MTC P-TAP Round 17

Pavement Management System Update

Data Collection &

Quality Management Report

Revision 1

May 2, 2017

Submit to:

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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 17 and assigned Adhara to the City of East Palo Alto, California ("City") for its Pavement Management Systems ("PMS") Update Project ("Project") in 2016. The 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 the City's road network,
2) performing a pavement condition survey,
3) performing quality control following QA/QC plan,
4) updating the City's existing StreetSaver Online PMS database with the distress information collected in the inspection, and
5) determining impacts of funding levels on the City's roadway network.

Additionally, the work scope includes an update of Pavement GIS layer ("PGIS") if it is available. 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.

The City manages 250 sections, 38.83 centerline miles (82.91 lane miles, 7.7 million ft^2) of road network. The City also has 4 sections, 0.2 centerline limes or 0.4 lanes miles of un-managed sections. Un-managed sections include sections not maintained after creation, sections with Gravel surface type, and sections with functional class of NCR (Proposed; Private; Non-County).

Through this Project, a total of 42.7 lane miles (12 feet wide) were evaluated for the City's 38.8 centerline mile of City's managed network (250 sections, 82.9 lane miles) in August 2016. Total sampled and evaluated area was 2.7 million ft^2 for total inventory area of 7.72 million ft^2. Resulted sampling rate was 35%. The City's network inventory was reviewed and updated as well. As a result, the City's road managed road network gained 1.1 centerline mile and 3.5 lane miles with 2 more sections compare to the beginning of the project. Four sections were identified as un-managed.

The update of the City's pavement conditions survey resulted in a current weighted network average Pavement Condition Index ("PCI") of 71 as of January 23, 2017. This PCI rating places the City's street network condition in the lower range of the "Very Good" (70<PCI<=100) category.

2 Project Purpose

The purpose of this project is to update the citywide PMS database for the City of East Palo Alto for 2016. 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 F describes the details of Adhara's methodology.

The survey was scheduled and conducted in August 2016 for the City's roads. After QA/QC on the survey and corrections on the section inventory, Adhara entered the collected distress data into the City's PMS database to evaluate the PCI over the entire network in January, 2017.

3 Network Description

The City's network consists of 39.0 centerline miles, 83.3 lane miles, 7.8 million ft^2 of street (864 thousand yd^2), or 254 pavement sections. The City's road network includes the un-managed pavement sections, which consists of 0.2 centerline miles (4 sections, 0.4 lane miles, 24 thousand ft^2, or 2.7 thousand yd^2) of roads that have never been inspected or maintained. Excluding unmanaged sections, the City maintains 250 sections that amount to 38.8 centerline miles, 82.9 lane miles, or 7.7 million ft^2 (861.0 thousand yd^2) of road network. Appendix A lists the inventory updates during the project. And Appendix C lists un-managed sections.

For the purpose of this report, only the City's managed network is considered and included to the budget analysis. 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 yd²)	% of area (Weight)	Area (1,000,000 ft²)	Lane miles
Arterial	17	3.64	111.6	13.0%	1.0	10.69
Collector	56	8.95	194.2	22.6%	1.7	19.66
Residential	177	26.24	555.2	64.5%	5.0	52.57
Un-managed pavement sections including Proposed, Private, Non County (NCR)	4	0.20	2.7		0.02	0.40
Total Network	**254**	**39.03**	**863.7**		**7.8**	**83.32**
Managed Sections only	**250**	**38.83**	**861.0**	**100.0%**	**7.7**	**82.91**

Table 1. Summary of the City's road network

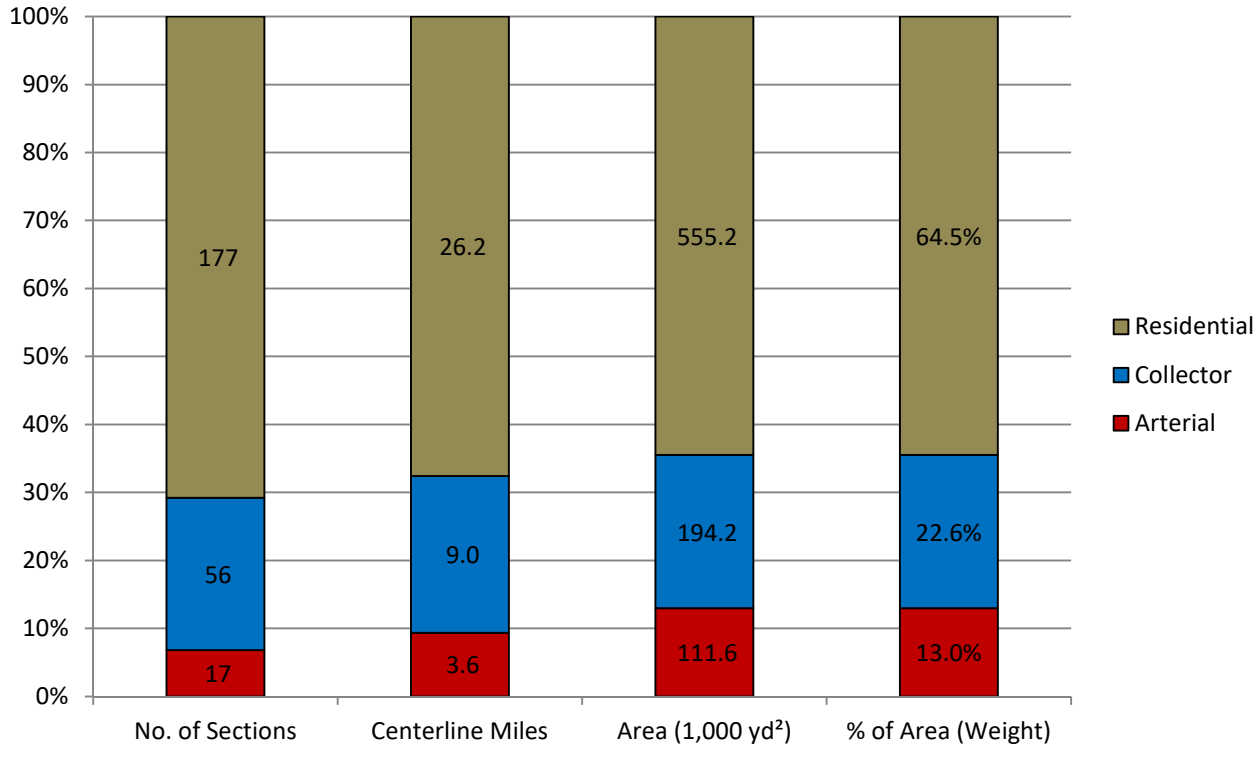

Figure 1. Inventory information

4 Inventory Review and Update

Adhara's inventory review and update are conducted in four tasks.

The first task is done through an interview with the City. Adhara provided the City with the current section description and corresponding Street GIS layer that was developed prior to the project in a separate task order for review. Adhara identified discrepancies of section descriptions and provided the City with the list of sections in question.

The second 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 ft. < Average Lane Width of a Section (i.e., Width / Number of lanes) < 20 ft.

Adhara calculated the average lane width of sections in the work scope and found 43 sections with potential number of lane or road width problem. Upon City's review inventory description was updated.

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 into the section area as sections are, in many cases, not rectangular and have varying width. For example, a cul-de-sac section normally has a ratio that is smaller than 1 due to the 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 and reviewed them. Adhara reviewed sections flagged by this process.

The third task is done in a survey planning. Since Adhara utilizes a customized vehicle in surveying pavement conditions, it is mandatory and essential to make safe and efficient driving plans. In planning survey routes, Adhara utilized 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. Adhara updated the PMS database according to the result of inventory review.

The last 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 from the start to the end of each section. Adhara compared the measurements to the section length in PMS and found that there was no section length discrepancy for the surveyed sections. Inventory was updated prior to inspection data entry.

5 Survey

The City provided Adhara with a list of sections to be surveyed as a project work scope. It includes 250 sections of Arterial and Collector road network. All sections were surveyed. Table 2 shows the summary of final list of sections those were surveyed in this project.

Functional Class	No. of surveyed sections	Sum of sampled area (1000 ft²)	Sum of network section area for work scope (1000 ft²)	Sampling rate (%)
Arterial	17	344	957	35.9%
Collector	56	642	1,748	36.8%
Residential	177	1,717	5,015	34.2%
Total	**250**	**2,703**	**7,719**	**35.0%**

Table 2. Project work scope

Adhara conducted the pavement condition survey in August 2016. All sections 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 on the sections. In the

project, approximately 35% of the work scope area was evaluated. The analysis results were merged with non-crack-related distresses collected in the field to generate distress input 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. MTC changed survey method for AC surface type by splitting Weathering and Raveling starting 2016 based on 2015 MTC Distress Identification Manual updated in 2015. Appendix H shows changes in the Distress Identification Manual.

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 a quality assurance and quality control task through section-by-section comparisons between the previous and updated PCI values.

The main criteria for the quality assurance and quality control task 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 D.

Another QA/QC step is that Adhara re-inspects 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, 14 sections (i.e., 5.6 % of 250 sections in the work scope) were randomly selected and evaluated. The result was 79 % of the 14 sections (11 sections) had a PCI difference within plus or minus 5 PCI points, thus meeting the first criteria. 1 section (7.1 % of 14 sections) had a PCI difference greater than plus or minus 15 PCI points, thus also meeting the second criteria.

7 Results

PCI is evaluated and updated in two ways. The first is when there are certain M&R activities and/or inspection data entered. In this case, the evaluation is only for the sections in which M&R activities and/or inspection data are entered. 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.

The current weighted average PCI for the City's network is 71 as of January 23, 2017.

Note that the new survey method was applied to the project. 3 PCI points of network level change, up or down, is expected between two systems. Adhara noticed that there were more than expected PCI change in 2016 survey. Adhara reviewed PCI changes extensively and finalized database after discussion with the City.

The following illustrates the weighted average PCI of the City's network by functional classes. As shown in Table 3, the Arterial and Collector functional classes are in "Very Good" (70<PCI<= 100) condition, Residential functional class is in "Good" (50< PCI<= 70) condition. A section by section Current PCI listing as of January 23, 2017, is presented in Appendix E 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	17	77	3.6	111.6	13.0%
Collector	56	79	9.0	194.2	22.6%
Residential	177	68	26.2	555.2	64.5%
Total/Average	**250**	**71**	**38.8**	**861.0**	**100.0%**

Table 3. Weighted PCI average by functional classes

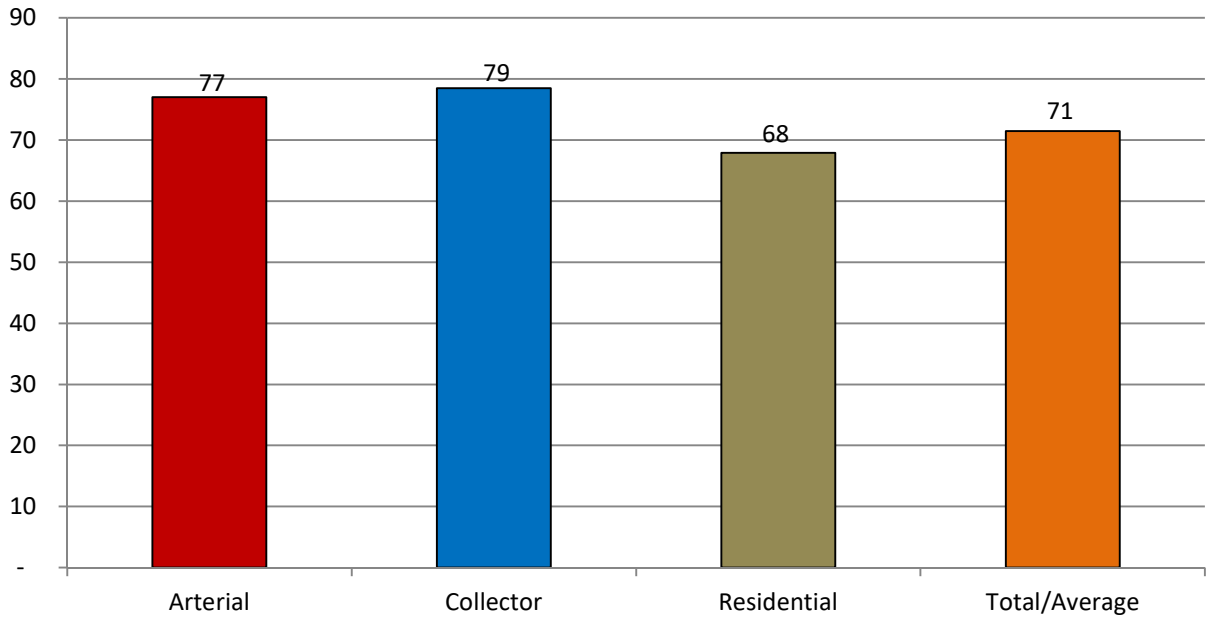

Figure 2. Weighted PCI average by functional classes

The following table and figure show the 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
Very Good (70<PCI)	157	24.5	546.4	63.5%
Good (50<PCI<=70)	46	6.9	161.5	18.8%
Poor (25<PCI<=50)	37	6.0	130.4	15.1%
Very Poor (PCI<=25)	10	1.4	22.8	2.6%
Total	**250**	**38.8**	**861.0**	**100.0%**

Table 4. PCI rating categories for the entire network

As the illustration shows, the conditions of 203 out of 250 sections, 82.3% in area, are categorized as "Good" or higher; 37 sections are in "Poor" condition; and 10 sections are in "Very Poor" condition.

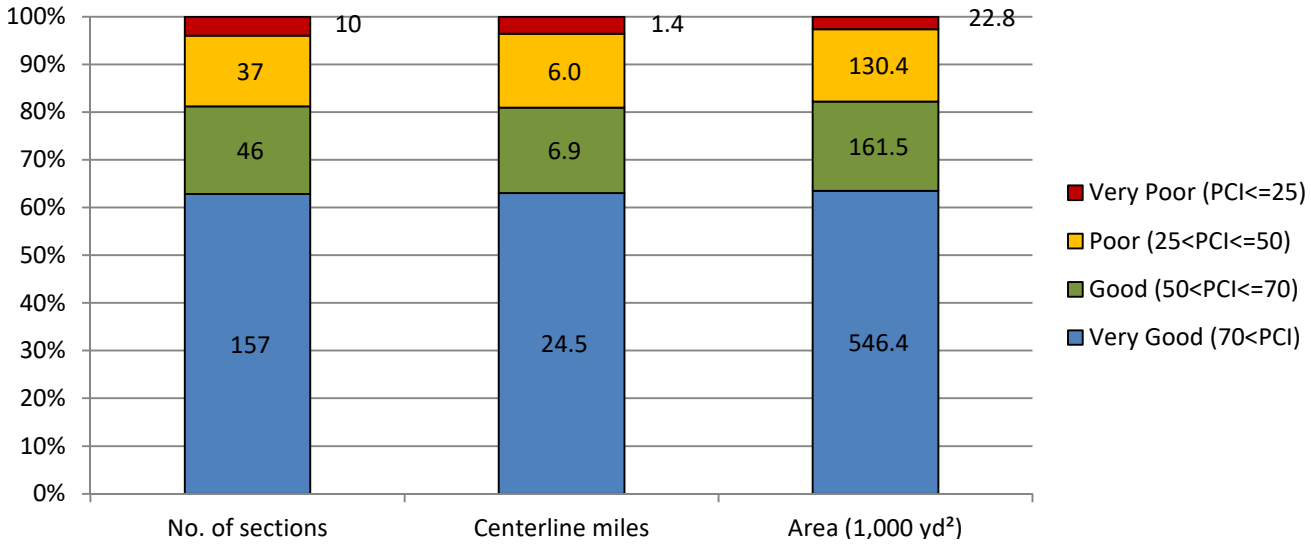

Figure 3. PCI rating categories for the entire network

7.1 Arterial functional class

The following table shows the distribution of PCI ratings of the City's Arterial Network.

PCI Ratings	No. of sections	Centerline miles	Area (1,000 yd²)	% in Area
Very Good (70<PCI)	12	2.5	69.8	62.5%
Good (50<PCI<=70)	5	1.1	41.9	37.5%
Poor (25<PCI<=50)	0	0.0	0.0	0.0%
Very Poor (PCI<=25)	0	0.0	0.0	0.0%
Total	**17**	**3.6**	**111.6**	**100.0%**

Table 5. PCI rating categories for the Arterial functional class

As the above table shows, all Arterial functional class sections are in "Good" or higher condition.

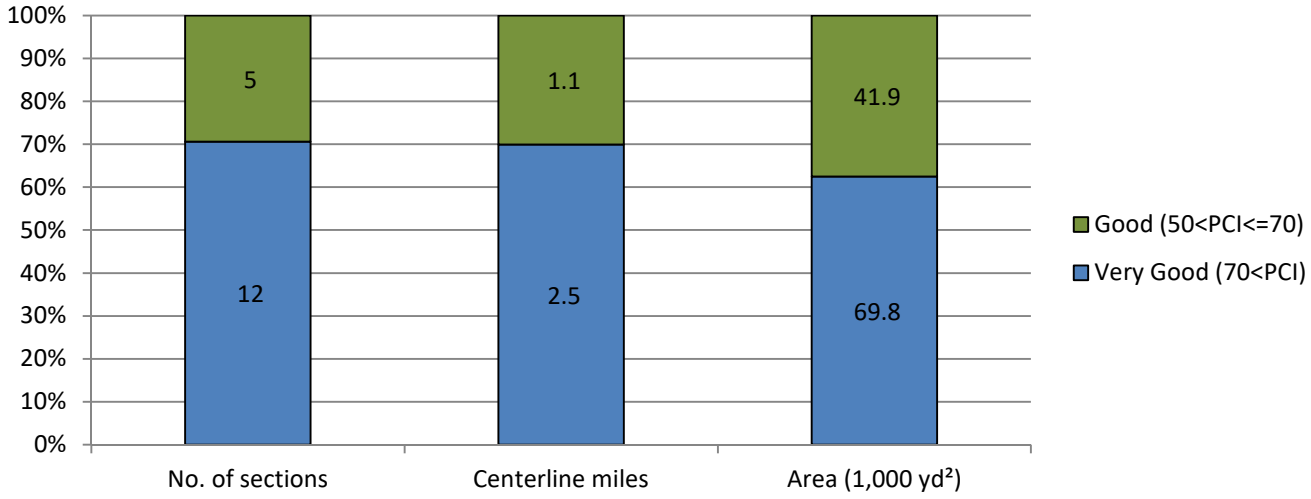

Figure 4. PCI rating categories for the Arterial functional class

7.2 Collector functional class

Table 6, below, shows the distribution of PCI ratings of the City's Collector Network.

PCI Ratings	No. of sections	Centerline miles	Area (1,000 yd²)	% in Area
Very Good (70<PCI)	47	7.6	166.6	85.8%
Good (50<PCI<=70)	4	0.5	14.0	7.2%
Poor (25<PCI<=50)	3	0.3	5.9	3.0%
Very Poor (PCI<=25)	2	0.5	7.6	3.9%
Total	**56**	**9.0**	**194.2**	**100.0%**

Table 6. PCI rating categories for the Collector functional class

As the above table shows, 51 sections out of the City's 56 Collector functional class sections, 93% in area, are in or above "Good" condition or higher condition.

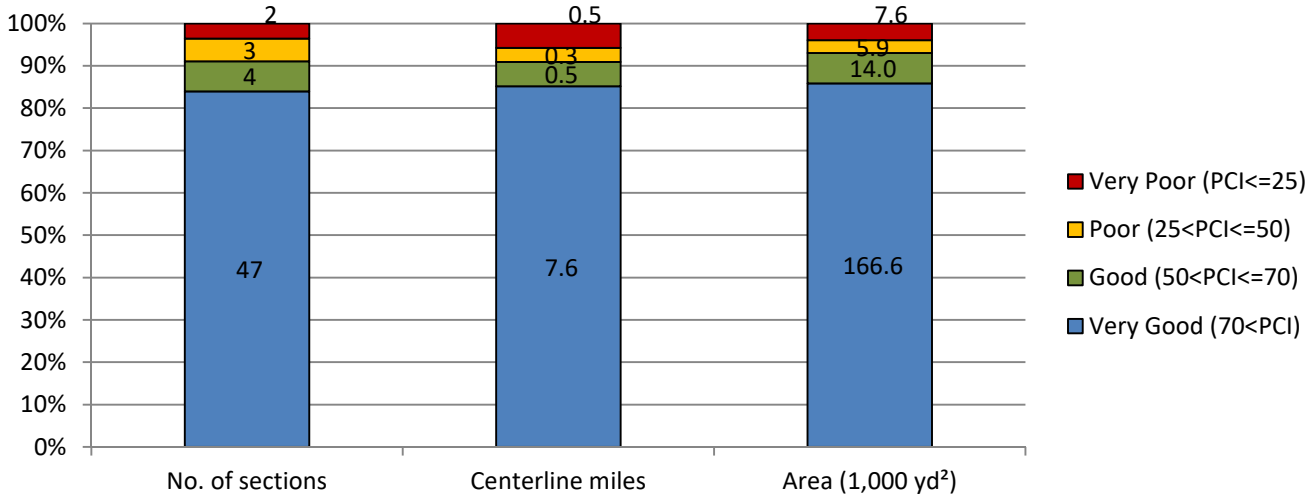

Figure 5. PCI rating categories for the Collector functional class

7.3 Residential functional class

The following table shows the distribution of PCI ratings throughout the City's Residential network.

PCI Ratings	No. of sections	Centerline miles	Area (1,000 yd²)	% in Area
Very Good (70<PCI)	98	14.3	310.0	55.8%
Good (50<PCI<=70)	37	5.3	105.6	19.0%
Poor (25<PCI<=50)	34	5.7	124.5	22.4%
Very Poor (PCI<=25)	8	0.9	15.2	2.7%
Total	**177**	**26.2**	**555.2**	**100.0%**

Table 7. PCI rating categories for the Residential functional class

As the above table shows, 135 sections out of the City's 177 Residential functional class sections, 74.8% in area, are in or above "Good" condition or higher condition; 34 sections are in "Poor" condition; and 8 sections are in "Very Poor" condition.

