

## THE 2010 ROAD IMPROVEMENT PROGRAM

The Road Improvement Program fund is maintained as part of the final plan in booklet form but shown separately and accounted for separately. In this portion of the book, we updated the PASER program (discussed further later) and included a summary of each road segment rating in the final document. Also, included here is a summary of the road rating system in this booklet.

Carryover dollars are estimated based on the collection rate for real estate tax over the last several months of 2009 (see complete budget on page 33 for items referred to here).

Available funds for 2010 will be affected by the borough's total assessed value as established by Allegheny County (see the 2010 budget booklet for details). Coupled with the increasing cost of fuel and oil prices that will affect asphalt costs, the number of street segments the borough will complete may be reduced in 2010 and future years.

I used the current 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 2% appeal rate.

Expenditures in the fund include those categories specified by council with a small contingency added should any legal costs be incurred.

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.

Crack sealing costs are shown for the first time in 2010 in a separate line item. They have been moved here from the general fund budget as a proper use of these funds. There are two reasons for this: it serves as a method of easing budget pressure as well as properly recognizing the need to maintain new roads by proper sealing procedures following a paving program.

In late 2006, staff began an update of the borough's pavement improvement program street ratings, something first started in 2003 for the last pavement program. This work will continue into early 2010 and future capital improvements plans will incorporate findings and updates from this program. 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 late 2009. Early in 2010 the engineer and foreman will review the list for any changes based on winter and other weather issues that may have affected and further degraded borough roads. Last year, we included a summary of the road rating system in this booklet and that is repeated in this document. As explained here, it should be stressed that PASER information/ratings in this document is preliminary.

Following the road improvement budget on the next page, a detailed description of the PASER system is provided along with an updated list of road ratings as of late 2009. 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 2010 or future paving program.



## PASERWARE PAVEMENT MANAGEMENT SOFTWARE

The Charts beginning on the following page provide a copy of the Paserware rating updated in late 2009. 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.). Therefore, Avenue A comes first but Avenue D is shown at the beginning of the roads whose name begins with the letter “D.” Alleys are generally the lowest priority in any pavement rating despite their condition and are not included in this list.

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 41 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.

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. 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 and the opinion of the elected officials.

