

Memo

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To: Bryan Rhoads
Blendon Township, Ohio

From: Mike Andrako, P.E.

Date: November 3, 2013

Subject: 25 Year Pavement
Maintenance Projection

CC: File

I have been contracted by Blendon Township to perform a pavement condition rating and provide a 25 year pavement maintenance projection for the roadways within the Township's corporation limit.

Roadway Statistics

A total of 25.43 centerline miles of pavement was rated as Township maintained roadways.

Historical data regarding previous maintenance was not available so an *Estimated Pavement Age* was determined during the rating process.

The year constructed for streets in the development area bound by I-270 to the east and north, Westerville Rd. (SR 3) to the west and E. Dublin-Granville Rd. (SR 161) to the south was assumed to be 1961. The year constructed for streets in the development area bound by Sunbury Rd. to the east, Dempsey Rd. to the north and I-270 to the west was assumed to be 1974. The date of construction for all other streets was considered unknown for the purpose of this study. See **Attachment A** for a map depicting these areas and streets that were considered to be maintained by the Township.

Pavement Condition Rating (PCR)

Pavement Condition Rating (PCR) is a number used to assess the current condition of a roadway. The PCR has a range from 0 to 100 with 100 being the highest possible rating a roadway can receive.

The PCR is a composite score calculated using ratings in various categories which assess cracking, pavement defects (i.e. potholes, ride quality, etc.), crack seal condition, concrete curb condition and other possible condition factors.

The condition of a paved surface and the determination of what equates to a good, fair and poor roadway can be very subjective and varies from rater to rater. Listed in **Table 1** is a proposed range for categorizing the PCRs collected and the resulting totals for Township streets.

Table 1

<i>Category</i>	<i>PCR Range</i>	<i>Streets (miles)</i>
Very Good	95 to 100	13.20
Good	90 to 94	4.90
Fair	76 to 89	5.13
Poor	75 and lower	2.20

In addition, the average overall PCR for Township maintained streets is 89.95. A listing of all streets and their respective ratings is included in **Attachment B** and a map showing the ratings for each street is included in **Attachment C**.

25 Year Pavement Maintenance Projection

The average useful life for the pavement surface of a street is approximately 25 years. For this reason, a 25 Year Pavement Maintenance Projection covers a complete cycle of paving for a roadway system.

Using the *Estimated Pavement Age* which was determined during the rating process, the proposed year of maintenance can be assumed by projecting the estimated age to 25 years. To simplify the results and allow for flexibility of future program configurations, the streets were grouped into the following five (5) categories:

Tier 1 (Pave within 0-5 years)

Tier 2 (Pave within 6-10 years)

Tier 3 (Pave within 11-15 years)

Tier 4 (Pave within 16-20 years)

Tier 5 (Pave within 21-25 years)

Listed in **Table 2** is a summary of the results and expected costs using 2013 figures. The estimated costs are based on \$65/ft of roadway paved. This includes costs for 3" of pavement surface removed and replaced, spot curb repair and ADA curb ramp upgrades. This has been established using recent data on similar roadways.

Table 2

<i>Tier</i>	<i>Paving Year Range</i>	<i>Streets (miles)</i>	<i>Estimated Yearly Cost*</i>
1	0-5 years (2014 to 2019)	4.42	\$303,459.00
2	6-10 years (2020 to 2024)	4.68	\$321,672.00
3	11-15 years (2025 to 2029)	2.43	\$166,855.00
4	16-20 years (2030 to 2034)	5.37	\$368,381.00
5	21-25 years (2035 to 2039)	8.53	\$585,260.00

* Estimated cost based on \$65/ft and is derived using 2013 figures (does not account for inflation)

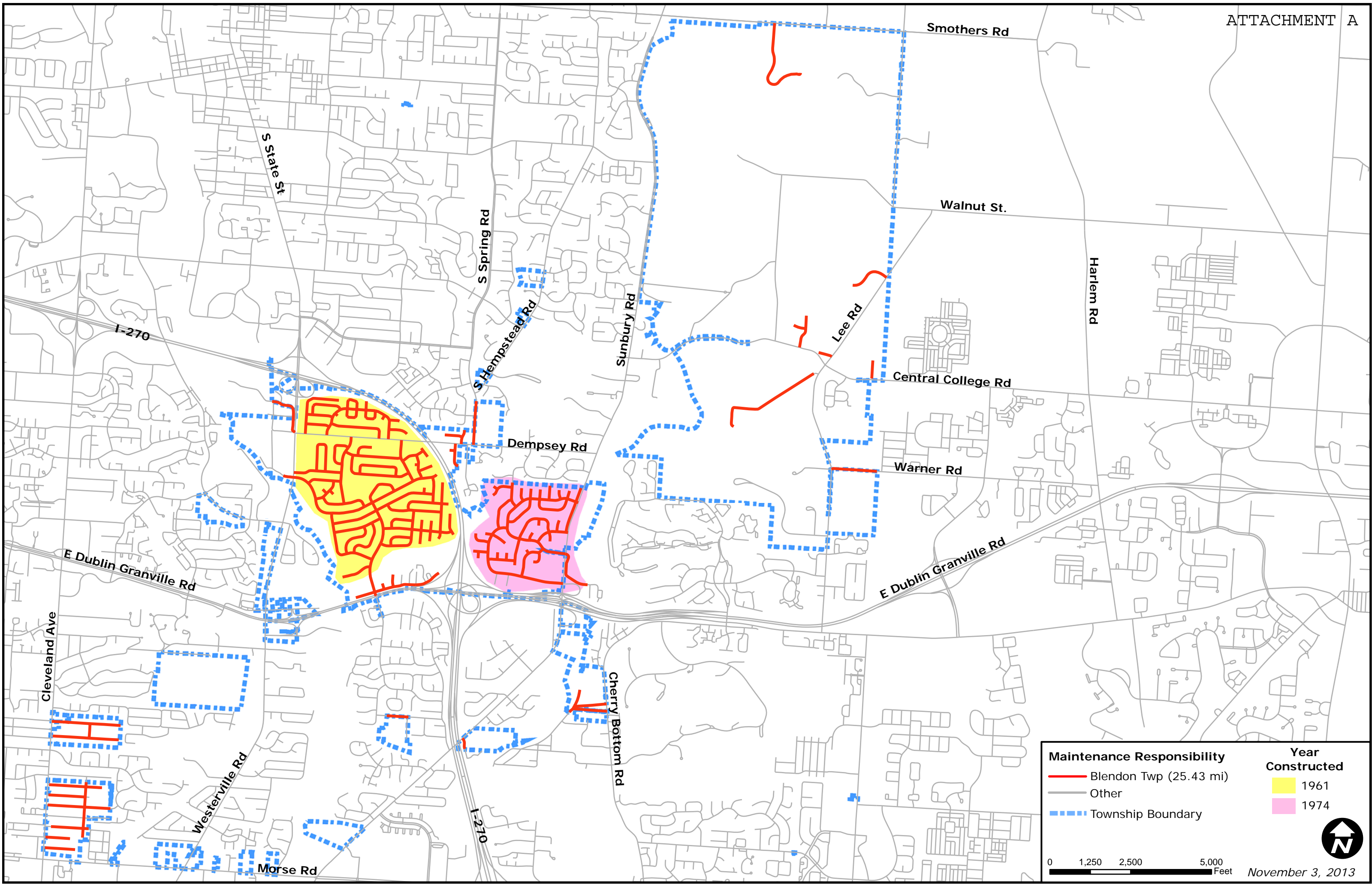
A Map showing the categorization of Tiers for Township maintained streets is included in **Attachment C**.