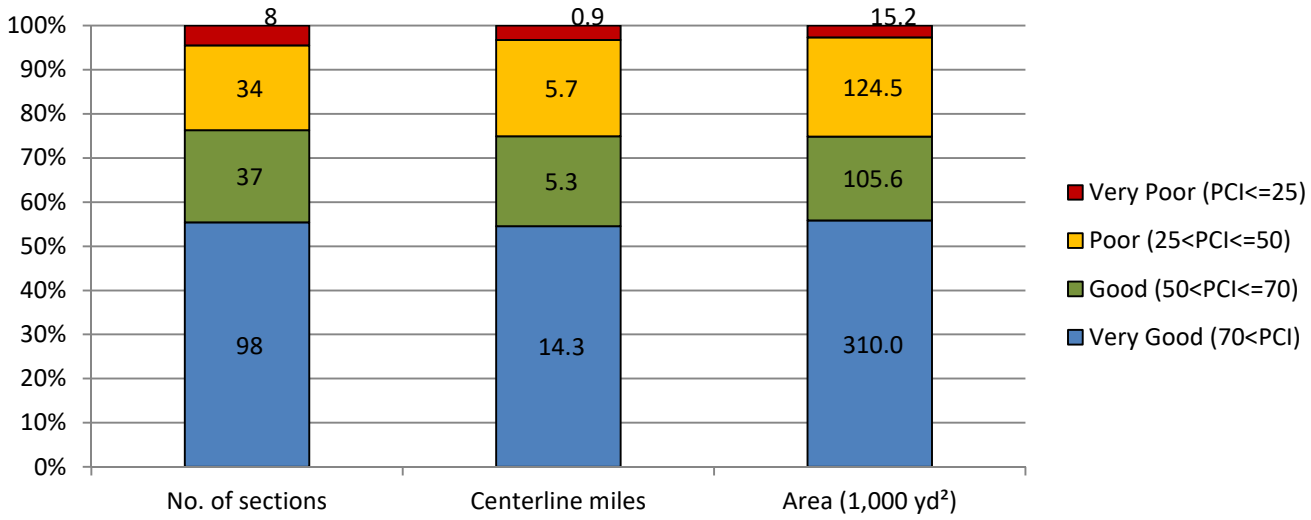

Figure 6. PCI rating categories for the Residential functional class

8 Comments

According to the database history, more than half of the network was surveyed in 2010 and majority of the rest was surveyed in 2013. In order to be eligible to submit the PMP Certification Letter, it is recommended to survey arterial and collector roads every other year and residential roads at least every 5 years.

Through the funding from MTC's P-TAP Round 17, City's 250 managed pavement sections were surveyed and updated in the PMS database. The City provided Adhara with the section list received M&R in the past. Adhara updated data base for M&R prior to the inspection data update.

It is critical to update M&R in the PMS database because M&R plays a critical role in not only calculating current PCI, but also predicting the future pavement conditions. The M&R records in the PMS database are also used in determining desired future M&R treatments under budget options scenarios. Therefore, it is mandatory that M&R records in PMS should to be updated in a timely fashion.

It is noted that average PCI of the City road network had been increased. Adhara understands that the increase was caused by survey method change partially, splitting Weathering and Raveling, applied in 2016.

Appendix A : Inventory Update

Inventory Update: Newly added sections

STSECID	Street Name	Begin Location	End Location	Lanes	FC	Len	Width	Area
CAROCT01	CAROLE COURT	WEEKS ST	CUL DE SAC	2	R	175	30	5,250
DAPHWA03	DAPHNE WAY	JASMINE WAY	E END	2	R	100	24	2,400
DONOST10	DONOHOE STREET	EAST BAYSHORE RD	COOLEY AVENUE	5	C	265	72	19,080
HAZEWA02	HAZELWOOD WAY	URSULA WY	S END	2	R	162	29	4,698
OAKDRD02	OAKDALE RD	LINCOLN AV	GLEN WAY	2	R	252	16	4,032

Total 5 Sections

954 ft

35460 sqft

Inventory Update: Deleted sections

STSECID	Street Name	Beg Location	End Location	Lanes	FC	Len	Width	Area
CAROLE01	CAROLE COURT	WEEKS ST	CUL DE SAC	2	R	175	30	5,250
TARAST11	TARA STREET	BAY RD	END OF PAVE	2	R	498	37	18,426
WESTRD10	WEST BAYSHORE ROA	CAPITOL	COOLEY	2	R	300	31	9,300

Total 3 Sections

973 ft

32976 sqft

Inventory Update: No. of Lanes change

STSECID	Street Name	Begin location	End location	Lanes: New	Lanes: Old
DONOST01	DONOHOE STREET	EUCLID AVENUE	UNIVERSITY AVENUE	**3**	2
DONOST02	DONOHOE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**4**	2
DONOST09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	**4**	2

Total 3 Sections

Inventory Update: Length change

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
ADDIAV01	ADDISON AVENUE	BAY ROAD	GARDEN STREET	**1,289**	1,200
AVALST01	AVELAR STREET	RUNNYMEDE ST	RUNNYMEDE ST	**797**	724
AZALDR02	AZALIA DRIVE	O'CONNOR STREET	VERBEENA DR	**945**	1,150
AZALDR03	AZALIA DRIVE	VERBEENA DR	CAMELLIA DRIVE	**952**	700
BAYROA02	BAY ROAD	MENALTO AVENUE	NEWBRIDGE STREET	**632**	577
BAYROA06	BAY ROAD	CLARKE AVENUE	PULGAS AVENUE	**1,030**	950
BELLST02	BELL STREET	EUCLID AVENUE	UNIVERSITY AVENUE	**536**	450
BELLST03	BELL STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**662**	600
CAMEDR03	CAMELLIA DRIVE	GARDENIA WAY	WISTERIA DRIVE	**1,619**	1,550
CAMPWY10	CAMPHOR WAY	GREEN ST	END	**200**	250
CAPIAV01	CAPITOL AVENUE	RUNNYMEDE STREET	BELL STREET	**1,059**	1,000
CAPIAV02	CAPITOL AVENUE	BELL STREET	DONOHOE STREET	**1,066**	1,000
CAPIAV10	CAPITOL AVENUE	SCOFIELD	W. BAYSHORE	**824**	370
CLARAV05	CLARKE AVENUE	BEECH STREET	DONOHOE STREET	**935**	650
CLARCT01	CLARENCE CT	KAVANAUGH DRIVE	END	**154**	200
CONNWY10	CONNOLLY WAY	GARDEN	END	**215**	225
COOLAV01	COOLEY AVENUE	UNIVERSITY AVENUE	RUNNYMEDE STREET	**941**	900

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
COOLAV02	COOLEY AVENUE	RUNNYMEDE STREET	BELL STREET	**908**	1,000
COOLAV03	COOLEY AVENUE	BELL STREET	DONOHOE STREET	**1,242**	1,000
COOLAV04	COOLEY AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	**1,247**	1,300
CYPRST01	CYPRESS STREET	PULGAS AVENUE	END	**1,118**	1,050
DAISLA01	DAISY LANE	O'CONNOR STREET	END	**608**	600
DAPHCT01	DAPHNE CT	DAPHNE WAY	END	**143**	150
DAPHWA02	DAPHNE WAY	ASTER WAY	JASMINE WAY	**718**	800
DONOST01	DONOHOE STREET	EUCLID AVENUE	UNIVERSITY AVENUE	**671**	600
DONOST02	DONOHOE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**738**	650
DONOST09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	**813**	975
DREWCT01	DREW CT	ILLINOIS STREET	END	**129**	150
EASTRO01	EAST BAYSHORE ROAD	LAUREL AVENUE	HOLLAND STREET	**667**	600
EASTRO02	EAST BAYSHORE ROAD	MENALTO AVENUE	LAUREL AVENUE	**760**	700
EASTRO04	EAST BAYSHORE ROAD	ADDISON AVENUE	LINCOLN STREET	**822**	750
EASTRO05	EAST BAYSHORE ROAD	LINCOLN STREET	EUCLID AVENUE	**769**	700
EASTRO06A	EAST BAYSHORE ROAD	CLARKE AVE	1700 E BAYSHORE RD	**1,798**	1,536
EASTRO06B	EAST BAYSHORE ROAD	1700 E BAYSHORE RD	DONOHOE ST	**559**	864
EASTRO07	EAST BAYSHORE ROAD	CLARKE AVENUE	PULGAS AVENUE	**1,681**	1,600

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
EASTRO09	EAST BAYSHORE ROAD	HOLLAND STREET	SARATOGA AVENUE	**524**	700
EASTST01	EAST O'KEEFE STREET	EUCLID AVENUE	CITY LIMIT	**1,616**	2,100
EUCLAV01	EUCLID AVENUE	RUNNYMEDE STREET	BELL STREET	**1,067**	1,000
EUCLAV02	EUCLID AVENUE	BELL STREET	DONOHOE STREET	**1,067**	1,000
EUCLAV03	EUCLID AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	**598**	500
FARRWA01	FARRINGTON WAY	KAVANAUGH DRIVE	URSULA WAY	**802**	750
FORDST02	FORDHAM STREET	RUTGERS ST	STEVENS AVENUE	**551**	500
FORDST04	FORDHAM STREET	PURDUE AVENUE	NOTRE DAME AVENUE	**805**	750
FORDST06	FORDHAM STREET	MICHIGAN AVENUE	BAY ROAD	**706**	650
GAILWA01	GAILLARDIA WAY	AZALIA DRIVE	PULGAS AVENUE	**576**	450
GARDCT01	GARDENIA CT	GARDENIA WAY	END	**151**	200
GARDST01	GARDEN STREET	MENALTO AVENUE	OAKWOOD DRIVE	**976**	900
GARDWA01	GARDENIA WAY	CAMELLIA DRIVE	AZALIA DRIVE	**754**	700
GARDWA02	GARDENIA WAY	AZALIA DRIVE	VERBINA DRIVE	**978**	800
GERTCT01	GERTRUDE CT	KAVANAUGH DRIVE	END	**124**	150
GLENWA01	GLEN WAY	BAY ROAD	RUNNYMEDE STREET	**955**	900
GONZST03	GONZAGA STREET	NOTRE DAME	END	**197**	250
GONZST04	GONZAGA STREET	MICHIGAN AVENUE	BAY ROAD	**706**	650

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
GRACAV01	GRACE AVENUE	GLORIA WAY	END	**380**	400
GREEST01	GREEN STREET	LINCOLN STREET	GLEN WAY	**353**	383
HAZEWA01	HAZELWOOD WAY	KAVANAUGH DR	URSULA WY	**827**	1,000
HIBICT01	HIBISCUS CT	DAISY LANE	END	**134**	150
HOLLST01	HOLLAND STREET	EAST BAYSHORE ROAD	MENALTO AVENUE	**1,190**	1,050
ILLIST03	ILLINOIS STREET	PURDUE AVENUE	NOTRE DAME AVENUE	**612**	550
ILLIST05	ILLINOIS STREET	MICHIGAN AVENUE	BAY ROAD	**730**	650
JASMWA01	JASMINE WAY	DAPHINE WAY	CAMELLIA DRIVE	**1,269**	1,200
JERVAV01	JERVIS AVENUE	ALBERNI STREET	BAY ROAD	**1,473**	1,400
KAVADR01	KAVANAUGH DRIVE	UNIVERSITY AVENUE	CITY LIMIT	**1,972**	1,900
KIRKCT01	KIRKWOOD CT	KAVANAUGH DRIVE	END	**179**	200
LAKEDR02	LARKSPUR DRIVE	O'CONNOR STREET	GARDENIA WAY	**530**	600
LAURAV01	LAUREL AVENUE	ALBERNI STREET (END)	BAY ROAD	**1,361**	1,300
LITLAN10	LITA LANE	MYRTLE ST	END	**274**	200
LOTUWA01	LOTUS WAY	WISTERIA DRIVE	END	**229**	250
MANHAV02	MANHATTAN AVENUE	O'CONNOR STREET	WOODLAND AVENUE	**781**	700
MCNAST01	McNAIR STREET	WILKS STREET	OAKES STREET	**588**	494
MELLST01	MELLO STREET	LAUREL AVENUE	BAY ROAD	**581**	500

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
MICHAV01	MICHIGAN AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	**685**	600
MICHAV02	MICHIGAN AVENUE	FORDHAM STREET	ILLINOIS STREET	**515**	450
MOUTCI01	MOUTON CIRCLE	McNAIR STREET	McNAIR STREET	**1,148**	1,054
MYRTPL01	MYRTLE PLACE	MYRTLE ST	CULDESAC	**221**	171
NEWBST01A	NEWBRIDGE STREET	RALMAR AVENUE	SARATOGA AVENUE	**1,854**	1,900
NEWBST01B	NEWBRIDGE STREET	SARATOGA AVENUE	CITY LIMIT	**255**	200
NOTRAV01	NOTRE DAME AVENUE	UNIVERSITY AVENUE	FORDHAM AVENUE	**674**	600
NOTRAV02	NOTRE DAME AVENUE	FORDHAM AVENUE	ILLINOIS STREET	**508**	400
OAKDRD01	OAKDALE RD	PALO VERDE AVE	LINCOLN AV	**268**	500
OAKEST01	OAKES STREET	PULGAS AVENUE	BAINES STREET	**1,444**	1,278
OAKWDR01	OAKWOOD DRIVE	BAY ROAD	BELL ST	**1,706**	1,780
OAKWDR03	OAKWOOD DRIVE	WEST BAYSHORE ROAD	DONOHOE STREET	**342**	250
OCONST01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	**526**	500
OCONST05	O'CONNOR STREET	LAKESPUR DRIVE	END	**622**	600
PAULCT10	PAUL ROBESON COURT	WEEKS ST.	END	**198**	150
POPLAV01	POPLAR AVENUE	ALBERNI STREET	NEWBRIDGE STREET	**874**	800
PULGAV02	PULGAS AVENUE	BAY ROAD	WEEKS STREET	**1,063**	1,000
PULGAV08	PULGAS AVENUE	O'CONNOR STREET	GAILLARDIA WAY	**1,026**	950

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
PULGAV09	PULGAS AVENUE	GAILLARDIA WAY	EAST BAYSHORE ROAD	**1,388**	1,300
RUNNST01	RUNNYMEDE STREET	PALO VERDE AVENUE	GLEN WAY	**408**	500
RUNNST02	RUNNYMEDE STREET	GLEN WAY	UNIVERSITY AVENUE	**676**	600
RUNNST03	RUNNYMEDE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**588**	550
RUTGST01	RUTGERS STREET	FORDHAM STREET	N DEAD END	**382**	322
SAGAAV01	SARATOGA AVENUE	EAST BAYSHORE ROAD	CITY LIMIT	**1,444**	1,500
SAGEST01	SAGE STREET	PULGAS AVENUE	LAKESPUR DRIVE	**758**	700
SALACT10	SALAS COURT	DONOHOE ST	END	**229**	200
SCFIST10	SCOFIELD STREET	WOODLAND AVE	COOLEY AVE	**640**	350
SPARCT10	SPARROW COURT	MYRTLE ST	END	**162**	175
TARAST10	TARA STREET	BAY RD	END	**400**	700
TATEST01	TATE STREET	O`CONNOR STREET	BAINES STREET	**1,125**	1,050
TEMPCT01	TEMPLE CT	ILLINOIS STREET	END	**174**	200
TINSST01	TINSLEY STREET	TATE STREET	CLARKE AVENUE	**523**	456
TULAAV01	TULANE AVENUE	XAVIER ST	RUTGERS ST	**1,197**	1,400
UNIVAV01N	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	**1,715**	1,800
UNIVAV01S	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	**1,715**	1,800
UNIVAV04	UNIVERSITY AVENUE	RUNNYMEDE STREET	BELL STREET	**1,061**	1,000

STSECID	Street Name	Begin location	End location	LEN: New	LEN: Old
UNIVAV05	UNIVERSITY AVENUE	BELL STREET	DONOHOE STREET	**1,064**	1,000
UNIVAV06	UNIVERSITY AVENUE	DONOHOE STREET	WOODLAND AVENUE	**1,853**	800
URSUWA01	URSULA WAY	HAZELWOOD WAY	EMMETT WAY	**866**	789
WEEKST02	WEEKS STREET	UNIVERSITY AVENUE	END	**809**	750
WESTAV01	WESTMINSTER AVENUE	BAY ROAD	CITY LIMIT	**1,734**	1,650
WESTRO01	WEST BAYSHORE ROAD	OAKWOOD DR/GREEN ST	MANHATTAN AVENUE	**1,707**	1,805
WESTRO05	WEST BAYSHORE ROAD	WOODLAND AVENUE	CITY LIMIT	**747**	399
WILKST01	WILKS STREET	TATE STREET	E END	**792**	737
WISTDR03	WISTERIA DRIVE	GARDENIA WAY	CAMELLIA DRIVE	**1,073**	1,000
WOODAV01	WOODLAND AVENUE	EUCLID AVENUE	MANHATTAN AVENUE	**454**	400
WOODAV02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	**524**	350
WOODAV03	WOODLAND AVENUE	COOLEY AVENUE	NEWELL ROAD	**750**	600
WOODAV04	WOODLAND AVENUE	NEWELL ROAD	CLARKE AVENUE	**760**	650
WOODAV05	WOODLAND AVENUE	CLARKE AVENUE	W BAYSHORE RD	**1,509**	1,450

Total 121 Sections

New - Old = 5455 ft

Inventory Update: Area change

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
ADDIAV01	ADDISON AVENUE	BAY ROAD	GARDEN STREET	**25,780**	24,000
AVALST01	AVELAR STREET	RUNNYMEDE ST	RUNNYMEDE ST	**27,098**	24,616
AZALDR02	AZALIA DRIVE	O'CONNOR STREET	VERBEENA DR	**23,625**	57,500
AZALDR03	AZALIA DRIVE	VERBEENA DR	CAMELLIA DRIVE	**23,800**	35,000
BAYROA02	BAY ROAD	MENALTO AVENUE	NEWBRIDGE STREET	**17,696**	16,156
BAYROA06	BAY ROAD	CLARKE AVENUE	PULGAS AVENUE	**70,040**	47,500
BEECST02	BEECH STREET	PULGAS AVENUE	END	**37,365**	50,000
BELLCT10	BELL COURT	BELL	END	**6,088**	5,625
BELLST02	BELL STREET	EUCLID AVENUE	UNIVERSITY AVENUE	**21,440**	18,000
BELLST03	BELL STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**24,494**	36,000
CAMEDR03	CAMELLIA DRIVE	GARDENIA WAY	WISTERIA DRIVE	**50,189**	48,050
CAMPWY10	CAMPHOR WAY	GREEN ST	END	**6,753**	7,250
CAPIAV01	CAPITOL AVENUE	RUNNYMEDE STREET	BELL STREET	**39,183**	60,000
CAPIAV02	CAPITOL AVENUE	BELL STREET	DONOHOE STREET	**39,442**	60,000
CAPIAV10	CAPITOL AVENUE	SCOFIELD	W. BAYSHORE	**20,600**	9,250
CLARAV05	CLARKE AVENUE	BEECH STREET	DONOHOE STREET	**34,595**	26,000
CLARCT01	CLARENCE CT	KAVANAUGH DRIVE	END	**5,425**	10,000
CONNWY10	CONNOLLY WAY	GARDEN	END	**3,736**	4,260
COOLAV01	COOLEY AVENUE	UNIVERSITY AVENUE	RUNNYMEDE STREET	**34,817**	54,000
COOLAV02	COOLEY AVENUE	RUNNYMEDE STREET	BELL STREET	**33,596**	50,000

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
COOLAV03	COOLEY AVENUE	BELL STREET	DONOHOE STREET	**45,954**	50,000
COOLAV04	COOLEY AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	**39,904**	78,000
CYPRST01	CYPRESS STREET	PULGAS AVENUE	END	**32,422**	52,500
DAISLA01	DAISY LANE	O'CONNOR STREET	END	**21,312**	30,000
DAPHCT01	DAPHNE CT	DAPHNE WAY	END	**5,093**	6,000
DAPHWA02	DAPHNE WAY	ASTER WAY	JASMINE WAY	**17,232**	19,200
DONOST01	DONOHOE STREET	EUCLID AVENUE	UNIVERSITY AVENUE	**34,892**	31,200
DONOST02	DONOHOE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**51,660**	45,500
DONOST09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	**43,089**	51,675
DREWCT01	DREW CT	ILLINOIS STREET	END	**4,698**	9,000
DUMBAV01	DUMBARTON AVENUE	BAY ROAD	PALO VERDE AVENUE	**20,400**	34,000
DUMBAV02	DUMBARTON AVENUE	PALO VERDE AVENUE	BELL STREET	**25,200**	45,000
EASTRO01	EAST BAYSHORE ROAD	LAUREL AVENUE	HOLLAND STREET	**20,010**	30,000
EASTRO02	EAST BAYSHORE ROAD	MENALTO AVENUE	LAUREL AVENUE	**22,800**	35,000
EASTRO04	EAST BAYSHORE ROAD	ADDISON AVENUE	LINCOLN STREET	**26,304**	37,500
EASTRO05	EAST BAYSHORE ROAD	LINCOLN STREET	EUCLID AVENUE	**26,146**	42,000
EASTRO06A	EAST BAYSHORE ROAD	CLARKE AVE	1700 E BAYSHORE RD	**75,516**	64,512
EASTRO06B	EAST BAYSHORE ROAD	1700 E BAYSHORE RD	DONOHOE ST	**49,192**	76,032
EASTRO07	EAST BAYSHORE ROAD	CLARKE AVENUE	PULGAS AVENUE	**52,111**	96,000
EASTRO09	EAST BAYSHORE ROAD	HOLLAND STREET	SARATOGA AVENUE	**15,720**	42,000
EASTST01	EAST O'KEEFE STREET	EUCLID AVENUE	CITY LIMIT	**53,328**	126,000

