

THE 2016 ROAD IMPROVEMENT PROGRAM

Road Improvement Program

Note: Information from a memo presented to council on the first draft of the 2016 budget is included below.

Note: Council determined that it will cease using the PASER Pavement Management program effective immediately. PASER software was developed in the 1990's and is no longer supported by the creator. The lack of support creates problems with current database software and makes the program unreliable. Therefore we will include a portion of the information from last year's plan in this booklet with a brief description of PASER to facilitate reading the tables. However, all road information is now over a year old and is useful only as a baseline indicator of a particular road's problems and not as a tool to assist in determining roads to include in the 2016 plan. The borough engineer is reviewing alternatives and hopes to establish a new pavement management system during 2016.

The Road Improvement Program fund will be maintained as part of the final plan in booklet form but shown separately and accounted for separately. We will update the PASER program and include at least a summary of each road segment rating in the final document. Last year, we included a summary of the road rating system in this booklet. The total 2016 budget amounts to \$310,100 or \$30,025 less than 2015 as a somewhat larger paving program occurred resulting in significantly less carry over for 2016 if any (all funds earmarked for paving remain in this budget from year to year if unspent).

Caution is advised, however, as funds for this program may not be readily available due to reassessment issues as well as collection issues. Because this is funded by taxes collected during the year and revenues come in over a 6 month period beginning in March, the budget may not be fully funded until late summer.

I used the current 2015 county assessed value to determine the revenue that might be raised by 1 mill of taxes. As was true in the general fund the amount shown assumes a 2% delinquency rate and an appeal rate. We anticipate that appeals may be lower this year than prior years.

Expenditures in the fund include those categories specified by council. As before a separate line item for crack sealing is included since council has approved that as a valid use of paving fund dollars and costs for hot patch will come from this or the contractor line item as well.

There is also uncertainty as to how work on curb repairs will be allocated between the contractor and the borough crew. The crew may accomplish the work for less money as their salaries and benefits are considered a fixed cost to the borough. However, using the crew to do the work does have a cost – other work that might be accomplished but that is neglected

because of time spent on curb repairs. A line item for curb work is included nevertheless. Council has also determined that most, if not all, curbs should be replaced with asphalt rather than concrete. This will also result in savings if followed. In addition, council began a practice in 2013 that allowed the crew to handle some curb work on overtime with dollars from this fund used to reimburse general fund salary costs. Council believes that accomplishing this work in house is cheaper than bidding the work separately or including it in an overall pavement bid.

Since council implemented the 1 mill dedicated tax for road improvements in 2007, the borough has spent \$2,459,469 on paving costs alone (based on bills paid to contractors for paving work). Total expenditures for the period amounted to \$2,881,658. The latter amount includes paving costs mentioned above and engineering costs, crack sealing, curb and storm inlet preparation and replacement and other minor costs. The charts following the budget on the next page provide detail of revenues and expenditures for this fund from 2007 through 2015.

Pavement Management System (PASER – see note above)

In late 2006, staff began an update of the borough's pavement improvement program street ratings, something first started in 2003. The software program used to facilitate the ratings is called Paserware (or PASER) and was developed by the University of Wisconsin and the national Local Technical Assistance Program (LTAP).

The PASER program is updated and a summary of each road segment rating included in this document as of 2014. Last year, we included a summary of the road rating system in this booklet and that practice is repeated in this document with the same information. Numbers are based on 2014 costs and 2014 road ratings.

Following the road improvement budget and statistics on the next several pages, a detailed description of the PASER system is provided along with an updated list of road ratings as of 2014. Again, all ratings shown are preliminary and subject to change. Road rankings do not reflect the actual roads that will be part of any paving program. Actual roads that will be paved or repaired are determined by council based on a number of criteria including available funds, maintenance issues, road usage and other factors while using the PASER program as a guide. To emphasize: all PASER data here is provided as an example and may not reflect any actual paving priority for a 2016 or future paving program.

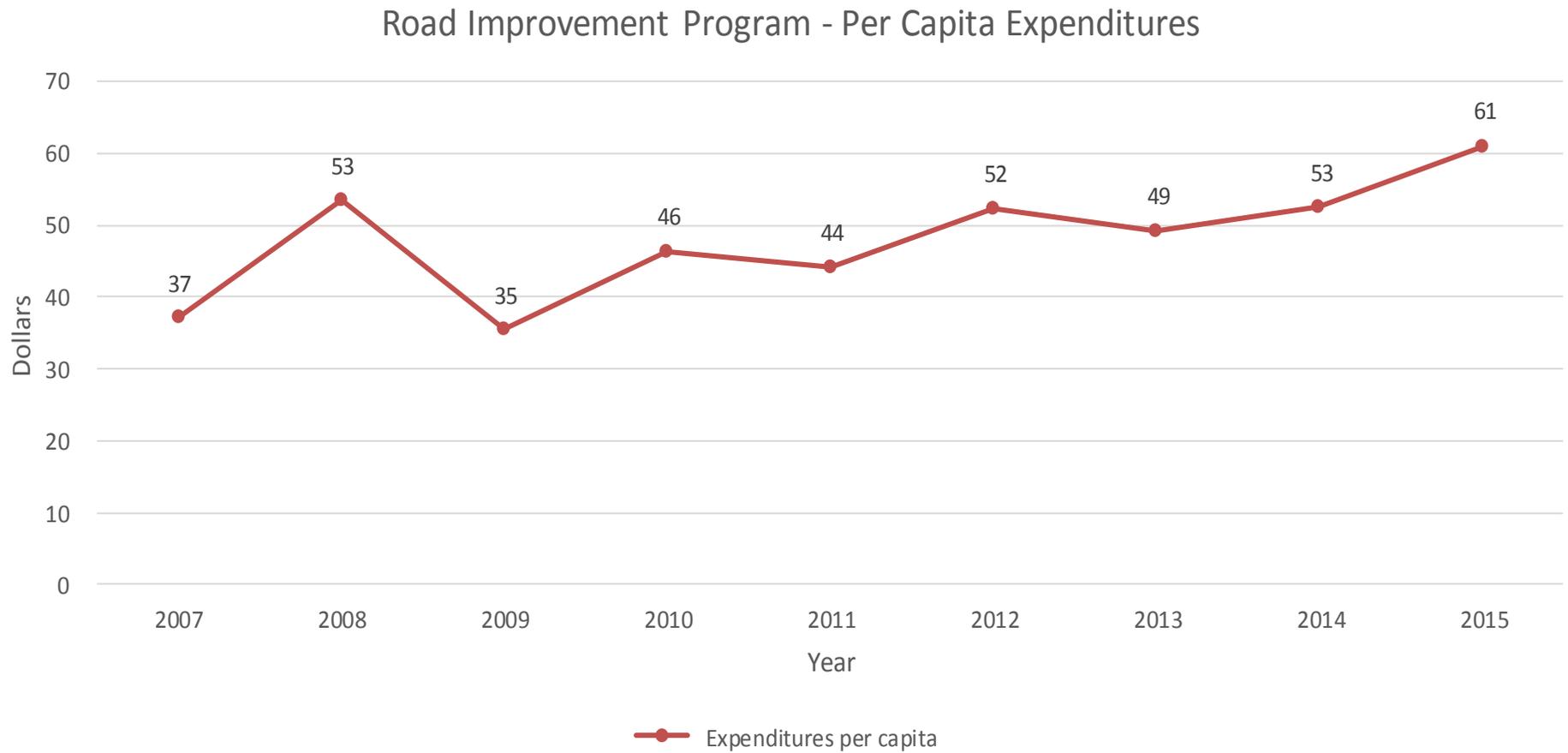
Final Budget: 2016 Road Improvement Fund