Recommendations

The Township has made a noticeable investment over the past few years in paving streets as evidenced by the large amount of streets in the Tier 5 category.

During the rating process it was noted that many of the streets in the Township are ready to be crack sealed. Performing crack seal treatment to a roadway once cracking becomes prevalent is considered to be an effective preventative maintenance technique and will prolong the life of the pavement and assure the goal of a 25 year useful life is realized. Another preventative maintenance application is Microsurfacing. The application of Microsurfacing was found to be on some of the older streets in the Township and is recommended in the last 5 to 10 years of a pavement's life. It will improve the appearance of the street by making it black again and also help seal the surface and improve skid resistance.


This study is based on current roadway conditions and should be revised regularly to assure roadways are deteriorating at the expected rate. The purpose of projecting future paving work is to assure sufficient funding in future budgets is allocated to roadway paving costs.



Maintenance Responsibility		Year Constructed	
	Blendon Twp (25.43 mi)		1961
	Other		1974
	Township Boundary		

0 1,250 2,500 5,000 Feet

November 3, 2013

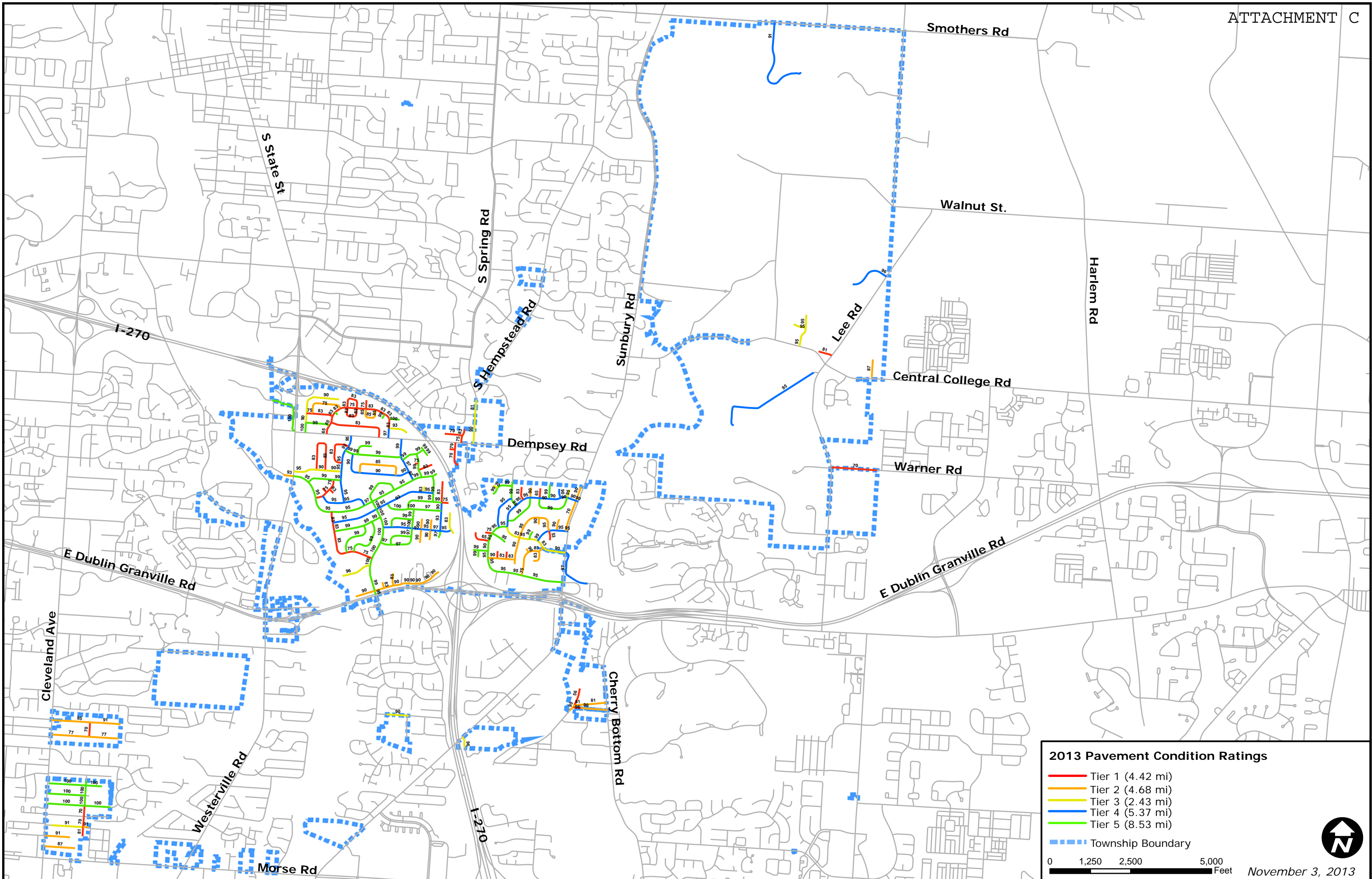


Segment ID	Street Name	From Limit	To Limit	Year Built	Last Maintenance	Pavement Type	Length (ft)	Date Rated	Defects	Cracking	Concrete	Crack Seal	PCR	2014 Recommended Maintenance	Estimated Age	Tier
78	ABINGTON RD	SHARON AVE	CORP LIMIT	0	Overlay	Flexible	798	10/19/13	1	1	0	0	100		4	5
116	ABINGTON RD	CLEVELAND AVE	SHARON AVE	0	Overlay	Flexible	1143	10/19/13	1	1	0	0	100		4	5
50	ACAPULCO PL	HARBIN DR	END OF COURT	0	Overlay	Composite	382	10/4/13	1	4	2	0	83	CS	18	2
61	ADDA AVE	CLEVELAND AVE	END OF COURT	0	Overlay	Flexible	936	10/19/13	1	3	0	3	87		15	2
109	ARNETT CT	RENO RD	ARNETT RD	0	Overlay	Composite	736	10/4/13	1	1	2	0	99		1	5
36	ARNETT RD	VICKERS DR	VICKERS CT	0	Slurry	Composite	144	10/4/13	1	4	2	0	83	Overlay	20	1
46	ARNETT RD	DAHLGREEN DR	VICKERS DR	0	Slurry	Composite	197	10/4/13	1	4	2	0	83	Overlay	20	1
56	ARNETT RD	VICKERS CT	HUNT CLUB RD N	0	Slurry	Composite	195	10/4/13	1	4	2	0	83	Overlay	20	1
104	ARNETT RD	DEMPSEY RD	ARNETT CT	0	Slurry	Composite	268	10/4/13	2	5	2	0	65	Overlay	20	1
124	ARNETT RD	HUNT CLUB RD N	MONTFORD RD W	0	Slurry	Composite	222	10/19/13	2	4	2	0	75		20	1
125	ARNETT RD	ARNETT CT	DAHLGREEN DR	0	Slurry	Composite	123	10/4/13	2	5	2	0	65	Overlay	20	1
77	BADER CT	BADER RD	END OF COURT	0	Slurry	Composite	547	10/4/13	1	4	3	0	79		20	1
73	BADER RD	BADER CT	END OF COURT	0	Slurry	Composite	231	10/4/13	1	4	2	0	83		20	1
130	BADER RD	DEMPSEY RD	BADER CT	0	Slurry	Composite	217	10/4/13	2	4	2	0	75		20	1
153	BALBOA CT	BALBOA RD	END OF COURT	1961	Slurry	Composite	111	10/4/13	1	5	2	0	75		25	1
139	BALBOA PL	BALBOA RD	END OF COURT	1961	Slurry	Composite	453	10/4/13	1	4	2	0	83		22	1
135	BALBOA RD	BALBOA CT	BOLAMO DR	1961	Overlay	Composite	305	10/4/13	1	1	2	0	99		3	5
156	BALBOA RD	BALBOA PL	BALBOA CT	1961	Overlay	Composite	185	10/4/13	1	1	2	0	99		3	5
172	BALBOA RD	PARIS BLVD E	BALBOA PL	1961	Overlay	Composite	254	10/4/13	1	1	2	0	99		3	5
189	BANGASI RD	CAIRO RD	CAIRO RD	1961	Slurry	Composite	1138	10/4/13	1	4	2	0	83		22	1
175	BASHAW DR	MEXICO AVE	END OF COURT	1961	Overlay	Composite	675	10/19/13	1	4	2	0	83	CS	10	3
121	BATAVIA CT	BATAVIA RD	END OF COURT	0	Slurry	Composite	165	10/4/13	1	4	3	0	79		20	1
5	BATAVIA RD	BATAVIA CT	DEMPSEY RD	0	Slurry	Composite	214	10/4/13	2	4	1	0	79		20	1
100	BATAVIA RD	BATAVIA CT	END OF COURT	0	Slurry	Composite	535	10/4/13	2	4	3	0	70		20	1
270	BEAUTY ROSE AVE	EXECUTIVE PKWY	PELICAN PL	1974	Overlay	Composite	286	9/28/13	1	3	2	0	90	CS	17	2
275	BEAUTY ROSE AVE	PELICAN PL	BLUE HEN PL	1974	Overlay	Composite	280	9/28/13	2	3	2	0	83	CS	17	2
278	BEAUTY ROSE AVE	BLUE HEN PL	BITTERROOT DR	1974	Overlay	Composite	268	9/28/13	2	3	2	0	83	CS	17	2