<b>Forest Hills Borough</b>											
<b>All Roads in Alphabetical Order</b>											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
006	Arnold Avenue	Barclay Avenue	Greensburg Pike	0.06	24	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	\$0.00
005Z	Arnold Avenue	Barclay Avenue	Dead End	0.017	24	HOT MIX	LOW USE	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	7.22	NO TREATMENT NEEDED	\$0.00
007	Atlantic Avenue	Avenue K	Sumner Avenue	0.101	24	COMPOSITE	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
008	Atlantic Avenue	Sumner Avenue	Lenox Avenue	0.05	20	COMPOSITE	MINOR	42.13	1.58	BASE RPR MILL/OVRLY	\$12,907.00
009	Atlantic Avenue	Lenox Avenue	Marion Avenue	0.14	20	COMPOSITE	LOCAL	33.71	1.58	BASE RPR MILL/OVRLY	\$36,139.00
010	Atlantic Avenue	Marion Avenue	Forest Glen Dr.	0.24	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
011	Atlantic Avenue	Forest Glen Dr.	Dead end	0.16	24	CONCRETE	LOCAL	11.56	4.99	JOINT REPAIR GRIND	\$5,632.00
001	Avenue A	Dead end	Avenue D	0.028	20	CONCRETE	LOCAL	9.35	6.22	ROUTINE	\$115.00
002	Avenue A	Avenue D	Avenue E	0.085	20	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$499.00
003	Avenue A	Avenue E	Avenue B	0.167	20	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$1,568.00
004	Avenue A	Avenue B	Second Street	0.038	20	CONCRETE	LOCAL	9.35	6.22	ROUTINE	\$156.00
005	Avenue A	Second Street	Avenue K	0.161	20	CONCRETE	LOCAL	11.56	4.99	JOINT REPAIR GRIND	\$4,723.00
012	Avenue B	Ardmore Blvd.	Avenue A	0.15	20	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$1,408.00
059	Avenue D	Avenue F	Avenue A	0.09	20	CONCRETE	LOCAL	9.35	6.22	ROUTINE	\$370.00
065	Avenue E	Avenue F	Avenue A	0.1	20	COMPOSITE	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
072	Avenue F	Municipal line	Avenue D	0.05	21	CONCRETE	MINOR	21.01	3.37	FULL DEPTH/OVERLAY	\$4,466.00
073	Avenue F	Avenue D	Avenue E	0.07	21	CONCRETE	MINOR	14.45	4.99	JOINT REPAIR GRIND	\$2,156.00
074	Avenue F	Avenue E	Avenue L	0.08	21	COMPOSITE	MINOR	14.45	4.99	JT RPR & SEALCOAT	\$3,942.00
075	Avenue F	Avenue L	Lebeau Drive	0.06	21	COMPOSITE	LOCAL	11.56	4.99	JT RPR & SEALCOAT	\$2,957.00
076	Avenue F	Lebeau Drive	Barclay Avenue	0.24	21	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$2,365.00
095	Avenue G	Avenue F	Dead end	0.04	20	HOT MIX	LOW USE	5.62	1.58	MILL & OVERLAY 3"	\$8,917.00
115	Avenue K	Ardmore Blvd	Avenue A	0.02	20	HOT MIX	MINOR	13.84	5.22	SEALCOAT	\$587.00
116	Avenue K	Avenue A	Avenue L	0.05	24	COMPOSITE	MINOR	14.45	4.99	JT RPR & SEALCOAT	\$2,816.00
117	Avenue K	Avenue L	Atlantic Avenue	0.04	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$1,408.00
119	Avenue L	Avenue F	Second Street	0.24	24	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$2,703.00
120	Avenue L	Second Street	Avenue K	0.1	24	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$1,126.00
013	Barclay Avenue	Avenue F	Perry Street	0.1	20	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
014	Barclay Avenue	Perry Street	Lenox Avenue	0.19	24	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
015	Barclay Avenue	Lenox Avenue	Marion Avenue	0.15	20	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
016	Barclay Avenue	Marion Avenue	Carl Avenue	0.05	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$9,152.00
017	Barclay Avenue	Carl Avenue	Decatur Avenue	0.04	24	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$10,701.00
018	Barclay Avenue	Decatur Avenue	Sharon Drive	0.08	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$14,643.00
019	Barclay Avenue	Sharon Drive	Forest Ridge Rd	0.05	24	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$4,576.00