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
EUCLAV01	EUCLID AVENUE	RUNNYMEDE STREET	BELL STREET	**39,479**	37,000
EUCLAV02	EUCLID AVENUE	BELL STREET	DONOHOE STREET	**39,479**	60,000
EUCLAV03	EUCLID AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	**22,126**	30,000
FARRWA01	FARRINGTON WAY	KAVANAUGH DRIVE	URSULA WAY	**24,060**	37,500
FORDST02	FORDHAM STREET	RUTGERS ST	STEVENS AVENUE	**15,979**	14,500
FORDST04	FORDHAM STREET	PURDUE AVENUE	NOTRE DAME AVENUE	**34,615**	45,000
FORDST06	FORDHAM STREET	MICHIGAN AVENUE	BAY ROAD	**28,946**	45,500
GAILWA01	GAILLARDIA WAY	AZALIA DRIVE	PULGAS AVENUE	**14,400**	22,500
GARDCT01	GARDENIA CT	GARDENIA WAY	END	**4,284**	8,000
GARDST01	GARDEN STREET	MENALTO AVENUE	OAKWOOD DRIVE	**29,280**	45,000
GARDST03	GARDEN STREET	CLARK AVENUE	PULGAS AVENUE	**39,000**	65,000
GARDST04	GARDEN STREET	PULGAS AVENUE	END	**35,097**	44,000
GARDWA01	GARDENIA WAY	CAMELLIA DRIVE	AZALIA DRIVE	**18,096**	35,000
GARDWA02	GARDENIA WAY	AZALIA DRIVE	VERBINA DRIVE	**23,472**	40,000
GERTCT01	GERTRUDE CT	KAVANAUGH DRIVE	END	**4,542**	7,500
GLENWA01	GLEN WAY	BAY ROAD	RUNNYMEDE STREET	**21,010**	19,800
GONZST03	GONZAGA STREET	NOTRE DAME	END	**6,681**	12,500
GONZST04	GONZAGA STREET	MICHIGAN AVENUE	BAY ROAD	**20,474**	32,500
GRACAV01	GRACE AVENUE	GLORIA WAY	END	**12,422**	12,000
GREEST01	GREEN STREET	LINCOLN STREET	GLEN WAY	**4,942**	4,596
HAZEWA01	HAZELWOOD WAY	KAVANAUGH DR	URSULA WY	**23,983**	29,000

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
HENRCT10	HENRY COURT	BELL	END	**4,710**	5,885
HIBICT01	HIBISCUS CT	DAISY LANE	END	**5,033**	7,500
HOLLST01	HOLLAND STREET	EAST BAYSHORE ROAD	MENALTO AVENUE	**33,320**	29,400
ILLIST03	ILLINOIS STREET	PURDUE AVENUE	NOTRE DAME AVENUE	**17,748**	27,500
ILLIST05	ILLINOIS STREET	MICHIGAN AVENUE	BAY ROAD	**21,170**	32,500
JASMWA01	JASMINE WAY	DAPHINE WAY	CAMELLIA DRIVE	**30,456**	60,000
JERVAV01	JERVIS AVENUE	ALBERNI STREET	BAY ROAD	**44,190**	42,000
KAVADR01	KAVANAUGH DRIVE	UNIVERSITY AVENUE	CITY LIMIT	**72,964**	70,300
KIRKCT01	KIRKWOOD CT	KAVANAUGH DRIVE	END	**6,143**	5,800
LAKEDR02	LARKSPUR DRIVE	O'CONNOR STREET	GARDENIA WAY	**12,720**	30,000
LAURAV01	LAUREL AVENUE	ALBERNI STREET (END)	BAY ROAD	**40,830**	39,000
LILALA01	LILAC LANE	DUMBARTON AVENUE	PALO VERDE AVENUE	**6,300**	4,900
LITLAN10	LITA LANE	MYRTLE ST	END	**3,562**	2,600
LOTUWA01	LOTUS WAY	WISTERIA DRIVE	END	**6,151**	6,000
MANHAV02	MANHATTAN AVENUE	O'CONNOR STREET	WOODLAND AVENUE	**31,240**	28,000
MCNAST01	McNAIR STREET	WILKS STREET	OAKES STREET	**19,404**	16,302
MELLST01	MELLO STREET	LAUREL AVENUE	BAY ROAD	**17,430**	25,000
MICHAV01	MICHIGAN AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	**19,865**	30,000
MICHAV02	MICHIGAN AVENUE	FORDHAM STREET	ILLINOIS STREET	**14,935**	22,500
MOUTCI01	MOUTON CIRCLE	McNAIR STREET	McNAIR STREET	**37,884**	34,782
MYRTPL01	MYRTLE PLACE	MYRTLE ST	CULDESAC	**5,690**	3,933

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
NEWBST01A	NEWBRIDGE STREET	RALMAR AVENUE	SARATOGA AVENUE	**76,014**	77,900
NEWBST01B	NEWBRIDGE STREET	SARATOGA AVENUE	CITY LIMIT	**19,380**	8,200
NOTRAV01	NOTRE DAME AVENUE	UNIVERSITY AVENUE	FORDHAM AVENUE	**19,546**	30,000
NOTRAV02	NOTRE DAME AVENUE	FORDHAM AVENUE	ILLINOIS STREET	**14,732**	20,000
OAKDRD01	OAKDALE RD	PALO VERDE AVE	LINCOLN AV	**4,288**	8,000
OAKEST01	OAKES STREET	PULGAS AVENUE	BAINES STREET	**47,652**	42,174
OAKWDR01	OAKWOOD DRIVE	BAY ROAD	BELL ST	**44,356**	46,280
OAKWDR03	OAKWOOD DRIVE	WEST BAYSHORE ROAD	DONOHOE STREET	**6,156**	4,500
OCONST01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	**15,780**	20,000
OCONST03	O'CONNOR STREET	PULGAS AVENUE	AZALIA DRIVE	**10,350**	9,675
OCONST05	O'CONNOR STREET	LAKESPUR DRIVE	END	**21,780**	30,000
PAULCT10	PAUL ROBESON COURT	WEEKS ST.	END	**7,232**	4,650
POPLAV01	POPLAR AVENUE	ALBERNI STREET	NEWBRIDGE STREET	**26,220**	24,000
POPLAV02A	POPLAR AVENUE	BAY ROAD	GARDEN STREET	**27,100**	17,344
PULGAV02	PULGAS AVENUE	BAY ROAD	WEEKS STREET	**39,331**	50,000
PULGAV08	PULGAS AVENUE	O'CONNOR STREET	GAILLARDIA WAY	**45,144**	47,500
PULGAV09	PULGAS AVENUE	GAILLARDIA WAY	EAST BAYSHORE ROAD	**48,580**	65,000
ROBICT10	ROBIN COURT	WEEKS ST	END	**2,251**	2,100
RUNNST01	RUNNYMEDE STREET	PALO VERDE AVENUE	GLEN WAY	**13,056**	16,000
RUNNST02	RUNNYMEDE STREET	GLEN WAY	UNIVERSITY AVENUE	**21,632**	19,200
RUNNST03	RUNNYMEDE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	**21,756**	33,000

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
RUTGST01	RUTGERS STREET	FORDHAM STREET	N DEAD END	**11,460**	60,000
RUTHCT01	RUTH CT	RUNNYMEDE STREET	END	**8,798**	12,500
SAGAAV01	SARATOGA AVENUE	EAST BAYSHORE ROAD	CITY LIMIT	**43,320**	45,000
SAGEST01	SAGE STREET	PULGAS AVENUE	LAKESPUR DRIVE	**18,192**	35,000
SALACT10	SALAS COURT	DONOHOE ST	END	**5,038**	4,000
SCFIST10	SCOFIELD STREET	WOODLAND AVE	COOLEY AVE	**14,080**	7,700
SPARCT10	SPARROW COURT	MYRTLE ST	END	**6,585**	5,775
TARAST10	TARA STREET	BAY RD	END	**14,800**	25,900
TATEST01	TATE STREET	O`CONNOR STREET	BAINES STREET	**37,125**	34,650
TEMPCT01	TEMPLE CT	ILLINOIS STREET	END	**6,018**	10,000
TINSST01	TINSLEY STREET	TATE STREET	CLARKE AVENUE	**17,259**	15,048
TULAAV01	TULANE AVENUE	XAVIER ST	RUTGERS ST	**34,713**	84,000
UNIVAV01N	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	**48,020**	50,400
UNIVAV01S	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	**48,020**	50,400
UNIVAV04	UNIVERSITY AVENUE	RUNNYMEDE STREET	BELL STREET	**63,660**	60,000
UNIVAV05	UNIVERSITY AVENUE	BELL STREET	DONOHOE STREET	**63,840**	100,000
UNIVAV06	UNIVERSITY AVENUE	DONOHOE STREET	WOODLAND AVENUE	**190,859**	82,400
URSUWA01	URSULA WAY	HAZELWOOD WAY	EMMETT WAY	**25,114**	22,881
WEEKST02	WEEKS STREET	UNIVERSITY AVENUE	END	**17,798**	16,500
WEEKST04	WEEKS STREET	CLARKE AVENUE	END	**82,434**	88,000
WESTAV01	WESTMINSTER AVENUE	BAY ROAD	CITY LIMIT	**52,020**	49,500

STSECID	Street Name	Begin location	End location	Area: New	Area: Old
WESTRO01	WEST BAYSHORE ROAD	OAKWOOD DR/GREEN ST	MANHATTAN AVENUE	**54,624**	57,760
WESTRO05	WEST BAYSHORE ROAD	WOODLAND AVENUE	CITY LIMIT	**23,157**	12,369
WILKST01	WILKS STREET	TATE STREET	E END	**26,136**	24,321
WISTDR03	WISTERIA DRIVE	GARDENIA WAY	CAMELLIA DRIVE	**25,752**	50,000
WOODAV01	WOODLAND AVENUE	EUCLID AVENUE	MANHATTAN AVENUE	**9,988**	8,800
WOODAV02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	**26,200**	21,000
WOODAV03	WOODLAND AVENUE	COOLEY AVENUE	NEWELL ROAD	**27,750**	22,200
WOODAV04	WOODLAND AVENUE	NEWELL ROAD	CLARKE AVENUE	**15,960**	32,500
WOODAV05	WOODLAND AVENUE	CLARKE AVENUE	W BAYSHORE RD	**28,671**	72,500

Total 134 Sections

New - Old = -829167 sqft

Inventory Update: Begin/End location change

STSECID	Street Name	Begin location: Old **Begin location: New**	End location: Old **End location: New**
AZALDR02	AZALIA DRIVE	O'CONNOR STREET **O'CONNOR STREET**	GARDENIA WAY **VERBEENA DR**
AZALDR03	AZALIA DRIVE	GARDENIA WAY **VERBEENA DR**	CAMELLIA DRIVE **CAMELLIA DRIVE**
DAPHWA02	DAPHNE WAY	ASTER WAY **ASTER WAY**	100 FT E OF JASMINE WAY **JASMINE WAY**
DONOST09	DONOHOE STREET	SALAS COURT **SALAS COURT**	COOLEY AVENUE **EAST BAYSHORE RD**
DUMBAV02	DUMBARTON AVENUE	PALO VERDE AVENUE **PALO VERDE AVENUE**	BELL STRRET **BELL STREET**
HAZEWA01	HAZELWOOD WAY	KAVANAUGH DRIVE **KAVANAUGH DR**	END **URSULA WY**
OAKDRD01	OAKDALE RD	PALO VERDE AVENUE **PALO VERDE AVE**	GLEN WAY **LINCOLN AV**
OCONST01	O'CONNOR STREET	CLARKE AVENUE **CLARKE AVENUE**	500' E. OF CLARK AVE **TATE ST**
OCONST02	O'CONNOR STREET	500' E. OF CLARK AVE **TATE ST**	PULGAS AVENUE **PULGAS AVENUE**

STSECID	Street Name	Begin location: Old **Begin location: New**	End location: Old **End location: New**
SHORCT01	SHOREBREEZE CT	BEECH ST **BEECH ST**	HAMMERHEAD CULDESAC **E AND W END**
UNIVAV01N	UNIVERSITY AVENUE	TULANE AVENUE **CITY LIMIT**	NOTRE DAME **NOTRE DAME**
UNIVAV01S	UNIVERSITY AVENUE	TULANE AVENUE **CITY LIMIT**	NOTRE DAME **NOTRE DAME**

Total 12 Sections

Inventory Update: Surface Type change

STSECID	Street Name	Begin location	End location	Surface Type: New	Surface Type: Old
DAPHCT01	DAPHNE CT	DAPHNE WAY	END	**O**	A
DAPHWA01	DAPHNE WAY	WESTERIA DRIVE	ASTER WAY	**O**	A
DAPHWA02	DAPHNE WAY	ASTER WAY	JASMINE WAY	**O**	A

Total 3 Sections

Inventory Update: Width Change

STSECID	Street Name	Begin location	End location	Width: New	Width: Old
DUMBAV01	DUMBARTON AVENUE	BAY ROAD	PALO VERDE AVENUE	24	20
DUMBAV02	DUMBARTON AVENUE	PALO VERDE AVENUE	BELL STREET	28	20
GARDST01	GARDEN STREET	MENALTO AVENUE	OAKWOOD DRIVE	30	20
GARDST03	GARDEN STREET	CLARK AVENUE	PULGAS AVENUE	30	24
GREEST01	GREEN STREET	LINCOLN STREET	GLEN WAY	14	12
LILALA01	LILAC LANE	DUMBARTON AVENUE	PALO VERDE AVENUE	18	14
NEWBST01B	NEWBRIDGE STREET	SARATOGA AVENUE	CITY LIMIT	76	41
OCONST01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	30	40
OCONST03	O'CONNOR STREET	PULGAS AVENUE	AZALIA DRIVE	46	43
POPLAV02A	POPLAR AVENUE	BAY ROAD	GARDEN STREET	25	16
PULGAV08	PULGAS AVENUE	O'CONNOR STREET	GAILLARDIA WAY	44	35
WOODAV02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	50	60

Total 12 Sections

Appendix B: Network Summary Statistics

Network Summary Statistics

Printed: 01/23/2017

	Total Sections	Total Center Miles	Total Lane Miles	PCI
Arterial	17	3.64	10.69	77
Collector	56	8.95	19.66	79
Residential/Local	177	26.24	52.56	68
Proposed; Private; Non-County	3	0.13	0.25	23
** Combined	1	0.08	0.15	N/A
Gravel	1	0.08	0.15	N/A
Total	254	39.03	83.32	

Overall Network PCI as of 1/23/2017: 71

** Combined Sections are those without a PCI Date - they have not been inspected or had a Treatment applied.

Appendix C: Unmanaged and 2016 M&R Section List

Unmanaged Sections

STSECID	ST_NAME	FROM	TO	LANES	FC	LEN	WIDTH	AREA_SEC	SUR_TYPE	YR_CONST	DES_COND_K
CONNWY10	CONNOLLY WAY	GARDEN	END	2	NCR	215	16	3736	A	1/1/1998	FF0000066C
LITLAN10	LITA LANE	MYRTLE ST	END	2	NCR	274	13	3562	G	1/1/1992	FF00000695
ROBICT10	ROBIN COURT	WEEKS ST	END	2	NCR	175	12	2251	A	1/1/1996	FF0000066A
TARAST10	TARA STREET	BAY RD	END	2	NCR	400	37	14800	G	12/31/1989	FF00000661

Appendix D: PCI Calculation Summary

Inspection &

Maintenance and Rehabilitation

PCI Calculation - Summary

Printed: 12/20/2016

Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
ABELWA	01	ABELLA WAY	CAMELLIA DRIVE	VERBINA DRIVE	8/19/2016	25	46	57	40	42.22	43.84	0.78
ADDIAV	01	ADDISON AVENUE	BAY ROAD	GARDEN STREET	8/22/2016	100	69	86	49	71.21	1.63	18.30
ADDIAV	02	ADDISON AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	8/22/2016	19	35	40	33	79.01	1.90	5.26
ADDIAV	03	ADDISON AVENUE	GREEN STREET	DONOHOE STREET	8/22/2016	74	64	91	48	80.03	5.71	5.30
ALBEST	01	ALBERNI STREET	RALMAR AVENUE	CITY LIMIT	8/22/2016	57	64	88	27	75.07	13.15	7.06
ANNAST	01	ANNAPOLIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	8/19/2016	44	83	93	42	65.75	23.66	0.76
ASTEWA	01	ASTER WAY	WISTERIA DRIVE	DAPHNE WAY	8/19/2016	16	33	45	24	55.97	31.30	0.00
AVALST	01	AVELAR STREET	RUNNYMEDE ST	RUNNYMEDE ST	8/22/2016	89	95	96	95	33.50	33.01	33.50
AZALDR	01	AZALIA DRIVE	SAGE STREET	O'CONNOR STREET	8/19/2016	100	89	95	76	33.67	0.00	33.67
AZALDR	02	AZALIA DRIVE	O'CONNOR STREET	VERBEENA DR	8/19/2016	48	51	71	40	67.86	12.23	1.62
AZALDR	03	AZALIA DRIVE	VERBEENA DR	CAMELLIA DRIVE	8/19/2016	77	94	95	92	4.94	4.02	4.94
BAINST	01	BAINES STREET	OAKES STREET	OAKES STREET	8/22/2016	84	76	79	73	2.10	78.09	2.10
BAYLST	01	BAYLOR STREET	NOTRE DAME	MICHIGAN AVENUE	8/19/2016	69	89	91	88	11.39	51.72	2.98
BAYROA	01	BAY ROAD	EAST BAYSHORE ROAD	MENALTO AVENUE	8/22/2016	67	59	70	51	78.92	21.08	0.00
BAYROA	02	BAY ROAD	MENALTO AVENUE	NEWBRIDGE STREET	8/22/2016	22	34	36	31	61.59	22.46	0.00
BAYROA	03	BAY ROAD	NEWBRIDGE STREET	DUMBARTON AVENUE	8/22/2016	78	88	94	82	5.07	58.58	5.07
BAYROA	04	BAY ROAD	DUMBARTON AVENUE	UNIVERSITY AVENUE	8/22/2016	84	82	93	71	35.22	38.53	10.06
BAYROA	05	BAY ROAD	UNIVERSITY AVENUE	CLARKE AVENUE	8/22/2016	81	89	93	81	13.94	40.10	10.97
BAYROA	06	BAY ROAD	CLARKE AVENUE	PULGAS AVENUE	8/22/2016	64	76	83	66	23.50	47.35	17.74
BAYROA	07	BAY ROAD	PULGAS AVENUE	END	8/22/2016	9	18	25	11	76.18	9.08	6.55
BEECST	01	BEECH STREET	CLARKE AVENUE	PULGAS AVENUE	8/22/2016	48	72	84	61	56.59	9.76	9.34
BEECST	02	BEECH STREET	PULGAS AVENUE	END	8/19/2016	74	88	95	75	50.43	22.28	3.61
BELLCT	10	BELL COURT	BELL	END	8/22/2016	53	45	52	40	54.53	30.62	0.00
BELLST	01	BELL STREET	OAKWOOD DRIVE	EUCLID AVENUE	8/22/2016	90	92	95	87	23.81	0.00	23.81
BELLST	02	BELL STREET	EUCLID AVENUE	UNIVERSITY AVENUE	8/22/2016	90	92	93	91	27.20	0.00	27.20
BELLST	03	BELL STREET	UNIVERSITY AVENUE	COOLEY AVENUE	8/22/2016	89	55	90	42	88.80	1.02	1.39
BELLST	04	BELL STREET	COOLEY AVENUE	CLARKE AVENUE	8/22/2016	52	67	85	54	65.23	9.28	2.81
BRADWA	01	BRADLEY WAY	BAY ROAD	HOLLAND STREET	8/22/2016	47	45	53	36	61.26	38.74	0.00
BRENCT	01	BRENTWOOD CT	BEECH STREET	END	8/19/2016	40	56	61	50	62.90	11.75	8.44
BUCHCT	01	BUCHANAN CT	CLARKE AVENUE	END	8/22/2016	78	82	93	76	51.84	20.76	12.68
CAMECT	01	CAMELLIA CT	CAMELLIA DRIVE	END	8/19/2016	61	78	83	77	27.48	28.07	2.26

