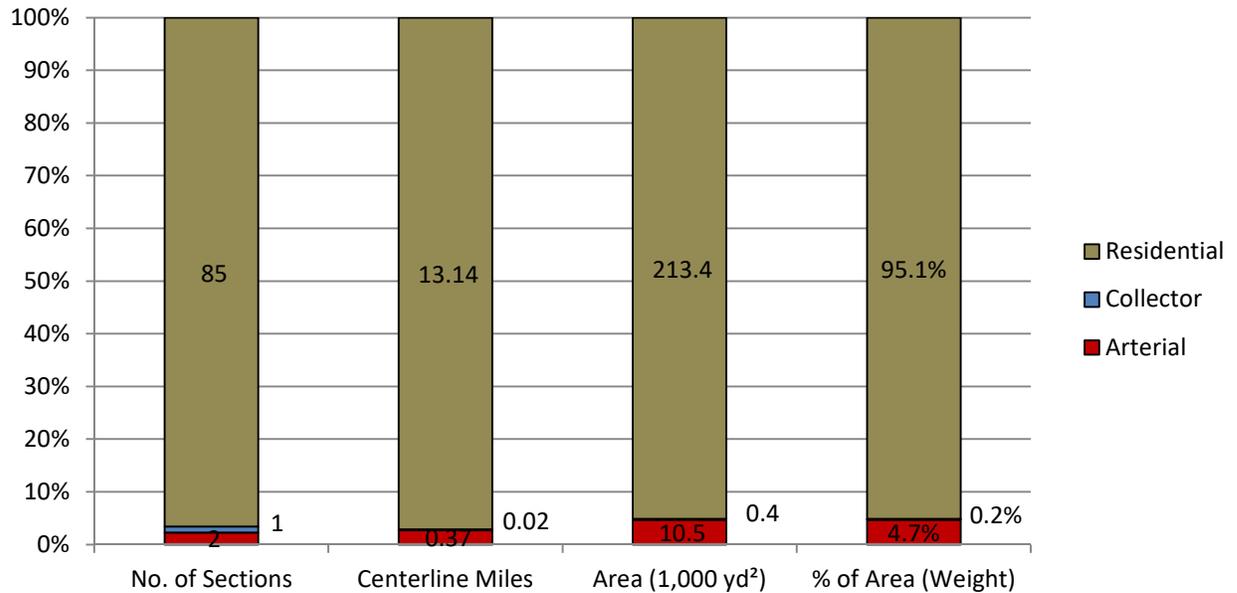


Figure 1. CITY’s road network

4 Inventory Review and Update

The standard ADHARA inventory review and update are conducted in three tasks. Found inventory discrepancies are listed in Appendix A Inventory Update.

4.1 The first inventory review task method is measurement of sections. ADHARA reviews pavement inventory that can detect measurement errors in width, length, area, and the number of lanes of pavement sections in a simple manner.

The first step of this review is to detect incorrect width and the number of lanes of sections. The relationship between the number of lanes and the width of a section can be generally explained in the following equation.

$$9 \text{ ft.} < \text{Average Lane Width of a Section (i.e., Width / Number of lanes)} < 20 \text{ ft.}$$

ADHARA calculated the average lane width of sections in the work scope and reviewed sections with abnormal lane width.

The second step for review of measurement sections is to detect incorrect length, width, and area of sections. ADHARA utilizes the ratio between a section area and a product of the section length and width. It is common that the product of the width and length of a section does not fit to the section area as sections are, in many cases, not in a rectangular shape and have various width. For example, a cul-de-sac section normally has a ratio that is smaller than 1 due to a bulb area. An example of an area ratio bigger than 1 is a section that has either decorative blocks or PCC parts inside, which are subtracted from the area measurement. Considering those factors, ADHARA establishes the following allowable ratio range and identifies the sections that are outside of the range.

$$0.6 < \text{Length} \times \text{Width} / \text{Section Area} < 1.4$$

ADHARA calculated the allowable ratio range for all inventory sections in PROJECT.

4.2 The second inventory task is done during field work planning. Since ADHARA utilizes a customized vehicle in surveying pavement conditions, it is essential to make safe and efficient driving plans. In planning survey routes, ADHARA utilizes various resources such as developed GIS layer,

Microsoft and Google map services to compare the Section Description (“SD”) in the PMS to the resources. This comparison helped the inventory review.

4.3 The third inventory review task is to generate another discrepancy list, summarizing the findings from the field work. ADHARA’s survey method collects both distresses on the pavement and digital distance measurements, surveyed length, from the start to the end of each section. ADHARA compared the surveyed length to the section length in PMS and found that there were no abnormal section length discrepancies for the surveyed sections.

4.4 The last inventory review is checking Functional Class of each pavement section. ADHARA provides the current Functional Class in GIS and review with CITY to check if there is any discrepancy.

5 Survey

ADHARA generated a work scope list for full CITY road network. Table 2 shows the summary of final list of sections those were surveyed in this project.

Functional Class	No. of surveyed section-lanes	Sum of sampled area (1000 ft ²)	Sum of network section area for work scope (1000 ft ²)	Sampling rate (%)
Arterial	4	23.6	94.5	25.0%
Collector	1	1.6	3.6	43.3%
Residential	89	843.5	1920.9	43.9%
Total	94	868.7	2,019.1	43.0%

Table 2. Project work scope

ADHARA conducted the pavement condition survey in December 2021. All sections in the work scope list were surveyed using ADHARA’s automated survey method. During the survey, ADHARA’s automated survey system captured pavement images, which were analyzed to detect crack-related distresses of pavement sections. In the project, approximately 43% of the work scope area was evaluated. The analysis results were merged with non-crack-related distresses collected in the field to generate inspection units list for StreetSaver. Subsequently, the collected pavement distress type, extent, and severity were entered into StreetSaver Online to calculate the PCI for each pavement section surveyed. Excluding sections which received M&R in 2020 and 2021, 72 sections were updated.

6 Analysis and Quality Assurance / Quality Control

ADHARA performed an in-depth analysis of the PCI calculation results. The detailed description of this analysis is explained in the next section. ADHARA followed up the analysis by conducting QA and QC tasks through section-by-section comparisons between the previous and updated PCI values.

The main criteria of the QA and QC tasks were any sections with sharp decline or increment of PCI from the last known PCI. The images captured during the survey were utilized to review these sections and led the in-depth study to conclude that the new PCIs are correct. The PCI calculation summary for the surveyed sections is presented in Appendix C.

Another QA/QC step is that ADHARA re-inspects more than 5% of the total number of management sections in the survey scope by someone different from the initial inspector to ensure consistency among inspections and compliance with MTC's QA/QC requirements as follows:

- 50 % or more must have a difference within plus or minus 5 PCI points
- No more than 12 % can have a difference greater than plus or minus 15 PCI points

For the re-inspection, 10 sections (i.e., 11.2 % of 89 sections in the work scope) were randomly selected and evaluated. The result was that 90 % of the 10 sections (9 sections) had a PCI difference within plus or minus 5 PCI points, thus meeting the first criteria. No section (0.0 % of 15 sections) had a PCI difference greater than plus or minus 15 PCI points, thus also meeting the second criteria.

In addition, ADHARA reviewed 12 sections which were different more than 15 PCI point compare to the projected PCI value using collected images. Images were re-evaluated if PCI result does not match with images.

7 Results

PCI is updated and reviewed in two ways. The first is when there are certain M&R activities and/or inspection data entered. In this case, the PCI value is valid only for the sections in which M&R activities and/or inspection data are entered on that specific date. The second is more comprehensive in that it not only calculates PCI for the sections with recent M&R and/or inspection data, but also projects PCI based on deterioration curves for the sections where no recent M&R and/or inspection data are

entered. In this case, the calculation date is important, as it provides the base to calculate the “current” PCI. The PCI evaluation results shown in this section describe the output through the latter method.

Current weighted average PCI of CITY’s network is 72 as of March 17, 2022.

The following illustrates the weighted average PCI of CITY’s network by functional class. As shown in Table 3, all functional classes are in “Good” (70<=PCI<= 100) condition. A section by section Current PCI listing as of March 17, 2022, is presented in Appendix D and Appendix B presents the Network Summary Statistics.