BOROUGH OF FOREST HILLS				
Summary of Road Improvement Fund				
Final				
		Pre-Audit		
		2015	2015	2016
<u>Revenues</u>		<u>Budget</u>	<u>(actual to 12/31/15)</u>	<u>Budget</u>
30-341-011	Interest	125	20	100
30-354-004	Real Estate Tax at 1 mill	310,000	346,206	310,000
30-354-005	Real Estate Taxes Escrowed		81	
30-380-212	Carryover from Previous Year (est.)	30,000	41,071	0
Total Revenue		340,125	387,378	310,100
		Pre-Audit		
		2015	2015	2016
<u>Expenditures</u>		<u>Budget</u>	<u>(actual to 12/31/15)</u>	<u>Budget</u>
30-439-313	Engineer Expense	29,500	30,399	29,000
30-439-314	Legal Expense	100	0	100
30-439-610	Contractor (Road Improvement)	293,325	358,687	260,000
30-439-670	Curbs & Storm Inlets	5,000	600.00	7,000
30-439-672	Crack Sealing	12,000	8,228	12,000
30-439-671	Miscellaneous	200	0	2,000
Total Expenditures		340,125	397,914	310,100

Paving Program History Since Inception

PAVING PROGRAM STATISTICS									
<i>(Program begins - 2007 Tax Ordinance)</i>									
Road Improvement Program Budget (from Budget Reports)	2007	2008	2009	2010	2011	2012	2013	2014	2015
Actual Revenues	297,480	344,789	285,579	340,337	330,398	343,813	315,471	406,948	387,378
Budgeted Revenues	295,817	328,860	298,552	326,804	335,350	324,500	324,500	307,150	340,125
Difference - Actual vs Budgeted	1,663	15,929	(12,973)	13,533	(4,952)	19,313	(9,029)	99,798	47,253
Actual Expenditures	253,753	365,313	242,381	302,646	287,938	341,282	321,539	342,245	397,914
Budgeted Expenditures	295,817	328,860	298,552	326,804	335,350	324,500	324,500	307,150	340,125
Difference - Actual vs Budgeted	(42,064)	36,453	(56,171)	(24,158)	(47,412)	16,782	(2,961)	35,095	57,789
Difference - Actual Revenues - Actual Expenditures	43,727	(20,524)	43,198	37,691	42,460	2,531	(6,068)	64,703	(10,536)
constant population for comparison	6,831	6,831	6,831	6,518	6,518	6,518	6,518	6,518	6,518
Expenditures per capita:	37	53	35	46	44	52	49	53	61
Expenditures: Paving Contractor Only									
Actual Expenditures	220,304	300,214	193,154	247,284	274,715	280,652	278,043	306,416	358,687
Budgeted Expenditures	295,817	300,281	266,000	275,304	286,500	291,500	291,500	265,000	293,325
Difference - Actual vs Budgeted	(75,513)	(67)	(72,846)	(28,020)	(11,785)	(10,848)	(13,457)	41,416	65,362
Real Estate Tax at 1 Mill for Paving Program									
Actual	292,070	291,570	285,033	288,438	287,750	298,077	308,650	381,949	346,206
Budgeted	295,817	294,860	294,552	294,804	294,850	294,000	294,000	302,000	310,000
Difference - Actual vs Budgeted	(3,747)	(3,290)	(9,519)	(6,366)	(7,100)	4,077	14,650	79,949	36,206
<i>(budget estimate adjusted for delinquents and appeals)</i>									

Illustration of Paving Program Expenditures on a Per Capita Basis



PASERWARE PAVEMENT MANAGEMENT SOFTWARE
(PASER Program ends with the 2016 report – all data shown from 2014)

The Charts beginning on the following page provide a copy of the Paserware rating updated in 2014. Each borough street is reviewed block by block and includes a rating of pavement condition using the PASER. The software was provided to the borough at no cost and requires that anyone evaluating streets rates most streets on a 10 point scale with 10 representing a street that is in near perfect condition and 1 representing a street that requires complete reconstruction. Brick streets are rated on a 5 point scale with 5 indicating near perfect condition. The ratings are shown in the column on the far right headed “**PASER Rating.**”

Streets are shown in alphabetical order by street name (ignoring words like “avenue”, “road”. etc.). However, streets such as Avenue A and Avenue D are alphabetized based on the “avenue” designation. Alleys are generally the lowest priority in any pavement rating despite their condition and may not be included in this list. Alleys typically are not part of a paving program.

While it may appear that this is a subjective rating it is not. Each PASER level is determined after reviewing criteria developed for the software that specifies what characteristics determine a street’s condition at that level and is accompanied by a picture that illustrates a typical road with those characteristics (see charts beginning on page 53 shown without pictures). Other columns from left to right show the ID number we assigned to each segment, the name of the street, the starting point of the road segment, the ending point of the segment, the length and width of the segment, the surface type, classification and PASER Priority. Estimated cost is based on past data and for reference only.

The surface type designation is self-evident and does not require further explanation. The classification column attempts to show the importance of the road based on traffic levels with the top 3 classes as Major, Minor and Local. The system takes the **PASER** rating, classification information, and surface type and may factor in items not shown here (e.g., drainage, curb condition, etc.) and converts the rating to a priority number (PASER Priority column). The PASER Priority number indicates the opposite from the simpler PASER rating in the column to the right. It begins at a rating of 1 (excellent) and proceeds higher from there with higher numbers indicating a greater need for repair.

The program uses the priority number to attempt to construct an approximate paving program based on a given budget figure and over a fixed time period (usually 1 to 5 years). We do not show an example of that here (see appendix for an example). The program is a tool that gives elected officials information to assist them in selecting the best streets to fit into a given budget. The final selection of streets ultimately depends on the PASER information but also on dollars available, actual costs determined by competitive bid, and the opinion of the elected officials.