Forest Hills Borough											
All Roads in Alphabetical Order											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
020	Barclay Avenue	Forest Ridge Rd	Virginia Avenue	0.08	24	CONCRETE	LOCAL	11.56	4.99	JOINT REPAIR GRIND	\$2,816.00
021	Barclay Avenue	Virginia Avenue	Arnold Avenue	0.17	24	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$15,558.00
022	Barclay Avenue	Arnold Avenue	Dead end	0.21	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$38,438.00
023	Batavia Road	Bevington Road	Berlin Road	0.069	16	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$518.00
024	Batavia Road	Berlin Road	Cascade Road	0.048	16	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$360.00
025	Berkley Avenue	Trenton Ave.	Cedar Ave.	0.219	20	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$16,702.00
026	Berlin Road	Batavia Road	Newport Road	0.05	18	COMPOSITE	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
027	Berlin Road	Newport Road	Braddock Road	0.09	16	COMPOSITE	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
028	Bevington Road	Braddock Road	Batavia Road	0.06	18	COMPOSITE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
029	Bevington Road	Batavia Road	Burlington Rd.	0.04	18	COMPOSITE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
030	Bevington Road	Burlington Road	Norway Road	0.05	18	COMPOSITE	MAJOR	37.31	2.48	BASE RPR MILL/OVRLY	\$9,504.00
031	Bevington Road	Norway Road	Cascade Road	0.1	18	COMPOSITE	MAJOR	23.87	3.99	JT RPR & OVERLAY	\$7,920.00
032	Bevington Road	Cascade Road	Castlegate Rd.	0.05	24	CONCRETE	MAJOR	15.58	6.22	ROUTINE	\$246.00
033	Bevington Road	Castlegate Rd.	Ardmore Blvd.	0.05	24	CONCRETE	MAJOR	15.58	6.22	ROUTINE	\$246.00
034	Braddock Road	Ridge Avenue	Fairview Road	0.07	24	COMPOSITE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
035	Braddock Road	Fairview Road	Chalet Drive	0.21	24	COMPOSITE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
036	Braddock Road	Ardmore Blvd.	Glasgow Road	0.32	22	HOT MIX	MAJOR	37.31	2.48	MILL & OVERLAY 3"	\$70,212.00
037	Braddock Road	Glasgow Road	Ridge Avenue	0.14	21	HOT MIX	MAJOR	22.62	4.22	THIN OVERLAY 1.5"	\$11,211.00
035A	Braddock Road	Chalet Drive	Greensburg Pike	0.219	24	COMPOSITE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
038	Bryn Mawr Road	Ardmore Blvd.	Sherwood Road	0.15	16	COMPOSITE	LOCAL	22.39	2.48	BASE RPR MILL/OVRLY	\$25,344.00
039	Burlington Road	Bevington Road	Norway Road	0.15	17	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
040	Burlington Road	Norway Road	Welington Road	0.07	17	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
040A	Cara Lin Drive	Greensburg Pk	Cul-de-sac	0.1	25	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$1,467.00
041	Carl Avenue	Barclay Avenue	Greensburg Pike	0.04	24	HOT MIX	MINOR	0.00	8.00	NO TREATMENT NEEDED	\$0.00
042	Carmel Court	Filmore Road	Cul-de-sac	0.09	24	CONCRETE	LOCAL	21.58	2.58	FULL DEPTH/SLAB RPLC	\$19,388.00
043	Cascade Road	Fairfax Road	Braddock Road	0.37	16	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$2,778.00
044	Cascade Road	Braddock Road	Newport Road	0.093	24	CONCRETE	MINOR	26.98	2.58	FULL DEPTH/SLAB RPLC	\$20,034.00
045	Cascade Road	Newport Road	Batavia Road	0.09	24	CONCRETE	MINOR	26.98	2.58	FULL DEPTH/SLAB RPLC	\$19,388.00
046	Cascade Road	Batavia Road	Bevington Road	0.05	20	COMPOSITE	MINOR	10.43	6.99	JT & CRACK SEAL	\$293.00
047	Cascade Road	Bevington Road	Lamarr Road	0.246	23	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
048	Cascade Road	Lamarr Road	Hawthorne Road	0.122	23	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
049	Cascade Road	Hawthorne Road	Edgewood Road	0.06	23	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
050	Castlegate Road	Bevington Road	Overdale Drive	0.23	18	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$46,147.00
051	Castlegate Road	Overdale Road	Hawthorne Road	0.12	21	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$28,090.00
052	Cedar Avenue	Lee Avenue	Berkley Avenue	0.058	20	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$4,423.00
053	Center Street	Municipal line	Kenmore Avenue	0.174	16	HOT MIX	LOW USE	8.33	1.00	RECONSTRUCT	\$57,165.00
054	Centurion Drive	Ardmore Blvd.	Dead end	0.14	24	HOT MIX	MINOR	30.99	2.22	MILL & OVERLAY 3"	\$33,510.00
055	Chalet Drive	Braddock Road	Cul de sac	0.06	24	COMPOSITE	LOCAL	11.56	4.99	JT RPR & SEALCOAT	\$3,379.00
056	Cherry Valley Road	Sherwood Road	Forest Hills Rd	0.04	16	COMPOSITE	MINOR	17.90	3.99	JT RPR & OVERLAY	\$2,816.00
057	Cherry Valley Road	Forest Hills Rd	Woodside Road	0.25	16	COMPOSITE	LOCAL	14.32	3.99	JT RPR & OVERLAY	\$17,600.00