259	BITTERROOT DR	BEAUTY ROSE AVE	END OF COURT	1974	Overlay	Composite	136	9/28/13	1	3	2	0	90		15	2
260	BITTERROOT DR	VALLEY QUAIL BLVD S	SHOWY CT	1974	Overlay	Composite	954	9/28/13	1	2	2	0	95		15	2
261	BITTERROOT DR	BEAUTY ROSE AVE	VALLEY QUAIL BLVD S	1974	Overlay	Composite	698	9/28/13	1	3	2	0	90	CS	15	2
291	BITTERROOT DR	SHOWY CT	YELLOWHAMMER DR	1974	Overlay	Composite	614	9/28/13	1	2	2	0	95		15	2
288	BLUE BONNET CT	CARNATION DR	END OF COURT	1974	Overlay	Composite	485	9/28/13	1	2	2	0	95		4	5
249	BLUE HEN PL	BEAUTY ROSE AVE	END OF COURT	1974	Slurry	Composite	226	9/28/13	3	4	2	0	65	Overlay	25	1
235	BLUEBIRD CT	CARNATION DR	END OF COURT	1974	Slurry	Composite	578	9/28/13	3	4	2	0	65	Overlay	25	1
164	BOGOTA DR	SANTIAGO DR	SANTIAGO DR	1961	Overlay	Composite	845	10/19/13	1	1	2	0	99		2	5
143	BOLAMO CT	BOLAMO DR	END OF COURT (SOUTH)	1961	Overlay	Composite	229	10/4/13	1	1	2	0	99		4	5
213	BOLAMO CT	BOLAMO DR	END OF COURT (NORTH)	1961	Overlay	Composite	97	10/4/13	1	1	2	0	99		4	5
211	BOLAMO DR	BALBOA RD	BOLAMO CT	1961	Overlay	Composite	244	10/4/13	1	1	2	0	99		4	5
212	BOLAMO DR	PARIS BLVD N	BALBOA RD	1961	Overlay	Composite	489	10/4/13	1	1	2	0	99		4	5
188	BRAZZAVILLE RD	DAKAR RD E	CAIRO RD	1961	Overlay	Composite	499	10/4/13	1	3	2	0	90		13	3
201	BRAZZAVILLE RD	WESTERVILLE RD	DAKAR RD W	1961	Overlay	Composite	723	10/4/13	1	2	2	0	95		13	3
210	BRAZZAVILLE RD	DAKAR RD W	DAKAR RD E	1961	Overlay	Composite	271	10/4/13	1	3	2	0	90		13	3
49	BROOKLYN RD	CLEVELAND AVE	END OF COURT	0	Overlay	Flexible	758	10/19/13	1	3	0	2	91		15	2
54	BUENOS AIRES BLVD	Unknown	MADRID DR	0	Overlay	Composite	238	10/4/13	1	1	1	0	100		1	5
74	BUENOS AIRES BLVD	STRAWBERRY FARMS BLVD	HARBIN DR	0	Overlay	Composite	125	10/4/13	2	1	2	0	95		1	5
122	BUENOS AIRES BLVD	HARBIN DR	Unknown	0	Overlay	Composite	796	10/4/13	1	1	2	0	99		1	5
185	BUENOS AIRES BLVD	STOCKHOLM RD	PANAMA DR	1961	Overlay	Composite	276	10/4/13	1	1	1	0	100		1	5
193	BUENOS AIRES BLVD	PANAMA DR	PARIS BLVD	1961	Overlay	Composite	270	10/4/13	1	1	1	0	100		1	5
197	BUENOS AIRES BLVD	MADRID DR	SANTIAGO DR	1961	Overlay	Composite	554	10/4/13	1	1	1	0	100		1	5
206	BUENOS AIRES BLVD	MEXICO AVE	STOCKHOLM RD	1961	Overlay	Composite	327	10/4/13	1	1	1	0	100		1	5
232	BUENOS AIRES BLVD	SANTIAGO DR	MEXICO AVE	1961	Overlay	Composite	474	10/4/13	1	1	1	0	100		1	5
168	BUENOS AIRES BLVD	PARIS BLVD	PARIS BLVD	1961	Overlay	Composite	1240	10/4/13	1	1	2	0	99		3	5
257	BUNTING CT	VALLEY QUAIL BLVD N	END OF COURT	1974	Overlay	Composite	310	9/28/13	1	3	2	0	90	CS	15	2
274	CACTUS CT	VALLEY QUAIL BLVD S	END OF COURT	1974	Overlay	Composite	259	9/28/13	1	1	2	0	99		1	5
137	CAIRO RD	BANGASI RD	DEMPSEY RD	1961	Overlay	Composite	352	10/4/13	1	2	2	0	95		7	4
142	CAIRO RD	KARIKAL DR	BANGASI RD	1961	Overlay	Composite	145	10/4/13	1	2	2	0	95		7	4
157	CAIRO RD	BANGASI RD	KARIKAL DR	1961	Overlay	Composite	405	10/4/13	1	2	2	0	95		7	4
204	CAIRO RD	BRAZZAVILLE RD	BANGASI RD	1961	Overlay	Composite	270	10/4/13	1	2	2	0	95		7	4
217	CAIRO RD	SAIGON DR	BRAZZAVILLE RD	1961	Overlay	Composite	270	10/4/13	1	2	2	0	95		7	4
229	CAIRO RD	RANGOON DR	SAIGON DR	1961	Overlay	Composite	699	10/4/13	1	2	2	0	95		7	4
252	CAMELLIA CT	PASQUE CT	CHEROKEE ROSE DR	1974	Overlay	Composite	482	9/28/13	1	1	2	0	99		3	5
254	CAMELLIA CT	PASQUE CT	END OF COURT	1974	Overlay	Composite	237	9/28/13	1	1	2	0	99		3	5
203	CANBERRA CT	VIENNA DR	END OF COURT	1961	Slurry	Composite	160	10/4/13	1	4	2	0	83		22	1
214	CARACAS DR	LIMA DR	VARADERO DR	1961	Overlay	Composite	969	10/19/13	1	1	2	0	99		2	5
199	CARACAS DR	VARADERO DR	MONTEVIDEO RD	1961	Overlay	Composite	271	10/19/13	1	1	2	0	99		3	5
161	CARACAS DR	MONTEVIDEO RD	END OF COURT	1961	Slurry	Composite	210	10/19/13	2	4	2	0	75	Overlay	25	1
244	CARNATION DR	BLUEBIRD CT	CHICKADEE CT	1974	Overlay	Composite	311	9/28/13	1	3	2	0	90		4	5
247	CARNATION DR	CHICKADEE CT	BEAUTY ROSE AVE	1974	Overlay	Composite	222	9/28/13	1	2	2	0	95		4	5
262	CARNATION DR	BLUE BONNET CT	BLUEBIRD CT	1974	Overlay	Composite	264	9/28/13	1	2	2	0	95		4	5