Forest Hills Borough											(2014 Illustration for 2015 Budget)
All Roads in Alphabetical Order											(includes alleys for reference)
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
005Z	Arnold Avenue	Barclay Avenue	Dead End	0.017	24	HOT MIX	LOW USE	0.00	9.00	NO TREATMENT NEEDED	0.00
006	Arnold Avenue	Barclay Avenue	Greensburg Pike	0.06	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
006A	Ashley Court	Ridge Avenue	Cul-de-sac	0.12	25	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
007	Atlantic Avenue	Avenue K	Sumner Avenue	0.101	24	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
008	Atlantic Avenue	Sumner Avenue	Lenox Avenue	0.05	20	COMPOSITE	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
009	Atlantic Avenue	Lenox Avenue	Marion Avenue	0.14	20	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
010	Atlantic Avenue	Marion Avenue	Forest Glen Dr.	0.24	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
011	Atlantic Avenue	Forest Glen Dr.	Dead end	0.16	24	CONCRETE	LOCAL	9.68	6.00	ROUTINE+	1,690.00
001	Avenue A	Dead end	Avenue D	0.028	20	CONCRETE	LOCAL	8.33	7.00	ROUTINE	115.00
002	Avenue A	Avenue D	Avenue E	0.085	20	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
003	Avenue A	Avenue E	Avenue B	0.167	20	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	980.00
004	Avenue A	Avenue B	Second Street	0.038	20	CONCRETE	LOCAL	8.33	7.00	ROUTINE	156.00
005	Avenue A	Second Street	Avenue K	0.161	20	CONCRETE	LOCAL	9.68	6.00	ROUTINE+	1,417.00
012	Avenue B	Ardmore Blvd.	Avenue A	0.15	20	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	880.00
059	Avenue D	Avenue F	Avenue A	0.09	20	CONCRETE	LOCAL	8.33	7.00	ROUTINE	370.00
065	Avenue E	Avenue F	Avenue A	0.1	20	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
072	Avenue F	Municipal line	Avenue D	0.05	21	CONCRETE	MINOR	17.86	4.00	FULL DEPTH/OVERLAY	4,466.00
073	Avenue F	Avenue D	Avenue E	0.07	21	CONCRETE	MINOR	12.10	6.00	ROUTINE+	647.00
074	Avenue F	Avenue E	Avenue L	0.08	21	COMPOSITE	MINOR	12.10	6.00	PATCH/JT & CRK SEAL	788.00
075	Avenue F	Avenue L	Lebeau Drive	0.06	21	COMPOSITE	LOCAL	9.68	6.00	PATCH/JT & CRK SEAL	591.00
076	Avenue F	Lebeau Drive	Barclay Avenue	0.24	21	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	1,478.00
072	Avenue F	Municipal line	Avenue D	0.05	21	CONCRETE	MINOR	15.43	4.66	JOINT REPAIR GRIND	1,540.00
095	Avenue G	Avenue F	Dead end	0.04	20	HOT MIX	LOW USE	0.00	9.00	NO TREATMENT NEEDED	0.00
115	Avenue K	Ardmore Blvd	Avenue A	0.02	20	HOT MIX	MINOR	12.10	6.00	SEALCOAT	587.00
116	Avenue K	Avenue A	Avenue L	0.05	24	COMPOSITE	MINOR	12.10	6.00	PATCH/JT & CRK SEAL	563.00
117	Avenue K	Avenue L	Atlantic Avenue	0.04	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	1,408.00
119	Avenue L	Avenue F	Second Street	0.24	24	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	1,690.00
120	Avenue L	Second Street	Avenue K	0.1	24	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	704.00
013	Barclay Avenue	Avenue F	Perry Street	0.1	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
014	Barclay Avenue	Perry Street	Lenox Avenue	0.19	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
015	Barclay Avenue	Lenox Avenue	Marion Avenue	0.15	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
016	Barclay Avenue	Marion Avenue	Carl Avenue	0.05	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	9,856.00
017	Barclay Avenue	Carl Avenue	Decatur Avenue	0.04	24	HOT MIX	LOCAL	27.27	2.00	MILL & OVERLAY 3"	10,701.00
018	Barclay Avenue	Decatur Avenue	Sharon Drive	0.08	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	15,770.00
019	Barclay Avenue	Sharon Drive	Forest Ridge Rd	0.05	24	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	4,576.00
020	Barclay Avenue	Forest Ridge Rd	Virginia Avenue	0.08	24	CONCRETE	LOCAL	9.68	6.00	ROUTINE+	845.00
021	Barclay Avenue	Virginia Avenue	Arnold Avenue	0.17	24	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	15,558.00
022	Barclay Avenue	Arnold Avenue	Dead end	0.21	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	41,395.00
023	Batavia Road	Bevington Road	Berlin Road	0.069	16	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	324.00
024	Batavia Road	Berlin Road	Cascade Road	0.048	16	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	225.00
025	Berkley Avenue	Trenton Ave.	Cedar Ave.	0.219	20	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	16,702.00
026	Berlin Road	Batavia Road	Newport Road	0.05	18	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
027	Berlin Road	Newport Road	Braddock Road	0.09	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order		<i>(includes alleys for reference)</i>									
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
028	Bevington Road	Braddock Road	Batavia Road	0.06	18	COMPOSITE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
029	Bevington Road	Batavia Road	Burlington Rd.	0.04	18	COMPOSITE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
030	Bevington Road	Burlington Road	Norway Road	0.05	18	COMPOSITE	MAJOR	31.25	3.00	BASE RPR MILL/OVRLY	9,504.00
031	Bevington Road	Norway Road	Cascade Road	0.1	18	COMPOSITE	MAJOR	19.23	5.00	JT RPR & SEALCOAT	4,224.00
032	Bevington Road	Cascade Road	Castlegate Rd.	0.05	24	CONCRETE	MAJOR	13.89	7.00	ROUTINE	246.00
033	Bevington Road	Castlegate Rd.	Ardmore Blvd.	0.05	24	CONCRETE	MAJOR	13.89	7.00	ROUTINE	246.00
034	Braddock Road	Ridge Avenue	Fairview Road	0.07	24	COMPOSITE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
035	Braddock Road	Fairview Road	Chalet Drive	0.21	24	COMPOSITE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
035A	Braddock Road	Chalet Drive	Greensburg Pike	0.219	24	COMPOSITE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
036	Braddock Road	Ardmore Blvd.	Glasgow Road	0.32	22	HOT MIX	MAJOR	45.45	2.00	MILL & OVERLAY 3"	78,473.00
037	Braddock Road	Glasgow Road	Ridge Avenue	0.14	21	HOT MIX	MAJOR	19.23	5.00	THIN OVERLAY 1.5"	11,211.00
038	Bryn Mawr Road	Ardmore Blvd.	Sherwood Road	0.15	16	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
039	Burlington Road	Bevington Road	Norway Road	0.15	17	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
040	Burlington Road	Norway Road	Welington Road	0.07	17	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
040A	Cara Lin Drive	Greensburg Pk	Cul-de-sac	0.1	25	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	1,467.00
041	Carl Avenue	Barclay Avenue	Greensburg Pike	0.04	24	HOT MIX	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
042	Carmel Court	Filmore Road	Cul-de-sac	0.09	24	CONCRETE	LOCAL	18.75	3.00	FULL DEPTH/SLAB RPLC	19,388.00
042	Carmel Court	Filmore Road	Cul-de-sac	0.09	24	CONCRETE	LOCAL	15.04	3.79	FULL DEPTH/OVERLAY	9,187.00
043	Cascade Road	Fairfax Road	Braddock Road	0.37	16	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	1,737.00
044	Cascade Road	Braddock Road	Newport Road	0.093	24	COMPOSITE	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
045	Cascade Road	Newport Road	Batavia Road	0.09	24	COMPOSITE	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
046	Cascade Road	Batavia Road	Bevington Road	0.05	20	COMPOSITE	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
047	Cascade Road	Bevington Road	Lamarr Road	0.246	23	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
048	Cascade Road	Lamarr Road	Hawthorne Road	0.122	23	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
049	Cascade Road	Hawthorne Road	Edgewood Road	0.06	23	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
050	Castlegate Road	Bevington Road	Overdale Drive	0.23	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
051	Castlegate Road	Overdale Road	Hawthorne Road	0.12	21	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
052	Cedar Avenue	Lee Avenue	Berkley Avenue	0.058	20	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	4,423.00
053	Center Street	Municipal line	Kenmore Avenue	0.174	16	HOT MIX	LOW USE	0.00	9.00	NO TREATMENT NEEDED	0.00
054	Centurion Drive	Ardmore Blvd.	Dead end	0.14	24	HOT MIX	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
055	Chalet Drive	Braddock Road	Cul de sac	0.06	24	COMPOSITE	LOCAL	9.68	6.00	PATCH/JT & CRK SEAL	676.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order			<i>(includes alleys for reference)</i>								
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
056	Cherry Valley Road	Sherwood Road	Forest Hills Rd	0.04	16	COMPOSITE	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
057	Cherry Valley Road	Forest Hills Rd	Woodside Road	0.25	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
337	Circuit Lane	Lafayette Road	Overdale Road	0.166	12	HOT MIX	LOW USE	20.00	1.00	RECONSTRUCT	40,902.00
314	Clover Alley	Tulip Alley	Atlantic Avenue	0.074	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
315	Clover Alley	Atlantic Avenue	Decatur Avenue	0.156	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
316	Clover Alley	Decatur Avenue	Dead end	0.046	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
318	Clover Alley	Windsor Avenue	Barclay Avenue	0.053	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
058	Concord Road	Morrow Road	Dead end	0.07	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
060	Decatur Avenue	Rustic Alley	Sumner Avenue	0.027	15	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
061	Decatur Avenue	Sumner Avenue	Lenox Avenue	0.052	24	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
062	Decatur Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	9.68	6.00	ROUTINE+	1,478.00