<b>Forest Hills Borough</b>											
<b>All Roads in Alphabetical Order</b>											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
058	Concord Road	Morrow Road	Dead end	0.07	24	CONCRETE	LOCAL	16.81	3.37	FULL DEPTH/OVERLAY	\$7,146.00
060	Decatur Avenue	Rustic Alley	Sumner Avenue	0.027	15	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$119.00
061	Decatur Avenue	Sumner Avenue	Lenox Avenue	0.052	24	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$366.00
062	Decatur Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	11.56	4.99	JOINT REPAIR GRIND	\$4,928.00
063	Decatur Avenue	Marion Avenue	Barclay Avenue	0.18	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$6,336.00
064	Demmer Avenue	Marwood Avenue	Rockwood Avenue	0.09	20	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
064A	Dinell Drive	Brinton Road	Dead end	0.066	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
066	Edgewood Road	Wellington Road	Washington Road	0.38	24	HOT MIX	LOCAL	16.30	3.48	THICK OVERLAY 3"	\$69,555.00
067	Edgewood Road	Washington Road	Cascade Road	0.05	24	HOT MIX	LOCAL	22.39	2.48	MILL & OVERLAY 3"	\$11,968.00
068	Edgewood Road	Cascade Road	Overdale Road	0.15	22	HOT MIX	LOCAL	22.39	2.48	MILL & OVERLAY 3"	\$32,912.00
069	Edgewood Road	Overdale Road	Dead end	0.02	22	HOT MIX	LOCAL	22.39	2.48	MILL & OVERLAY 3"	\$4,388.00
070	Elmore Road (north)	Dead end	Newport Road	0.14	20	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$31,211.00
071	Elmore Road (south)	Newport Road	Dead end	0.14	16	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
077	Fairfax Road	Brinton Road	Roxbury Raod	0.06	16	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$451.00
078	Fairfax Road	Roxbury Road	Cascade Road	0.4	16	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$3,004.00
079	Fairfax Road	Cascade Road	Ardmore Blvd.	0.06	16	COMPOSITE	MINOR	14.45	4.99	JT RPR & SEALCOAT	\$2,253.00
080	Fairview Road	Glasgow Road	Braddock Road	0.173	15	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
081	Fieldcrest Drive	Glasgow Road	Cul de sac	0.11	24	CONCRETE	LOCAL	33.71	1.58	RECONSTRUCT	\$51,110.00
082	Filmore Road	Ardmore Blvd.	Forest Glen Dr	0.2	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$2,253.00
083	Filmore Road	Forest Glen Dr	Geisler Drive	0.27	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$3,041.00
084	Filmore Road	Geisler Drive	Sharon Drive	0.19	24	CONCRETE	MAJOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
085	Filmore Road	Sharon Drive	Watt Lane	0.1	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$1,126.00
086	Filmore Road	Watt Lane	Carmel Court	0.08	24	CONCRETE	MAJOR	15.58	6.22	ROUTINE	\$394.00
087	Filmore Road	Carmel Court	Partice Court	0.07	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$788.00
088	Filmore Road	Patrice Court	Bendview Drive	0.08	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$901.00
089	Filmore Road	Bendview Drive	Greensburg Pike	0.03	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$338.00
090	Forest Glen Drive	Filmore Road	Atlantic Avenue	0.08	24	CONCRETE	LOCAL	9.35	6.22	ROUTINE	\$394.00
091	Forest Hills Road	Dead end	Wilkins Road	0.08	16	OTHER	LOW USE	1.62	2.99	REPLACE LOST/BRK TMR	\$6,007.00
092	Forest Hills Road	Wilkins Road	Cherry Valley	0.09	18	OTHER	LOCAL	9.71	2.99	REPLACE LOST/BRK TMR	\$7,603.00
093	Forest Hills Road	Cherry Valley	Niagara Road	0.12	18	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$24,077.00
094	Forest Hills Road	Niagara Road	Woodside Road	0.16	18	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
094A	Forest Ridge Drive	Barclay Avenue	Cul de sac	0.266	24	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$71,160.00
096	Geisler Drive	Dead end	Roberta Drive	0.06	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$845.00
097	Geisler Drive	Roberta Drive	Williams Place	0.07	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$986.00
098	Geisler Drive	Williams Place	Maine Street	0.11	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$1,549.00
099	Geisler Drive	Maine Street	Filmore Road	0.05	24	HOT MIX	MINOR	21.93	3.22	THICK OVERLAY 3"	\$9,152.00
100	Glasgow Road	Braddock Road	Sherwood Road	0.06	21	HOT MIX	MINOR	0.00	7.22	NO TREATMENT NEEDED	\$0.00
101	Glasgow Road	Sherwood Road	Sheryl Lane	0.06	21	HOT MIX	MINOR	0.00	7.22	NO TREATMENT NEEDED	\$0.00
102	Glasgow Road	Sheryl Lane	Greenwood Road	0.11	21	HOT MIX	MINOR	11.68	6.22	CRACK SEAL	\$1,355.00
103	Glasgow Road	Greenwood Road	Fieldcrest Dr	0.04	21	HOT MIX	MINOR	0.00	7.22	NO TREATMENT NEEDED	\$0.00