Functional Class	No. of Sections	Weighted Average PCI	Centerline miles	Area (1,000 yd ²)	% of Area (Weight)
Arterial	2	76	0.37	10.4	4.7%
Collector	1	41	0.02	0.4	0.2%
Residential	85	72	13.14	213.4	95.1%
Total/Average	88	72	13.53	224.3	100.0%

Table 3. Weighted PCI average by functional class

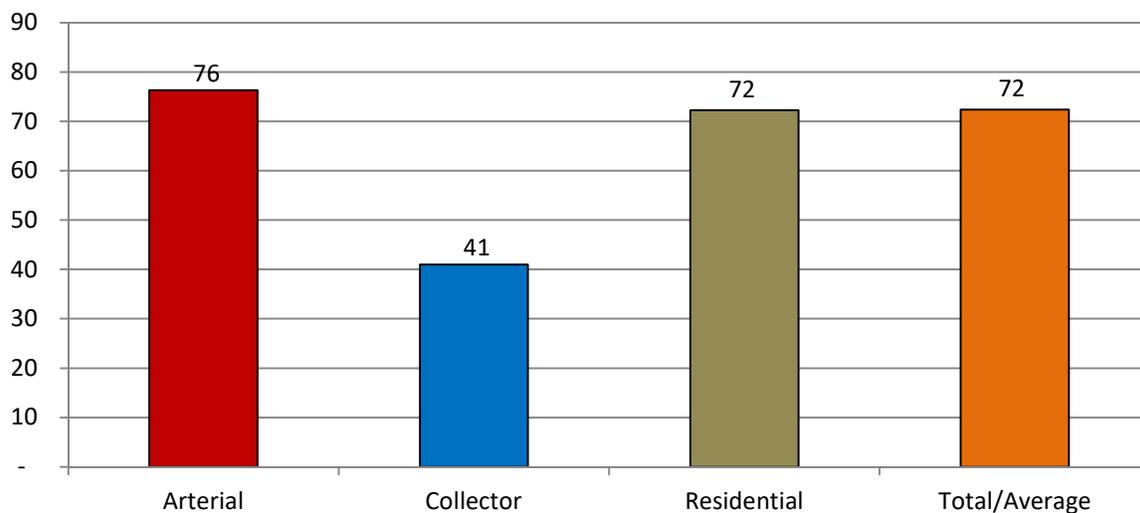


Figure 2. Weighted PCI average by functional class

The following table and figure show CITY’s network statistics in terms of the PCI rating categories. The PCI rating categories are from those of StreetSaver Online V9.

PCI Ratings	No. of sections	Centerline miles	Area (1,000 yd ²)	% in Area
Good (70<=PCI<=100)	59	8.2	135.9	60.6%
At Risk (50<=PCI<70)	20	4.3	72.5	32.3%
Poor (25<=PCI<50)	9	1.0	16.0	7.1%
Very Poor (PCI<25)	0	0.0	0.0	0.0%
Total	88	13.5	224.3	100.0%

Table 4. PCI rating categories for the entire network

As the illustration shows, the conditions of 59 out of 88 sections, 60.6% in area, are categorized as “Good” (70<=PCI<=100), 9 sections are in “Poor” (25<=PCI<50) condition; and no section is in “Very Poor” (PCI<25) condition.

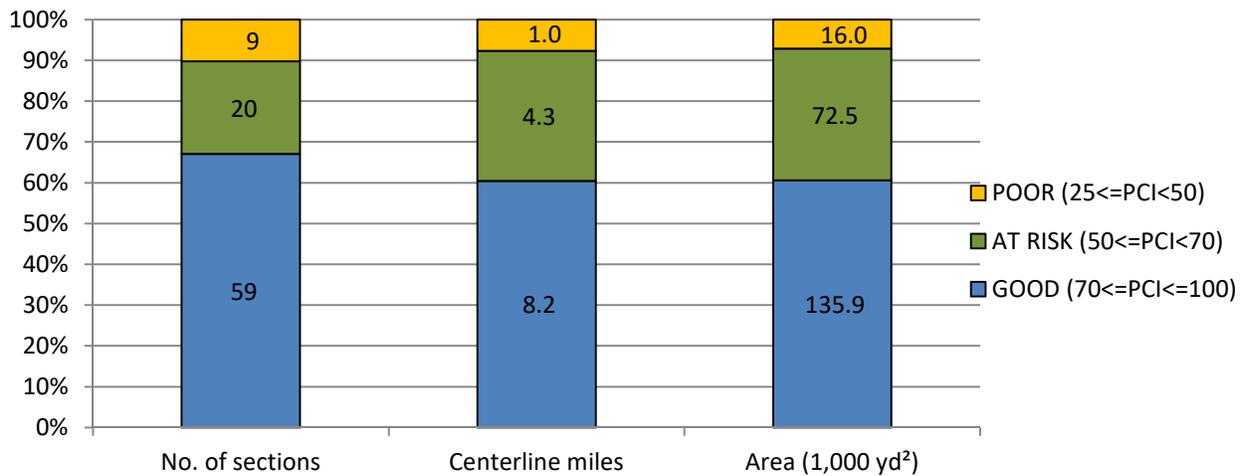
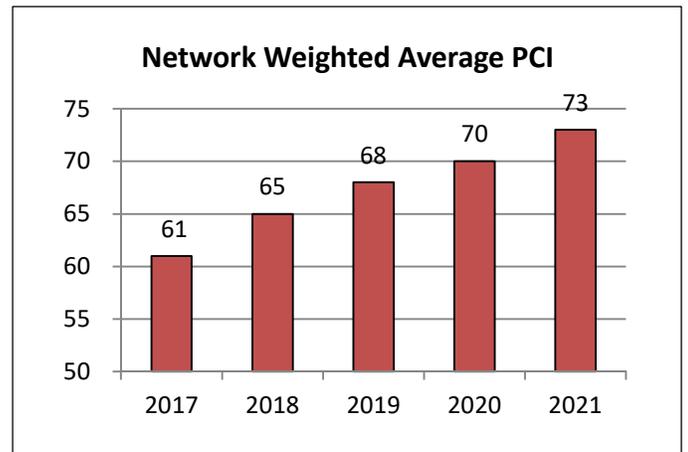


Figure 3. PCI rating categories for the entire network

8 Comments

CITY provided 2020 and 2021 M&R for ADHARA to updated StreetSaver database. As a result of M&R activity, the system projected the weighted average network PCI of 69 by the end of 2021. However, it is noted that CITY's weighted average is 4 PCI point higher than projected PCI. ADHARA finds that CITY's extensive M&R activities during 2018 and 2021 supports this PCI increase. During this period, 65% of the CITY's road network area received M&R.



Especially, 45% of the road network area received M&R in 2018 and 2019. ADHARA evaluated these sections in this project. CITY's network weighted average PCI as of March 17, 2022 is 72.