Segment ID	Street Name	From Limit	To Limit	Year Built	Last Maintenance	Pavement Type	Length (ft)	Date Rated	Defects	Cracking	Concrete	Crack Seal	PCR	2014 Recommended Maintenance	Estimated Age	Tier
279	CARNATION DR	GOLDFINCH DR	BLUE BONNET CT	1974	Overlay	Composite	287	9/28/13	1	2	2	0	95		4	5
281	CARNATION DR	VALLEY QUAIL BLVD S	GOLDFINCH DR	1974	Overlay	Composite	250	9/28/13	1	2	2	0	95		4	5
16	CARTHAGE CT	CARTHAGE DR	END OF COURT	0	Overlay	Composite	594	10/19/13	1	3	1	0	93	CS	13	3
76	CARTHAGE DR	CARTHAGE CT	DEMPSEY RD	0	Overlay	Composite	302	10/19/13	1	2	1	0	97		8	4
72	CARTHAGE DR	TRITON CT	CARTHAGE CT	0	Slurry	Composite	291	10/19/13	1	4	2	0	83		20	1
123	CAUTELA DR	LEE RD	END OF COURT	0	Overlay	Flexible	1258	10/28/13	1	2	0	0	96		8	4
62	CENTRAL COLLEGE RD	LEE RD	END OF COURT	0	Overlay	Flexible	426	10/19/13	2	3	0	0	81		20	1
256	CHEROKEE ROSE DR	VALLEY QUAIL BLVD N	GOLDFINCH DR	1974	Overlay	Composite	253	9/28/13	1	1	2	0	99		3	5
268	CHEROKEE ROSE DR	CAMELLIA CT	CORP LIMIT	1974	Overlay	Composite	142	9/28/13	1	1	2	0	99		3	5
277	CHEROKEE ROSE DR	GOLDFINCH DR	CAMELLIA CT	1974	Overlay	Composite	397	9/28/13	1	1	2	0	99		3	5
52	CHESTER RD	CLEVELAND AVE	SHARON AVE	0	Overlay	Flexible	1141	10/19/13	1	1	0	0	100		4	5
258	CHICKADEE CT	CHICKADEE PL	END OF COURT	1974	Overlay	Composite	163	9/28/13	1	1	2	0	99		1	5
234	CHICKADEE CT	CHICKADEE PL	CARNATION DR	1974	Overlay	Composite	295	9/28/13	1	1	1	0	100		2	5
282	CHICKADEE PL	CHICKADEE CT	END OF COURT	1974	Overlay	Composite	209	9/28/13	1	1	2	0	99		1	5
21	CLARIDON RD	CLEVELAND AVE	SHARON AVE	0	Overlay	Flexible	1141	10/19/13	1	1	0	0	100		4	5
42	CLARIDON RD	SHARON AVE	END OF COURT	0	Overlay	Flexible	498	10/19/13	1	1	0	0	100		4	5
37	CLYBOURNE RD	CLEVELAND AVE	SHARON AVE	0	Overlay	Flexible	995	10/19/13	1	3	0	2	91		13	3
120	CLYBOURNE RD	SHARON AVE	END OF COURT	0	Overlay	Flexible	169	10/19/13	1	3	0	2	91		15	2
160	COPENHAGEN DR	MADRID DR	STOCKHOLM RD	1961	Overlay	Composite	1410	10/19/13	1	1	2	0	99		3	5
69	DAHLGREEN DR	DEMPSEY RD	DEMPSEY RD	0	Slurry	Composite	1772	10/19/13	2	3	2	0	83		22	1
133	DAKAR RD E	BRAZZAVILLE RD	DAKAR RD W	1961	Slurry	Composite	940	10/4/13	1	4	2	0	83		22	1
167	DAKAR RD W	BRAZZAVILLE RD	DAKAR RD E	1961	Slurry	Composite	918	10/4/13	1	4	2	0	83		22	1
13	EMRICK RD	WESTERVILLE RD	CORP LIMIT	2012	None	Composite	1475	10/4/13	1	1	1	0	100		1	5
241	EXECUTIVE PKWY	R WITHERS LN	SUNLAWN DR	1974	Overlay	Composite	404	9/28/13	1	2	2	0	95		4	5
246	EXECUTIVE PKWY	BEAUTY ROSE AVE	H ABBOTT DR	1974	Overlay	Composite	547	9/28/13	1	2	2	0	95		4	5
267	EXECUTIVE PKWY	SUNLAWN DR	SUNBURY RD	1974	Overlay	Composite	1303	9/28/13	1	2	2	0	95		4	5
272	EXECUTIVE PKWY	H ABBOTT DR	R WITHERS LN	1974	Overlay	Composite	360	9/28/13	1	2	2	0	95		4	5
70	FOX RUN CT	FOX RUN RD	END OF COURT	0	Overlay	Composite	153	10/19/13	1	1	2	0	99		1	5
32	FOX RUN RD	FOX RUN CT	TRITON CT	0	Slurry	Composite	204	10/19/13	1	4	2	0	83		20	1
60	FOX RUN RD	MONTFORD RD E	SADDLE LN W	0	Slurry	Composite	287	10/19/13	1	4	2	0	83		20	1
96	FOX RUN RD	SADDLE LN E	FOX RUN CT	0	Slurry	Composite	322	10/19/13	1	4	2	0	83		20	1
112	FOX RUN RD	SADDLE LN W	SADDLE LN E	0	Slurry	Composite	289	10/19/13	1	4	2	0	83		20	1
4	FOX RUN RD	MONTFORD RD W	MONTFORD RD E	0	Slurry	Composite	290	10/19/13	1	5	2	0	75		23	1