Forest Hills Borough											
All Roads in Alphabetical Order											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
104	Glasgow Road	Fieldcrest Dr	Sylvan Road	0.02	21	HOT MIX	MINOR	0.00	7.22	NO TREATMENT NEEDED	\$0.00
105	Glasgow Road	Sylvan Road	Hillcrest Road	0.06	21	HOT MIX	MINOR	11.68	6.22	CRACK SEAL	\$739.00
106	Glasgow Road	Hillcrest Road	Woodside Road	0.11	21	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
107	Greenwood Road	Woodside Road	Glasgow Road	0.12	17	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$22,739.00
108	Halsey Avenue	Lenox Avenue	Marion Avenue	0.14	24	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$986.00
109	Halsey Avenue	Marion Avenue	Dead end	0.02	0	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
112A	Hawthorne Court	Hawthorne Road	Cul-de-sac	0.06	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,112.00
110	Hawthorne Road	Cascade Road	Hawthorne Court	0.04	20	COMPOSITE	LOCAL	14.32	3.99	JT RPR & OVERLAY	\$3,520.00
111	Hawthorne Road	Hawthorne Court	Castlegate Road	0.03	20	COMPOSITE	LOCAL	14.32	3.99	JT RPR & OVERLAY	\$2,640.00
112	Hawthorne Road	Castlegate Road	Overdale Road	0.1	22	HOT MIX	LOCAL	22.39	2.48	MILL & OVERLAY 3"	\$21,941.00
113	Hazel Place	Cul de sac	Maine Street	0.05	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$704.00
114	Hillcrest Road	Woodside Road	Glasgow Road	0.12	20	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$26,752.00
118	Kenmore Avenue	Rockwood Avenue	Ardmore Blvd.	0.18	20	OTHER	LOCAL	14.35	1.99	RECONSTRUCT	\$42,240.00
122	Lafayette Road	Dead end	Ardmore Blvd.	0.06	24	HOT MIX	LOCAL	24.79	2.22	MILL & OVERLAY 3"	\$14,362.00
121	Lamarr Road	Washington Road	Cascade Road	0.04	24	CONCRETE	LOCAL	14.32	3.99	FULL DEPTH/OVERLAY	\$4,083.00
123	LeBeau Drive	Avenue F	Legrande Drive	0.17	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$5,984.00
124	LeBeau Drive	Legrande Drive	Greensburg Pike	0.06	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,112.00
124A	Lee Avenue	Cedar Avenue	Dead end	0.085	20	HOT MIX	LOCAL	14.22	4.22	THIN OVERLAY 1.5"	\$6,483.00
125	Legrande Drive	Cul de sac	LeBeau Drive	0.16	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$2,253.00
126	Lenox Avenue	Ardmore Blvd.	Halsey Avenue	0.04	24	COMPOSITE	MAJOR	19.27	4.99	JT RPR & SEALCOAT	\$2,253.00
127	Lenox Avenue	Halsey Avenue	Atlantic Avenue	0.05	24	COMPOSITE	MAJOR	19.27	4.99	JT RPR & SEALCOAT	\$2,816.00
128	Lenox Avenue	Atlantic Avenue	Pacific Avenue	0.053	24	COMPOSITE	MAJOR	19.27	4.99	JT RPR & SEALCOAT	\$2,985.00
129	Lenox Avenue	Pacific Avenue	Ogden Avenue	0.052	24	COMPOSITE	MAJOR	13.91	6.99	JT & CRACK SEAL	\$366.00
130	Lenox Avenue	Ogden Avenue	Decatur Avenue	0.052	24	COMPOSITE	MAJOR	13.91	6.99	JT & CRACK SEAL	\$366.00
131	Lenox Avenue	Decatur Avenue	Windsor Avenue	0.052	24	COMPOSITE	MAJOR	13.91	6.99	JT & CRACK SEAL	\$366.00
132	Lenox Avenue	Windsor Avenue	Barclay Avenue	0.052	24	COMPOSITE	MAJOR	13.91	6.99	JT & CRACK SEAL	\$366.00
133	Lenox Avenue	Barclay Avenue	Greensburg Pike	0.047	24	COMPOSITE	MAJOR	13.91	6.99	JT & CRACK SEAL	\$331.00
134	Maine Street	Ridge Avenue	Hazel Place	0.07	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,464.00
135	Maine Street	Hazel Place	Geisler Drive	0.08	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,816.00
136	Marion Avenue	Ardmore Blvd.	Halsey Avenue	0.06	24	COMPOSITE	MAJOR	19.27	4.99	JT RPR & SEALCOAT	\$3,379.00
137	Marion Avenue	Halsey Avenue	Atlantic Avenue	0.05	24	COMPOSITE	MAJOR	19.27	4.99	JT RPR & SEALCOAT	\$2,816.00
138	Marion Avenue	Atlantic Avenue	Pacific Avenue	0.05	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$563.00
139	Marion Avenue	Pacific Avenue	Ogden Avenue	0.05	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$563.00
140	Marion Avenue	Ogden Avenue	Decatur Avenue	0.05	24	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$563.00
141	Marion Avenue	Decatur Avenue	Windsor Avenue	0.05	23	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$540.00
142	Marion Avenue	Windsor Avenue	Barclay Avenue	0.05	23	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$540.00
143	Marion Avenue	Barclay Avenue	Greensburg Pike	0.04	23	COMPOSITE	MAJOR	16.16	5.99	PATCH/JT & CRK SEAL	\$432.00
144	Marwood Avenue	Municipal line	Radnor Avenue	0.17	20	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
145	Marwood Avenue	Radnor Avenue	Demmer Avenue	0.07	20	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00