063	Decatur Avenue	Marion Avenue	Barclay Avenue	0.18	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	6,336.00
064	Demmer Avenue	Marwood Avenue	Rockwood Avenue	0.09	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
064A	Dinell Drive	Brinton Road	Dead end	0.066	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
066	Edgewood Road	Wellington Road	Washington Road	0.38	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	74,906.00
067	Edgewood Road	Washington Road	Cascade Road	0.05	24	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	13,376.00
068	Edgewood Road	Cascade Road	Overdale Road	0.15	22	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	36,784.00
069	Edgewood Road	Overdale Road	Dead end	0.02	22	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	4,905.00
070	Elmore Road (north)	Dead end	Newport Road	0.14	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
071	Elmore Road (south)	Newport Road	Dead end	0.14	16	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
077	Fairfax Road	Brinton Road	Roxbury Raod	0.06	16	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	282.00
078	Fairfax Road	Roxbury Road	Cascade Road	0.4	16	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	1,877.00
079	Fairfax Road	Cascade Road	Ardmore Blvd.	0.06	16	COMPOSITE	MINOR	12.10	6.00	PATCH/JT & CRK SEAL	451.00
080	Fairview Road	Glasgow Road	Braddock Road	0.173	15	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
081	Fieldcrest Drive	Glasgow Road	Cul de sac	0.11	24	CONCRETE	LOCAL	27.27	2.00	RECONSTRUCT	51,110.00
082	Filmore Road	Ardmore Blvd.	Forest Glen Dr	0.2	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	1,408.00
083	Filmore Road	Forest Glen Dr	Geisler Drive	0.27	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	1,901.00
084	Filmore Road	Geisler Drive	Sharon Drive	0.19	24	CONCRETE	MAJOR	0.00	9.00	NO TREATMENT NEEDED	0.00
085	Filmore Road	Sharon Drive	Watt Lane	0.1	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	704.00
086	Filmore Road	Watt Lane	Carmel Court	0.08	24	CONCRETE	MAJOR	13.89	7.00	ROUTINE	394.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order		<i>(includes alleys for reference)</i>									
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
087	Filmore Road	Carmel Court	Partice Court	0.07	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	493.00
088	Filmore Road	Patrice Court	Bendview Drive	0.08	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	563.00
089	Filmore Road	Bendview Drive	Greensburg Pike	0.03	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	211.00
090	Forest Glen Drive	Filmore Road	Atlantic Avenue	0.08	24	CONCRETE	LOCAL	8.33	7.00	ROUTINE	394.00
091	Forest Hills Road	Dead end	Wilkins Road	0.08	16	OTHER	LOW USE	2.44	4.00	NO TREATMENT NEEDED	0.00
092	Forest Hills Road	Wilkins Road	Cherry Valley	0.09	18	OTHER	LOCAL	7.32	4.00	NO TREATMENT NEEDED	0.00
093	Forest Hills Road	Cherry Valley	Niagara Road	0.12	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
094	Forest Hills Road	Niagara Road	Woodside Road	0.16	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
094A	Forest Ridge Drive	Barclay Avenue	Cul de sac	0.266	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
096	Geisler Drive	Dead end	Roberta Drive	0.06	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	845.00
097	Geisler Drive	Roberta Drive	Williams Place	0.07	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	986.00
098	Geisler Drive	Williams Place	Maine Street	0.11	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	1,549.00
099	Geisler Drive	Maine Street	Filmore Road	0.05	24	HOT MIX	MINOR	17.86	4.00	THICK OVERLAY 3"	9,856.00
100	Glasgow Road	Braddock Road	Sherwood Road	0.06	21	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
101	Glasgow Road	Sherwood Road	Sheryl Lane	0.06	21	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
102	Glasgow Road	Sheryl Lane	Greenwood Road	0.11	21	HOT MIX	MINOR	10.42	7.00	CRACK SEAL	1,355.00
103	Glasgow Road	Greenwood Road	Fieldcrest Dr	0.04	21	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
104	Glasgow Road	Fieldcrest Dr	Sylvan Road	0.02	21	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
105	Glasgow Road	Sylvan Road	Hillcrest Road	0.06	21	HOT MIX	MINOR	10.42	7.00	CRACK SEAL	739.00
106	Glasgow Road	Hillcrest Road	Woodside Road	0.11	21	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
320	Glen Alley	Atlantic Avenue	Rose Alley	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
323	Glen Alley	Pacific Avenue	Lilac Alley	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
324	Glen Alley	Lilac Alley	Ogden Avenue	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
328	Glen Alley	Ogden Avenue	Decatur Avenue	0.052	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
330	Glen Alley	Decatur Avenue	Windsor Avenue	0.052	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
332	Glen Alley	Windsor Avenue	Barclay Avenue	0.052	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
107	Greenwood Road	Woodside Road	Glasgow Road	0.12	17	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
108	Halsey Avenue	Lenox Avenue	Marion Avenue	0.14	24	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
109	Halsey Avenue	Marion Avenue	Dead end	0.02	0	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
112A	Hawthorne Court	Hawthorne Road	Cul-de-sac	0.06	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,112.00
110	Hawthorne Road	Cascade Road	Hawthorne Court	0.04	20	COMPOSITE	LOCAL	11.54	5.00	JT RPR & SEALCOAT	1,877.00
111	Hawthorne Road	Hawthorne Court	Castlegate Road	0.03	20	COMPOSITE	LOCAL	11.54	5.00	JT RPR & SEALCOAT	1,408.00
112	Hawthorne Road	Castlegate Road	Overdale Road	0.1	22	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	24,523.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order			<i>(includes alleys for reference)</i>								
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
113	Hazel Place	Cul de sac	Maine Street	0.05	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	704.00
114	Hillcrest Road	Woodside Road	Glasgow Road	0.12	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
322	Ivy Alley	Rose Alley	Pacific Avenue	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
325	Ivy Alley	Pacific Avenue	Lilac Alley	0.025	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
326	Ivy Alley	Lilac Alley	Ogden Avenue	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
329	Ivy Alley	Ogden Avenue	Decatur Avenue	0.052	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
331	Ivy Alley	Decatur Avenue	Windsor Avenue	0.052	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
333	Ivy Alley	Windsor Avenue	Violet Alley	0.025	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
118	Kenmore Avenue	Rockwood Avenue	Ardmore Blvd.	0.18	20	OTHER	LOCAL	9.68	3.00	REPLACE LOST/BRK TMR	16,896.00
122	Lafayette Road	Dead end	Ardmore Blvd.	0.06	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
121	Lamarr Road	Washington Road	Cascade Road	0.04	24	CONCRETE	LOCAL	11.54	5.00	JOINT REPAIR GRIND	1,408.00
121	Lamarr Road	Washington Road	Cascade Road	0.04	24	CONCRETE	LOCAL	10.24	5.66	ROUTINE+	422.00
123	LeBeau Drive	Avenue F	Legrande Drive	0.17	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	5,984.00
124	LeBeau Drive	Legrande Drive	Greensburg Pike	0.06	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,112.00
124A	Lee Avenue	Cedar Avenue	Dead end	0.085	20	HOT MIX	LOCAL	12.00	5.00	THIN OVERLAY 1.5"	6,483.00
125	Legrande Drive	Cul de sac	LeBeau Drive	0.16	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	2,253.00
126	Lenox Avenue	Ardmore Blvd.	Halsey Avenue	0.04	24	COMPOSITE	MAJOR	16.13	6.00	PATCH/JT & CRK SEAL	451.00
127	Lenox Avenue	Halsey Avenue	Atlantic Avenue	0.05	24	COMPOSITE	MAJOR	16.13	6.00	PATCH/JT & CRK SEAL	563.00
128	Lenox Avenue	Atlantic Avenue	Pacific Avenue	0.053	24	COMPOSITE	MAJOR	16.13	6.00	PATCH/JT & CRK SEAL	597.00
129	Lenox Avenue	Pacific Avenue	Ogden Avenue	0.052	24	COMPOSITE	MAJOR	0.00	8.00	NO TREATMENT NEEDED	0.00
130	Lenox Avenue	Ogden Avenue	Decatur Avenue	0.052	24	COMPOSITE	MAJOR	0.00	8.00	NO TREATMENT NEEDED	0.00
131	Lenox Avenue	Decatur Avenue	Windsor Avenue	0.052	24	COMPOSITE	MAJOR	0.00	8.00	NO TREATMENT NEEDED	0.00
132	Lenox Avenue	Windsor Avenue	Barclay Avenue	0.052	24	COMPOSITE	MAJOR	0.00	8.00	NO TREATMENT NEEDED	0.00
133	Lenox Avenue	Barclay Avenue	Greensburg Pike	0.047	24	COMPOSITE	MAJOR	0.00	8.00	NO TREATMENT NEEDED	0.00
335	Leon Way	Newport Road	North dead end	0.183	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
336	Leon Way	Newport Road	South dead end	0.102	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
327	Lilac Alley	Glen Alley	Ivy Alley	0.094	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
338	Locust Lane	Lafayette Road	Overdale Road	0.076	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
134	Maine Street	Ridge Avenue	Hazel Place	0.07	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,464.00
135	Maine Street	Hazel Place	Geisler Drive	0.08	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,816.00
136	Marion Avenue	Ardmore Blvd.	Halsey Avenue	0.06	24	COMPOSITE	MAJOR	16.13	6.00	PATCH/JT & CRK SEAL	676.00
137	Marion Avenue	Halsey Avenue	Atlantic Avenue	0.05	24	COMPOSITE	MAJOR	16.13	6.00	PATCH/JT & CRK SEAL	563.00
138	Marion Avenue	Atlantic Avenue	Pacific Avenue	0.05	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	352.00