PCI Calculation - Summary

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Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
CAMEDR	01	CAMELLIA DRIVE	ABELLA WAY	PULGAS AVENUE	8/19/2016	84	70	81	61	64.00	29.91	6.10
CAMEDR	02	CAMELLIA DRIVE	WISTERIA DRIVE	ABELLA WAY	8/19/2016	83	72	77	67	66.66	22.83	10.51
CAMEDR	03	CAMELLIA DRIVE	GARDENIA WAY	WISTERIA DRIVE	8/19/2016	60	85	98	76	71.70	26.97	1.32
CAMPWY	10	CAMPHOR WAY	GREEN ST	END	8/22/2016	72	55	55	55	94.04	0.00	5.96
CAPIAV	01	CAPITOL AVENUE	RUNNYMEDE STREET	BELL STREET	8/22/2016	48	64	75	49	79.37	18.49	2.14
CAPIAV	02	CAPITOL AVENUE	BELL STREET	DONOHOE STREET	8/22/2016	53	65	100	55	77.67	21.71	0.62
CAPIAV	10	CAPITOL AVENUE	SCOFIELD	W. BAYSHORE	8/22/2016	33	78	88	71	30.52	37.05	1.08
CAROCT	01	CAROLE COURT	WEEKS ST	CUL DE SAC	8/22/2016	84	95	95	95	0.00	3.48	0.00
CIRCDR	10	CIRCLE DRIVE	COOLEY AVE	SCOFIELD AVE	8/22/2016	71	61	90	51	63.04	11.41	7.72
CLARAV	01	CLARKE AVENUE	BAY ROAD	WEEKS STREET	8/19/2016	84	90	95	86	23.32	53.35	23.32
CLARAV	02	CLARKE AVENUE	WEEKS STREET	RUNNYMEDE STREET	8/19/2016	83	82	84	80	2.67	94.67	2.67
CLARAV	03	CLARKE AVENUE	RUNNYMEDE STREET	GARDEN STREET	8/19/2016	85	85	98	73	58.44	41.56	0.00
CLARAV	04	CLARKE AVENUE	GARDEN STREET	BEECH STREET	8/19/2016	87	91	93	89	18.77	62.46	18.77
CLARAV	05	CLARKE AVENUE	BEECH STREET	DONOHOE STREET	8/19/2016	90	90	93	83	25.83	14.83	16.90
CLARAV	06	CLARKE AVENUE	DONOHOE STREET	O'CONNOR STREET	8/19/2016	92	93	95	93	15.35	0.00	15.35
CLARAV	08	CLARKE AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	8/22/2016	92	75	95	63	84.89	0.00	1.02
CLARAV	50	CLARKE AVENUE	O'CONNOR STREET	EAST BAYSHORE ROAD	8/19/2016	87	92	95	89	20.46	0.00	20.46
CLARCT	01	CLARENCE CT	KAVANAUGH DRIVE	END	8/22/2016	80	92	92	92	0.00	39.30	0.00
COOLAV	01	COOLEY AVENUE	UNIVERSITY AVENUE	RUNNYMEDE STREET	8/22/2016	75	80	82	77	26.45	48.81	8.97
COOLAV	02	COOLEY AVENUE	RUNNYMEDE STREET	BELL STREET	8/22/2016	91	82	100	71	67.64	27.50	4.86
COOLAV	03	COOLEY AVENUE	BELL STREET	DONOHOE STREET	8/22/2016	89	76	92	65	57.30	41.55	1.15
COOLAV	04	COOLEY AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	8/22/2016	65	72	86	51	63.47	25.85	2.11
CYPRST	01	CYPRESS STREET	PULGAS AVENUE	END	8/19/2016	25	49	75	25	81.84	1.15	3.14
DAISLA	01	DAISY LANE	O'CONNOR STREET	END	8/19/2016	55	51	87	43	48.41	32.84	2.51
DAPHCT	01	DAPHNE CT	DAPHNE WAY	END	8/19/2016	100	95	95	95	0.00	0.00	0.00
DAPHWA	01	DAPHNE WAY	WESTERIA DRIVE	ASTER WAY	8/19/2016	100	98	100	96	50.00	0.00	50.00
DAPHWA	02	DAPHNE WAY	ASTER WAY	JASMINE WAY	8/19/2016	100	97	98	96	49.47	1.06	49.47
DAPHWA	03	DAPHNE WAY	JASMINE WAY	E END	8/19/2016	14	96	96	96	50.00	0.00	50.00
DEMEST	01	DEMETER STREET	BAY ROAD	END	8/19/2016	48	43	57	17	52.10	34.12	6.27

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Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
DONOST	01	DONOHOE STREET	EUCLID AVENUE	UNIVERSITY AVENUE	8/19/2016	80	86	95	74	65.00	9.29	2.77
DONOST	02	DONOHOE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	8/19/2016	92	92	96	88	18.28	16.85	18.28
DONOST	04	DONOHOE STREET	WEST BAYSHORE ROAD	CITY LIMIT	8/22/2016	6	43	61	34	76.32	11.07	0.00
DONOST	08	DONOHOE STREET	CLARKE AVENUE	SALAS COURT	8/22/2016	42	63	85	50	70.56	2.57	3.40
DONOST	09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	8/22/2016	81	87	93	82	35.53	21.22	17.03
DONOST	10	DONOHOE STREET	EAST BAYSHORE RD	COOLEY AVENUE	8/19/2016	81	87	97	79	92.22	0.25	7.53
DREWCT	01	DREW CT	ILLINOIS STREET	END	8/19/2016	67	63	63	63	65.26	11.78	0.00
DUMBAV	01	DUMBARTON AVENUE	BAY ROAD	PALO VERDE AVENUE	8/22/2016	89	93	95	91	5.90	0.00	5.90
DUMBAV	02	DUMBARTON AVENUE	PALO VERDE AVENUE	BELL STREET	8/22/2016	100	71	95	48	73.07	8.89	8.93
DUMBAV	03	DUMBARTON AVENUE	BELL STREET	EAST BAYSHORE ROAD	8/22/2016	100	99	100	99	0.00	0.00	0.00
EASTRO	01	EAST BAYSHORE ROAD	LAUREL AVENUE	HOLLAND STREET	8/22/2016	68	79	86	59	44.47	26.01	0.00
EASTRO	02	EAST BAYSHORE ROAD	MENALTO AVENUE	LAUREL AVENUE	8/22/2016	64	77	80	74	0.00	60.32	0.00
EASTRO	03	EAST BAYSHORE ROAD	MENALTO AVENUE	ADDISON AVENUE	8/22/2016	87	85	90	80	20.70	5.48	20.70
EASTRO	04	EAST BAYSHORE ROAD	ADDISON AVENUE	LINCOLN STREET	8/22/2016	87	90	92	90	0.00	0.17	0.00
EASTRO	05	EAST BAYSHORE ROAD	LINCOLN STREET	EUCLID AVENUE	8/22/2016	62	88	91	84	35.34	0.48	2.41
EASTRO	06A	EAST BAYSHORE ROAD	CLARKE AVE	1700 E BAYSHORE RD	8/19/2016	90	94	96	91	3.73	45.02	3.73
EASTRO	06B	EAST BAYSHORE ROAD	1700 E BAYSHORE RD	DONOHOE ST	8/19/2016	87	96	100	91	51.97	26.36	21.67
EASTRO	07	EAST BAYSHORE ROAD	CLARKE AVENUE	PULGAS AVENUE	8/22/2016	86	90	93	86	2.13	57.84	2.13
EASTRO	08	EAST BAYSHORE ROAD	PULGAS AVENUE	CITY LIMIT	8/22/2016	86	91	93	91	47.98	0.77	5.95
EASTRO	09	EAST BAYSHORE ROAD	HOLLAND STREET	SARATOGA AVENUE	8/22/2016	74	80	86	74	1.38	60.66	3.73
EASTST	01	EAST O'KEEFE STREET	EUCLID AVENUE	CITY LIMIT	8/22/2016	57	81	88	66	39.21	16.56	12.39
EMMEWA	01	EMMETT WAY	KAVANAUGH DRIVE	URSULA WAY	8/22/2016	70	78	95	71	85.66	1.09	0.00
EUCLAV	01	EUCLID AVENUE	RUNNYMEDE STREET	BELL STREET	8/22/2016	81	79	85	72	57.77	35.18	7.05
EUCLAV	02	EUCLID AVENUE	BELL STREET	DONOHOE STREET	8/22/2016	80	74	86	61	71.15	25.78	3.07
EUCLAV	03	EUCLID AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	8/22/2016	90	91	95	88	44.79	0.00	17.11
EUCLAV	04	EUCLID AVENUE	O'CONNOR STREET	WOODLAND AVENUE	8/22/2016	79	93	95	92	3.64	44.31	3.64
FARRWA	01	FARRINGTON WAY	KAVANAUGH DRIVE	URSULA WAY	8/22/2016	79	93	95	91	12.85	0.31	12.85
FORDST	01	FORDHAM STREET	RUTGERS ST	END	8/19/2016	67	65	69	61	63.01	36.99	0.00

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Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
FORDST	02	FORDHAM STREET	RUTGERS ST	STEVENS AVENUE	8/19/2016	53	60	69	52	67.39	32.61	0.00
FORDST	03	FORDHAM STREET	STEVENS AVENUE	PURDUE AVENUE	8/19/2016	70	66	83	45	64.75	27.20	0.00
FORDST	04	FORDHAM STREET	PURDUE AVENUE	NOTRE DAME AVENUE	8/19/2016	40	53	84	16	87.92	0.18	0.54
FORDST	05	FORDHAM STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	8/19/2016	77	75	95	45	90.17	0.00	1.24
FORDST	06	FORDHAM STREET	MICHIGAN AVENUE	BAY ROAD	8/19/2016	13	53	83	33	62.95	23.01	0.01
GAILWA	01	GAILLARDIA WAY	AZALIA DRIVE	PULGAS AVENUE	8/19/2016	5	25	25	25	70.56	12.24	3.38
GARDCT	01	GARDENIA CT	GARDENIA WAY	END	8/19/2016	56	56	56	56	55.37	19.71	4.70
GARDST	01	GARDEN STREET	MENALTO AVENUE	OAKWOOD DRIVE	8/22/2016	100	71	95	62	87.19	0.00	0.00
GARDST	02	GARDEN STREET	DUMBARTON AVENUE	END	8/22/2016	70	74	77	69	46.47	22.77	7.16
GARDST	03	GARDEN STREET	CLARK AVENUE	PULGAS AVENUE	8/22/2016	70	80	91	68	70.75	12.93	3.44
GARDST	04	GARDEN STREET	PULGAS AVENUE	END	8/19/2016	33	49	63	32	76.41	3.58	7.79
GARDWA	01	GARDENIA WAY	CAMELLIA DRIVE	AZALIA DRIVE	8/19/2016	44	75	89	66	83.75	14.61	1.64
GARDWA	02	GARDENIA WAY	AZALIA DRIVE	VERBINA DRIVE	8/19/2016	16	29	34	24	61.67	24.17	1.81
GATEST	01	GATES STREET	TATE STREET	WILKS STREET	8/22/2016	76	79	81	75	2.53	79.90	2.53
GEORST	01	GEORGETOWN	TULANE AVENUE	PURDUE AVENUE	8/19/2016	10	27	39	21	84.55	4.02	0.69
GERTCT	01	GERTRUDE CT	KAVANAUGH DRIVE	END	8/22/2016	87	97	97	97	0.00	100.00	0.00
GLENWA	01	GLEN WAY	BAY ROAD	RUNNYMEDE STREET	8/22/2016	84	92	95	89	9.50	24.28	9.50
GLENWA	02	GLEN WAY	RUNNYMEDE STREET	GARDEN STREET	8/22/2016	66	65	87	59	57.76	19.91	3.82
GLENWA	03	GLEN WAY	GREEN STREET	EAST BAYSHORE ROAD	8/22/2016	48	93	93	93	48.37	3.26	48.37
GLORWA	01	GLORIA WAY	KAVANAUGH DRIVE	URSULA WAY	8/22/2016	27	42	50	37	80.52	0.17	0.00
GLORWA	02	GLORIA WAY	URSULA WAY	BAY ROAD	8/22/2016	40	53	74	44	70.76	8.27	3.50
GONZST	01	GONZAGA STREET	STEVENS AVENUE	PURDUE AVENUE	8/19/2016	66	81	83	80	21.45	1.70	21.45
GONZST	02	GONZAGA STREET	PURDUE AVENUE	NOTRE DAME	8/19/2016	71	90	90	90	0.00	5.15	0.00
GONZST	03	GONZAGA STREET	NOTRE DAME	END	8/19/2016	67	88	88	88	14.33	2.75	14.33
GONZST	04	GONZAGA STREET	MICHIGAN AVENUE	BAY ROAD	8/19/2016	59	85	88	82	4.50	69.52	4.50
GRACAV	01	GRACE AVENUE	GLORIA WAY	END	8/22/2016	77	80	95	74	58.14	20.57	6.40
GREEST	01	GREEN STREET	LINCOLN STREET	GLEN WAY	8/22/2016	46	97	99	92	21.34	57.32	21.34
GREEST	02	GREEN STREET	COOLEY AVENUE	CLARKE AVENUE	8/22/2016	60	78	92	69	68.84	7.28	13.31
GREEST	03	GREEN STREET	OAKWOOD DRIVE	CITY LIMIT	8/22/2016	44	75	90	62	62.60	16.97	8.67
HAZEWA	01	HAZELWOOD WAY	KAVANAUGH DR	URSULA WY	8/22/2016	26	49	53	44	67.43	6.43	6.60
HAZEWA	02	HAZELWOOD WAY	URSULA WY	S END	8/22/2016	32	32	32	32	86.62	0.22	0.00
HENRCT	10	HENRY COURT	BELL	END	8/22/2016	82	87	87	87	11.47	6.34	57.24
HIBICT	01	HIBISCUS CT	DAISY LANE	END	8/19/2016	71	48	48	48	56.74	27.18	0.00

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Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
HOLLST	01	HOLLAND STREET	EAST BAYSHORE ROAD	MENALTO AVENUE	8/22/2016	38	45	87	37	57.07	26.20	6.19
HUNTST	01	HUNTER STREET	GEORGETOWN STREET	PURDUE AVENUE	8/19/2016	15	32	39	21	71.75	15.84	4.12
ILLIST	01	ILLINOIS STREET	FORDHAM STREET	STEVENS AVENUE	8/19/2016	76	88	100	80	11.52	19.53	8.12
ILLIST	02	ILLINOIS STREET	STEVENS AVENUE	PURDUE AVENUE	8/19/2016	68	82	85	65	39.24	2.59	3.08
ILLIST	03	ILLINOIS STREET	PURDUE AVENUE	NOTRE DAME AVENUE	8/19/2016	63	42	45	41	83.98	16.02	0.00
ILLIST	04	ILLINOIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	8/19/2016	76	74	83	65	66.95	1.10	0.00
ILLIST	05	ILLINOIS STREET	MICHIGAN AVENUE	BAY ROAD	8/19/2016	78	87	94	82	22.35	26.39	22.35
JASMWA	01	JASMINE WAY	DAPHINE WAY	CAMELLIA DRIVE	8/19/2016	89	93	94	93	9.35	0.17	9.35
JERVAV	01	JERVIS AVENUE	ALBERNI STREET	BAY ROAD	8/22/2016	77	73	87	57	52.91	23.71	12.96
KAVADR	01	KAVANAUGH DRIVE	UNIVERSITY AVENUE	CITY LIMIT	8/22/2016	43	68	70	59	0.63	70.58	0.63
KIRKCT	01	KIRKWOOD CT	KAVANAUGH DRIVE	END	8/22/2016	87	64	64	64	79.17	19.33	1.51
LAKEDR	01	LARKSPUR DRIVE	SAGE STREET	O'CONNOR STREET	8/19/2016	89	92	95	90	6.24	22.05	6.24
LAKEDR	02	LARKSPUR DRIVE	O'CONNOR STREET	GARDENIA WAY	8/19/2016	89	93	93	93	17.27	0.00	17.27
LAURAV	01	LAUREL AVENUE	ALBERNI STREET (END)	BAY ROAD	8/22/2016	48	49	62	31	70.81	11.29	0.51
LAURAV	02	LAUREL AVENUE	BAY ROAD	HOLLAND STREET	8/22/2016	26	52	52	52	33.19	49.76	0.00
LAURAV	03	LAUREL AVENUE	HOLLAND STREET	EAST BAYSHORE ROAD	8/22/2016	68	73	73	73	12.06	63.03	12.06
LILALA	01	LILAC LANE	DUMBARTON AVENUE	PALO VERDE AVENUE	8/22/2016	16	19	20	17	77.20	8.87	4.70
LINCST	01	LINCOLN STREET	OAKDALE ROAD	GARDEN STREET	8/22/2016	48	80	82	78	61.67	19.91	0.89
LINCST	02	LINCOLN STREET	GARDEN STREET	EAST BAYSHORE ROAD	8/22/2016	67	64	84	37	70.46	13.67	2.99
LOTUWA	01	LOTUS WAY	WISTERIA DRIVE	END	8/19/2016	44	32	32	32	78.12	8.97	2.65
MANHAV	01	MANHATTAN AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	8/22/2016	83	86	87	85	14.83	43.63	14.83
MANHAV	02	MANHATTAN AVENUE	O'CONNOR STREET	WOODLAND AVENUE	8/22/2016	81	88	92	85	16.77	47.43	9.46
MCNAST	01	McNAIR STREET	WILKS STREET	OAKES STREET	8/22/2016	83	75	83	72	12.50	68.33	5.83
MELLST	01	MELLO STREET	LAUREL AVENUE	BAY ROAD	8/22/2016	77	74	82	69	21.27	59.67	6.42
MENAAV	01	MENALTO AVENUE	BAY ROAD	CITY LIMIT	8/22/2016	29	30	38	19	81.30	3.48	5.40
MENAAV	02	MENALTO AVENUE	BAY ROAD	GARDEN SREET	8/22/2016	33	29	50	19	66.68	20.87	3.15
MENAAV	03	MENALTO AVENUE	GARDEN ST	EAST BAYSHORE ROAD	8/22/2016	21	20	24	13	76.60	9.79	6.55
MICHAV	01	MICHIGAN AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	8/19/2016	54	53	60	46	51.19	48.81	0.00

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MICHAV	02	MICHIGAN AVENUE	FORDHAM STREET	ILLINOIS STREET	8/19/2016	73	62	63	61	51.94	48.06	0.00
MOUTCI	01	MOUTON CIRCLE	McNAIR STREET	McNAIR STREET	8/22/2016	79	68	78	59	52.91	37.30	1.91
MYRTPL	01	MYRTLE PLACE	MYRTLE ST	CULDESAC	8/22/2016	87	93	93	93	16.62	0.00	16.62
MYRTST	01	MYRTLE STREET	CLARKE AVENUE	PULGAS AVENUE	8/22/2016	100	95	100	93	12.77	6.31	12.77
NEWBST	01A	NEWBRIDGE STREET	RALMAR AVENUE	SARATOGA AVENUE	8/22/2016	75	83	92	77	25.44	51.94	7.51
NEWBST	01B	NEWBRIDGE STREET	SARATOGA AVENUE	CITY LIMIT	8/22/2016	69	84	87	83	8.42	59.71	8.42
NEWERO	01	NEWELL ROAD	WOODLAND AVENUE	WEST BAYSHORE ROAD	8/22/2016	76	86	92	74	47.96	26.16	5.57
NOTRAV	01	NOTRE DAME AVENUE	UNIVERSITY AVENUE	FORDHAM AVENUE	8/19/2016	14	29	32	26	71.80	14.26	3.64
NOTRAV	02	NOTRE DAME AVENUE	FORDHAM AVENUE	ILLINOIS STREET	8/19/2016	74	83	88	80	72.12	4.36	7.04
OAKDRD	01	OAKDALE RD	PALO VERDE AVE	LINCOLN AV	8/22/2016	10	62	62	62	78.27	13.87	0.00
OAKDRD	02	OAKDALE RD	LINCOLN AV	GLEN WAY	8/22/2016	18	27	27	27	71.80	14.97	1.29
OAKEST	01	OAKES STREET	PULGAS AVENUE	BAINES STREET	8/22/2016	80	77	86	76	6.87	72.56	6.01
OAKWDR	01	OAKWOOD DRIVE	BAY ROAD	BELL ST	8/22/2016	100	93	96	92	13.66	15.48	13.66
OAKWDR	02	OAKWOOD DRIVE	BELL ST	EAST BAYSHORE ROAD	8/22/2016	100	92	100	80	89.37	5.36	5.27
OAKWDR	03	OAKWOOD DRIVE	WEST BAYSHORE ROAD	DONOHOE STREET	8/22/2016	68	76	90	37	81.03	6.54	4.22
OCONST	01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	8/22/2016	78	83	85	83	18.72	59.42	3.60
OCONST	02	O'CONNOR STREET	TATE ST	PULGAS AVENUE	8/22/2016	77	77	80	75	9.22	71.76	5.99
OCONST	03	O'CONNOR STREET	PULGAS AVENUE	AZALIA DRIVE	8/19/2016	62	68	72	66	62.24	12.47	16.49
OCONST	04	O'CONNOR STREET	AZALIA DRIVE	LAKESPUR DRIVE	8/19/2016	61	77	93	67	65.21	10.19	14.55
OCONST	05	O'CONNOR STREET	LAKESPUR DRIVE	END	8/19/2016	83	84	94	61	51.76	28.15	6.34
OCONST	06	O'CONNOR STREET	EUCLID STREET	MANHATTAN AVENUE	8/22/2016	58	46	83	33	83.83	1.45	0.44
PALOAV	01	PALO VERDE AVENUE	BAY ROAD	LILAC LANE	8/22/2016	80	90	95	85	43.68	0.13	26.51
PALOAV	02	PALO VERDE AVENUE	LILAC LANE	OAKDALE ROAD	8/22/2016	81	90	95	89	52.31	0.00	10.14
PALOAV	03	PALO VERDE AVENUE	OAKDALE ROAD	OAKWOOD DRIVE	8/22/2016	80	88	89	88	34.54	24.17	10.11
PAULCT	10	PAUL ROBESON COURT	WEEKS ST.	END	8/22/2016	77	86	86	86	31.59	33.89	14.48
POPLAV	01	POPLAR AVENUE	ALBERNI STREET	NEWBRIDGE STREET	8/22/2016	100	64	95	55	76.58	11.54	1.70
POPLAV	02A	POPLAR AVENUE	BAY ROAD	GARDEN STREET	8/22/2016	100	81	95	63	81.62	0.00	2.12
POPLAV	02B	POPLAR AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	8/22/2016	100	86	93	82	65.12	0.23	7.30
POPLAV	03	POPLAR AVENUE	GREEN ST	N DEAD END	8/22/2016	74	90	90	90	3.38	11.68	3.38
PULGAV	01	PULGAS AVENUE	BAY ROAD	END	8/22/2016	36	30	41	14	85.86	1.24	1.66
PULGAV	02	PULGAS AVENUE	BAY ROAD	WEEKS STREET	8/22/2016	29	64	85	52	61.23	18.81	0.80
PULGAV	03	PULGAS AVENUE	WEEKS STREET	RUNNYMEDE STREET	8/22/2016	56	54	58	50	77.37	11.98	2.15