Forest Hills Borough											
All Roads in Alphabetical Order											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
146	Morrow Road	Ardmore Blvd.	Sherwood Road	0.12	20	HOT MIX	MINOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
147	Newport Road	Berlin Road	Cascade Road	0.1	16	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
148	Newport Road	Ardmore Blvd.	Elmore Road	0.08	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
149	Newport Road	Elmore Road	Sherwood Road	0.13	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
150	Niagara Road	Forest Hill Rd	Woodside Road	0.05	19	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$10,589.00
151	Norway Road	Burlington Road	Washington Road	0.06	16	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
152	Norway Road	Washington Rd	Bevington Road	0.05	16	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
153	Ogden Avenue	Lenox Avenue	Marion Avenue	0.141	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
154	Overdale Drive	Castlegate Rd	Hawthorne Rd	0.27	22	HOT MIX	LOCAL	22.39	2.48	MILL & OVERLAY 3"	\$59,242.00
155	Overdale Drive	Hawthorne Road	Edgewood Road	0.08	22	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$13,423.00
156	Pacific Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	21.58	2.58	FULL DEPTH/SLAB RPLC	\$30,159.00
157	Pacific Avenue	Marion Avenue	Sharon Drive	0.24	24	HOT MIX	LOCAL	11.28	5.22	SEALCOAT	\$8,448.00
158	Parise Road	Ridge Avenue	Dead end	0.1	24	CONCRETE	LOCAL	11.56	4.99	JOINT REPAIR GRIND	\$3,520.00
159	Patrice Court	Filmore Road	Cul de sac	0.09	24	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$634.00
160	Perry Street	Barclay Avenue	Greensburg Pike	0.05	20	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$469.00
160M	Portage Lane	Rockwood Avenue	End	0.05	16	ROAD MIX	LOW USE	7.30	1.37	MILL & OVERLAY 3"	\$8,917.00
161A	Radnor Alley	Marwood Avenue	Radnor Avenue	0.05	12	COMPOSITE	LOW USE	0.00	8.32	NO TREATMENT NEEDED	\$0.00
161	Radnor Avenue	Municipal line	Marwood Avenue	0.18	13	COMPOSITE	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
162	Ridge Avenue	Roberta Drive	Williams Place	0.07	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,464.00
163	Ridge Avenue	Williams Place	Maine Street	0.08	24	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,816.00
164	Ridge Avenue	Maine Street	Ashely Court	0.02	20	HOT MIX	MINOR	11.68	6.22	CRACK SEAL	\$235.00
165	Ridge Avenue	Ashely Court	Parise Road	0.05	20	HOT MIX	MINOR	11.68	6.22	CRACK SEAL	\$587.00
166	Ridge Avenue	Parise Road	Braddock Road	0.15	23	HOT MIX	MINOR	11.68	6.22	CRACK SEAL	\$2,024.00
167	Roberta Drive	Dead end	Ridge Avenue	0.05	24	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
168	Roberta Drive	Ridge Avenue	Geisler Drive	0.11	24	HOT MIX	LOCAL	9.35	6.22	CRACK SEAL	\$1,549.00
169	Rockwood Avenue	Kenmore Avenue	Yost Blvd.	0.07	18	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$14,045.00
170	Rockwood Avenue	Yost Blvd.	Demmer Avenue	0.14	20	HOT MIX	MINOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
171	Rockwood Avenue	Demmer Avenue	Ardmore Blvd.	0.07	20	HOT MIX	MINOR	0.00	7.99	NO TREATMENT NEEDED	\$0.00
172	Roxbury Road	Municipal line	Fairfax Road	0.15	16	COMPOSITE	LOCAL	9.69	5.99	PATCH/JT & CRK SEAL	\$1,126.00
173	Second Street	Avenue A	Avenue L	0.04	0	CONCRETE	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
174	Sharon Drive	Filmore Road	Pacific Avenue	0.5	24	COMPOSITE	LOCAL	17.54	3.22	JT RPR & OVERLAY	\$52,800.00
175	Sharon Drive	Pacific Avenue	Barclay Avenue	0.12	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$21,965.00
176	Sherwood Road	Municipal line	Bryn Mawr Road	0.12	21	HOT MIX	LOCAL	0.00	7.22	NO TREATMENT NEEDED	\$0.00
177	Sherwood Road	Bryn Mawr Road	Cherry Valley R	0.04	16	COMPOSITE	LOCAL	8.34	6.99	JT & CRACK SEAL	\$188.00
178	Sherwood Road	Cherry Valley R	Wilkins Road	0.06	20	HOT MIX	MINOR	0.00	7.22	NO TREATMENT NEEDED	\$0.00
179	Sherwood Road	Wilkins Road	Newport Road	0.3	18	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
180	Sherwood Road	Newport Road	Glasgow Road	0.19	18	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
180A	Sheryl Lane	Glasgow Road	Cul de sac	0.214	24	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
181	Sumner Avenue	Ardmore Blvd.	Atlantic Avenue	0.11	24	COMPOSITE	MINOR	12.12	5.99	PATCH/JT & CRK SEAL	\$1,239.00
182	Sumner Avenue	Atlantic Avenue	Decatur Avenue	0.14	24	COMPOSITE	LOCAL	33.71	1.58	BASE RPR MILL/OVRLY	\$43,366.00