280	GOLDFINCH DR	CARNATION DR	CHEROKEE ROSE DR	1974	Overlay	Composite	1090	9/28/13	1	2	2	0	95		7	4
17	HARBIN DR	HARBIN CT	ROCKINGHAM CT	0	Overlay	Composite	205	10/4/13	1	3	2	0	90	CS	16	2
28	HARBIN DR	LISBON DR	ACAPULCO PL	0	Overlay	Composite	291	10/4/13	1	3	2	0	90	CS	16	2
29	HARBIN DR	WOODVALE CT	HIGHBROOK CT	0	Overlay	Composite	228	10/4/13	1	3	2	0	90	CS	16	2
75	HARBIN DR	ROCKINGHAM CT	WOODVALE CT	0	Overlay	Composite	328	10/4/13	1	3	2	0	90	CS	16	2
80	HARBIN DR	HARBIN PL	HARBIN CT	0	Overlay	Composite	254	10/4/13	1	3	2	0	90	CS	16	2
86	HARBIN DR	BUENOS AIRES BLVD	END OF COURT	0	Overlay	Composite	607	10/4/13	1	3	2	0	90	CS	16	2
98	HARBIN DR	BUENOS AIRES BLVD	LISBON DR	0	Overlay	Composite	304	10/4/13	1	3	2	0	90	CS	16	2
102	HARBIN DR	HIGHBROOK CT	END OF COURT	0	Overlay	Composite	271	10/4/13	1	3	2	0	90	CS	16	2
131	HARBIN DR	ACAPULCO PL	HARBIN PL	0	Overlay	Composite	247	10/4/13	1	3	2	0	90	CS	16	2
45	HIBISCUS CT	YELLOWHAMMER DR	END OF COURT	0	Overlay	Composite	359	9/28/13	1	3	2	0	90	CS	17	2
19	HILDEBRAND RD	SUNBURY RD	CORP LIMIT	0	Overlay	Flexible	338	10/19/13	1	2	0	0	96		10	3
110	HOLLANDIA CT	HOLLANDIA DR	END OF COURT	0	Overlay	Flexible	386	10/28/13	1	3	0	1	95		10	3
24	HOLLANDIA DR	HOLLANDIA CT	END OF COURT	0	Overlay	Flexible	391	10/28/13	1	3	0	1	95		10	3
79	HOLLANDIA DR	CENTRAL COLLEGE RD	HOLLANDIA CT	0	Overlay	Flexible	637	10/28/13	1	3	0	1	95		10	3
111	HUNT CLUB RD N	HUNT CLUB RD W	ARNETT RD	0	Overlay	Composite	897	10/4/13	2	4	2	0	75	CS	17	2
103	HUNT CLUB RD W	VICKERS DR	HUNT CLUB RD N	0	Overlay	Composite	284	10/4/13	1	4	2	0	83	CS	17	2
43	INGLESIDE DR	Unknown	CHERRY BOTTOM RD	0	Overlay	Flexible	797	11/1/13	2	3	0	0	81	CS	15	2
58	INGLESIDE DR	WALNUT VIEW BLVD	Unknown	0	Overlay	Flexible	200	11/1/13	2	3	0	0	81	CS	15	2
15	JESSAMINE CT	VALLEY QUAIL BLVD N	END OF COURT	0	Overlay	Composite	285	9/28/13	1	3	2	0	90	CS	9	4
145	KARIKAL CT	KARIKAL DR	END OF COURT	1961	Overlay	Composite	621	10/4/13	1	1	2	0	99		1	5
186	KARIKAL DR	CAIRO RD	MANILA DR	1961	Overlay	Composite	260	10/4/13	1	1	2	0	99		1	5
224	KARIKAL DR	MANILA DR	KARIKAL CT	1961	Overlay	Composite	161	10/19/13	1	1	2	0	99		1	5
228	KARIKAL DR	KARIKAL CT	PARIS BLVD N	1961	Overlay	Composite	1326	10/4/13	1	1	2	0	99		1	5
71	KILBOURNE AVE	CLEVELAND AVE	SHARON AVE	0	Overlay	Flexible	1126	10/19/13	3	3	0	2	77		15	2
126	KILBOURNE AVE	SHARON AVE	END OF COURT	0	Overlay	Flexible	916	10/19/13	3	3	0	2	77		15	2
192	LA PAZ PL	PANAMA DR	END OF COURT	1961	Overlay	Composite	181	10/19/13	1	4	2	0	83	CS	12	3
8	LAKE FOREST BLVD	SUNBURY RD	END OF COURT	0	Overlay	Composite	1460	11/1/13	1	2	1	0	97		5	4
276	LAWN PL	SUNLAWN DR	END OF COURT	1974	Overlay	Composite	129	9/28/13	1	3	2	0	90	CS	16	2
85	LEE RD	ULRY RD	END OF COURT	0	Overlay	Flexible	3437	10/19/13	1	3	0	1	95		8	4
146	LIMA DR	CARACAS DR	SANTIAGO DR	1961	Overlay	Composite	164	10/19/13	1	1	1	0	100		4	5
176	LIMA DR	PANAMA DR	CARACAS DR	1961	Overlay	Composite	736	10/19/13	1	1	1	0	100		4	5
222	LIMA DR	SANTIAGO DR	MONTEVIDEO RD	1961	Overlay	Composite	847	10/19/13	1	2	1	0	97		4	5
89	LISBON DR	HARBIN DR	END OF COURT	0	Overlay	Composite	187	10/4/13	1	4	2	0	83	CS	16	2
140	MADRID DR	OSLO DR	COPENHAGEN DR	1961	Overlay	Composite	217	10/4/13	2	4	2	0	75	SS	20	1
148	MADRID DR	COPENHAGEN DR	BUENOS AIRES BLVD	1961	Overlay	Composite	596	10/4/13	1	5	2	0	75	SS	20	1