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PULGAV	04	PULGAS AVENUE	RUNNYMEDE STREET	GARDEN STREET	8/22/2016	88	82	84	79	1.87	73.58	1.87
PULGAV	05	PULGAS AVENUE	GARDEN STREET	BEECH STREET	8/22/2016	76	82	91	75	31.66	50.44	1.97
PULGAV	06	PULGAS AVENUE	BEECH STREET	MYRTLE STREET	8/22/2016	85	80	93	66	72.96	7.64	5.02
PULGAV	07	PULGAS AVENUE	MYRTLE STREET	O'CONNOR STREET	8/22/2016	82	86	93	68	12.11	55.34	12.11
PULGAV	08	PULGAS AVENUE	O'CONNOR STREET	GAILLARDIA WAY	8/19/2016	51	81	90	56	49.27	24.99	14.81
PULGAV	09	PULGAS AVENUE	GAILLARDIA WAY	EAST BAYSHORE ROAD	8/22/2016	68	91	93	89	25.89	0.00	25.89
PURDAV	01	PURDUE AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	8/19/2016	46	34	74	26	91.08	7.87	0.20
PURDAV	02	PURDUE AVENUE	FORDHAM STREET	END	8/19/2016	90	91	95	84	9.03	0.00	9.03
RALMAV	01	RALMAR AVENUE	BAY ROAD	CITY LIMIT	8/22/2016	55	45	77	31	79.83	7.27	0.99
RALMAV	02	RALMAR AVENUE	BAY ROAD	GARDEN STREET	8/22/2016	100	93	95	93	10.47	0.00	10.47
RALMAV	03	RALMAR AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	8/22/2016	100	94	95	93	6.93	0.00	6.93
RALMAV	04	RALMAR AVENUE	GREEN ST	DONOHOE ST	8/22/2016	23	39	46	36	75.30	5.14	8.62
RUNNST	01	RUNNYMEDE STREET	PALO VERDE AVENUE	GLEN WAY	8/22/2016	17	26	28	26	75.11	14.85	1.61
RUNNST	02	RUNNYMEDE STREET	GLEN WAY	UNIVERSITY AVENUE	8/22/2016	79	83	93	75	54.23	21.31	5.52
RUNNST	03	RUNNYMEDE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	8/22/2016	43	45	55	37	70.28	6.52	4.61
RUNNST	04	RUNNYMEDE STREET	COOLEY AVENUE	433FT E/O COOLEY AVENUE	8/22/2016	33	56	66	51	65.98	10.43	6.43
RUNNST	05A	RUNNYMEDE STREET	433FT E/O COOLEY AV	WIDTH CHANGE 878FT E/O COOLEY AV	8/22/2016	86	76	87	59	62.43	25.63	1.60
RUNNST	05B	RUNNYMEDE STREET	WIDTH CHANGE 878 FT E/O COOLEY AV	CLARKE AV	8/22/2016	83	93	93	93	21.89	8.06	21.89
RUNNST	06	RUNNYMEDE STREET	CLARKE AVENUE	PULGAS AVENUE	8/22/2016	75	90	95	82	23.77	12.46	23.77
RUNNST	07	RUNNYMEDE STREET	PULGAS AVENUE	END	8/19/2016	16	23	89	13	77.17	11.39	2.19
RUTGST	01	RUTGERS STREET	FORDHAM STREET	N DEAD END	8/19/2016	4	18	19	15	83.08	3.32	0.96
RUTHCT	01	RUTH CT	RUNNYMEDE STREET	END	8/19/2016	67	53	53	53	83.00	0.53	0.00
SACRST	01	SACRAMENTO STREET	UNIVERSITY AVENUE	END	8/22/2016	80	85	92	78	37.19	0.05	37.19
SAGAAV	01	SARATOGA AVENUE	EAST BAYSHORE ROAD	CITY LIMIT	8/22/2016	51	58	95	37	71.34	11.41	7.51
SAGEST	01	SAGE STREET	PULGAS AVENUE	LAKESPUR DRIVE	8/19/2016	35	39	47	30	73.00	9.92	1.38
SALACT	10	SALAS COURT	DONOHOE ST	END	8/22/2016	58	72	72	72	0.00	67.68	0.00
SCFIST	10	SCOFIELD STREET	WOODLAND AVE	COOLEY AVE	8/22/2016	29	59	77	44	56.65	28.02	4.92
SCHELA	01	SCHEMBRI LANE	COOLEY AVENUE	CLARKE AVENUE	8/22/2016	100	92	95	84	59.81	0.00	4.70

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SHORCT	01	SHOREBREEZE CT	BEECH ST	E AND W END	8/19/2016	85	92	99	85	84.98	11.41	3.61
SPARCT	10	SPARROW COURT	MYRTLE ST	END	8/22/2016	78	85	85	85	60.30	11.05	4.95
STEVAV	01	STEVENS AVENUE	FORDHAM STREET	END	8/19/2016	29	75	100	60	51.77	10.53	11.07
TATEST	01	TATE STREET	O`CONNOR STREET	BAINES STREET	8/22/2016	80	76	83	75	8.96	65.97	8.96
TEMPCT	01	TEMPLE CT	ILLINOIS STREET	END	8/19/2016	83	77	77	77	49.82	36.02	0.00
TERRAV	01	TERRA-VILLA AVENUE	GARDEN STREET	BEECH STREET	8/19/2016	34	67	88	58	70.82	0.00	2.57
TINSST	01	TINSLEY STREET	TATE STREET	CLARKE AVENUE	8/22/2016	85	73	74	72	5.42	76.50	5.42
TULAAV	01	TULANE AVENUE	XAVIER ST	RUTGERS ST	8/19/2016	31	22	32	14	78.30	9.87	4.20
UNIVAV	01N	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	8/22/2016	77	84	91	81	61.92	24.48	0.00
UNIVAV	02	UNIVERSITY AVENUE	NOTRE DAME	BAY ROAD	8/22/2016	80	90	95	61	66.41	9.62	2.25
UNIVAV	03	UNIVERSITY AVENUE	BAY ROAD	RUNNYMEDE STREET	8/22/2016	59	67	77	58	48.45	24.28	5.04
UNIVAV	04	UNIVERSITY AVENUE	RUNNYMEDE STREET	BELL STREET	8/22/2016	40	66	75	56	48.59	25.71	6.41
UNIVAV	05	UNIVERSITY AVENUE	BELL STREET	DONOHOE STREET	8/22/2016	78	86	93	72	40.92	0.00	36.04
UNIVAV	06	UNIVERSITY AVENUE	DONOHOE STREET	WOODLAND AVENUE	8/22/2016	70	69	93	61	36.67	44.26	8.26
URSUWA	01	URSULA WAY	HAZELWOOD WAY	EMMETT WAY	8/22/2016	79	84	95	64	71.85	9.29	0.93
VERBDR	01	VERBINA DRIVE	AZALIA DRIVE	CAMELLIA DRIVE	8/19/2016	100	93	95	91	14.61	0.45	14.61
VERBDR	02	VERBINA DRIVE	CAMELLIA DRIVE	END	8/19/2016	13	35	77	16	78.27	12.62	0.32
WEEKST	01	WEEKS STREET	DUMBARTON AVENUE	PALO VERDE AVENUE	8/22/2016	15	18	23	16	86.61	2.34	0.84
WEEKST	02	WEEKS STREET	UNIVERSITY AVENUE	END	8/22/2016	79	92	93	91	13.02	8.59	13.02
WEEKST	03	WEEKS STREET	COOLEY AVENUE	CLARKE AVENUE	8/22/2016	68	79	92	54	62.92	31.09	5.99
WEEKST	04	WEEKS STREET	CLARKE AVENUE	END	8/19/2016	67	75	92	60	36.14	45.65	9.04
WESTAV	01	WESTMINSTER AVENUE	BAY ROAD	CITY LIMIT	8/22/2016	45	48	69	34	75.57	11.54	0.19
WESTRO	01	WEST BAYSHORE ROAD	OAKWOOD DR/GREEN ST	MANHATTAN AVENUE	8/22/2016	77	82	88	73	33.57	47.57	3.35
WESTRO	02	WEST BAYSHORE ROAD	COOLEY AVENUE	NEWELL ROAD	8/22/2016	92	92	95	83	0.00	47.50	0.00
WESTRO	03	WEST BAYSHORE ROAD	NEWELL ROAD	CLARKE AVENUE	8/22/2016	92	95	95	95	0.00	0.00	0.00
WESTRO	04A	WEST BAYSHORE ROAD	CLARKE AV	1838 W BAYSHORE RD	8/22/2016	95	95	96	95	0.00	0.00	0.00
WESTRO	04B	WEST BAYSHORE ROAD	1838 W BAYSHORE RD	WOODLAND AV	8/22/2016	6	14	16	13	85.84	5.85	0.24
WESTRO	05	WEST BAYSHORE ROAD	WOODLAND AVENUE	CITY LIMIT	8/22/2016	89	74	88	38	77.97	14.66	0.00
WILKST	01	WILKS STREET	TATE STREET	E END	8/22/2016	82	77	79	75	5.20	72.94	5.20
WISTDR	01	WISTERIA DRIVE	SAGE STREET	O'CONNOR STREET	8/19/2016	16	32	45	27	77.68	10.15	0.00
WISTDR	02	WISTERIA DRIVE	O'CONNOR STREET	GARDENIA WAY	8/19/2016	87	79	97	46	89.00	0.09	10.91

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WISTDR	03	WISTERIA DRIVE	GARDENIA WAY	CAMELLIA DRIVE	8/19/2016	58	67	98	46	86.10	12.75	1.15
WISTDR	04	WISTERIA DRIVE	CAMELLIA DRIVE	DAPHNE WAY	8/19/2016	100	94	96	93	6.84	0.00	6.84
WOODAV	01	WOODLAND AVENUE	EUCLID AVENUE	MANHATTAN AVENUE	8/22/2016	81	93	96	92	4.73	38.15	4.73
WOODAV	02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	8/19/2016	70	74	92	55	58.59	26.86	6.66
WOODAV	03	WOODLAND AVENUE	COOLEY AVENUE	NEWELL ROAD	8/22/2016	90	89	99	81	78.42	16.86	4.72
WOODAV	04	WOODLAND AVENUE	NEWELL ROAD	CLARKE AVENUE	8/22/2016	100	99	100	99	50.00	0.00	50.00
WOODAV	05	WOODLAND AVENUE	CLARKE AVENUE	W BAYSHORE RD	8/22/2016	100	98	100	95	14.04	9.21	14.04
WOODAV	06	WOODLAND AVENUE	UNIVERSITY AVENUE	COOLEY AVENUE	8/22/2016	85	81	100	67	92.82	1.74	2.58
XAVIST	01	XAVIER STREET	TULANE AVENUE	PURDUE AVENUE	8/19/2016	49	66	89	40	87.62	12.38	0.00

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ANNAST	01	ANNAPOLIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	11/30/2012	41	44			68.77	31.23	0.00
AZALDR	02	AZALIA DRIVE	O'CONNOR STREET	VERBEENA DR	11/30/2012	46	49			69.02	30.98	0.00
AZALDR	03	AZALIA DRIVE	VERBEENA DR	CAMELLIA DRIVE	11/30/2012	75	78			0.00	100.00	0.00
BAYLST	01	BAYLOR STREET	NOTRE DAME	MICHIGAN AVENUE	11/30/2012	66	69			40.10	59.90	0.00
BEECST	01	BEECH STREET	CLARKE AVENUE	PULGAS AVENUE	11/30/2012	45	48			43.20	47.28	9.52
BEECST	02	BEECH STREET	PULGAS AVENUE	END	11/30/2012	72	75			25.56	72.23	2.21
BUCHCT	01	BUCHANAN CT	CLARKE AVENUE	END	11/30/2012	76	78			9.29	81.42	9.29
COOLAV	01	COOLEY AVENUE	UNIVERSITY AVENUE	RUNNYMEDE STREET	11/30/2012	72	74	75	75	39.18	52.18	8.64
CYPRST	01	CYPRESS STREET	PULGAS AVENUE	END	11/30/2012	24	26			72.91	22.84	4.25
DAPHCT	01	DAPHNE CT	DAPHNE WAY	END	6/1/2014	0	100			100.00	0.00	0.00
DAPHWA	01	DAPHNE WAY	WESTERIA DRIVE	ASTER WAY	6/1/2014	0	100			100.00	0.00	0.00
DAPHWA	02	DAPHNE WAY	ASTER WAY	JASMINE WAY	6/1/2014	0	100			100.00	0.00	0.00
DONOST	08	DONOHOE STREET	CLARKE AVENUE	SALAS COURT	11/30/2012	40	43	42	42	90.05	9.95	0.00
DONOST	09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	11/30/2012	72	75	81	81	58.91	38.53	2.57
DUMBAV	03	DUMBARTON AVENUE	BELL STREET	EAST BAYSHORE ROAD	6/1/2014	65	100			100.00	0.00	0.00
EASTRO	07	EAST BAYSHORE ROAD	CLARKE AVENUE	PULGAS AVENUE	11/30/2012	85	87	88	84	55.17	44.83	0.00
EASTRO	08	EAST BAYSHORE ROAD	PULGAS AVENUE	CITY LIMIT	11/30/2012	84	86	86	86	42.50	57.50	0.00
EMMEWA	01	EMMETT WAY	KAVANAUGH DRIVE	URSULA WAY	11/30/2012	67	70			48.07	51.93	0.00
FARRWA	01	FARRINGTON WAY	KAVANAUGH DRIVE	URSULA WAY	11/30/2012	77	79			0.00	100.00	0.00
FORDST	03	FORDHAM STREET	STEVENS AVENUE	PURDUE AVENUE	11/30/2012	65	68			38.93	61.07	0.00
FORDST	04	FORDHAM STREET	PURDUE AVENUE	NOTRE DAME AVENUE	11/30/2012	37	40			73.16	26.84	0.00
FORDST	05	FORDHAM STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	11/30/2012	74	77			0.00	100.00	0.00
GARDST	02	GARDEN STREET	DUMBARTON AVENUE	END	11/30/2012	67	70			38.42	61.58	0.00
GARDST	04	GARDEN STREET	PULGAS AVENUE	END	11/30/2012	32	34			72.44	23.58	3.98
GLORWA	01	GLORIA WAY	KAVANAUGH DRIVE	URSULA WAY	11/30/2012	25	27			77.25	20.25	2.49
GLORWA	02	GLORIA WAY	URSULA WAY	BAY ROAD	11/30/2012	37	40			65.91	26.87	7.22
GREEST	02	GREEN STREET	COOLEY AVENUE	CLARKE AVENUE	11/30/2012	56	60			57.46	27.50	15.04
HAZEWA	01	HAZELWOOD WAY	KAVANAUGH DR	URSULA WY	11/30/2012	25	27			76.51	23.49	0.00
HUNTST	01	HUNTER STREET	GEORGETOWN STREET	PURDUE AVENUE	11/30/2012	14	15			62.02	37.98	0.00
ILLIST	01	ILLINOIS STREET	FORDHAM STREET	STEVENS AVENUE	11/30/2012	72	75			8.14	83.72	8.14
ILLIST	02	ILLINOIS STREET	STEVENS AVENUE	PURDUE AVENUE	11/30/2012	64	67			41.70	55.76	2.54

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ILLIST	04	ILLINOIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	11/30/2012	73	76			0.00	100.00	0.00
ILLIST	05	ILLINOIS STREET	MICHIGAN AVENUE	BAY ROAD	11/30/2012	75	78			0.00	100.00	0.00
JERVAV	01	JERVIS AVENUE	ALBERNI STREET	BAY ROAD	11/30/2012	76	78			24.70	73.90	1.40
LAURAV	01	LAUREL AVENUE	ALBERNI STREET (END)	BAY ROAD	11/30/2012	46	49			68.15	31.15	0.70
LINCST	01	LINCOLN STREET	OAKDALE ROAD	GARDEN STREET	11/30/2012	45	48			67.74	32.26	0.00
LINCST	02	LINCOLN STREET	GARDEN STREET	EAST BAYSHORE ROAD	11/30/2012	64	67			22.75	77.25	0.00
NEWERO	01	NEWELL ROAD	WOODLAND AVENUE	WEST BAYSHORE ROAD	11/30/2012	73	76			23.95	76.05	0.00
NOTRAV	02	NOTRE DAME AVENUE	FORDHAM AVENUE	ILLINOIS STREET	11/30/2012	72	75			0.00	100.00	0.00
OAKDRD	01	OAKDALE RD	PALO VERDE AVE	LINCOLN AV	11/30/2012	10	10			69.20	24.80	6.00
OAKWDR	02	OAKWOOD DRIVE	BELL ST	EAST BAYSHORE ROAD	6/1/2014	52	100			100.00	0.00	0.00
OAKWDR	03	OAKWOOD DRIVE	WEST BAYSHORE ROAD	DONOHOE STREET	11/30/2012	65	68			39.68	60.32	0.00
OCONST	01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	11/30/2012	88	89	78	78	53.69	46.31	0.00
OCONST	02	O'CONNOR STREET	TATE ST	PULGAS AVENUE	11/30/2012	77	79	77	77	31.76	68.24	0.00
PALOAV	01	PALO VERDE AVENUE	BAY ROAD	LILAC LANE	11/30/2012	78	80			0.00	100.00	0.00
PALOAV	02	PALO VERDE AVENUE	LILAC LANE	OAKDALE ROAD	11/30/2012	79	81			0.00	100.00	0.00
PALOAV	03	PALO VERDE AVENUE	OAKDALE ROAD	OAKWOOD DRIVE	11/30/2012	78	80			0.00	100.00	0.00
POPLAV	02B	POPLAR AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	6/1/2014	0	100			100.00	0.00	0.00
PULGAV	03	PULGAS AVENUE	WEEKS STREET	RUNNYMEDE STREET	11/30/2012	59	62	56	56	61.25	37.60	1.14
PULGAV	06	PULGAS AVENUE	BEECH STREET	MYRTLE STREET	11/30/2012	75	77	85	85	12.33	75.34	12.33
PURDAV	02	PURDUE AVENUE	FORDHAM STREET	END	11/30/2012	91	92			100.00	0.00	0.00
RUNNST	04	RUNNYMEDE STREET	COOLEY AVENUE	433FT E/O COOLEY AVENUE	11/30/2012	20	22	33	33	65.22	23.80	10.97
RUNNST	05A	RUNNYMEDE STREET	433FT E/O COOLEY AV	WIDTH CHANGE 878FT E/O COOLEY AV	11/30/2012	74	77	86	86	23.51	52.98	23.51
RUNNST	05B	RUNNYMEDE STREET	WIDTH CHANGE 878 FT E/O COOLEY AV	CLARKE AV	11/30/2012	67	70	83	83	49.09	44.15	6.77
RUNNST	06	RUNNYMEDE STREET	CLARKE AVENUE	PULGAS AVENUE	11/30/2012	46	49	77	73	1.55	96.91	1.55
SAGEST	01	SAGE STREET	PULGAS AVENUE	LAKESPUR DRIVE	11/30/2012	33	35			63.24	36.76	0.00
STEVAV	01	STEVENS AVENUE	FORDHAM STREET	END	11/30/2012	27	29			58.02	35.65	6.34
TERRAV	01	TERRA-VILLA AVENUE	GARDEN STREET	BEECH STREET	11/30/2012	32	34			59.16	40.84	0.00
URSUWA	01	URSULA WAY	HAZELWOOD WAY	EMMETT WAY	11/30/2012	77	79			0.00	100.00	0.00
WEEKST	04	WEEKS STREET	CLARKE AVENUE	END	11/30/2012	62	65			34.43	52.52	13.05

PCI Calculation - Summary

Printed: 12/19/2016

Street ID	Section ID	Street Name	Begin Location	End Location	PCI Date	PCI Before	PCI After	PCI High	PCI Low	Pct Load	Pct Envr	Pct Other
WESTAV	01	WESTMINSTER AVENUE	BAY ROAD	CITY LIMIT	11/30/2012	42	45			77.99	22.01	0.00
WESTRO	01	WEST BAYSHORE ROAD	OAKWOOD DR/GREEN ST	MANHATTAN AVENUE	11/30/2012	68	71	80	74	50.29	43.64	6.07
WOODAV	02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	11/30/2012	67	70			32.66	67.34	0.00
WOODAV	04	WOODLAND AVENUE	NEWELL ROAD	CLARKE AVENUE	6/1/2014	88	100			100.00	0.00	0.00
WOODAV	05	WOODLAND AVENUE	CLARKE AVENUE	W BAYSHORE RD	6/1/2014	88	100			100.00	0.00	0.00