Forest Hills Borough											
All Roads in Alphabetical Order											
ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
183	Sylvan Road	Woodside Road	Glasgow Road	0.14	19	HOT MIX	LOCAL	0.00	7.99	NO TREATMENT NEEDED	\$0.00
043A	Sylvan Way	Braddock Road	Ardmore Blvd.	0.25	16	COMPOSITE	LOCAL	0.00	8.32	NO TREATMENT NEEDED	\$0.00
184	Tanglewood Drive	Cul de sac	Watt Lane	0.041	24	CONCRETE	LOCAL	15.87	3.58	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
184m	Trenton Avenue	Ardmore Blvd.	Berkley Ave.	0.035	24	CONCRETE	LOCAL	9.65	6.22	ROUTINE	\$172.00
185	Virginia Avenue	Barclay Avenue	Greensburg Pike	0.04	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$7,322.00
186	Washington Road	Norway Road	Lamarr Road	0.29	21	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$23,223.00
187	Washington Road	Lamarr Road	Edgewood Road	0.2	24	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$18,304.00
188	Watt Lane	Filmore Road	Tanglewood Dr.	0.097	24	CONCRETE	LOCAL	13.27	4.32	JOINT REPAIR GRIND	\$3,414.00
189	Welington Road	Brinton Road	Edgewood Road	0.05	18	HOT MIX	MINOR	21.93	3.22	THICK OVERLAY 3"	\$6,864.00
190	West Street	Avenue F	Greensburg Pike	0.37	22	HOT MIX	MINOR	42.13	1.58	MILL & OVERLAY 3"	\$90,734.00
191	Wilkins Road	Sherwood Road	Forest Hill Rd	0.04	24	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$7,322.00
192	Wilkins Road	Forest Hills Rd	Woodside Road	0.18	17	HOT MIX	LOCAL	17.54	3.22	THICK OVERLAY 3"	\$23,338.00
193	Williams Place	Ridge Avenue	Geisler Drive	0.1	24	HOT MIX	LOCAL	13.57	4.22	THIN OVERLAY 1.5"	\$9,152.00
194	Windsor Avenue	Cul de sac	Lenox Avenue	0.151	24	CONCRETE	LOCAL	21.58	2.58	FULL DEPTH/SLAB RPLC	\$32,529.00
195	Windsor Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	33.71	1.58	RECONSTRUCT	\$65,050.00
196	Windsor Avenue	Marion Avenue	Dead end	0.02	20	HOT MIX	LOCAL	24.79	2.22	MILL & OVERLAY 3"	\$3,989.00
197	Woodside Road	Niagara Road	Forest Hill Rd	0.2	18	HOT MIX	LOCAL	33.71	1.58	MILL & OVERLAY 3"	\$40,128.00
198	Woodside Road	Forest Hills Rd	Cherry Valley	0.07	19	HOT MIX	LOCAL	0.00	8.00	NO TREATMENT NEEDED	\$0.00
199	Woodside Road	Cherry Valley	Wilkins Road	0.16	16	COMPOSITE	LOCAL	33.71	1.58	BASE RPR MILL/OVRLY	\$33,041.00
200	Woodside Road	Wilkins Road	Greenwood Road	0.25	16	COMPOSITE	LOCAL	33.71	1.58	BASE RPR MILL/OVRLY	\$51,627.00
201	Woodside Road	Greenwood Road	Sylvan Road	0.05	16	COMPOSITE	LOCAL	17.54	3.22	JT RPR & OVERLAY	\$3,520.00
202	Woodside Road	Sylvan Road	Hillcrest Road	0.06	16	COMPOSITE	LOCAL	17.54	3.22	JT RPR & OVERLAY	\$4,224.00
203	Woodside Road	Hillcrest Road	Glasgow Road	0.08	20	HOT MIX	LOCAL	11.07	5.22	SEALCOAT	\$2,347.00