Forest Hills Borough								(2016 Illustration for 2015 Budget)			
All Roads in Alphabetical Order			<i>(includes alleys for reference)</i>								
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
139	Marion Avenue	Pacific Avenue	Ogden Avenue	0.05	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	352.00
140	Marion Avenue	Ogden Avenue	Decatur Avenue	0.05	24	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	352.00
141	Marion Avenue	Decatur Avenue	Windsor Avenue	0.05	23	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	337.00
142	Marion Avenue	Windsor Avenue	Barclay Avenue	0.05	23	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	337.00
143	Marion Avenue	Barclay Avenue	Greensburg Pike	0.04	23	COMPOSITE	MAJOR	13.89	7.00	JT & CRACK SEAL	270.00
144	Marwood Avenue	Municipal line	Radnor Avenue	0.17	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
145	Marwood Avenue	Radnor Avenue	Demmer Avenue	0.07	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
146	Morrow Road	Ardmore Blvd.	Sherwood Road	0.12	20	HOT MIX	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
147	Newport Road	Berlin Road	Cascade Road	0.1	16	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
148	Newport Road	Ardmore Blvd.	Elmore Road	0.08	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
149	Newport Road	Elmore Road	Sherwood Road	0.13	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
150	Niagara Road	Forest Hill Rd	Woodside Road	0.05	19	HOT MIX	LOCAL	27.27	2.00	MILL & OVERLAY 3"	10,589.00
151	Norway Road	Burlington Road	Washington Road	0.06	16	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
152	Norway Road	Washington Rd	Bevington Road	0.05	16	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
153	Ogden Avenue	Lenox Avenue	Marion Avenue	0.141	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
154	Overdale Drive	Castlegate Rd	Hawthorne Rd	0.27	22	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	66,211.00
155	Overdale Drive	Hawthorne Road	Edgewood Road	0.08	22	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	14,455.00
156	Pacific Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	18.75	3.00	FULL DEPTH/SLAB RPLC	30,159.00
157	Pacific Avenue	Marion Avenue	Sharon Drive	0.24	24	HOT MIX	LOCAL	9.84	6.00	SEALCOAT	8,448.00
156	Pacific Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	15.04	3.79	FULL DEPTH/OVERLAY	14,291.00
158	Parise Road	Ridge Avenue	Dead end	0.1	24	CONCRETE	LOCAL	9.68	6.00	ROUTINE+	1,056.00
159	Patrice Court	Filmore Road	Cul de sac	0.09	24	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
160	Perry Street	Barclay Avenue	Greensburg Pike	0.05	20	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
160M	Portage Lane	Rockwood Avenue	End	0.05	16	HOT MIX	LOW USE	0.00	9.00	NO TREATMENT NEEDED	0.00
161A	Radnor Alley	Marwood Avenue	Radnor Avenue	0.05	12	COMPOSITE	LOW USE	0.00	9.00	NO TREATMENT NEEDED	0.00
161	Radnor Avenue	Municipal line	Marwood Avenue	0.18	13	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
162	Ridge Avenue	Roberta Drive	Williams Place	0.07	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,464.00
163	Ridge Avenue	Williams Place	Maine Street	0.08	24	HOT MIX	LOCAL	9.68	6.00	SEALCOAT	2,816.00
164	Ridge Avenue	Maine Street	Ashely Court	0.02	20	HOT MIX	MINOR	10.42	7.00	CRACK SEAL	235.00
165	Ridge Avenue	Ashely Court	Parise Road	0.05	20	HOT MIX	MINOR	10.42	7.00	CRACK SEAL	587.00
166	Ridge Avenue	Parise Road	Braddock Road	0.15	23	HOT MIX	MINOR	10.42	7.00	CRACK SEAL	2,024.00
167	Roberta Drive	Dead end	Ridge Avenue	0.05	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
168	Roberta Drive	Ridge Avenue	Geisler Drive	0.11	24	HOT MIX	LOCAL	8.33	7.00	CRACK SEAL	1,549.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order			<i>(includes alleys for reference)</i>								
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
169	Rockwood Avenue	Kenmore Avenue	Yost Blvd.	0.07	18	HOT MIX	LOCAL	27.27	2.00	MILL & OVERLAY 3"	14,045.00
170	Rockwood Avenue	Yost Blvd.	Demmer Avenue	0.14	20	HOT MIX	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
171	Rockwood Avenue	Demmer Avenue	Ardmore Blvd.	0.07	20	HOT MIX	MINOR	0.00	9.00	NO TREATMENT NEEDED	0.00
321	Rose Alley	Glen Alley	Ivy Alley	0.093	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
172	Roxbury Road	Municipal line	Fairfax Road	0.15	16	COMPOSITE	LOCAL	8.33	7.00	JT & CRACK SEAL	704.00
306	Rustic Alley	Avenue K	Unnamed Alley	0.037	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
307	Rustic Alley	Unnamed alley	Atlantic Avenue	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
308	Rustic Alley	Atlantic Avenue	Decatur Avenue	0.153	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
173	Second Street	Avenue A	Avenue L	0.04	0	CONCRETE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
305	Service Road No 3	Avenue K	Second Street	0.146	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
300	Service Road No. 1	Avenue A	Avenue F	0.099	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
317	Service Road No. 10	Barclay Avenue	Windsor Avenue	0.047	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
301	Service Road No. 2	Avenue A	Avenue F	0.089	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
302	Service Road No. 3	Avenue L	Avenue F	0.249	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
304	Service Road No. 4	Avenue L	Dead end	0.041	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
303	Service Road No. 5	LeBeau Drive	Dead end	0.077	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
319	Service Road No. 7	Clover Alley	Dead end	0.046	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
174	Sharon Drive	Filmore Road	Pacific Avenue	0.5	24	COMPOSITE	LOCAL	14.29	4.00	JT RPR & OVERLAY	52,800.00
175	Sharon Drive	Pacific Avenue	Barclay Avenue	0.12	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	23,654.00
176	Sherwood Road	Municipal line	Bryn Mawr Road	0.12	21	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
177	Sherwood Road	Bryn Mawr Road	Cherry Valley R	0.04	16	COMPOSITE	LOCAL	0.00	8.00	NO TREATMENT NEEDED	0.00
178	Sherwood Road	Cherry Valley R	Wilkins Road	0.06	20	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	0.00
179	Sherwood Road	Wilkins Road	Newport Road	0.3	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
180	Sherwood Road	Newport Road	Glasgow Road	0.19	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
180A	Sheryl Lane	Glasgow Road	Cul de sac	0.214	24	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
181	Sumner Avenue	Ardmore Blvd.	Atlantic Avenue	0.11	24	COMPOSITE	MINOR	10.42	7.00	JT & CRACK SEAL	774.00
182	Sumner Avenue	Atlantic Avenue	Decatur Avenue	0.14	24	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
183	Sylvan Road	Woodside Road	Glasgow Road	0.14	19	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
043A	Sylvan Way	Braddock Road	Ardmore Blvd.	0.25	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
184	Tanglewood Drive	Cul de sac	Watt Lane	0.041	24	CONCRETE	LOCAL	14.29	4.00	FULL DEPTH/OVERLAY	4,185.00
184CUL	Tanglewood Drive	Cul-de-sac	Cul-de-sac	0.01	75	CONCRETE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
184	Tanglewood Drive	Cul de sac	Watt Lane	0.041	24	CONCRETE	LOCAL	12.35	4.66	JOINT REPAIR GRIND	1,443.00