Segment ID	Street Name	From Limit	To Limit	Year Built	Last Maintenance	Pavement Type	Length (ft)	Date Rated	Defects	Cracking	Concrete	Crack Seal	PCR	2014 Recommended Maintenance	Estimated Age	Tier
162	MADRID DR	STOCKHOLM RD	OSLO DR	1961	Overlay	Composite	944	10/4/13	1	4	2	0	83	SS	20	1
166	MADRID DR	PANAMA DR	STOCKHOLM RD	1961	Overlay	Composite	270	10/4/13	1	4	2	0	83	SS	20	1
230	MADRID DR	PARIS BLVD	PANAMA DR	1961	Overlay	Composite	337	10/4/13	1	4	2	0	83	SS	20	1
253	MAGNOLIA PL	CARNATION DR	END OF COURT	1974	Slurry	Composite	216	9/28/13	2	4	2	0	75	Overlay	25	1
208	MAKASSAR DR	MANILA DR	MANILA DR	1961	Overlay	Composite	1614	10/19/13	1	4	2	2	85		18	2
202	MANAGUA DR	MEXICO AVE	SANTIAGO DR	1961	Overlay	Composite	881	10/19/13	1	1	2	0	99		1	5
136	MANILA DR	MAKASSAR DR	PARIS BLVD N	1961	Overlay	Composite	430	10/19/13	1	3	2	0	90	CS	8	4
147	MANILA DR	MAKASSAR DR	MAKASSAR DR	1961	Overlay	Composite	1117	10/19/13	1	3	2	0	90	CS	8	4
205	MANILA DR	KARIKAL DR	MAKASSAR DR	1961	Overlay	Composite	774	10/19/13	1	3	2	0	90	CS	8	4
27	MANITOU DR	SMOTHERS RD	END OF COURT	0	Overlay	Flexible	3018	11/1/13	1	3	0	2	91		8	4
57	MARCELLA DR	Unknown	CHERRY BOTTOM RD	0	Overlay	Flexible	812	11/1/13	1	3	0	0	90	CS	15	2
59	MARCELLA DR	WALNUT VIEW BLVD	Unknown	0	Overlay	Flexible	238	11/1/13	3	4	0	0	56	Overlay	25	1
151	MEXICO AVE	MANAGUA DR	SANTIAGO DR	1961	Overlay	Composite	633	10/19/13	1	2	2	0	95		5	4
180	MEXICO AVE	SPOHN DR	NATALIE CT S	1961	Overlay	Composite	290	10/19/13	1	2	2	0	95		5	4
220	MEXICO AVE	SANTIAGO DR	SPOHN DR	1961	Overlay	Composite	283	10/19/13	1	2	1	0	97		5	4
221	MEXICO AVE	BUENOS AIRES BLVD	MANAGUA DR	1961	Overlay	Composite	263	10/19/13	1	2	2	0	95		5	4
225	MEXICO AVE	NATALIE CT S	MONTEVIDEO RD	1961	Overlay	Composite	301	10/19/13	1	2	1	0	97		5	4
149	MEXICO AVE	MONTEVIDEO RD	BASHAW DR	1961	Overlay	Composite	353	10/19/13	1	2	2	0	95		8	4
93	MINERVA AVE	SHARON AVE	END OF COURT	0	Overlay	Flexible	946	10/19/13	1	3	0	2	91		15	2
68	MINERVA AVE	CORP LIMIT	SHARON AVE	0	Overlay	Flexible	1353	10/19/13	2	3	0	2	85		17	2
90	MONTEVIDEO RD	MEXICO AVE	END OF COURT	0	Overlay	Composite	218	10/19/13	1	2	1	0	97		4	5
64	MONTEVIDEO RD	LIMA DR	CARACAS DR	0	Overlay	Composite	260	10/19/13	1	3	2	0	90	CS	8	4
83	MONTEVIDEO RD	MEXICO AVE	LIMA DR	0	Overlay	Composite	617	10/19/13	1	3	1	0	93	CS	8	4
34	MONTEVIDEO RD	CARACAS DR	END OF COURT	0	Overlay	Composite	659	10/19/13	1	4	2	0	83		25	1
23	MONTFORD RD E	FOX RUN RD	MONTFORD RD N	0	Slurry	Composite	226	10/19/13	1	4	2	0	83		20	1
84	MONTFORD RD E	FOX RUN RD	MONTFORD RD S	0	Slurry	Composite	251	10/19/13	1	4	2	0	83		20	1
9	MONTFORD RD N	MONTFORD RD W	MONTFORD RD E	0	Slurry	Composite	272	10/19/13	1	4	2	0	83		20	1
33	MONTFORD RD S	MONTFORD RD W	MONTFORD RD E	0	Slurry	Composite	253	10/19/13	1	4	2	0	83		20	1
47	MONTFORD RD W	FOX RUN RD	MONTFORD RD N	0	Slurry	Composite	274	10/19/13	1	4	2	0	83		20	1
88	MONTFORD RD W	FOX RUN RD	MONTFORD RD S	0	Slurry	Composite	240	10/19/13	1	4	2	0	83		20	1
187	NATALIE CT N	MEXICO AVE	END OF COURT	1961	Overlay	Composite	325	10/19/13	1	3	2	0	90	CS	15	2
194	NATALIE CT S	MEXICO AVE	END OF COURT	1961	Overlay	Composite	311	10/19/13	1	3	2	0	90	CS	15	2
182	OSLO DR	MADRID DR	STOCKHOLM RD	1961	Overlay	Composite	1226	10/19/13	1	1	2	0	99		3	5
177	PANAMA DR	MADRID DR	BUENOS AIRES BLVD	1961	Overlay	Composite	1427	10/19/13	1	2	2	0	95		5	4
191	PANAMA DR	BUENOS AIRES BLVD	LIMA DR	1961	Overlay	Composite	387	10/19/13	1	2	2	0	95		5	4
200	PANAMA DR	LIMA DR	LA PAZ PL	1961	Overlay	Composite	1207	10/19/13	1	2	3	0	93		5	4
219	PANAMA DR	LA PAZ PL	VARADERO DR	1961	Overlay	Composite	290	10/19/13	1	2	2	0	95		5	4
144	PARIS BLVD	MADRID DR	RANGOON DR	1961	Overlay	Composite	1053	10/4/13	1	2	2	0	95		4	5
163	PARIS BLVD	BUENOS AIRES BLVD	PARIS BLVD N	1961	Overlay	Composite	658	10/4/13	1	2	2	0	95		4	5
174	PARIS BLVD	WESTERVILLE RD	SAIGON DR	1961	Overlay	Composite	516	10/4/13	1	2	2	0	95		4	5
178	PARIS BLVD	BUENOS AIRES BLVD	BUENOS AIRES BLVD	1961	Overlay	Composite	766	10/4/13	1	2	2	0	95		4	5
190	PARIS BLVD	SAIGON DR	VIENNA DR	1961	Overlay	Composite	539	10/4/13	1	2	2	0	95		4	5
209	PARIS BLVD	VIENNA DR	MADRID DR	1961	Overlay	Composite	762	10/4/13	1	2	2	0	95		4	5
227	PARIS BLVD	RANGOON DR	BUENOS AIRES BLVD	1961	Overlay	Composite	268	10/19/13	1	2	1	0	97		4	5
152	PARIS BLVD E	PARIS BLVD N	BALBOA RD	1961	Overlay	Composite	273	10/4/13	1	1	2	0	99		4	5
195	PARIS BLVD E	BALBOA RD	VARADERO DR	1961	Overlay	Composite	345	10/4/13	1	1	2	0	99		4	5
198	PARIS BLVD E	VARADERO DR	END OF COURT	1961	Overlay	Composite	149	10/4/13	1	1	2	0	99		4	5
150	PARIS BLVD N	PARIS BLVD E	MANILA DR	1961	Overlay	Composite	291	10/19/13	1	2	1	0	97		5	4
223	PARIS BLVD N	MANILA DR	BOLAMO DR	1961	Overlay	Composite	404	10/19/13	1	2	1	0	97		5	4
154	PARIS BLVD N	KARIKAL DR	DEMPSEY RD	0	Overlay	Composite	543	10/4/13	1	1	2	0	99		6	4
165	PARIS BLVD N	BOLAMO DR	KARIKAL DR	1961	Overlay	Composite	125	10/4/13	1	1	2	0	99		6	4
35	PARIS CT	WESTERVILLE RD	END OF COURT	0	Concrete	Concrete	317	10/4/13	2	2	1	0	93		15	2
289	PASQUE CT	CAMELLIA CT	END OF COURT	1974	Overlay	Composite	147	9/28/13	1	3	2	0	90	CS	10	3
248	PULCAN PL	BEAUTY ROSE AVE	END OF COURT	1974	Slurry	Composite	223	9/28/13	2	4	2	0	75	Overlay	25	1
245	PELLERFINCH CT	VALLEY QUAIL BLVD N	END OF COURT	1974	Overlay	Composite	302	9/28/13	3	4	2	0	65	Overlay	25	1
179	RANGOON DR	CAIRO RD	PARIS BLVD	1961	Overlay	Composite	747	10/19/13	1	2	2	0	95		5	4
184	RANGOON DR	VIENNA DR	CAIRO RD	1961	Overlay	Composite	754	10/4/13	1	2	2	0	95		5	4
113	RENO RD	DEMPSEY RD	ARNETT CT	0	Overlay	Composite	310	10/4/13	1	1	1	0	100		2	5
51	RENO RD	VICKERS DR	END OF COURT	0	Overlay	Flexible	1391	10/4/13	2	2	0	0	90		12	3
91	RENO RD	ARNETT CT	VICKERS DR	0	Overlay	Flexible	290	10/4/13	1	3	0	0	90	CS	12	3
264	ROSEBAY CT	YELLOWHAMMER DR	END OF COURT	1974	Overlay	Composite	294	9/28/13	4	4	2	0	53	Overlay	25	1
7	S HEMPSTEAD RD	DEMPSEY RD	GENTLEWIND DR	0	Overlay	Flexible	887	10/4/13	1	3	0	0	90	CS	13	3
132	S HEMPSTEAD RD	GENTLEWIND DR	CORP LIMIT	0	Overlay	Flexible	463	10/4/13	2	3	0	0	81	CS	13	3
105	SADDLE LN CT	FOX RUN RD	END OF COURT	0	Slurry	Composite	273	10/19/13	1	5	2	0	75	Overlay	25	1
26	SADDLE LN E	FOX RUN RD	SADDLE LN S	0	Overlay	Composite	243	10/19/13	1	4	2	2	85		17	2
115	SADDLE LN S	SADDLE LN W	SADDLE LN E	0	Overlay	Composite	250	10/19/13	1	4	2	2	85		17	2
94	SADDLE LN W	FOX RUN RD	SADDLE LN S	0	Overlay	Composite	243	10/19/13	1	4	2	2	85		17	2
292	SAGEBRUSH CT	VALLEY QUAIL BLVD N	END OF COURT	1974	Overlay	Composite	408	9/28/13	1	4	2	0	83	SS	20	1
216	SAIGON DR	PARIS BLVD	VIENNA DR	1961	Overlay	Composite	822	10/4/13	1	1	2	0	99		3	5