Appendix A: Inventory Update

STSECID	ST_ID	SEC_ID	Before Project									After Project									Changes
			ST_Name	Beg_Loc	End_Loc	Lanes	FC	LEN	Width_RD	Area_Sec	Sur_Type	ST_Name	Beg_Loc	End_Loc	Lanes	FC	LEN	Width_RD	Area_Sec	Sur_Type	
AUSTIN010	AUSTIN	010	AUSTIN WAY	HIGHWAY 9	QUITO RD	2 R		815	24	19560	A	AUSTIN WAY	HIGHWAY 9	QUITO RD	2 R		1000	24	24000	A	LEN & Area
BICKNL010	BICKNL	010	BICKNELL ROAD	ELM PARK	QUITO RD.	2	NCR	2855	39	111345	A	BICKNELL ROAD EB	QUITO RD	ELM PARK	1 R		2855	18	51390	A	Street Name, Beg, End, Lanes, FC, Width, and Area
CLARA010	CLARA	010	CLARA STREET	NATALYE ST.	LA RINCONADA RD.	2	R	515	30	15450	A	CLARA STREET	NATALYE ST.	LA RINCONADA RD.	2	R	515	30	15450	O	ST by M&R
HILLVL010	HILLVL	010	HILLVIEW DRIVE	CITY LIMIT SOUTH	OAK DR.	2	R	220	20	4400	A	HILLVIEW DRIVE	CITY LIMIT SOUTH	OAK DR.	2	R	650	20	13000	A	LEN & Area
LARINC10	LARINC	10	LA RINCONADA DRIVE	WINCHESTER BLVD.	CLARA ST.	2	NCR	726	30	21780	A	LA RINCONADA DRIVE EB	165FT W/O CLARA ST.	WINCHESTER BLVD.	1	R	890	21	18690	A	Street Name, Beg, End, Lanes, FC, LEN, Width, and Area
SANBWY010	SANBWY	010	SAN BENITO WAY	BRUCE AVE.	VISTA AVE.	2	NCR	250	28	7000	A	SAN BENITO WAY	143FT S/O VISTA AVE	VISTA AVE.	2	R	143	28	4004	A	Beg_Loc, FC, LEN & Area
VIALOM010	VIALOM	010	VIA LOMITA	BICKNELL RD.	END SOUTH	2	R	951	30	28530	O	VIA LOMITA	BICKNELL RD.	END SOUTH	2	R	1120	30	33600	O	LEN & Area
WINCHS010	WINCHS	010	WINCHESTER BOULEVARD	PLEASANT VIEW	VINELAND AVE	3	A	839	65	54535	O	WINCHESTER BOULEVARD	112FT S/O PLEASANT VIEW	VINELAND AVE	3	A	839	65	54535	O	Begin_Loc
ZENA010	ZENA	010	ZENA AVENUE	END WEST	LA RINCONADA DR.	2	R	1460	24	35040	A	ZENA AVENUE	END WEST	LA RINCONADA DR.	2	R	1460	24	35040	O	ST by M&R

STSECID	ST_ID	SEC_ID	ST_Name	Beg_Loc	End_Loc	Lanes	FC	LEN	Width_RD	Area_Sec	Sur_Type	Changes
WINCSB015	WINCSB	015	WINCHESTER BLVD SB	NAGPAL CT	VINELAND AVE	1	A	1110	36	39960	O	Added

Appendix B: Network Summary Statistics

Network Summary Statistics

Printed: 3/17/2022

	Total Sections	Total Center Miles	Total Lane Miles	Total Area (sq. ft.)	PCI
Arterial	2	0.37	0.69	94,495	76
Collector	1	0.02	0.05	3,640	41
Residential/Local	85	13.14	25.56	1,920,934	72
Total	88	13.53	26.30	2,019,069	
Overall Network PCI as of 3/17/2022:					72

**** Combined Sections are excluded from totals. These Sections do not have a PCI Date - they have not been inspected or had a Treatment applied.**

Appendix C: PCI Calculation Summary

Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	Last Calculated PCI	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pcr Other
ALEX	010	ALEXANDER AVENUE	BACHMAN CT	END NORTH	12/5/2021	54	47	49	45	71.48	28.52	0.00
ANDREW	010	ANDREWS STREET	ROSE AVE.	CITY LIMIT	12/5/2021	93	85	87	85	6.67	86.67	6.67
AUSTIN	010	AUSTIN WAY	HIGHWAY 9	QUITO RD	12/5/2021	39	56	85	24	45.36	53.59	1.05
BARRY	010	BARRY LANE	ROSE AVE.	END	12/5/2021	55	77	77	77	50.58	49.42	0.00
BLANCH	010	BLANCHARD DRIVE	WINCHESTER DR.	VINELAND AVE.	12/5/2021	100	85	87	83	15.64	82.91	1.45
BRCT	010	BRUCE COURT	BRUCE AVE.	END NORTH	12/5/2021	82	75	75	75	27.88	72.12	0.00
BRUCE	011	BRUCE AVENUE	SAN BENITO WAY	POPPY LANE	12/5/2021	50	57	65	51	49.39	45.51	5.10
BRUCE	020	BRUCE AVENUE	POPPY LANE	WEST END	12/5/2021	62	49	50	49	53.78	45.94	0.28
CARRL	010	CARRIL COURT	DAVES AVE.	END EAST	12/5/2021	73	75	75	75	36.00	64.00	0.00
CONSTU	010	CONSTITUTION AVENUE	DAVES AVE	END EAST	12/5/2021	46	48	70	26	51.85	46.68	1.46
CREEK	010	CREEKSIDE COURT	END WEST	WINCHESTER BLVD.	12/5/2021	100	78	93	70	48.94	51.06	0.00
DANPL	010	DANIELLE PLACE	BICKNELL RD.	END SOUTH	12/5/2021	61	72	72	72	55.16	44.84	0.00
DAVEA	010	DAVES AVENUE	WINCHESTER BLVD.	POPPY LN.	12/5/2021	77	75	84	68	19.62	77.77	2.61
DAVEB	020	DAVES AVENUE	POPPY LN.	300' W/O EQUESTRIAN WY	12/5/2021	68	69	76	57	20.94	76.86	2.20
DAVEC	030	DAVES AVENUE	300' W/O EQUESTRIAN WY	VIA CABALLERO	12/5/2021	79	70	75	65	15.49	84.22	0.28
DORAD	010	DORADO LANE	DAVES AVE.	END NORTH	12/5/2021	100	85	85	85	1.37	97.25	1.37
EATON	011	EATON LANE	KARL AVE	VIA DEL SUR	12/5/2021	59	66	85	52	75.22	24.78	0.00
EATON	020	EATON LANE	VIA DEL SUR	WINCHESTER BLVD	12/5/2021	72	51	85	26	76.96	22.85	0.19
ELMCT	010	ELM PARK COURT	ELM PARK	END EAST	12/5/2021	100	88	88	88	0.00	100.00	0.00
ELMPS	010	ELM PARK	END SOUTH	BICKNELL RD.	12/5/2021	100	89	95	68	56.91	41.34	1.75
ELRNCH	010	EL RANCHO AVENUE	WINCHESTER BLVD	END EAST	12/5/2021	81	84	93	79	4.79	95.21	0.00
EQUST	010	EQUESTRIAN WAY	DAVES AVE.	END NORTH	12/5/2021	100	90	90	90	2.98	94.04	2.98
FRANC	010	FRANCESCA COURT	ANDREWS ST.	END WEST	12/5/2021	100	90	90	90	2.65	94.70	2.65
GRANVW	010	GRANDVIEW AVENUE	SARATOGA RD.	END EAST	12/5/2021	67	78	83	58	49.30	50.00	0.70
GREEN	010	GREENWOOD ROAD	SARATOGA RD	GREENWOOD LN	12/5/2021	74	60	72	48	48.06	38.64	13.30
GREEN	020	GREENWOOD ROAD	GREENWOOD LN	END SOUTH	12/5/2021	45	43	66	31	58.26	38.65	3.09
GREG	010	GREGORY PLACE	VIA LOMITA	END EAST	12/5/2021	59	62	62	62	84.09	15.91	0.00
GROCT	010	GROSVENOR COURT	END WEST	WINCHESTER BLVD.	12/5/2021	100	85	87	85	4.36	91.29	4.36
HILLVL	010	HILLVIEW DRIVE	CITY LIMIT SOUTH	OAK DR.	12/5/2021	51	55	58	54	34.14	65.86	0.00
KARL	011	KARL AVENUE	VINELAND AVE	ROBIN ANNE LANE	12/5/2021	82	82	87	79	1.12	97.76	1.12
KARL	020	KARL AVENUE	ROBIN ANNE LANE	EATON LANE	12/5/2021	84	83	83	83	0.85	98.31	0.85
KARL	030	KARL AVENUE	EATON LN.	CITY LIMIT	12/5/2021	49	79	85	72	45.75	53.10	1.15
KAVIN	020	KAVIN LANE	DAVES AVE	VINELAND AVE	12/5/2021	76	85	85	85	0.51	98.98	0.51
KIRKOR	010	KIRKORIAN WAY	DAVES AVE.	END NORTH	12/5/2021	62	70	70	70	22.56	77.44	0.00
LARINC	10	LA RINCONADA DRIVE EB	165FT W/O CLARA ST.	WINCHESTER BLVD.	12/5/2021	45	34	59	14	60.48	37.50	2.02
MAYS	010	MAYS AV	ANDREWS AVE.	END NORTH	12/5/2021	53	77	79	77	0.00	100.00	0.00
MICH	010	MICHAEL LANE	DAVES AVE.	END SOUTH	12/5/2021	56	60	60	60	29.91	60.86	9.23
OAK	010	OAK DRIVE	QUITO RD.	END EAST	12/5/2021	61	60	81	27	72.64	26.47	0.89
OAKKNL	010	OAK KNOLL DRIVE	DAVES AVE.	END SOUTH	12/5/2021	63	73	83	65	54.97	44.34	0.69
OKHST	010	OAKHURST DRIVE	END SOUTH	RIDGECREST DR	12/5/2021	100	90	90	90	3.94	92.13	3.94
PALSVD	010	PALOS VERDES DRIVE	DAVES AVE.	VINELAND AVE.	12/5/2021	100	90	90	90	0.00	100.00	0.00
PARKCT	010	PARKSIDE COURT	END WEST	WINCHESTER BLVD.	12/5/2021	100	90	90	90	2.47	95.06	2.47
PINECN	010	PINE CONE COURT	VINELAND AVE.	END NORTH	12/5/2021	84	84	84	84	0.00	100.00	0.00
PLSTVW	010	PLEASANT VIEW AVENUE	WINCHESTER BLVD.	END EAST	12/5/2021	74	82	83	82	16.96	78.73	4.30
POPPY	010	POPPY LANE	DAVES AVE.	END SOUTH	12/5/2021	100	84	87	80	34.01	63.51	2.47
QUITO	010	QUITO ROAD	CITY LIMITS	CITY LIMITS NORTH	12/5/2021	50	42	42	42	0.99	98.01	0.99

Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	Last Calculated PCI	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pcr Other
ROBINLN	020	ROBIN ANNE LANE	ROBIN ANNE LN	KARL AVE	12/5/2021	58	64	72	61	16.55	83.45	0.00
ROSE	010	ROSE AV	SARATOGA RD.	CITY LIMIT	12/5/2021	91	78	85	61	36.96	59.40	3.64
ROSECT	010	ROSE COURT	ROSE AVE.	END NORTH	12/5/2021	83	75	82	69	59.34	33.97	6.69
SANBWY	010	SAN BENITO WAY	143FT S/O VISTA AVE	VISTA AVE.	12/5/2021	36	52	52	52	45.08	44.49	10.43
SANBWY	020	SAN BENITO WAY	VISTA AVE.	END	12/5/2021	76	64	64	64	61.96	34.35	3.70
SERVST	010	SERENA VISTA COURT	END SOUTH	SARATOGA LOS GATOS RD.	12/5/2021	100	89	89	89	0.00	100.00	0.00
STRATF	010	STRATFORD COURT	END SOUTH	END NORTH	12/5/2021	64	77	82	72	35.45	55.21	9.33
TWINCK	010	TWIN CREEKS ROAD	AQUINAS CRK BRIDGE	TAMSON CT	12/5/2021	50	62	85	46	50.71	46.99	2.30
TWINCK	020	TWIN CREEKS ROAD	TAMSON CT	VIA CABALLERO	12/5/2021	55	57	73	45	65.50	33.45	1.05
VALOAK	010	VALLEY OAKS DRIVE	WINCHESTER	END WEST	12/5/2021	54	83	83	83	0.00	100.00	0.00
VIACA	010	VIA CABALLERO	TWIN CREEKS RD.	DAVES AVE	12/5/2021	74	51	55	45	61.71	38.06	0.22
VIADLS	010	VIA DEL SUR	END SOUTH	EATON LN	12/5/2021	100	87	87	87	2.11	95.78	2.11
VIAENC	010	VIA ENCANTADA	VIA CABRILLO	END EAST	12/5/2021	67	55	68	46	65.32	34.68	0.00
VIALOM	010	VIA LOMITA	BICKNELL RD.	END SOUTH	12/5/2021	100	88	90	88	6.43	87.14	6.43
VIAPAL	020	VIA PALOMINO	VINELAND AVE	END NORTH	12/5/2021	74	69	82	52	53.52	44.42	2.06
VIAPNT	010	VIA PINTO	VIA PALOMINO	END NORTH	12/5/2021	91	69	83	59	44.10	54.22	1.68
VIASER	010	VIA SERENO	WINCHESTER BLVD.	END WEST	12/5/2021	56	82	83	82	34.58	60.79	4.63
VIAVAQ	010	VIA VAQUERO	DAVES AVE.	END NORTH	12/5/2021	100	90	90	90	0.00	100.00	0.00
VIEWFD	011	VIEWFIELD ROAD	SARATOGA RD	2ND BEND ON ROAD	12/5/2021	52	79	83	72	2.49	97.51	0.00
VIEWFD	020	VIEWFIELD ROAD	2ND BEWND ON ROAD	NORTH END	12/5/2021	89	94	95	93	0.00	100.00	0.00
VINECT	010	VINELAND COURT	END SOUTH	VINELAND AVE	12/5/2021	82	82	82	82	20.83	58.34	20.83
VINELD	010	VINELAND AVENUE	VIA PALAMINO	KARL AVE	12/5/2021	65	54	68	45	59.41	40.13	0.46
VINELD	020	VINELAND AVENUE	KARL AVE.	WINCHESTER AVE	12/5/2021	78	76	89	60	68.98	30.31	0.71
VISTA	010	VISTA AVENUE	SAN BENITO WAY	POPPY LANE	12/5/2021	41	39	47	35	46.15	53.53	0.33
WESTEL	010	WEST ELLENWOOD AVENUE	ELLENWOOD AVE	END NORTH	12/5/2021	46	31	33	25	76.65	23.35	0.00
WINCSB	015	WINCHESTER BLVD SB	NAGPAL CT	VINELAND AVE	12/5/2021	0	85	85	85	0.00	100.00	0.00

Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	Last Calculated PCI	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
ALMACT	010	ALMA JO COURT	TWIN CREEK RD	END	10/31/2020	96	100			100.00	0.00	0.00
BACHMN	010	BACHMAN AVENUE	CITY LIMIT EAST	END WEST	10/25/2020	46	61			68.71	31.29	0.00
BANCFT	010	BANCROFT AVENUE	END EAST	RIDGECREST DR.	10/31/2020	96	100			100.00	0.00	0.00
BANYN	010	BANYAN LANE	CHADBOURNE LN	END	10/31/2020	97	100			100.00	0.00	0.00
BECK	010	BECK AVE	END WEST	HERNANDEZ LN	10/31/2020	82	90			51.50	48.50	0.00
BICKNL	010	BICKNELL ROAD EB	QUITO RD	ELM PARK	7/31/2020	74	83			69.87	30.13	0.00
CHADBO	010	CHADBOURNE LANE	TWINCREEKS RD.	END SOUTH	10/31/2020	96	100			100.00	0.00	0.00
CLARA	010	CLARA STREET	NATALYE ST.	LA RINCONADA RD.	11/15/2021	55	100			100.00	0.00	0.00
HERNDZ	010	HERNANDEZ AVENUE	CITY LIMIT SOUTH	BECK AVE	10/31/2020	84	91			0.00	100.00	0.00
JANOR	010	JANOR COURT	TWINCREEKS RD.	END NORTH	10/31/2020	96	100			100.00	0.00	0.00
LANCST	010	LANCASTER ROAD	200' N/O 10 MPH ADVISORY	CITY LIMIT NORTH	10/31/2020	96	100			100.00	0.00	0.00
NATALY	010	NATALYE ROAD	ZENA AVE.	LA RINCONADA DR.	11/15/2021	31	100			100.00	0.00	0.00
SEEBRE	010	SEEBREE LANE	CONSTITUTION AVE	END	10/31/2020	96	100			100.00	0.00	0.00
TAMSON	010	TAMSON COURT	TWINCREEKS RD.	END SOUTH	10/31/2020	96	100			100.00	0.00	0.00
WINCHS	010	WINCHESTER BOULEVARD	112FT S/O PLEASANT VIEW	VINELAND AVE	10/31/2021	60	71			59.52	27.81	12.67
WITHY	010	WITHEY ROAD	BECK AVE.	END WEST	10/31/2020	71	80			66.09	32.28	1.63
ZENA	010	ZENA AVENUE	END WEST	LA RINCONADA DR.	10/31/2021	33	100			100.00	0.00	0.00