Appendix E: Section PCI/RSL Listing

Section PCI/RSL Listing

Printed: 01/23/2017

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
ABELWA	01	ABELLA WAY	CAMELLIA DRIVE	VERBINA DRIVE	900	24	45,000	R - Residential/Local	A - AC	45	7.38
ADDIAV	01	ADDISON AVENUE	BAY ROAD	GARDEN STREET	1,289	20	25,780	R - Residential/Local	O - AC/AC	68	21.54
ADDIAV	02	ADDISON AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	700	19	13,300	R - Residential/Local	A - AC	34	3.03
ADDIAV	03	ADDISON AVENUE	GREEN STREET	DONOHOE STREET	400	17	6,800	R - Residential/Local	O - AC/AC	63	16.88
ALBEST	01	ALBERNI STREET	RALMAR AVENUE	CITY LIMIT	1,950	30	58,500	R - Residential/Local	O - AC/AC	63	19.82
ANNAST	01	ANNAPOLIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	800	29	40,000	R - Residential/Local	A - AC	82	27.62
ASTEWA	01	ASTER WAY	WISTERIA DRIVE	DAPHNE WAY	850	24	42,500	R - Residential/Local	A - AC	32	2.3
AVALST	01	AVELAR STREET	RUNNYMEDE ST	RUNNYMEDE ST	797	34	27,098	R - Residential/Local	A - AC	93	33.48
AZALDR	01	AZALIA DRIVE	SAGE STREET	O'CONNOR STREET	1,050	25	52,500	R - Residential/Local	O - AC/AC	88	38.81
AZALDR	02	AZALIA DRIVE	O'CONNOR STREET	VERBEENA DR	945	25	23,625	R - Residential/Local	A - AC	50	9.58
AZALDR	03	AZALIA DRIVE	VERBEENA DR	CAMELLIA DRIVE	952	25	23,800	R - Residential/Local	A - AC	93	33.25
BAINST	01	BAINES STREET	OAKES STREET	OAKES STREET	1,330	33	43,890	R - Residential/Local	A - AC	75	25.68
BAYROA	01	BAY ROAD	EAST BAYSHORE ROAD	MENALTO AVENUE	1,300	37	91,000	C - Collector	O - AC/AC	58	11.26
BAYROA	02	BAY ROAD	MENALTO AVENUE	NEWBRIDGE STREET	632	28	17,696	C - Collector	O - AC/AC	33	2.05
BAYROA	03	BAY ROAD	NEWBRIDGE STREET	DUMBARTON AVENUE	673	47	31,631	C - Collector	O - AC/AC	88	31.77
BAYROA	04	BAY ROAD	DUMBARTON AVENUE	UNIVERSITY AVENUE	1,750	47	82,250	C - Collector	O - AC/AC	81	24.36
BAYROA	05	BAY ROAD	UNIVERSITY AVENUE	CLARKE AVENUE	1,250	80	75,000	A - Arterial	O - AC/AC	89	31.37
BAYROA	06	BAY ROAD	CLARKE AVENUE	PULGAS AVENUE	1,030	68	70,040	A - Arterial	A - AC	75	17.05
BAYROA	07	BAY ROAD	PULGAS AVENUE	END	1,750	22	38,500	C - Collector	A - AC	15	0
BAYLST	01	BAYLOR STREET	NOTRE DAME	MICHIGAN AVENUE	800	29	40,000	R - Residential/Local	A - AC	88	31.19
BEECST	01	BEECH STREET	CLARKE AVENUE	PULGAS AVENUE	1,300	35	52,000	R - Residential/Local	A - AC	71	20.7
BEECST	02	BEECH STREET	PULGAS AVENUE	END	1,250	29	37,365	R - Residential/Local	A - AC	87	30.64
BELLCT	10	BELL COURT	BELL	END	125	45	6,088	R - Residential/Local	A - AC	44	6.25
BELLST	01	BELL STREET	OAKWOOD DRIVE	EUCLID AVENUE	1,150	18	69,000	R - Residential/Local	O - AC/AC	92	51.4
BELLST	02	BELL STREET	EUCLID AVENUE	UNIVERSITY AVENUE	536	40	21,440	R - Residential/Local	O - AC/AC	91	36.75
BELLST	03	BELL STREET	UNIVERSITY AVENUE	COOLEY AVENUE	662	37	24,494	R - Residential/Local	O - AC/AC	54	13.17
BELLST	04	BELL STREET	COOLEY AVENUE	CLARKE AVENUE	1,300	33	52,000	R - Residential/Local	A - AC	66	17.76
BRADWA	01	BRADLEY WAY	BAY ROAD	HOLLAND STREET	750	28	37,500	R - Residential/Local	A - AC	44	6.96
BRENCT	01	BRENTWOOD CT	BEECH STREET	END	500	29	14,500	R - Residential/Local	A - AC	55	11.94
BUCHCT	01	BUCHANAN CT	CLARKE AVENUE	END	750	29	37,500	R - Residential/Local	A - AC	81	26.99
CAMECT	01	CAMELLIA CT	CAMELLIA DRIVE	END	350	24	17,500	R - Residential/Local	A - AC	77	24.43
CAMEDR	01	CAMELLIA DRIVE	ABELLA WAY	PULGAS AVENUE	900	31	54,000	R - Residential/Local	O - AC/AC	69	25.1
CAMEDR	02	CAMELLIA DRIVE	WISTERIA DRIVE	ABELLA WAY	700	31	42,000	R - Residential/Local	O - AC/AC	72	27.1

Section PCI/RSL Listing

Printed: 01/23/2017

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
CAMEDR	03	CAMELLIA DRIVE	GARDENIA WAY	WISTERIA DRIVE	1,619	31	50,189	R - Residential/Local	A - AC	84	28.87
CAMPWY	10	CAMPHOR WAY	GREEN ST	END	200	29	6,753	R - Residential/Local	A - AC	54	11.38
CAPIAV	01	CAPITOL AVENUE	RUNNYMEDE STREET	BELL STREET	1,059	37	39,183	R - Residential/Local	A - AC	63	16.09
CAPIAV	02	CAPITOL AVENUE	BELL STREET	DONOHOE STREET	1,066	37	39,442	R - Residential/Local	A - AC	64	16.64
CAPIAV	10	CAPITOL AVENUE	SCOFIELD	W. BAYSHORE	824	25	20,600	C - Collector	A - AC	77	14.42
CAROCT	01	CAROLE COURT	WEEKS ST	CUL DE SAC	175	30	5,250	R - Residential/Local	A - AC	93	33.48
CIRCDR	10	CIRCLE DRIVE	COOLEY AVE	SCOFIELD AVE	370	23	8,510	R - Residential/Local	A - AC	60	15.53
CLARCT	01	CLARENCE CT	KAVANAUGH DRIVE	END	154	29	5,425	R - Residential/Local	A - AC	91	32.6
CLARAV	01	CLARKE AVENUE	BAY ROAD	WEEKS STREET	550	37	27,500	C - Collector	A - AC	89	20.29
CLARAV	02	CLARKE AVENUE	WEEKS STREET	RUNNYMEDE STREET	550	37	27,500	C - Collector	A - AC	81	16.24
CLARAV	03	CLARKE AVENUE	RUNNYMEDE STREET	GARDEN STREET	600	37	22,200	C - Collector	A - AC	84	17.7
CLARAV	04	CLARKE AVENUE	GARDEN STREET	BEECH STREET	650	37	26,000	C - Collector	A - AC	90	20.82
CLARAV	05	CLARKE AVENUE	BEECH STREET	DONOHOE STREET	935	37	34,595	C - Collector	A - AC	89	20.29
CLARAV	06	CLARKE AVENUE	DONOHOE STREET	O'CONNOR STREET	650	27	17,550	C - Collector	O - AC/AC	91	29.22
CLARAV	08	CLARKE AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	650	34	26,000	C - Collector	O - AC/AC	74	17.75
CLARAV	50	CLARKE AVENUE	O'CONNOR STREET	EAST BAYSHORE ROAD	1,350	37	49,950	C - Collector	O - AC/AC	91	28.96
CONNWY	10	CONNOLLY WAY	GARDEN	END	215	16	3,736	NCR - Proposed; Private; Non-County	A - AC	0	0
COOLAV	01	COOLEY AVENUE	UNIVERSITY AVENUE	RUNNYMEDE STREET	941	37	34,817	C - Collector	O - AC/AC	80	24.32
COOLAV	02	COOLEY AVENUE	RUNNYMEDE STREET	BELL STREET	908	37	33,596	C - Collector	A - AC	81	16.24
COOLAV	03	COOLEY AVENUE	BELL STREET	DONOHOE STREET	1,242	37	45,954	C - Collector	A - AC	75	13.57
COOLAV	04	COOLEY AVENUE	WEST BAYSHORE ROAD	WOODLAND AVENUE	1,247	32	39,904	C - Collector	A - AC	71	11.96
CYPRST	01	CYPRESS STREET	PULGAS AVENUE	END	1,118	29	32,422	R - Residential/Local	A - AC	48	8.68
DAISLA	01	DAISY LANE	O'CONNOR STREET	END	608	33	21,312	R - Residential/Local	A - AC	50	9.58
DAPHCT	01	DAPHNE CT	DAPHNE WAY	END	143	24	5,093	R - Residential/Local	O - AC/AC	95	55.15
DAPHWA	01	DAPHNE WAY	WESTERIA DRIVE	ASTER WAY	1,250	24	62,500	R - Residential/Local	O - AC/AC	95	38.07
DAPHWA	02	DAPHNE WAY	ASTER WAY	JASMINE WAY	718	24	17,232	R - Residential/Local	O - AC/AC	94	38.04
DAPHWA	03	DAPHNE WAY	JASMINE WAY	E END	100	24	2,400	R - Residential/Local	A - AC	94	33.61
DEMEST	01	DEMETER STREET	BAY ROAD	END	1,900	37	114,000	R - Residential/Local	A - AC	42	6.13
DONOST	01	DONOHOE STREET	EUCLID AVENUE	UNIVERSITY AVENUE	671	52	34,892	C - Collector	O - AC/AC	85	28.83
DONOST	02	DONOHOE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	738	70	51,660	C - Collector	O - AC/AC	91	28.96
DONOST	04	DONOHOE STREET	WEST BAYSHORE ROAD	CITY LIMIT	1,550	16	77,500	R - Residential/Local	A - AC	42	6.13
DONOST	08	DONOHOE STREET	CLARKE AVENUE	SALAS COURT	325	37	12,025	C - Collector	O - AC/AC	62	13.22
DONOST	09	DONOHOE STREET	SALAS COURT	EAST BAYSHORE RD	813	53	43,089	C - Collector	O - AC/AC	86	26.83

Section PCI/RSL Listing

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Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
DONOST	10	DONOHOE STREET	EAST BAYSHORE RD	COOLEY AVENUE	265	72	19,080	C - Collector	O - AC/AC	86	26.82
DREWCT	01	DREW CT	ILLINOIS STREET	END	129	29	4,698	R - Residential/Local	A - AC	62	15.54
DUMBAV	01	DUMBARTON AVENUE	BAY ROAD	PALO VERDE AVENUE	850	24	20,400	R - Residential/Local	O - AC/AC	92	37.16
DUMBAV	02	DUMBARTON AVENUE	PALO VERDE AVENUE	BELL STREET	900	28	25,200	R - Residential/Local	O - AC/AC	70	22.86
DUMBAV	03	DUMBARTON AVENUE	BELL STREET	EAST BAYSHORE ROAD	600	21	30,000	R - Residential/Local	A - AC	94	33.72
EASTRO	01	EAST BAYSHORE ROAD	LAUREL AVENUE	HOLLAND STREET	667	30	20,010	C - Collector	O - AC/AC	78	22.1
EASTRO	02	EAST BAYSHORE ROAD	MENALTO AVENUE	LAUREL AVENUE	760	30	22,800	C - Collector	O - AC/AC	76	20.88
EASTRO	03	EAST BAYSHORE ROAD	MENALTO AVENUE	ADDISON AVENUE	800	33	26,400	C - Collector	A - AC	84	17.71
EASTRO	04	EAST BAYSHORE ROAD	ADDISON AVENUE	LINCOLN STREET	822	32	26,304	C - Collector	A - AC	89	20.3
EASTRO	05	EAST BAYSHORE ROAD	LINCOLN STREET	EUCLID AVENUE	769	34	26,146	C - Collector	A - AC	87	19.25
EASTRO	06A	EAST BAYSHORE ROAD	CLARKE AVE	1700 E BAYSHORE RD	1,798	42	75,516	C - Collector	A - AC	93	22.34
EASTRO	06B	EAST BAYSHORE ROAD	1700 E BAYSHORE RD	DONOHOE ST	559	88	49,192	C - Collector	A - AC	95	23.19
EASTRO	07	EAST BAYSHORE ROAD	CLARKE AVENUE	PULGAS AVENUE	1,681	31	52,111	C - Collector	A - AC	89	20.3
EASTRO	08	EAST BAYSHORE ROAD	PULGAS AVENUE	CITY LIMIT	800	31	40,000	C - Collector	A - AC	90	20.83
EASTRO	09	EAST BAYSHORE ROAD	HOLLAND STREET	SARATOGA AVENUE	524	30	15,720	C - Collector	O - AC/AC	79	22.71
EASTST	01	EAST O'KEEFE STREET	EUCLID AVENUE	CITY LIMIT	1,616	33	53,328	R - Residential/Local	A - AC	80	26.35
EMMEWA	01	EMMETT WAY	KAVANAUGH DRIVE	URSULA WAY	750	29	37,500	R - Residential/Local	A - AC	77	24.44
EUCLAV	01	EUCLID AVENUE	RUNNYMEDE STREET	BELL STREET	1,067	37	39,479	C - Collector	O - AC/AC	79	23.35
EUCLAV	02	EUCLID AVENUE	BELL STREET	DONOHOE STREET	1,067	37	39,479	C - Collector	O - AC/AC	73	19.7
EUCLAV	03	EUCLID AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	598	37	22,126	R - Residential/Local	O - AC/AC	91	48.15
EUCLAV	04	EUCLID AVENUE	O'CONNOR STREET	WOODLAND AVENUE	700	24	42,000	R - Residential/Local	A - AC	92	32.96
FARRWA	01	FARRINGTON WAY	KAVANAUGH DRIVE	URSULA WAY	802	30	24,060	R - Residential/Local	A - AC	92	32.96
FORDST	01	FORDHAM STREET	RUTGERS ST	END	600	29	30,000	R - Residential/Local	A - AC	64	16.63
FORDST	02	FORDHAM STREET	RUTGERS ST	STEVENS AVENUE	551	29	15,979	R - Residential/Local	A - AC	59	13.95
FORDST	03	FORDHAM STREET	STEVENS AVENUE	PURDUE AVENUE	900	29	45,000	R - Residential/Local	O - AC/AC	65	18.42

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Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
FORDST	04	FORDHAM STREET	PURDUE AVENUE	NOTRE DAME AVENUE	805	43	34,615	R - Residential/Local	A - AC	52	10.5
FORDST	05	FORDHAM STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	800	41	56,000	R - Residential/Local	A - AC	74	22.54
FORDST	06	FORDHAM STREET	MICHIGAN AVENUE	BAY ROAD	706	41	28,946	R - Residential/Local	A - AC	52	10.5
GAILWA	01	GAILLARDIA WAY	AZALIA DRIVE	PULGAS AVENUE	576	25	14,400	R - Residential/Local	A - AC	24	0
GARDST	01	GARDEN STREET	MENALTO AVENUE	OAKWOOD DRIVE	976	30	29,280	R - Residential/Local	O - AC/AC	70	22.86
GARDST	02	GARDEN STREET	DUMBARTON AVENUE	END	750	17	37,500	R - Residential/Local	A - AC	73	21.92
GARDST	03	GARDEN STREET	CLARK AVENUE	PULGAS AVENUE	1,300	30	39,000	R - Residential/Local	A - AC	79	25.71
GARDST	04	GARDEN STREET	PULGAS AVENUE	END	1,100	32	35,097	R - Residential/Local	A - AC	48	8.68
GARDCT	01	GARDENIA CT	GARDENIA WAY	END	151	24	4,284	R - Residential/Local	A - AC	55	11.94
GARDWA	01	GARDENIA WAY	CAMELLIA DRIVE	AZALIA DRIVE	754	24	18,096	R - Residential/Local	A - AC	74	22.54
GARDWA	02	GARDENIA WAY	AZALIA DRIVE	VERBINA DRIVE	978	24	23,472	R - Residential/Local	A - AC	28	0.9
GATEST	01	GATES STREET	TATE STREET	WILKS STREET	779	33	25,707	R - Residential/Local	A - AC	79	28.96
GEORST	01	GEORGETOWN	TULANE AVENUE	PURDUE AVENUE	1,150	30	57,500	R - Residential/Local	A - AC	26	0.23
GERTCT	01	GERTRUDE CT	KAVANAUGH DRIVE	END	124	29	4,542	R - Residential/Local	A - AC	94	33.7
GLENWA	01	GLEN WAY	BAY ROAD	RUNNYMEDE STREET	955	22	21,010	C - Collector	O - AC/AC	91	28.97
GLENWA	02	GLEN WAY	RUNNYMEDE STREET	GARDEN STREET	600	16	9,600	R - Residential/Local	A - AC	64	16.64
GLENWA	03	GLEN WAY	GREEN STREET	EAST BAYSHORE ROAD	300	20	12,000	R - Residential/Local	A - AC	92	32.96
GLORWA	01	GLORIA WAY	KAVANAUGH DRIVE	URSULA WAY	800	37	29,600	R - Residential/Local	A - AC	41	5.73
GLORWA	02	GLORIA WAY	URSULA WAY	BAY ROAD	600	37	22,200	R - Residential/Local	A - AC	52	10.51
GONZST	01	GONZAGA STREET	STEVENS AVENUE	PURDUE AVENUE	900	29	45,000	R - Residential/Local	A - AC	80	26.35
GONZST	02	GONZAGA STREET	PURDUE AVENUE	NOTRE DAME	700	29	35,000	R - Residential/Local	A - AC	89	31.7
GONZST	03	GONZAGA STREET	NOTRE DAME	END	197	29	6,681	R - Residential/Local	A - AC	87	30.64
GONZST	04	GONZAGA STREET	MICHIGAN AVENUE	BAY ROAD	706	29	20,474	R - Residential/Local	A - AC	84	28.87
GRACAV	01	GRACE AVENUE	GLORIA WAY	END	380	30	12,422	R - Residential/Local	A - AC	79	25.71
GREEST	01	GREEN STREET	LINCOLN STREET	GLEN WAY	353	14	4,942	R - Residential/Local	A - AC	94	33.7
GREEST	02	GREEN STREET	COOLEY AVENUE	CLARKE AVENUE	1,300	25	52,000	R - Residential/Local	A - AC	77	24.44
GREEST	03	GREEN STREET	OAKWOOD DRIVE	CITY LIMIT	845	20	16,900	R - Residential/Local	O - AC/AC	74	27.08
HAZEWA	01	HAZELWOOD WAY	KAVANAUGH DR	URSULA WY	827	29	23,983	R - Residential/Local	A - AC	48	8.69
HAZEWA	02	HAZELWOOD WAY	URSULA WY	S END	162	29	4,698	R - Residential/Local	A - AC	31	1.95
HENRCT	10	HENRY COURT	BELL	END	200	21	4,710	R - Residential/Local	A - AC	86	30.08
HIBICT	01	HIBISCUS CT	DAISY LANE	END	134	30	5,033	R - Residential/Local	A - AC	47	8.24
HOLLST	01	HOLLAND STREET	EAST BAYSHORE ROAD	MENALTO AVENUE	1,190	28	33,320	R - Residential/Local	A - AC	44	6.96
HUNTST	01	HUNTER STREET	GEORGETOWN STREET	PURDUE AVENUE	900	29	26,100	R - Residential/Local	A - AC	31	1.94

Section PCI/RSL Listing

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Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
ILLIST	01	ILLINOIS STREET	FORDHAM STREET	STEVENS AVENUE	1,000	30	50,000	R - Residential/Local	A - AC	87	30.64
ILLIST	02	ILLINOIS STREET	STEVENS AVENUE	PURDUE AVENUE	850	29	42,500	R - Residential/Local	A - AC	81	26.99
ILLIST	03	ILLINOIS STREET	PURDUE AVENUE	NOTRE DAME AVENUE	612	29	17,748	R - Residential/Local	A - AC	41	5.72
ILLIST	04	ILLINOIS STREET	NOTRE DAME AVENUE	MICHIGAN AVENUE	800	29	40,000	R - Residential/Local	A - AC	73	21.92
ILLIST	05	ILLINOIS STREET	MICHIGAN AVENUE	BAY ROAD	730	29	21,170	R - Residential/Local	A - AC	86	30.07
JASMWA	01	JASMINE WAY	DAPHINE WAY	CAMELLIA DRIVE	1,269	24	30,456	R - Residential/Local	O - AC/AC	92	37.15
JERVAV	01	JERVIS AVENUE	ALBERNI STREET	BAY ROAD	1,473	30	44,190	R - Residential/Local	O - AC/AC	73	28.16
KAVADR	01	KAVANAUGH DRIVE	UNIVERSITY AVENUE	CITY LIMIT	1,972	37	72,964	R - Residential/Local	A - AC	67	18.34
KIRKCT	01	KIRKWOOD CT	KAVANAUGH DRIVE	END	179	29	6,143	R - Residential/Local	A - AC	63	16.09
LAKEDR	01	LARKSPUR DRIVE	SAGE STREET	O'CONNOR STREET	1,050	24	52,500	R - Residential/Local	O - AC/AC	92	51.52
LAKEDR	02	LARKSPUR DRIVE	O'CONNOR STREET	GARDENIA WAY	530	24	12,720	R - Residential/Local	O - AC/AC	92	37.15
LAURAV	01	LAUREL AVENUE	ALBERNI STREET (END)	BAY ROAD	1,361	30	40,830	R - Residential/Local	O - AC/AC	48	9.87
LAURAV	02	LAUREL AVENUE	BAY ROAD	HOLLAND STREET	521	28	14,588	R - Residential/Local	A - AC	51	10.05
LAURAV	03	LAUREL AVENUE	HOLLAND STREET	EAST BAYSHORE ROAD	279	28	7,812	R - Residential/Local	A - AC	72	21.31
LILALA	01	LILAC LANE	DUMBARTON AVENUE	PALO VERDE AVENUE	350	18	6,300	R - Residential/Local	A - AC	18	0
LINCST	01	LINCOLN STREET	OAKDALE ROAD	GARDEN STREET	400	14	8,000	R - Residential/Local	A - AC	79	25.71
LINCST	02	LINCOLN STREET	GARDEN STREET	EAST BAYSHORE ROAD	1,150	20	23,000	R - Residential/Local	A - AC	63	16.09
LOTUWA	01	LOTUS WAY	WISTERIA DRIVE	END	229	24	6,151	R - Residential/Local	A - AC	31	1.94
MANHAV	01	MANHATTAN AVENUE	WEST BAYSHORE ROAD	O'CONNOR STREET	300	40	12,000	C - Collector	O - AC/AC	85	26.28
MANHAV	02	MANHATTAN AVENUE	O'CONNOR STREET	WOODLAND AVENUE	781	40	31,240	C - Collector	O - AC/AC	87	27.34
MCNAST	01	McNAIR STREET	WILKS STREET	OAKES STREET	588	33	19,404	R - Residential/Local	A - AC	74	24.67
MELLST	01	MELLO STREET	LAUREL AVENUE	BAY ROAD	581	30	17,430	R - Residential/Local	O - AC/AC	74	29.24
MENAAV	01	MENALTO AVENUE	BAY ROAD	CITY LIMIT	1,300	30	39,000	R - Residential/Local	O - AC/AC	29	1.34
MENAAV	02	MENALTO AVENUE	BAY ROAD	GARDEN SREET	1,000	27	27,000	R - Residential/Local	O - AC/AC	28	0.97
MENAAV	03	MENALTO AVENUE	GARDEN ST	EAST BAYSHORE ROAD	350	28	9,800	R - Residential/Local	A - AC	19	0
MICHAV	01	MICHIGAN AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	685	29	19,865	R - Residential/Local	O - AC/AC	52	12.16
MICHAV	02	MICHIGAN AVENUE	FORDHAM STREET	ILLINOIS STREET	515	29	14,935	R - Residential/Local	A - AC	61	15
MOUTCI	01	MOUTON CIRCLE	McNAIR STREET	McNAIR STREET	1,148	33	37,884	R - Residential/Local	A - AC	67	18.59
MYRTPL	01	MYRTLE PLACE	MYRTLE ST	CULDESAC	221	23	5,690	R - Residential/Local	A - AC	92	32.96
MYRTST	01	MYRTLE STREET	CLARKE AVENUE	PULGAS AVENUE	1,300	36	52,000	R - Residential/Local	O - AC/AC	94	37.77
NEWBST	01A	NEWBRIDGE STREET	RALMAR AVENUE	SARATOGA AVENUE	1,854	41	76,014	R - Residential/Local	A - AC	82	27.63
NEWBST	01B	NEWBRIDGE STREET	SARATOGA AVENUE	CITY LIMIT	255	76	19,380	R - Residential/Local	A - AC	83	28.26
NEWERO	01	NEWELL ROAD	WOODLAND AVENUE	WEST BAYSHORE ROAD	1,000	38	60,000	R - Residential/Local	A - AC	85	29.49