Forest Hills Borough								(2014 Illustration for 2015 Budget)			
All Roads in Alphabetical Order		<i>(includes alleys for reference)</i>									
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
184m	Trenton Avenue	Ardmore Blvd.	Berkley Ave.	0.035	24	CONCRETE	LOCAL	8.57	7.00	ROUTINE	172.00
310	Tulip Alley	Marion Avenue	Ivy Alley	0.119	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
311	Tulip Alley	Ivy Alley	Lenox Avenue	0.027	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
312	Tulip Alley	Lenox Avenue	Clover Alley	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
313	Tulip Alley	Clover Alley	Sumner Avenue	0.026	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
309	Unnamed Alley	Rustic Alley	Dead end	0.039	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
334	Violet Alley	Ivy Alley	Dead end	0.034	0	HOT MIX	LOW USE	0.00	10.00	NO TREATMENT NEEDED	0.00
185	Virginia Avenue	Barclay Avenue	Greensburg Pike	0.04	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	7,885.00
186	Washington Road	Norway Road	Lamarr Road	0.29	21	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	23,223.00
187	Washington Road	Lamarr Road	Edgewood Road	0.2	24	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	18,304.00
188	Watt Lane	Filmore Road	Tanglewood Dr.	0.097	24	CONCRETE	LOCAL	11.54	5.00	JOINT REPAIR GRIND	3,414.00
188	Watt Lane	Filmore Road	Tanglewood Dr.	0.097	24	CONCRETE	LOCAL	10.24	5.66	ROUTINE+	1,024.00
189	Wellington Road	Brinton Road	Edgewood Road	0.05	18	HOT MIX	MINOR	17.86	4.00	THICK OVERLAY 3"	7,392.00
190	West Street	Avenue F	Greensburg Pike	0.37	22	HOT MIX	MINOR	0.00	10.00	NO TREATMENT NEEDED	0.00
191	Wilkins Road	Sherwood Road	Forest Hill Rd	0.04	24	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	7,885.00
192	Wilkins Road	Forest Hills Rd	Woodside Road	0.18	17	HOT MIX	LOCAL	14.29	4.00	THICK OVERLAY 3"	25,133.00
193	Williams Place	Ridge Avenue	Geisler Drive	0.1	24	HOT MIX	LOCAL	11.54	5.00	THIN OVERLAY 1.5"	9,152.00
194	Windsor Avenue	Cul de sac	Lenox Avenue	0.151	24	CONCRETE	LOCAL	18.75	3.00	FULL DEPTH/SLAB RPLC	32,529.00
195	Windsor Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	27.27	2.00	RECONSTRUCT	65,050.00
196	Windsor Avenue	Marion Avenue	Dead end	0.02	20	HOT MIX	LOCAL	18.75	3.00	MILL & OVERLAY 3"	4,459.00
194	Windsor Avenue	Cul de sac	Lenox Avenue	0.151	24	CONCRETE	LOCAL	15.04	3.79	FULL DEPTH/OVERLAY	15,414.00
197	Woodside Road	Niagara Road	Forest Hill Rd	0.2	18	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
198	Woodside Road	Forest Hills Rd	Cherry Valley	0.07	19	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
199	Woodside Road	Cherry Valley	Wilkins Road	0.16	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
200	Woodside Road	Wilkins Road	Greenwood Road	0.25	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
201	Woodside Road	Greenwood Road	Sylvan Road	0.05	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
202	Woodside Road	Sylvan Road	Hillcrest Road	0.06	16	COMPOSITE	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00
203	Woodside Road	Hillcrest Road	Glasgow Road	0.08	20	HOT MIX	LOCAL	0.00	9.00	NO TREATMENT NEEDED	0.00