Appendix D: Section PCI/RSL

Section PCI/RSL Listing

Printed: 3/17/2022

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
ALEX	010	ALEXANDER AVENUE	BACHMAN CT	END NORTH	235	28	6,580	R - Residential/Local	A - AC	46	7.96
ALMACT	010	ALMA JO COURT	TWIN CREEK RD	END	830	34	28,220	R - Residential/Local	O - AC/AC	92	37.05
ANDWCT	010	ANDREWS COURT	ANDREWS AVE.	END SOUTH	175	24	4,200	NCR - Proposed; Private; Non-County	A - AC	39	4.78
ANDREW	010	ANDREWS STREET	ROSE AVE.	CITY LIMIT	735	26	19,110	R - Residential/Local	A - AC	85	29.02
ARLEDR	010	ARLEE DRIVE	ROSE AV.	END WEST	368	18	6,624	NCR - Proposed; Private; Non-County	A - AC	0	0.00
AUSTIN	010	AUSTIN WAY	HIGHWAY 9	QUITO RD	1,000	24	24,000	R - Residential/Local	A - AC	55	12.30
BACHMN	010	BACHMAN AVENUE	CITY LIMIT EAST	END WEST	120	18	2,160	R - Residential/Local	A - AC	43	6.52
BANCFT	010	BANCROFT AVENUE	END EAST	RIDGECREST DR.	1,338	22	29,436	R - Residential/Local	O - AC/AC	92	37.05
BANYN	010	BANYAN LANE	CHADBOURNE LN	END	400	24	9,600	R - Residential/Local	O - AC/AC	92	37.05
BARRY	010	BARRY LANE	ROSE AVE.	END	275	24	6,600	R - Residential/Local	O - AC/AC	77	27.12
BECK	010	BECK AVE	END WEST	HERNANDEZ LN	740	20	14,800	R - Residential/Local	O - AC/AC	78	33.09
BECKLN	010	BECKY LANE	BICKNELL RD.	END SOUTH	996	28	27,888	NCR - Proposed; Private; Non-County	A - AC	0	0.00
BELMAVE	010	BELMONT AVENUE	BACHMAN AVENUE	END NORTH	276	25	6,900	NCR - Proposed; Private; Non-County	A - AC	0	0.00
BICKNL	010	BICKNELL ROAD EB	QUITO RD	ELM PARK	2,855	18	51,390	R - Residential/Local	A - AC	74	22.60
BLANCH	010	BLANCHARD DRIVE	WINCHESTER DR.	VINELAND AVE.	1,500	26	39,000	R - Residential/Local	O - AC/AC	84	28.06
BRUCE	011	BRUCE AVENUE	SAN BENITO WAY	POPPY LANE	890	27	24,030	R - Residential/Local	A - AC	56	12.58
BRUCE	020	BRUCE AVENUE	POPPY LANE	WEST END	335	27	9,045	R - Residential/Local	A - AC	48	8.83
BRCT	010	BRUCE COURT	BRUCE AVE.	END NORTH	125	30	3,750	R - Residential/Local	A - AC	75	22.69
CARRL	010	CARRIL COURT	DAVES AVE.	END EAST	290	29	8,410	R - Residential/Local	A - AC	75	22.69
CHADBO	010	CHADBOURNE LANE	TWINCREEKS RD.	END SOUTH	980	30	29,400	R - Residential/Local	O - AC/AC	92	37.05
CLARA	010	CLARA STREET	NATALYE ST.	LA RINCONADA RD.	515	30	15,450	R - Residential/Local	O - AC/AC	95	38.17
CONSTU	010	CONSTITUTION AVENUE	DAVES AVE	END EAST	1,465	30	43,950	R - Residential/Local	A - AC	47	8.39
CREEK	010	CREEKSIDE COURT	END WEST	WINCHESTER BLVD.	400	36	14,400	R - Residential/Local	O - AC/AC	78	27.82
DANPL	010	DANIELLE PLACE	BICKNELL RD.	END SOUTH	280	29	8,120	R - Residential/Local	A - AC	72	20.84
DAVEA	010	DAVES AVENUE	WINCHESTER BLVD.	POPPY LN.	1,384	36	49,824	R - Residential/Local	A - AC	75	22.69
DAVEB	020	DAVES AVENUE	POPPY LN.	300' W/O EQUESTRIAN WY	1,820	37	67,340	R - Residential/Local	A - AC	69	19.06
DAVEC	030	DAVES AVENUE	300' W/O EQUESTRIAN WY	VIA CABALLERO	1,215	40	48,600	R - Residential/Local	A - AC	70	19.65
DECARD	010	DECATUR ROAD	SARATOGA LOS GATOS	END EAST	1,336	26	34,736	NCR - Proposed; Private; Non-County	A - AC	0	0.00
DEODLN	010	DEODAR LANE	WITHEY RD.	END EAST	358	22	7,876	NCR - Proposed;	A - AC	0	0.00

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
								Private; Non-County			
DORAD	010	DORADO LANE	DAVES AVE.	END NORTH	415	36	14,940	R - Residential/Local	O - AC/AC	84	28.39
EVINELD	010	EAST VINELAND AVENUE	WINCHESTER BLVD.	END EAST	728	30	21,840	NCR - Proposed; Private; Non-County	A - AC	0	0.00
EATON	011	EATON LANE	KARL AVE	VIA DEL SUR	665	30	19,950	R - Residential/Local	A - AC	66	17.34
EATON	020	EATON LANE	VIA DEL SUR	WINCHESTER BLVD	1,490	28	41,720	R - Residential/Local	A - AC	50	9.73
ELRNCH	010	EL RANCHO AVENUE	WINCHESTER BLVD	END EAST	850	26	22,100	R - Residential/Local	A - AC	84	28.40
ELMPS	010	ELM PARK	END SOUTH	BICKNELL RD.	1,444	29	41,876	R - Residential/Local	O - AC/AC	88	33.88
ELMCT	010	ELM PARK COURT	ELM PARK	END EAST	170	20	3,400	R - Residential/Local	O - AC/AC	87	31.48
EQUEST	010	EQUESTRIAN WAY	DAVES AVE.	END NORTH	385	23	8,855	R - Residential/Local	O - AC/AC	89	34.59
FAIRCL	010	FAIRWAY CIRCLE	KARL AVENUE	END EAST	250	20	5,000	NCR - Proposed; Private; Non-County	A - AC	0	0.00
FRANC	010	FRANCESCA COURT	ANDREWS ST.	END WEST	200	24	4,800	R - Residential/Local	O - AC/AC	90	36.56
GRANVW	010	GRANDVIEW AVENUE	SARATOGA RD.	END EAST	1,510	28	42,280	R - Residential/Local	A - AC	78	24.58
GRNWA	010	GREENWOOD AVE	GREENWOOD LN	END WEST (PRIVATE RD)	651	19	12,369	NCR - Proposed; Private; Non-County	A - AC	28	0.85
GREEN	010	GREENWOOD ROAD	SARATOGA RD	GREENWOOD LN	1,216	22	26,752	R - Residential/Local	A - AC	59	14.10
GREEN	020	GREENWOOD ROAD	GREENWOOD LN	END SOUTH	1,128	28	31,584	R - Residential/Local	A - AC	42	6.29
GREG	010	GREGORY PLACE	VIA LOMITA	END EAST	309	30	9,270	R - Residential/Local	A - AC	61	15.15
GROCT	010	GROSVENOR COURT	END WEST	WINCHESTER BLVD.	485	36	17,460	R - Residential/Local	O - AC/AC	84	28.39
HERNDZ	010	HERNANDEZ AVENUE	CITY LIMIT SOUTH	BECK AVE	775	25	19,375	R - Residential/Local	A - AC	82	27.58
HILLVL	010	HILLVIEW DRIVE	CITY LIMIT SOUTH	OAK DR.	650	20	13,000	R - Residential/Local	A - AC	54	11.60
JANOR	010	JANOR COURT	TWINCREEKS RD.	END NORTH	180	21	3,780	R - Residential/Local	O - AC/AC	92	37.05
KARL	011	KARL AVENUE	VINELAND AVE	ROBIN ANNE LANE	650	25	16,250	R - Residential/Local	O - AC/AC	82	30.65
KARL	020	KARL AVENUE	ROBIN ANNE LANE	EATON LANE	1,090	30	32,700	R - Residential/Local	A - AC	83	27.77
KARL	030	KARL AVENUE	EATON LN.	CITY LIMIT	857	24	20,568	R - Residential/Local	A - AC	79	25.22
KAVIN	020	KAVIN LANE	DAVES AVE	VINELAND AVE	1,210	30	36,300	R - Residential/Local	O - AC/AC	85	32.73
KIRKOR	010	KIRKORIAN WAY	DAVES AVE.	END NORTH	343	30	10,290	R - Residential/Local	A - AC	70	19.65
LARINC	10	LA RINCONADA DRIVE EB	165FT W/O CLARA ST.	WINCHESTER BLVD.	890	21	18,690	R - Residential/Local	A - AC	33	2.81
LANCST	010	LANCASTER ROAD	200' N/O 10 MPH ADVISORY	CITY LIMIT NORTH	450	24	10,800	R - Residential/Local	O - AC/AC	92	37.05
LEXIDR	10	LEXINGTON DRIVE	SARATOGA LOS GATOS RD.	END NORTH	758	20	15,160	NCR - Proposed; Private; Non-County	A - AC	0	0.00
MAYS	010	MAYS AV	ANDREWS AVE.	END NORTH	560	30	16,800	R - Residential/Local	O - AC/AC	77	32.46
MICH	010	MICHAEL LANE	DAVES AVE.	END SOUTH	180	29	5,220	R - Residential/Local	A - AC	60	15.10
NAGPCT	010	NAGPAL COURT	WINCHESTER BLVD.	END EAST	331	21	6,951	NCR - Proposed; Private; Non-County	A - AC	0	0.00