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Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
NOTRAV	01	NOTRE DAME AVENUE	UNIVERSITY AVENUE	FORDHAM AVENUE	674	29	19,546	R - Residential/Local	A - AC	28	0.9
NOTRAV	02	NOTRE DAME AVENUE	FORDHAM AVENUE	ILLINOIS STREET	508	29	14,732	R - Residential/Local	O - AC/AC	82	31.2
OCONST	01	O'CONNOR STREET	CLARKE AVENUE	TATE ST	526	30	15,780	C - Collector	O - AC/AC	82	25.17
OCONST	02	O'CONNOR STREET	TATE ST	PULGAS AVENUE	800	38	30,400	C - Collector	O - AC/AC	76	21.83
OCONST	03	O'CONNOR STREET	PULGAS AVENUE	AZALIA DRIVE	225	46	10,350	R - Residential/Local	A - AC	67	18.33
OCONST	04	O'CONNOR STREET	AZALIA DRIVE	LAKESPUR DRIVE	475	24	11,400	R - Residential/Local	A - AC	76	23.79
OCONST	05	O'CONNOR STREET	LAKESPUR DRIVE	END	622	33	21,780	R - Residential/Local	A - AC	83	28.25
OCONST	06	O'CONNOR STREET	EUCLID STREET	MANHATTAN AVENUE	356	38	13,528	C - Collector	A - AC	44	4.01
OAKDRD	01	OAKDALE RD	PALO VERDE AVE	LINCOLN AV	268	16	4,288	R - Residential/Local	A - AC	61	15.01
OAKDRD	02	OAKDALE RD	LINCOLN AV	GLEN WAY	252	16	4,032	R - Residential/Local	A - AC	26	0.24
OAKEST	01	OAKES STREET	PULGAS AVENUE	BAINES STREET	1,444	33	47,652	R - Residential/Local	A - AC	76	26.73
OAKWDR	01	OAKWOOD DRIVE	BAY ROAD	BELL ST	1,706	26	44,356	R - Residential/Local	O - AC/AC	92	37.16
OAKWDR	02	OAKWOOD DRIVE	BELL ST	EAST BAYSHORE ROAD	471	20	9,420	R - Residential/Local	A - AC	91	37.99
OAKWDR	03	OAKWOOD DRIVE	WEST BAYSHORE ROAD	DONOHOE STREET	342	18	6,156	R - Residential/Local	O - AC/AC	75	28.25
PALOAV	01	PALO VERDE AVENUE	BAY ROAD	LILAC LANE	600	22	13,200	R - Residential/Local	O - AC/AC	89	35.74
PALOAV	02	PALO VERDE AVENUE	LILAC LANE	OAKDALE ROAD	350	22	7,700	R - Residential/Local	O - AC/AC	89	35.74
PALOAV	03	PALO VERDE AVENUE	OAKDALE ROAD	OAKWOOD DRIVE	500	22	20,000	R - Residential/Local	O - AC/AC	87	34.56
PAULCT	10	PAUL ROBESON COURT	WEEKS ST.	END	198	31	7,232	R - Residential/Local	A - AC	85	29.49
POPLAV	01	POPLAR AVENUE	ALBERNI STREET	NEWBRIDGE STREET	874	30	26,220	R - Residential/Local	O - AC/AC	63	18.37
POPLAV	02A	POPLAR AVENUE	BAY ROAD	GARDEN STREET	1,084	25	27,100	R - Residential/Local	O - AC/AC	80	26.96
POPLAV	02B	POPLAR AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	466	16	7,456	R - Residential/Local	A - AC	85	24.45
POPLAV	03	POPLAR AVENUE	GREEN ST	N DEAD END	249	29	7,221	R - Residential/Local	O - AC/AC	89	35.74
PULGAV	01	PULGAS AVENUE	BAY ROAD	END	1,250	37	50,000	R - Residential/Local	A - AC	29	1.25
PULGAV	02	PULGAS AVENUE	BAY ROAD	WEEKS STREET	1,063	37	39,331	A - Arterial	A - AC	63	11.85
PULGAV	03	PULGAS AVENUE	WEEKS STREET	RUNNYMEDE STREET	550	37	20,350	A - Arterial	A - AC	53	8.08
PULGAV	04	PULGAS AVENUE	RUNNYMEDE STREET	GARDEN STREET	600	37	24,000	A - Arterial	O - AC/AC	81	23.32
PULGAV	05	PULGAS AVENUE	GARDEN STREET	BEECH STREET	650	37	32,500	A - Arterial	O - AC/AC	81	23.32
PULGAV	06	PULGAS AVENUE	BEECH STREET	MYRTLE STREET	650	38	24,700	A - Arterial	A - AC	79	18.92
PULGAV	07	PULGAS AVENUE	MYRTLE STREET	O'CONNOR STREET	850	37	59,500	A - Arterial	O - AC/AC	85	25.57
PULGAV	08	PULGAS AVENUE	O'CONNOR STREET	GAILLARDIA WAY	1,026	44	45,144	A - Arterial	O - AC/AC	80	22.51
PULGAV	09	PULGAS AVENUE	GAILLARDIA WAY	EAST BAYSHORE ROAD	1,388	35	48,580	A - Arterial	O - AC/AC	90	28.01

Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
PURDAV	01	PURDUE AVENUE	UNIVERSITY AVENUE	FORDHAM STREET	900	29	54,000	R - Residential/Local	A - AC	33	2.66
PURDAV	02	PURDUE AVENUE	FORDHAM STREET	END	600	29	30,000	R - Residential/Local	O - AC/AC	91	48.12
RALMAV	01	RALMAR AVENUE	BAY ROAD	CITY LIMIT	1,050	30	31,500	R - Residential/Local	O - AC/AC	44	7.78
RALMAV	02	RALMAR AVENUE	BAY ROAD	GARDEN STREET	1,150	20	23,000	R - Residential/Local	O - AC/AC	93	50.17
RALMAV	03	RALMAR AVENUE	GARDEN STREET	EAST BAYSHORE ROAD	600	24	14,400	R - Residential/Local	O - AC/AC	94	53.1
RALMAV	04	RALMAR AVENUE	GREEN ST	DONOHOE ST	406	20	8,120	R - Residential/Local	O - AC/AC	38	4.96
ROBICT	10	ROBIN COURT	WEEKS ST	END	175	12	2,251	NCR - Proposed; Private; Non-County	A - AC	61	15.21
RUNNST	01	RUNNYMEDE STREET	PALO VERDE AVENUE	GLEN WAY	408	32	13,056	R - Residential/Local	A - AC	25	0
RUNNST	02	RUNNYMEDE STREET	GLEN WAY	UNIVERSITY AVENUE	676	32	21,632	C - Collector	O - AC/AC	82	24.54
RUNNST	03	RUNNYMEDE STREET	UNIVERSITY AVENUE	COOLEY AVENUE	588	37	21,756	C - Collector	O - AC/AC	44	5.61
RUNNST	04	RUNNYMEDE STREET	COOLEY AVENUE	433FT E/O COOLEY AVENUE	433	21	9,093	C - Collector	A - AC	55	6.65
RUNNST	05A	RUNNYMEDE STREET	433FT E/O COOLEY AV	WIDTH CHANGE 878FT E/O COOLEY AV	445	33	14,685	C - Collector	O - AC/AC	75	21.15
RUNNST	05B	RUNNYMEDE STREET	WIDTH CHANGE 878 FT E/O COOLEY AV	CLARKE AV	422	33	13,926	C - Collector	O - AC/AC	91	29.23
RUNNST	06	RUNNYMEDE STREET	CLARKE AVENUE	PULGAS AVENUE	1,300	22	28,600	C - Collector	O - AC/AC	89	28.26
RUNNST	07	RUNNYMEDE STREET	PULGAS AVENUE	END	1,000	24	40,000	R - Residential/Local	A - AC	22	0
RUTGST	01	RUTGERS STREET	FORDHAM STREET	N DEAD END	382	30	11,460	R - Residential/Local	A - AC	17	0
RUTHCT	01	RUTH CT	RUNNYMEDE STREET	END	250	31	8,798	R - Residential/Local	A - AC	52	10.5
SACRST	01	SACRAMENTO STREET	UNIVERSITY AVENUE	END	650	22	14,300	R - Residential/Local	A - AC	84	28.88
SAGEST	01	SAGE STREET	PULGAS AVENUE	LAKESPUR DRIVE	758	24	18,192	R - Residential/Local	A - AC	38	4.54
SALACT	10	SALAS COURT	DONOHOE ST	END	229	20	5,038	R - Residential/Local	A - AC	71	22.5
SAGAAV	01	SARATOGA AVENUE	EAST BAYSHORE ROAD	CITY LIMIT	1,444	30	43,320	R - Residential/Local	O - AC/AC	57	15.37
SCHELA	01	SCHEMBRI LANE	COOLEY AVENUE	CLARKE AVENUE	1,300	29	65,000	R - Residential/Local	O - AC/AC	92	48.06
SCFIST	10	SCOFIELD STREET	WOODLAND AVE	COOLEY AVE	640	22	14,080	C - Collector	A - AC	58	7.53
SHORCT	01	SHOREBREEZE CT	BEECH ST	E AND W END	442	28	12,376	R - Residential/Local	A - AC	91	32.59
SPARCT	10	SPARROW COURT	MYRTLE ST	END	162	33	6,585	R - Residential/Local	A - AC	84	28.88
STEVAV	01	STEVENS AVENUE	FORDHAM STREET	END	600	31	30,000	R - Residential/Local	A - AC	74	22.54
TATEST	01	TATE STREET	O`CONNOR STREET	BAINES STREET	1,125	33	37,125	R - Residential/Local	A - AC	75	25.68
TEMPCT	01	TEMPLE CT	ILLINOIS STREET	END	174	29	6,018	R - Residential/Local	A - AC	76	23.79
TERRAV	01	TERRA-VILLA AVENUE	GARDEN STREET	BEECH STREET	650	28	32,500	R - Residential/Local	A - AC	66	17.75
TINSST	01	TINSLEY STREET	TATE STREET	CLARKE AVENUE	523	33	17,259	R - Residential/Local	A - AC	72	22.77

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Street ID	Section ID	Street Name	From	To	Length	Width	Area	Functional Class	Surface Type	Current PCI	Remaining Life
TULAAV	01	TULANE AVENUE	XAVIER ST	RUTGERS ST	1,197	29	34,713	R - Residential/Local	A - AC	21	0
UNIVAV	01N	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	1,715	28	48,020	A - Arterial	O - AC/AC	83	24.38
UNIVAV	01S	UNIVERSITY AVENUE	CITY LIMIT	NOTRE DAME	1,715	28	48,020	A - Arterial	A - AC	79	18.79
UNIVAV	02	UNIVERSITY AVENUE	NOTRE DAME	BAY ROAD	1,500	59	88,500	A - Arterial	A - AC	89	23.37
UNIVAV	03	UNIVERSITY AVENUE	BAY ROAD	RUNNYMEDE STREET	1,250	58	62,500	A - Arterial	A - AC	66	13.08
UNIVAV	04	UNIVERSITY AVENUE	RUNNYMEDE STREET	BELL STREET	1,061	60	63,660	A - Arterial	A - AC	65	12.66
UNIVAV	05	UNIVERSITY AVENUE	BELL STREET	DONOHOE STREET	1,064	60	63,840	A - Arterial	A - AC	85	21.71
UNIVAV	06	UNIVERSITY AVENUE	DONOHOE STREET	WOODLAND AVENUE	1,853	103	190,859	A - Arterial	A - AC	68	13.93
URSUWA	01	URSULA WAY	HAZELWOOD WAY	EMMETT WAY	866	29	25,114	R - Residential/Local	A - AC	83	28.26
VERBDR	01	VERBINA DRIVE	AZALIA DRIVE	CAMELLIA DRIVE	1,200	24	60,000	R - Residential/Local	O - AC/AC	93	51.89
VERBDR	02	VERBINA DRIVE	CAMELLIA DRIVE	END	950	24	47,500	R - Residential/Local	A - AC	34	3.03
WEEKST	01	WEEKS STREET	DUMBARTON AVENUE	PALO VERDE AVENUE	350	19	6,650	R - Residential/Local	A - AC	17	0
WEEKST	02	WEEKS STREET	UNIVERSITY AVENUE	END	809	22	17,798	R - Residential/Local	A - AC	91	32.6
WEEKST	03	WEEKS STREET	COOLEY AVENUE	CLARKE AVENUE	1,300	37	52,000	R - Residential/Local	A - AC	78	25.08
WEEKST	04	WEEKS STREET	CLARKE AVENUE	END	2,200	37	82,434	R - Residential/Local	A - AC	74	22.54
WESTRO	01	WEST BAYSHORE ROAD	OAKWOOD DR/GREEN ST	MANHATTAN AVENUE	1,707	32	54,624	C - Collector	A - AC	81	16.24
WESTRO	02	WEST BAYSHORE ROAD	COOLEY AVENUE	NEWELL ROAD	1,000	30	30,000	C - Collector	O - AC/AC	92	37.27
WESTRO	03	WEST BAYSHORE ROAD	NEWELL ROAD	CLARKE AVENUE	550	30	22,000	C - Collector	O - AC/AC	93	29.54
WESTRO	04A	WEST BAYSHORE ROAD	CLARKE AV	1838 W BAYSHORE RD	674	31	20,894	C - Collector	O - AC/AC	93	29.54
WESTRO	04B	WEST BAYSHORE ROAD	1838 W BAYSHORE RD	WOODLAND AV	979	31	30,349	C - Collector	A - AC	11	0
WESTRO	05	WEST BAYSHORE ROAD	WOODLAND AVENUE	CITY LIMIT	747	31	23,157	C - Collector	A - AC	73	13.85
WESTAV	01	WESTMINSTER AVENUE	BAY ROAD	CITY LIMIT	1,734	30	52,020	R - Residential/Local	O - AC/AC	47	9.33
WILKST	01	WILKS STREET	TATE STREET	E END	792	33	26,136	R - Residential/Local	A - AC	76	26.73
WISTDR	01	WISTERIA DRIVE	SAGE STREET	O'CONNOR STREET	1,050	24	52,500	R - Residential/Local	A - AC	31	1.94
WISTDR	02	WISTERIA DRIVE	O'CONNOR STREET	GARDENIA WAY	850	24	42,500	R - Residential/Local	O - AC/AC	78	28.37
WISTDR	03	WISTERIA DRIVE	GARDENIA WAY	CAMELLIA DRIVE	1,073	24	25,752	R - Residential/Local	O - AC/AC	66	22.33
WISTDR	04	WISTERIA DRIVE	CAMELLIA DRIVE	DAPHNE WAY	1,300	24	65,000	R - Residential/Local	O - AC/AC	93	37.5
WOODAV	01	WOODLAND AVENUE	EUCLID AVENUE	MANHATTAN AVENUE	454	22	9,988	R - Residential/Local	A - AC	92	32.96

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WOODAV	02	WOODLAND AVENUE	MANHATTAN AVENUE	UNIVERSITY AVENUE	524	50	26,200	R - Residential/Local	O - AC/AC	73	25.94
WOODAV	03	WOODLAND AVENUE	COOLEY AVENUE	NEWELL ROAD	750	37	27,750	C - Collector	A - AC	88	19.77
WOODAV	04	WOODLAND AVENUE	NEWELL ROAD	CLARKE AVENUE	760	21	15,960	R - Residential/Local	O - AC/AC	95	38.08
WOODAV	05	WOODLAND AVENUE	CLARKE AVENUE	W BAYSHORE RD	1,509	19	28,671	R - Residential/Local	O - AC/AC	95	38.08
WOODAV	06	WOODLAND AVENUE	UNIVERSITY AVENUE	COOLEY AVENUE	1,300	23	29,900	C - Collector	A - AC	80	15.78
XAVIST	01	XAVIER STREET	TULANE AVENUE	PURDUE AVENUE	600	29	30,000	R - Residential/Local	A - AC	65	17.19

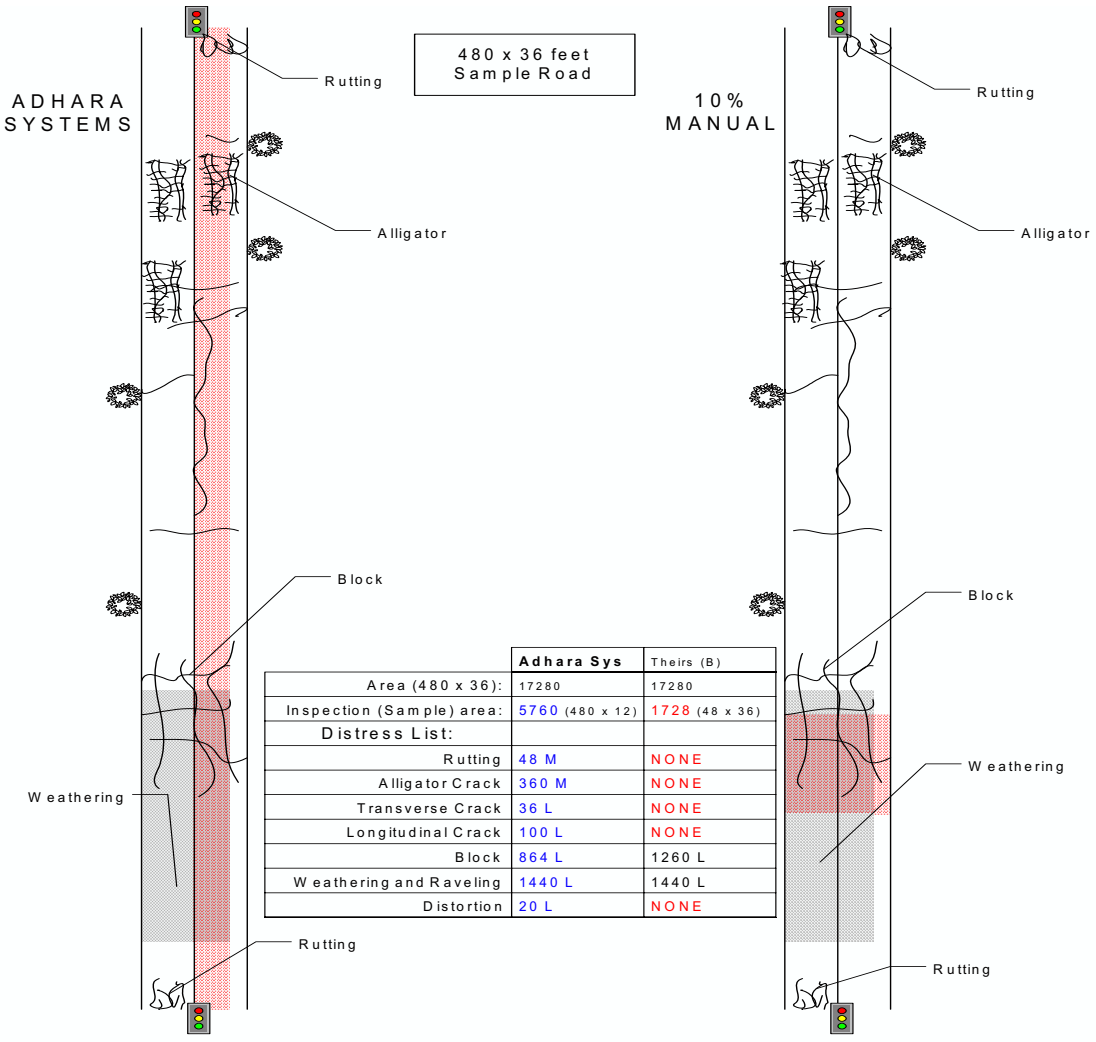
Total Section Length:	205,398
Total Section Area:	7,755,163

Appendix F: 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%.



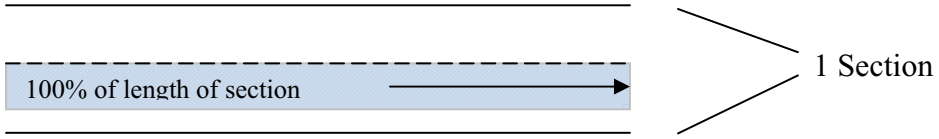
	Adhara Sys	Theirs (B)
Area (480 x 36):	17280	17280
Inspection (Sample) area:	5760 (480 x 12)	1728 (48 x 36)
Distress List:		
Rutting	48 M	NONE
Alligator Crack	360 M	NONE
Transverse Crack	36 L	NONE
Longitudinal Crack	100 L	NONE
Block	864 L	1260 L
Weathering and Raveling	1440 L	1440 L
Distortion	20 L	NONE

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.