Segment ID	Street Name	From Limit	To Limit	Year Built	Last Maintenance	Pavement Type	Length (ft)	Date Rated	Defects	Cracking	Concrete	Crack Seal	PCR	2014 Recommended Maintenance	Estimated Age	Tier
218	SAIGON DR	VIENNA DR	CAIRO RD	1961	Overlay	Composite	219	10/4/13	1	1	2	0	99		3	5
129	SANDIMARK PL	CENTRAL COLLEGE RD	END OF COURT	0	Overlay	Composite	554	10/28/13	2	3	1	0	87	CS	15	2
170	SANTIAGO DR	MANAGUA DR	LIMA DR	1961	Overlay	Composite	320	10/19/13	1	1	2	0	99		1	5
171	SANTIAGO DR	MEXICO AVE	MANAGUA DR	1961	Overlay	Composite	269	10/19/13	1	1	1	0	100		1	5
158	SANTIAGO DR	BOGOTA DR	BOGOTA DR	1961	Overlay	Composite	802	10/19/13	1	2	1	0	97		3	5
159	SANTIAGO DR	BOGOTA DR	MEXICO AVE	1961	Overlay	Composite	255	10/19/13	1	2	1	0	97		3	5
207	SANTIAGO DR	BUENOS AIRES BLVD	BOGOTA DR	1961	Overlay	Composite	331	10/19/13	1	2	1	0	97		3	5
251	SCISSORTAIL LOOP	VALLEY QUAIL BLVD N	VALLEY QUAIL BLVD N	1974	Overlay	Composite	1320	9/28/13	1	1	2	0	99		4	5
55	SERVICE RD	BUENOS AIRES BLVD	END OF COURT	0	Overlay	Flexible	929	10/4/13	1	2	0	0	96		10	3
22	SHARON AVE	CLARIDON RD	CORP LIMIT	0	Overlay	Flexible	144	10/19/13	1	1	0	0	100		4	5
82	SHARON AVE	CHESTER RD	CLARIDON RD	0	Overlay	Flexible	314	10/19/13	1	1	0	0	100		4	5
92	SHARON AVE	ABINGTON RD	CHESTER RD	0	Overlay	Flexible	311	10/19/13	1	1	0	0	100		4	5
12	SHARON AVE	ASHBURY RD	ABINGTON RD	0	Overlay	Flexible	335	10/19/13	2	4	0	0	70	SS	20	1
48	SHARON AVE	CLYBOURNE RD	ASHBURY RD	0	Overlay	Flexible	326	10/19/13	2	4	0	0	70	SS	20	1
53	SHARON AVE	CLYBOURNE RD	END OF COURT	0	Overlay	Flexible	283	10/19/13	2	3	0	0	81	SS	20	1
18	SHARON AVE	KILBOURNE AVE	MINERVA AVE	0	Overlay	Flexible	448	10/19/13	2	4	0	0	70	Overlay	22	1
285	SHOWY CT	BITTERROOT DR	END OF COURT	1974	Overlay	Composite	206	9/28/13	1	3	2	0	90	CS	15	2
169	SPOHN DR	MEXICO AVE	END OF COURT (SOUTH)	1961	Overlay	Composite	424	10/19/13	1	3	2	0	90	CS	17	2
183	SPOHN DR	MEXICO AVE	END OF COURT (NORTH)	1961	Overlay	Composite	324	10/19/13	1	3	2	0	90	CS	17	2
134	STOCKHOLM RD	OSLO DR	COPENHAGEN DR	1961	Overlay	Composite	270	10/19/13	1	1	2	0	99		3	5
155	STOCKHOLM RD	MADRID DR	OSLO DR	1961	Overlay	Composite	938	10/19/13	1	1	2	0	99		3	5
231	STOCKHOLM RD	COPENHAGEN DR	BUENOS AIRES BLVD	1961	Overlay	Composite	298	10/19/13	1	1	2	0	99		3	5
40	SUNBURY WOODS	VALLEY QUAIL BLVD N	END OF COURT	0	Overlay	Flexible	453	9/28/13	1	3	0	0	90	CS	15	2
114	SUNBURY WOODS	YELLOWHAMMER DR	VALLEY QUAIL BLVD N	0	Overlay	Flexible	990	9/28/13	3	3	0	0	70	CS	15	2
250	SUNLAWN DR	SUNWOOD PL	VALLEY QUAIL BLVD S	1974	Overlay	Composite	177	9/28/13	1	4	2	0	83	CS	16	2
265	SUNLAWN DR	EXECUTIVE PKWY	LAWN PL	1974	Overlay	Composite	769	9/28/13	2	4	2	0	75	CS	16	2
266	SUNLAWN DR	LAWN PL	SUNWOOD PL	1974	Overlay	Composite	329	9/28/13	1	4	2	0	83	CS	16	2
290	SUNWOOD PL	SUNLAWN DR	END OF COURT	1974	Overlay	Composite	437	9/28/13	1	4	2	0	83	CS	16	2
97	TASSEL CT	VALLEY QUAIL BLVD N	END OF COURT	0	Overlay	Composite	252	9/28/13	1	2	2	0	95		10	3
263	THRASHER LOOP	VALLEY QUAIL BLVD S	VALLEY QUAIL BLVD N	1974	Overlay	Composite	1104	9/28/13	1	1	2	0	99		4	5
66	TRITON CT	FOX RUN RD	END OF COURT	0	Overlay	Composite	324	10/19/13	1	1	1	0	100		1	5
271	VALLEY QUAIL BLVD N	CHEROKEE ROSE DR	SAGEBRUSH CT	1974	Overlay	Composite	286	9/28/13	1	2	2	0	95		8	4
284	VALLEY QUAIL BLVD N	THRASHER LOOP	CHEROKEE ROSE DR	1974	Overlay	Composite	554	9/28/13	1	2	2	0	95		8	4