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
NATALY	010	NATALYE ROAD	ZENA AVE.	LA RINCONADA DR.	572	25	14,300	R - Residential/Local	A - AC	95	33.81
OAK	010	OAK DRIVE	QUITO RD.	END EAST	2,305	20	46,100	R - Residential/Local	A - AC	59	14.10
OAKKNL	010	OAK KNOLL DRIVE	DAVES AVE.	END SOUTH	715	30	21,450	R - Residential/Local	A - AC	73	21.45
OKHST	010	OAKHURST DRIVE	END SOUTH	RIDGECREST DR	775	28	21,700	R - Residential/Local	O - AC/AC	90	36.56
PALSVD	010	PALOS VERDES DRIVE	DAVES AVE.	VINELAND AVE.	1,170	34	39,780	R - Residential/Local	O - AC/AC	89	34.59
PARKCT	010	PARKSIDE COURT	END WEST	WINCHESTER BLVD.	440	32	14,080	R - Residential/Local	O - AC/AC	90	36.56
PINECN	010	PINE CONE COURT	VINELAND AVE.	END NORTH	105	31	3,255	R - Residential/Local	A - AC	84	28.40
PLSTVW	010	PLEASANT VIEW AVENUE	WINCHESTER BLVD.	END EAST	575	25	14,375	R - Residential/Local	A - AC	82	27.14
POPPY	010	POPPY LANE	DAVES AVE.	END SOUTH	1,220	23	28,060	R - Residential/Local	O - AC/AC	83	26.69
QUITO	010	QUITO ROAD	CITY LIMITS	CITY LIMITS NORTH	130	28	3,640	C - Collector	O - AC/AC	41	4.73
RIDGCT	010	RIDGECREST AVENUE	BECK AVE.	OAKHURST DR.	1,295	25	32,375	NCR - Proposed; Private; Non-County	A - AC	61	15.13
RIDGCT	020	RIDGECREST AVENUE	OAKHURST DR.	HILLVALE	1,000	29	29,000	NCR - Proposed; Private; Non-County	A - AC	69	19.34
RIDGCT	030	RIDGECREST AVENUE	HILLVALE AVE.	SARATOGA L.G. RD.	620	28	17,360	NCR - Proposed; Private; Non-County	A - AC	53	10.76
ROBINLN	010	ROBIN ANNE LANE	VINELAND AVE	END NORTH	879	26	22,854	NCR - Proposed; Private; Non-County	A - AC	0	0.00
ROBINLN	020	ROBIN ANNE LANE	ROBIN ANNE LN	KARL AVE	420	25	10,500	R - Residential/Local	A - AC	63	16.23
ROMICT	010	ROMITA COURT	MATILIJA DR.	END WEST	391	30	11,730	NCR - Proposed; Private; Non-County	A - AC	0	0.00
ROSE	010	ROSE AV	SARATOGA RD.	CITY LIMIT	930	27	25,110	R - Residential/Local	A - AC	78	24.58
ROSECT	010	ROSE COURT	ROSE AVE.	END NORTH	490	26	12,740	R - Residential/Local	A - AC	75	22.69
SANBWW	010	SAN BENITO WAY	143FT S/O VISTA AVE	VISTA AVE.	143	28	4,004	R - Residential/Local	A - AC	51	10.19
SANBWW	020	SAN BENITO WAY	VISTA AVE.	END	425	18	7,650	NCR - Proposed; Private; Non-County	A - AC	72	20.99
SCOTTDR	010	SCOTT DRIVE	RIDGECREST AVE	END WEST	1,590	25	39,750	NCR - Proposed; Private; Non-County	A - AC	0	0.00
SEEBRE	010	SEEBREE LANE	CONSTITUTION AVE	END	310	25	7,750	R - Residential/Local	O - AC/AC	92	37.05
SERVST	010	SERENA VISTA COURT	END SOUTH	SARATOGA LOS GATOS RD.	160	24	3,840	R - Residential/Local	O - AC/AC	88	33.88
STRATF	010	STRATFORD COURT	END SOUTH	END NORTH	500	18	9,000	R - Residential/Local	A - AC	77	23.95
TAMSON	010	TAMSON COURT	TWINCREEKS RD.	END SOUTH	230	21	4,830	R - Residential/Local	O - AC/AC	92	37.05
TWINCK	010	TWIN CREEKS ROAD	AQUINAS CRK BRIDGE	TAMSON CT	1,500	39	58,500	R - Residential/Local	A - AC	61	15.15
TWINCK	020	TWIN CREEKS ROAD	TAMSON CT	VIA CABALLERO	1,150	36	41,400	R - Residential/Local	A - AC	56	12.58
VALOAK	010	VALLEY OAKS DRIVE	WINCHESTER	END WEST	420	28	11,760	R - Residential/Local	A - AC	83	27.77
VIABONIT	010	VIA BONITA	RIDGECREST AVE.	END WEST	698	15	10,470	NCR - Proposed; Private; Non-County	A - AC	0	0.00

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
VIACA	010	VIA CABALLERO	TWIN CREEKS RD.	DAVES AVE	910	40	36,400	R - Residential/Local	A - AC	50	9.73
VIADLS	010	VIA DEL SUR	END SOUTH	EATON LN	755	30	22,650	R - Residential/Local	O - AC/AC	87	32.29
VIAENC	010	VIA ENCANTADA	VIA CABRILLO	END EAST	665	22	14,630	R - Residential/Local	A - AC	54	11.60
VIALOM	010	VIA LOMITA	BICKNELL RD.	END SOUTH	1,120	30	33,600	R - Residential/Local	O - AC/AC	87	31.48
VIAPAL	020	VIA PALOMINO	VINELAND AVE	END NORTH	1,500	32	48,000	R - Residential/Local	A - AC	69	19.06
VIAPNT	010	VIA PINTO	VIA PALOMINO	END NORTH	695	22	15,290	R - Residential/Local	A - AC	69	19.06
VIASER	010	VIA SERENO	WINCHESTER BLVD.	END WEST	440	38	16,720	R - Residential/Local	A - AC	82	27.14
VIAVAQ	010	VIA VAQUERO	DAVES AVE.	END NORTH	355	23	8,165	R - Residential/Local	O - AC/AC	89	34.59
VIEWFD	011	VIEWFIELD ROAD	SARATOGA RD	2ND BEND ON ROAD	990	23	22,770	R - Residential/Local	A - AC	79	25.22
VIEWFD	020	VIEWFIELD ROAD	2ND BEWND ON ROAD	NORTH END	700	23	16,100	R - Residential/Local	A - AC	93	33.40
VINELD	010	VINELAND AVENUE	VIA PALAMINO	KARL AVE	1,850	40	74,000	R - Residential/Local	A - AC	53	11.13
VINELD	020	VINELAND AVENUE	KARL AVE.	WINCHESTER AVE	1,115	31	34,565	R - Residential/Local	A - AC	76	23.31
VINECT	010	VINELAND COURT	END SOUTH	VINELAND AVE	265	30	7,950	R - Residential/Local	A - AC	82	27.14
VISTA	010	VISTA AVENUE	SAN BENITO WAY	POPPY LANE	800	24	19,200	R - Residential/Local	A - AC	38	4.69
WESTEL	010	WEST ELLENWOOD AVENUE	ELLENWOOD AVE	END NORTH	345	27	9,315	R - Residential/Local	A - AC	30	1.74
WINCSB	015	WINCHESTER BLVD SB	NAGPAL CT	VINELAND AVE	1,110	36	39,960	A - Arterial	O - AC/AC	85	25.13
WINCHS	010	WINCHESTER BOULEVARD	112FT S/O PLEASANT VIEW	VINELAND AVE	839	65	54,535	A - Arterial	O - AC/AC	70	16.50
WITHY	010	WITHEY ROAD	BECK AVE.	END WEST	3,430	21	72,030	R - Residential/Local	O - AC/AC	69	23.77
ZENA	010	ZENA AVENUE	END WEST	LA RINCONADA DR.	1,460	24	35,040	R - Residential/Local	O - AC/AC	95	38.13