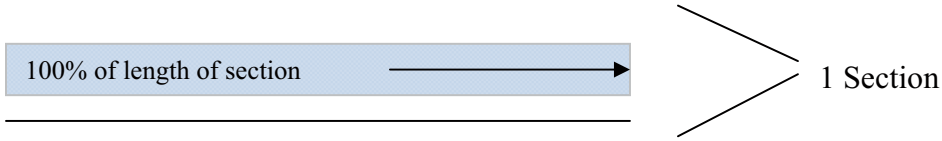
NOTE: WIDTH = 12 feet typical

1) 2 lane 2 way road



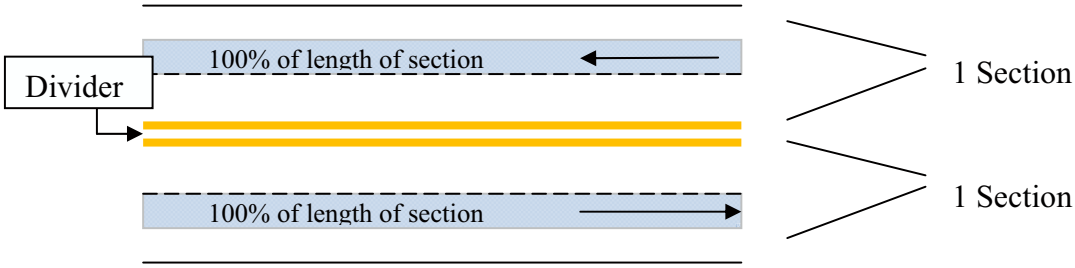
Survey one direction for one section.
Inspection Area = WIDTH × Length of Section

2) 100Residential 2 way road without lane strip



Survey one direction for one section.
Inspection Area = WIDTH × Length of Section

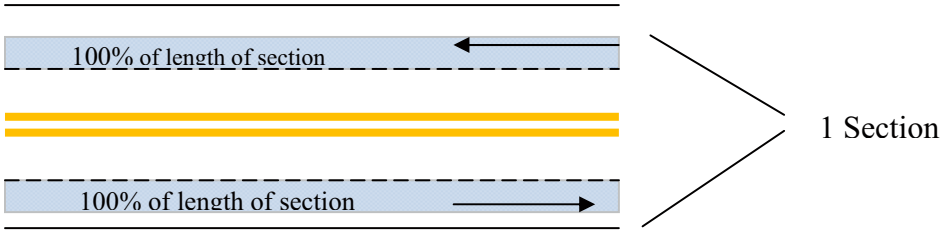
3) 4 lane 2 way divided road



Survey outside lane in each direction for each section.
Inspection Area = 2 x WIDTH × Length of Section

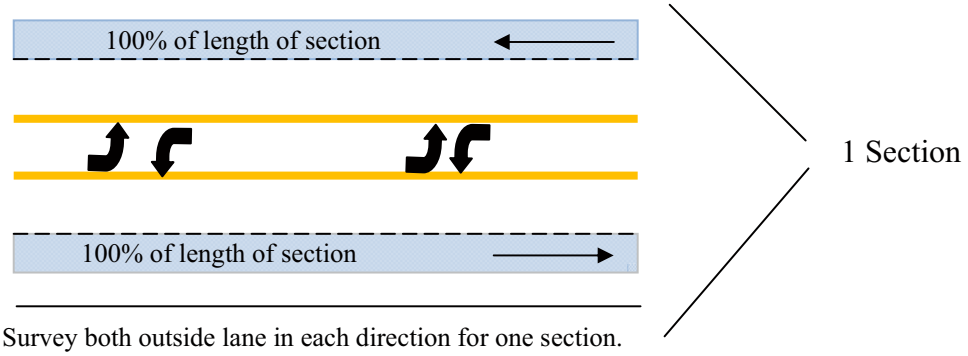
NOTE: It is suggested to split into two sections if there is a divider in between two opposite directions. However, if the current section definition is not in split, it will be counted as one single section and will be surveyed as "4 lane undivided road". If the road is divided into two sections, each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

4) 4 lane, 2 way undivided road



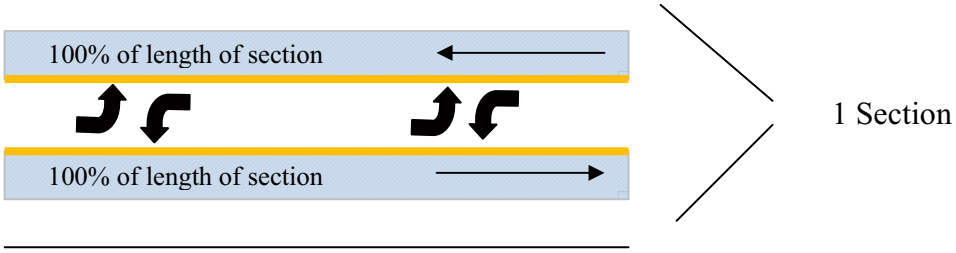
Survey both outside lane in each direction as one section.
Inspection Area = 2 × WIDTH × Length of Section

5) 4 lane 2 way undivided road with turning lane



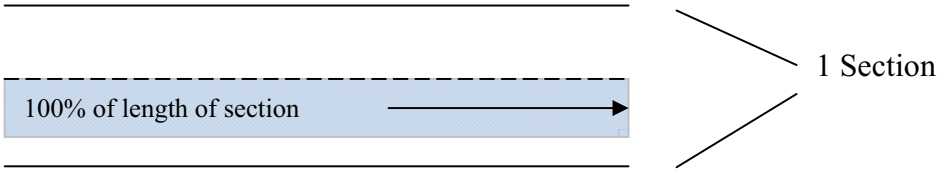
Survey both outside lane in each direction for one section.
Inspection Area = 2 × WIDTH × Length of Section

6) 3 lane 2way with middle turning lane



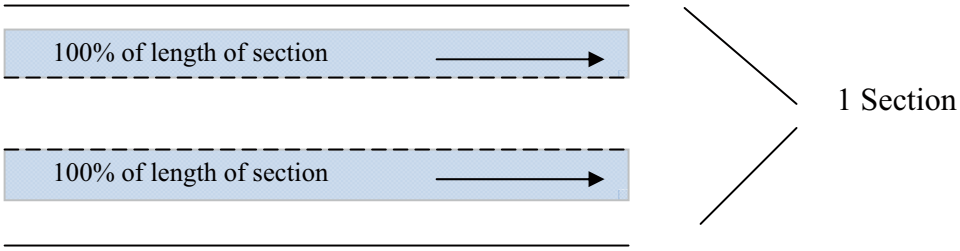
Survey one outside lane in direction as one section.
Inspection Area = 2 x WIDTH × Length of Section

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



Survey one direction lane for one section.
Inspection Area = WIDTH × Length of Section

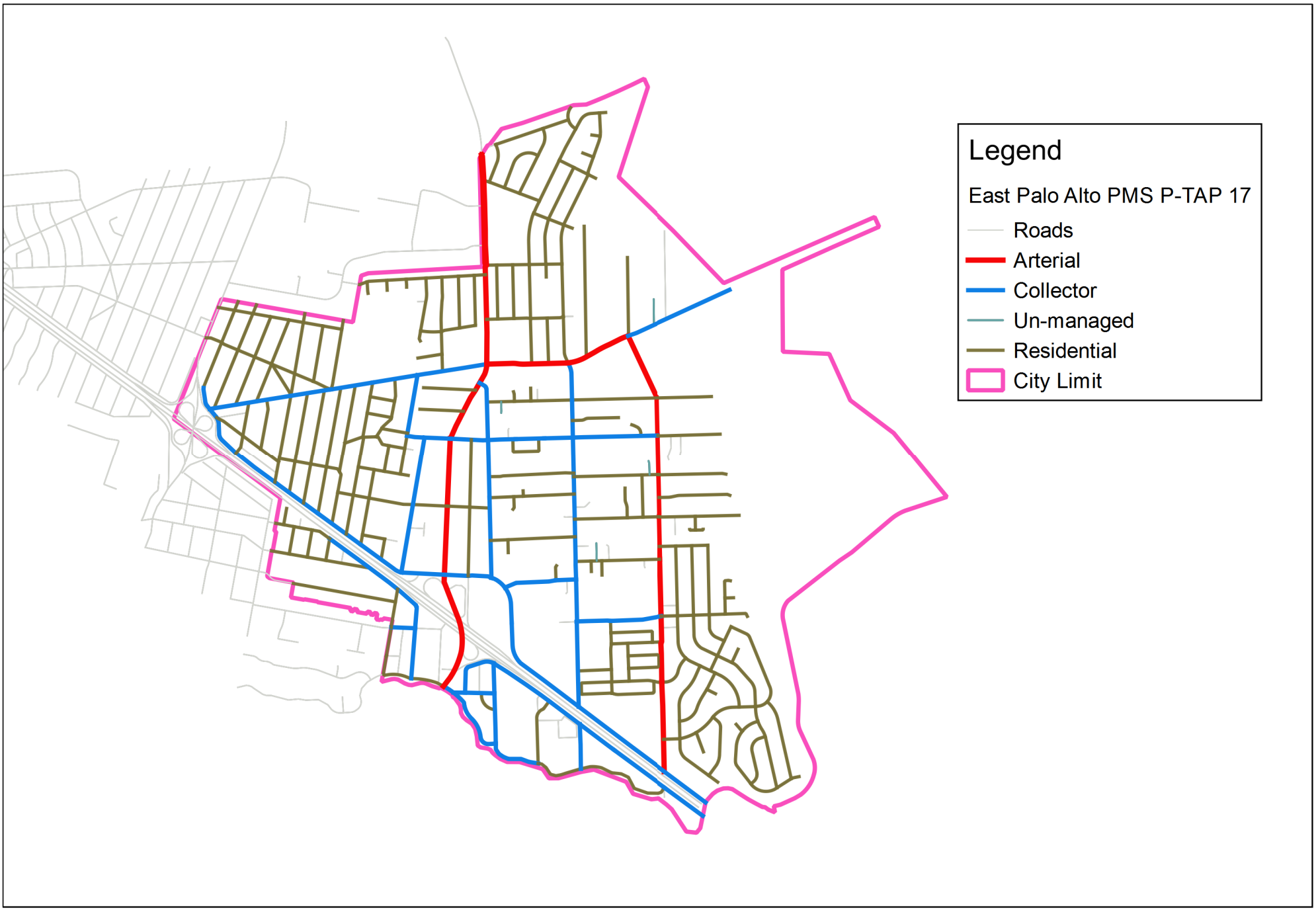
- 3 lanes 1 way road



Survey outer lane in each direction as one section.
Inspection Area = 2 x WIDTH × Length of Section

Appendix G: Presentations in GIS view

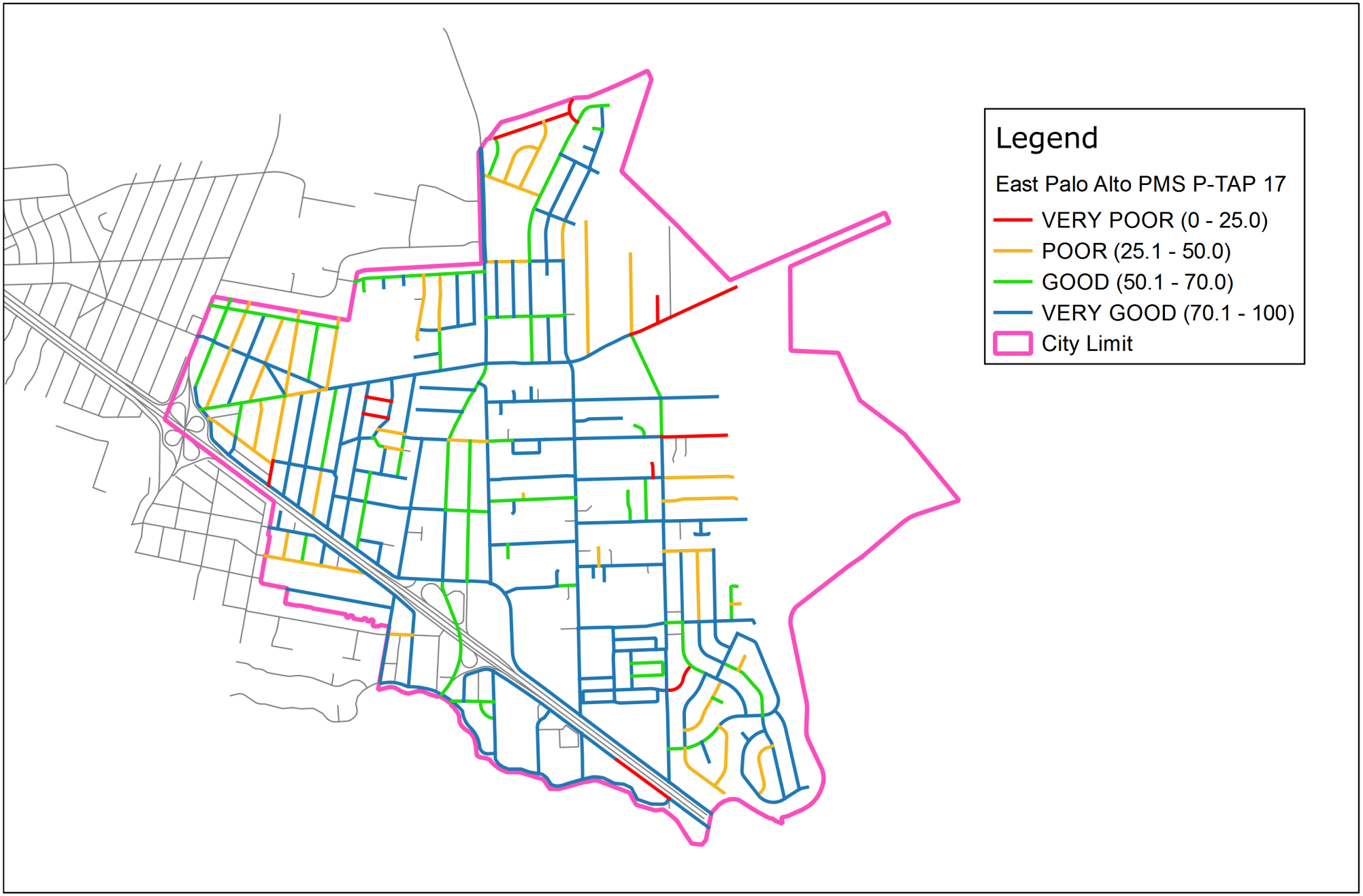
East Palo Alto P-TAP 17 - Functional Classes



January 23, 2017

Adhara Systems, Inc.

East Palo Alto P-TAP 17 - Condition Ratings



January 23, 2017

Adhara Systems, Inc.

Appendix H: MTC Distress Identification Manual

Updates for Weathering and Raveling

Technical Note
About the PCI Calculations with the 2015 MTC Distress Identification Manual (Revised 9/29/2015)

1. Introduction

The MTC Distress Identification Manuals updated in 2015 for use in the MTC StreetSaver software defines 8 distress types for asphalt (AC) surfaced pavements with weathering separated from Raveling, and 7 distress types for Portland cement concrete (PCC). This technical note is prepared to explain the expected differences in the PCI calculations using the updated MTC Distress Identification Manuals when compared to the previous version that defines 7 distress types for asphalt (AC) surfaced pavements with weathering and raveling defined as one distress. The separation of "raveling" from "weathering" is based on loss of coarse aggregate versus loss of binder matrix and fine aggregate. This modification in the distress definitions for weathering an raveling should alleviate some issues about high PCI loss early in the life of asphalt surfaced pavements in particular due to low severity weathering.

2. PCI Inspections with the 2015 MTC Distress Manual

The updated version of the MTC Distress Manual allows the inspector to rate weathering separated from raveling reporting distress in more detail. Weathering is primary the deterioration of the fine asphalt matrix, and raveling the loss of coarse aggregate. In the updated version, with weathering separated from raveling, the low weathering distress definition allows for the change in the asphalt color and the loss of 'fines'. The medium weathering looks at whether the coarse aggregate is starting to show signs of wear.

Differences in the 2015 Distress Definitions

Table 1 shows differences in the description, severity level definitions, and how to measure the weathering and raveling distresses between the updated MTC Distress Manual, with weathering separated from raveling for asphalt pavements, and the previous manual version with weathering and raveling combined.

Table 1. Comparison of Weathering and Raveling distresses in MTC Distress Manuals.

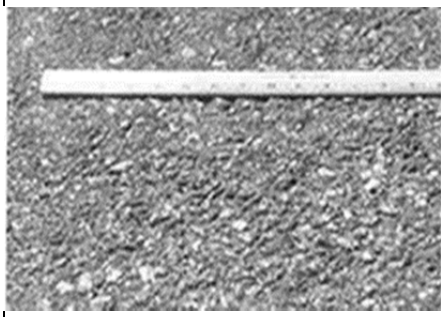
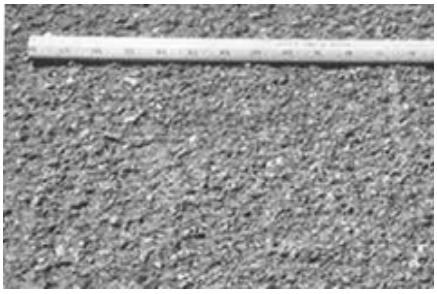
<table>
<tr><th>MTC Distress Manual
3rd version (2002)</th><th colspan="2">Updated MTC Distress Manual
4th version (2015)</th></tr>
<tr><th colspan="3">Description</th></tr>
<tr><td>Weathering and Raveling are the wearing away of the pavement surface caused by the loss of asphalt or tar binder and dislodged aggregate particles. This distress indicates that either the asphalt binder has hardened appreciably or that a poor quality mixture is present. In addition, raveling may be caused by certain types of traffic (e.g., tracked vehicles). Softening of the surface and dislodging of the aggregates due to oil or fuel spillage is also included under raveling.</td><td>Weathering is the wearing away of the asphalt binder and fine aggregate matrix. As used herein, coarse aggregate refers to predominant coarse aggregate size of the asphalt mix. Loss or dislodging of coarse aggregate is covered under Raveling. Surface wear is normally caused by oxidation, inadequate compaction, insufficient asphalt content, excessive natural sand, surface water erosion, and traffic. Weathering occurs faster in areas with high solar radiation.</td><td>Raveling is the dislodging of coarse aggregate particles. Raveling may be caused by insufficient asphalt binder, poor mixture quality, insufficient compaction, segregation, or stripping.
As used herein, coarse aggregate refers to predominant coarse aggregate size of the asphalt mix, and aggregate clusters refers to when more than one adjoining coarse aggregate piece is missing.</td></tr>
<tr><th colspan="3">Severity Levels</th></tr>
<tr><td>Weathering and Raveling
L Aggregate or binder of the pavement. In some areas, the surface is starting to pit. In the case of oil spillage, the oil stain can be seen, but the surface is hard and cannot be penetrated with a coin.
  </td><td>Weathering
L Asphalt surface beginning to show signs of aging which may be accelerated by climatic conditions. Loss of the fine aggregate matrix is noticeable and may be accompanied by fading of the asphalt color. Edges of the coarse aggregates are beginning to be exposed (less than 0.05 inches or 1 mm. Pavement may be relatively new (as new as 6 months old).
  </td><td>Raveling
There is no low severity level for raveling</td></tr>
</table>

Table 1. (Continue)

<table>
<tr><th>MTC Distress Manual
3rd version (2002)</th><th colspan="2">Updated MTC Distress Manual
4th version (2015)</th></tr>
<tr><td colspan="3">Severity Levels</td></tr>
<tr><td>Weathering and Raveling
M Aggregate and/or binder has worn away. The surface texture is moderately rough and pitted. The surface texture is soft and can be penetrated with a coin.
  </td><td>Weathering
M Loss of fine aggregate matrix is noticeable and edges of coarse aggregate have been exposed up to ¼ width (of the longest side) of the coarse aggregate due to the loss of fine aggregate matrix.
  </td><td>Raveling
M Considerable loss of coarse aggregate, greater than 20 per square yard (square meter), and/or clusters of missing coarse aggregate are present.
  </td></tr>
<tr><td>H Aggregate and/or binder has been considerably worn away. The surface texture is very rough and severely pitted. The edge of the pavement has broken up to the extent that pieces are missing within 1 to 2 ft (.3 to .6m) of the edge. In the case of oil spillage, the asphalt binder has lost its binding effect and the aggregate has become loose.
  </td><td>H Edges of coarse aggregate have been exposed greater than ¼ width (of the longest side) of the coarse aggregate. There is considerable loss of fine aggregate matrix leading to potential or some loss of coarse aggregate.
  </td><td>H Surface is very rough and pitted, may be completely removed in places.
 
Note: If in doubt about a severity level, three representative areas of one square yard each (square meters) should be examined and the number of missing aggregate particles/clusters is counted.</td></tr>
<tr><td colspan="3">How to Measure</td></tr>
<tr><td>Weathering and Raveling are measured in square feet of surface area.</td><td>Weathering: Surface wear is measured in square feet (square meter). Surface wear is not recorded where medium and/or high severity raveling is recorded.</td><td>Raveling is measured in square feet (square meters) of surface area. Mechanical damage caused by such things as hook drags, tire rims, or snowplows is counted as raveling. If raveling is present weathering (surface wear) is not recorded.</td></tr>
</table>

3. Frequently Asked Questions

a. Has the 2015 MTC Distress Manual already been used in field inspections?

Yes, pavement sections were inspected in a pilot study to collect distresses with the 2015 MTC Distress Manual (8 distress types for asphalt) to calculate the PCI. The PCI obtained with the updated 2015 distress definitions were compared with the PCI obtained using the sever distress definitions for asphalt from the previous version of the Manual.

b. Are there any differences in the PCI calculations for the individual sections when using the 2015 MTC Distress Manual?

If there is raveling and weathering in the pavement section, there may be some differences in PCI depending on the pavement condition, magnitude, and severity level of these distresses. In general terms, the PCI of individual sections is expected to be within ± 8 PCI points in 90% of the cases.

c. So, how will be affected the PCI calculation if a pavement section is in very good condition?

For pavements in very good condition, PCI above 70, it is expected that:

- Low Weathering will result in slightly higher PCI values than Low W&R if Weathering is the primary distress
- Medium Weathering will result in similar PCI values to Low Weathering and Raveling
- High Weathering will result in similar PCI values to Medium Weathering and Raveling
- The PCI for the individual sections with PCI above 70 is expected to be within ± 5 PCI points in 80% of the cases.

d. How will be affected the PCI calculation if a pavement section is in poor condition?

For pavements in very poor condition, PCI below 25, it is expected that:

- Medium Raveling will give the same values as Medium Weathering and Raveling
- High Raveling will give the same values as High Weathering and Raveling
- The PCI for the individual sections with PCI below 25 is expected to be within ± 1 PCI points in 85% of the cases.

e. What will be the change in the PCI network average when using the 2015 MTC Distress Manual?

There should not be a major change in the PCI network average when using the 2015 MTC Distress Manual. The PCI network average is expected to be a within ± 3 PCI points range.