95	VALLEY QUAIL BLVD N	JESSAMINE CT	TASSEL CT	0	Overlay	Composite	207	9/28/13	1	3	2	0	90	CS	9	4
117	VALLEY QUAIL BLVD N	TASSEL CT	SUNBURY WOODS	0	Overlay	Composite	285	9/28/13	1	3	2	0	90	CS	9	4
118	VALLEY QUAIL BLVD N	SUNBURY WOODS	SUNBURY RD	0	Overlay	Composite	74	9/28/13	1	3	2	0	90	CS	9	4
269	VALLEY QUAIL BLVD N	SAGEBRUSH CT	BUNTING CT	1974	Overlay	Composite	232	9/28/13	1	2	2	0	95		9	4
273	VALLEY QUAIL BLVD N	BUNTING CT	PURPLEFINCH CT	1974	Overlay	Composite	289	9/28/13	1	2	2	0	95		9	4
286	VALLEY QUAIL BLVD N	PURPLEFINCH CT	WOODTHRUSH DR	1974	Overlay	Composite	291	9/28/13	1	3	2	0	90	CS	9	4
287	VALLEY QUAIL BLVD N	WOODTHRUSH DR	JESSAMINE CT	1974	Overlay	Composite	364	9/28/13	1	3	2	0	90	CS	9	4
293	VALLEY QUAIL BLVD S	THRASHER LOOP	CARNATION DR	1974	Overlay	Composite	197	9/28/13	1	2	2	0	95		8	4
236	VALLEY QUAIL BLVD S	CARNATION DR	BITTERROOT DR	1974	Overlay	Composite	554	9/28/13	2	3	2	0	83		12	3
237	VALLEY QUAIL BLVD S	BITTERROOT DR	CACTUS CT	1974	Overlay	Composite	319	9/28/13	1	2	2	0	95		12	3
238	VALLEY QUAIL BLVD S	CACTUS CT	YELLOWHAMMER DR	1974	Overlay	Composite	260	9/28/13	1	2	2	0	95		12	3
239	VALLEY QUAIL BLVD S	YELLOWHAMMER DR	SUNLAWN DR	1974	Overlay	Composite	266	9/28/13	2	3	2	0	83		12	3
240	VALLEY QUAIL BLVD S	SUNLAWN DR	SUNBURY RD	1974	Overlay	Composite	718	9/28/13	2	2	2	0	90		12	3
138	VARADERO DR	PANAMA DR	PARIS BLVD E	1961	Overlay	Composite	535	10/4/13	1	1	2	0	99		3	5
173	VARADERO DR	CARACAS DR	PANAMA DR	1961	Overlay	Composite	268	10/4/13	1	1	2	0	99		3	5
63	VICKERS CT	ARNETT RD	END OF COURT	0	Overlay	Composite	105	10/4/13	1	1	1	0	100		1	5
99	VICKERS DR	RENO RD	HUNT CLUB RD W	0	Slurry	Composite	183	10/4/13	2	4	2	0	75		22	1
107	VICKERS DR	HUNT CLUB RD W	ARNETT RD	0	Slurry	Composite	629	10/4/13	1	4	2	0	83		22	1
196	VIENNA CT	VIENNA DR	END OF COURT	1961	Slurry	Composite	175	10/4/13	1	4	2	0	83		22	1
141	VIENNA DR	RANGOON DR	VIENNA CT	1961	Overlay	Composite	159	10/4/13	1	5	2	0	75	SS	20	1
181	VIENNA DR	PARIS BLVD	RANGOON DR	1961	Overlay	Composite	234	10/4/13	1	4	2	0	83	SS	20	1
215	VIENNA DR	CANBERRA CT	SAIGON DR	1961	Overlay	Composite	332	10/4/13	1	5	2	0	75	SS	20	1
226	VIENNA DR	VIENNA CT	CANBERRA CT	1961	Overlay	Composite	134	10/4/13	1	5	2	0	75	SS	20	1
25	WALNUT VIEW BLVD	MARCELLA DR	INGLESIDE DR	0	Overlay	Flexible	80	11/1/13	1	3	0	0	90	CS	15	2
67	WALNUT VIEW BLVD	CORP LIMIT	MARCELLA DR	0	Overlay	Flexible	166	11/1/13	1	3	0	0	90	CS	15	2
101	WALNUT VIEW BLVD	INGLESIDE DR	END OF COURT	0	Overlay	Flexible	531	11/1/13	3	4	0	0	56		25	1
38	WARNER RD	ULRY RD	CORP LIMIT	0	Overlay	Flexible	1408	11/1/13	2	4	0	0	70		22	1
128	WATT RD	CORP LIMIT	KNOTTY KNOLLS DR	0	Overlay	Flexible	669	10/19/13	1	3	0	0	90		12	3
242	WOODTHRUSH DR	VALLEY QUAIL BLVD N	END OF COURT	1974	Overlay	Composite	439	9/28/13	1	1	2	0	99		1	5
81	YELLOWHAMMER DR	HIBISCUS CT	SUNBURY WOODS	0	Overlay	Composite	283	9/28/13	1	2	2	0	95		8	4
106	YELLOWHAMMER DR	SUNBURY WOODS	SUNBURY RD	0	Overlay	Composite	63	9/28/13	1	2	2	0	95		8	4
255	YELLOWHAMMER DR	VALLEY QUAIL BLVD S	ROSEBAY CT	1974	Overlay	Composite	481	9/28/13	1	1	2	0	99		8	4
283	YELLOWHAMMER DR	ROSEBAY CT	HIBISCUS CT	1974	Overlay	Composite	244	9/28/13	2	2	2	0	90		8	4



2013 Pavement Condition Ratings

- Tier 1 (4.42 mi)
- Tier 2 (4.68 mi)
- Tier 3 (2.43 mi)
- Tier 4 (5.37 mi)
- Tier 5 (8.53 mi)
- Township Boundary

0 1,250 2,500 5,000 Feet

November 3, 2013