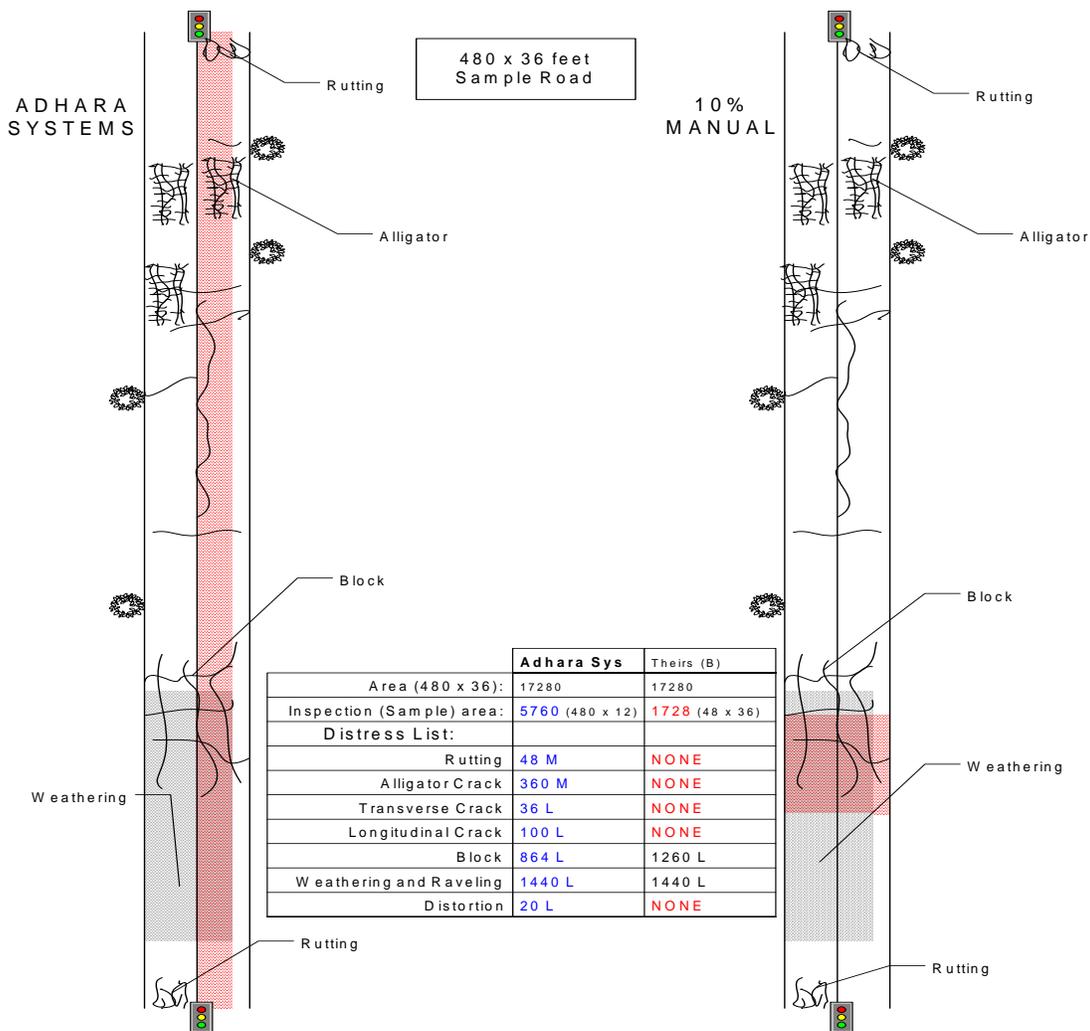
Total Section Length:	84,558
Total Section Area:	2,339,802

Appendix E: Survey Methodology

Adhara Survey Methodology

This appendix explains Adhara’s field survey methodology. The following illustration shows the difference between Adhara’s and the traditional methods. Customers find Adhara Method finds more accurate distress samples than those from the traditional method.

- Adhara offers a longitudinal survey method using Adhara proprietary equipment.
- For the Adhara method, there is always a sample area within 20 feet from any spot of a managed section for the length of the designated section.
- Sample area is pre-defined in the field work planning process for different type of roads.
- Minimum sampling rate of Adhara method is 25%. Typical average sampling rate is higher than 30% depends on the nature of road network. This average sampling rate is three times of that of the traditional method that MTC recommends for the network level survey. Higher sampling rate reduces potential error.
- Optionally, all-lane survey is available upon request. All drivable lanes will be in the work scope. Average sampling rate becomes higher than 60%.

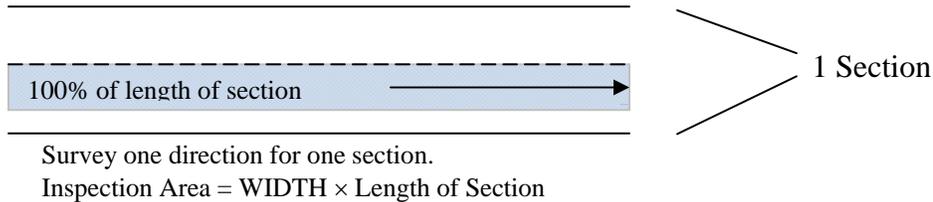


Suggested Survey Paths for Different Types of Road

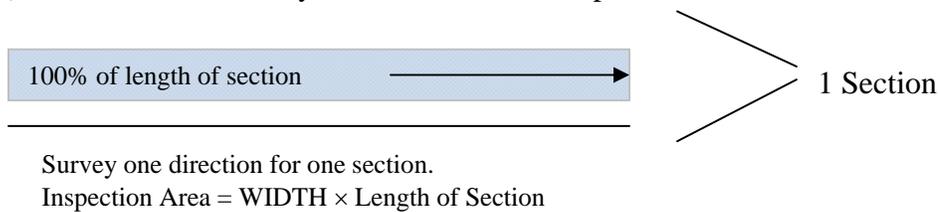
The survey path can be varied depends on what the customer desires. Below is our recommendation. Alternatively, Adhara offers all-lane, drivable, survey upon agency's request.