Over the years, the PASER software itself will tweak the original PASER rating provided by borough personnel to allow for some annual deterioration in the road surface. Charts on the following pages explain the PASER rating number for asphalt and concrete streets respectively (Brick street ratings are not shown).

Note: Individual pavements will not have all of the types of distress listed for any particular rating.

ASPHALT-PASER RATING SYSTEM

Surface Rating	Visible Distress	General Condition/Treatment Measures
10 Excellent	None	New construction
9 Excellent	None	Recent overlay, like new
8 Very Good	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40' or greater). All cracks sealed or tight (open ¼" or less).	Recent seal coat or new road mix. Little or no maintenance required.
7 Good	Very slight or no ravelling, surface shows some traffic wear. Longitudinal cracks (open ¼") due to reflection or paving joints. Transverse cracks (open ¼") spaced 10 feet or more apart, little or slight crack ravelling. No patching or very few patches in excellent condition.	First signs of aging. Maintain with routine crack filling.
6 Good	Slight ravelling (loss of fines) and traffic wear Longitudinal cracks (open ¼"-½") due to reflection and paving joints. ¼ Transverse cracking (open ¼" to ½") some spaced less than 10 feet. First sign of block cracking Slight to moderate flushing or polishing. Occasional patching in good condition.	Show signs of aging, sound structural condition. Could extend life with seal coat.

Asphalt continued

Surface Rating	Visible Distress	General Condition/Treatment Measures
5 Fair	<p>Moderate to severe ravelling (loss of fine and coarse aggregate).</p> <p>Longitudinal and transverse cracks (open ½") show first signs of slight ravelling and secondary cracks. First signs of longitudinal cracks near pavement edge.</p> <p>Block cracking up to 50% of surface.</p> <p>Extensive to severe flushing or polishing. Some patching or edge wedging in good condition.</p>	<p>Surface aging, sound structural condition. Needs seal coat or nonstructural overlay.</p>
4 Fair	<p>Severe surface ravelling. Multiple longitudinal and transverse cracking with slight ravelling.</p> <p>Longitudinal cracking in wheel path Block cracking (over 50% of surface).</p> <p>Patching in fair condition.</p> <p>Slight rutting or distortions (½" deep or less).</p>	<p>Significant aging and first signs of need for strengthening. Would benefit from recycling or overlay.</p>
3 Poor	<p>Closely spaced longitudinal and transverse cracks often showing ravelling and crack erosion.</p> <p>Severe block cracking.</p> <p>Some alligator cracking (less than 25% of surface).</p> <p>Patches in fair to poor condition.</p> <p>Moderate rutting or distortion (1" or 2" deep) Occasional potholes.</p>	<p>Needs patching and major overlay or complete recycling.</p>
2 Very Poor	<p>Alligator cracking (over 25% of surface); Severe distortions (over 2" deep); Extensive patching in poor condition; Potholes.</p>	<p>Severe deterioration. Needs reconstruction with extensive base repair.</p>
1 Failed	<p>Severe distress with extensive loss of surface integrity.</p>	<p>Failed. Needs total reconstruction.</p>

CONCRETE-PASER RATING SYSTEM

Surface Rating	Visible Distress	General Condition/Treatment Measures
10 Excellent	None	New pavement. No maintenance required.
9 Excellent	Traffic wear in wheel path. Slight map cracking or pop-outs.	Recent concrete overlay or joint rehabilitation. Like new condition. No maintenance required.
8 Very Good	Pop-outs, map cracking, or minor surface defects. Slight surface scaling. Partial loss of joint sealant. Isolated meander cracks tight or well sealed. Isolated cracks at manholes, tight or well sealed.	More surface wear or slight defects. Little or no maintenance required.
7 Good	More extensive surface scaling. Some open joints. Isolated transverse or longitudinal cracks tight or well sealed. Some manhole displacement and cracking. First utility patch in good condition. First noticeable settlement or heave area	First sign of transverse cracks (all tight) first utility patch. More extensive surface scaling. Seal open joints and other routine maintenance
6 Good	Moderate scaling in several locations. A few isolated surface spalls. Shallow reinforcement causing cracks. Several corner cracks tight or well sealed. Open (1/4" wide) longitudinal or transverse joints and more frequent transverse cracks (some open 1/4")	First signs of shallow reinforcement or corner cracking. Needs general joint and crack sealing. Scaled areas could be overlaid.
5 Fair	Moderate to severe polishing or scaling over 25% of the surface. High reinforcing steel causing surface spalling. Some joints and cracks have begun spalling. First signs of joint or crack faulting (1/4"). Multiple corner cracks with broken pieces. Moderate settlement or frost heave areas. Patching showing distress	First signs of joint or crack spalling or faulting. Grind to repair surface defects. Some partial depth patching or joint repairs needed

Concrete continued

Surface Rating	Visible Distress	General Condition/Treatment Measures
4 Fair	Severe polishing scaling map cracking or spalling over 50% of the area. Joints and cracks show moderate to severe spalling. Pumping and faulting of joints (1/2") with fair ride. Several slabs have multiple transverse or meander cracks with moderate spalling. Spalled area broken into several pieces. Corner cracks with missing pieces or patches. Pavement blowups.	Needs some full depth repairs grinding and/or asphalt overlay to correct surface defects
3 Poor	Most joints and cracks are open with multiple parallel cracks severe spalling or faulting. D cracking is evident Severe faulting (1") giving poor ride. Extensive patching in fair to poor condition. Many transverse and meander cracks open and severely spalled.	Needs extensive full depth patching plus some full slab replacement
2 Very Poor	Extensive slab cracking severely spalled and patched. Joints failed Patching in very poor condition. Severe and extensive settlements or frost heaves.	Recycle and/or rebuild pavement
1 Failed	Restricted speed. Extensive potholes. Almost total loss of pavement integrity.	Total reconstruction

APPENDIX A: CORRECTIVE ACTION BUDGET

(Reprinted from the 2016 Budget booklet here for reference)

			Pre-Audit	
		2015	2015	2016
	<i>Capital 2</i>	Budget	Actual to 12/31/15	Budget
	Corrective Action Plan			
	Revenues			
19-341-011	Cap#2 Interest		403.93	150
19-342-141	Sewer Maint transfer to G.F.		0.00	
19-342-400	Vactor Truck & Camera Rental Fee (Forest Hills Share)	1,000	0.00	1,000
19-354-401	Grants		0.00	
19-364-012	ALCOSAN - SURCHARGE	665,000	670,873.60	665,000
19-364-013	Sewage treatment	1,045,613	931,193.23	1,184,675
19-364-014	ALCOSAN - billing reimb.	7,000	7,749.42	8,000
19-364-016	ALCOSAN - Penalty	15,000	24,259.17	16,000
19-380-000	MISCELLANEOUS CAPITAL (audit adjustment)		0.00	
19-380-212	Carry over from previous year (estimate)	175,000	1,141,255.33	598,706
19-392-001	Transfer from General Fund - ALCOSAN fees	0	0.00	0
			0.00	
19-392-002	Transfer from 2007 Bond Issue	0	0.00	0
19-392-003	Transfer from Cap 2		100,000.00	
	3RWWDP Grant Support for GPS Mapping	0	0	0
	TOTAL CAPITAL 2 REVENUES	1,908,613	2,875,735	2,473,531

		2015	Pre-Audit	
		Budget	2015	2016
	<i>Capital 2</i>		Actual to 12/31/15	Budget
	Corrective Action Plan			
	Expenditures			
19-429-140	Personnel Expenses (transfer to gen fund)	79,720	90,377.85	81,956
19-429-241	Sewer Billing Service Costs	7,400	4,319.84	7,400
19-429-310	Legal Expenses - Sewer Related	1,000	0.00	2,000
19-429-313	Engineer Expenses - Sewer Related	48,000	4,607.50	70,000
19-429-316	Dye Testing (move to General Fund - part of ordinance 964)		0.00	0
19-429-374	General Sewer Repairs	2,000	1,250.00	1,500
19-429-450	Corrective Action Plan Contingency	74,000	0.00	50,000
19-429-452	Corrective Action Plan Budget Reserve	100,000	100,000.00	290,000
19-429-141	Storm Sewer Maintenance (transfer to gen. fund)	118,000	6,549.39	120,000
19-429-459	ALCOSAN/Sewage Treatment	1,045,613	917,333.62	1,184,675
	<u>Sanitary Sewer Consent Decree Activities:</u>			
19-446-150	Physical Survey/Visual Inspection	0	26,330.00	0
19-446-160	Sewer Line Cleaning and CCTV Internal Inspection	40,000	4,125.00	40,000
19-446-170	Sewer System Mapping	1,880	5,378.75	10,000
19-446-180	Sanitary Sewer Dye Testing and Enforcement	0	0.00	0
19-446-181	Sanitary Sewer Deficiency Corrections (Continuing O & M)	338,000	435,228.42	100,000
19-446-182	Sanitary Sewer Overflow Response Plan		0.00	
19-446-185	Flow Monitoring	0	0.00	10,000
19-446-190	Flow Isolation Study	0	0.00	50,000
19-446-191	Feasibility Study in Conjunction with ALCOSAN (with EPA Enforcement Order)	0	8,386.25	0
19-446-192	Source Flow Reduction Demo. Project	0	0.00	100,000
19-446-194	Operation and Maintenance Program Plan	0	0.00	0
19-446-310	Reporting & Misc. - Source Flow Reduction Study	0	0.00	20,000
19-448-251	Avenue F Sewer Repairs/Avenues Sewer Repairs	0	0.00	90,000
19-448-252	Barclay Ave Project	0	0.00	50,000
19-448-253	Watt Lane Project	0	0.00	55,000
19-448-254	Ashley Court Project	0	0.00	50,000
19-448-255	Sewer System Related O & M	40,000	0.00	40,000
19-448-260	Vactor Truck & Camera service and repair	12,000	5,634.29	50,000
19-448-270	Employee Training/Certification	1,000	0.00	1,000
	TOTAL CAPITAL 2 EXPENSES	1,908,613	1,609,521	2,473,532