NOTE: WIDTH = 12 feet typical

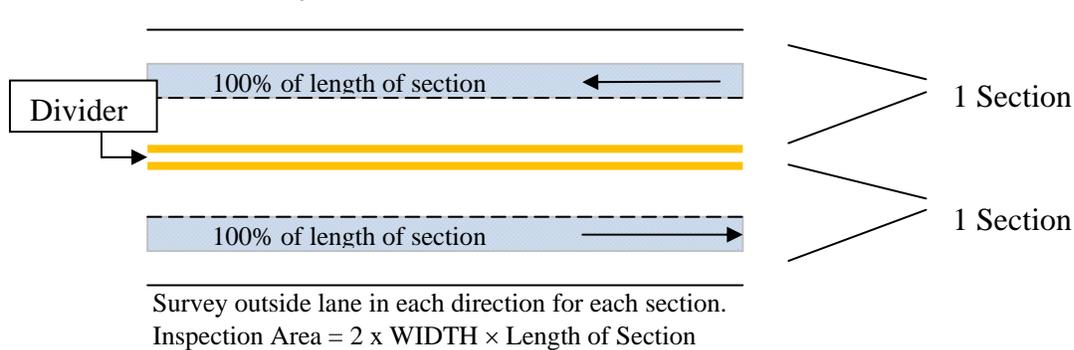
1) 2 lane 2 way road



2) 100 Residential 2 way road without lane strip

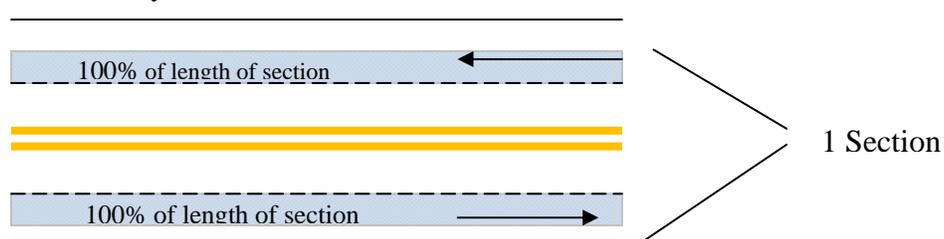


3) 4 lane 2 way divided road



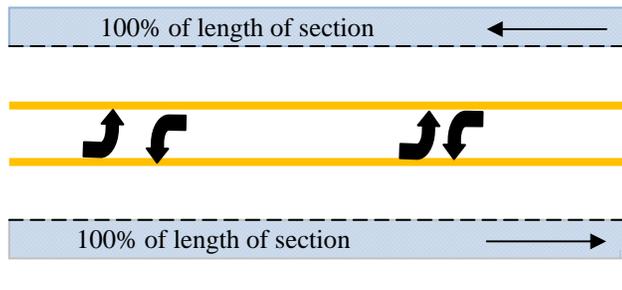
NOTE: It is suggested to split into two sections if there is a divider in between two opposite directions. However, if the current section definition is not in split, it will be counted as one single section and will be surveyed as "4 lane undivided road". If the road is divided into two sections, each section can be considered as 2 lane one-way road.

4) 4 lane, 2 way undivided road



Survey both outside lane in each direction as one section.
 $\text{Inspection Area} = 2 \times \text{WIDTH} \times \text{Length of Section}$

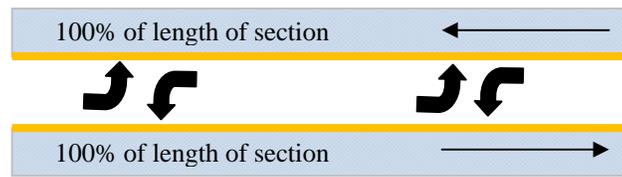
5) 4 lane 2 way undivided road with turning lane



1 Section

Survey both outside lane in each direction for one section.
 Inspection Area = $2 \times \text{WIDTH} \times \text{Length of Section}$

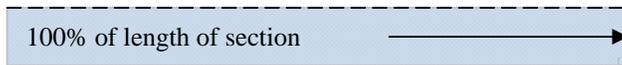
6) 3 lane 2way with middle turning lane



1 Section

Survey one outside lane in direction as one section.
 Inspection Area = $2 \times \text{WIDTH} \times \text{Length of Section}$

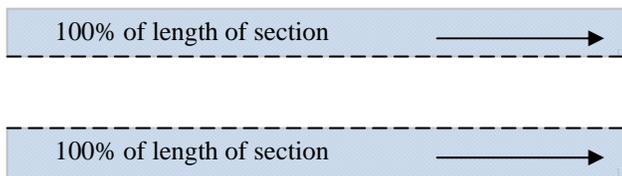
7) One-way streets
 - 2 lanes 1 way road



1 Section

Survey one direction lane for one section.
 Inspection Area = $\text{WIDTH} \times \text{Length of Section}$

- 3 lanes 1 way road



1 Section

Survey outer lane in each direction as one section.
 Inspection Area = $2 \times \text{WIDTH} \times \text{Length of Section}$

Appendix F: Presentations in GIS view

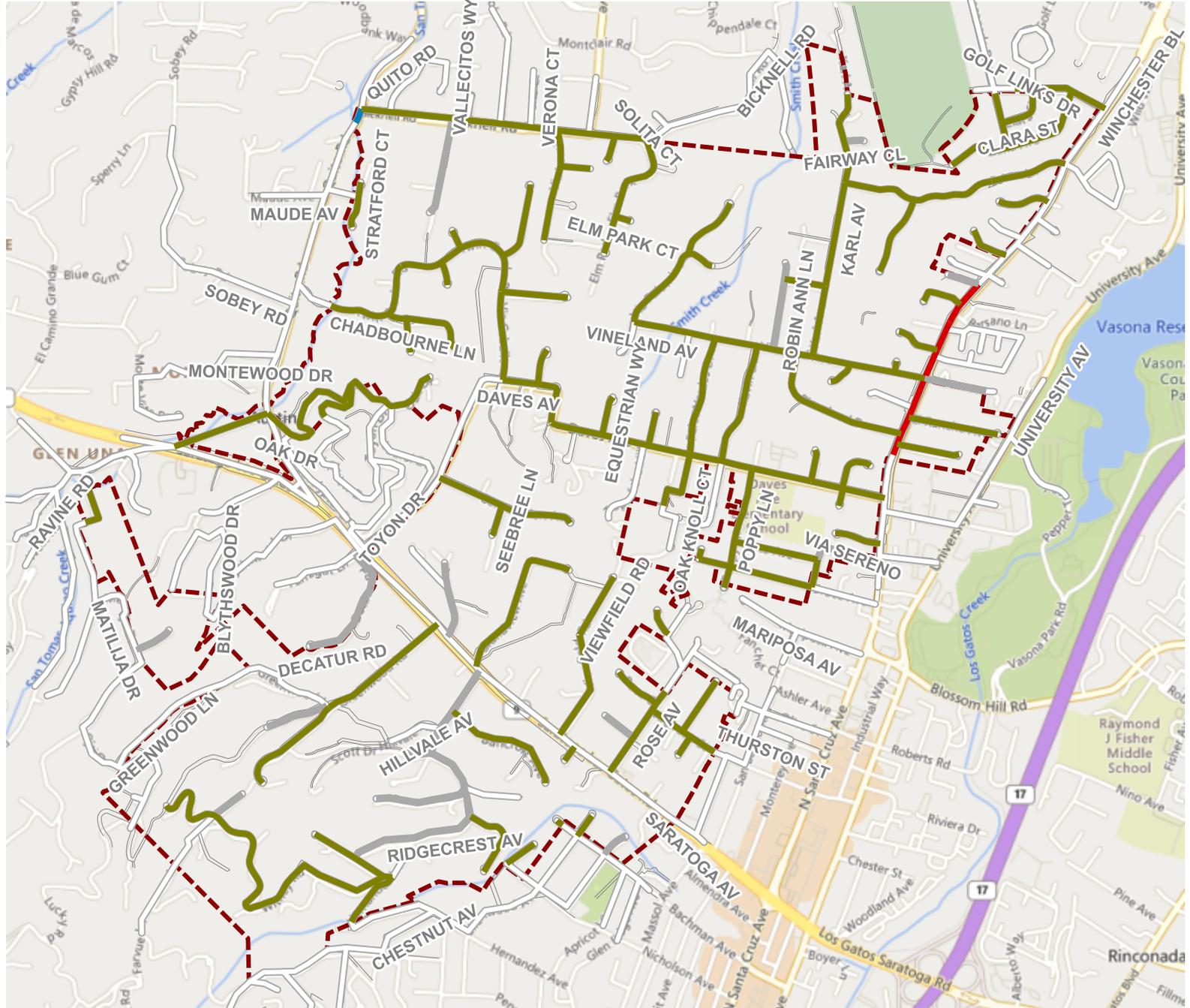


Functional Class

Printed: 3/17/2022

Feature Legend

- A Arterial
- C Collector
- NCR Proposed; Private; Non-County
- R Residential/Local





Current PCI Condition

Printed: 3/17/2022

Feature Legend

- Category I - Very Good
- Category II - Good (Non-Load)
- Category III - Good (Load)
- Category IV - Poor