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

<b>Surface Rating</b>	<b>Visible Distress</b>	<b>General Condition/Treatment Measures</b>
<b>10 Excellent</b>	None	New construction
<b>9 Excellent</b>	None	Recent overlay, like new
<b>8 Very Good</b>	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.
<b>7 Good</b>	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.
<b>6 Good</b>	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
<b>5 Fair</b>	<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>
<b>4 Fair</b>	<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>
<b>3 Poor</b>	<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>
<b>2 Very Poor</b>	<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>
<b>1 Failed</b>	<p>Severe distress with extensive loss of surface integrity.</p>	<p>Failed. Needs total reconstruction.</p>

**Concrete**

<b>Surface Rating</b>	<b>Visible Distress</b>	<b>General Condition/Treatment Measures</b>
<b>10 Excellent</b>	None	New pavement. No maintenance required.
<b>9 Excellent</b>	Traffic wear in wheel path. Slight map cracking or pop-outs.	Recent concrete overlay or joint rehabilitation. Like new condition. No maintenance required.
<b>8 Very Good</b>	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.
<b>7 Good</b>	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
<b>6 Good</b>	Moderate scaling in several locations. A few isolated surface spalls. Shallow reinforcement causing cracks. Several corner cracks tight or well sealed. Open (¼" wide) longitudinal or transverse joints and more frequent transverse cracks (some open ¼")	First signs of shallow reinforcement or corner cracking. Needs general joint and crack sealing. Scaled areas could be overlaid.
<b>5 Fair</b>	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 (¼"). 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
<b>4 Fair</b>	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
<b>3 Poor</b>	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
<b>2 Very Poor</b>	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
<b>1 Failed</b>	Restricted speed. Extensive potholes. Almost total loss of pavement integrity.	Total reconstruction

APPENDIX A: CORRECTIVE ACTION BUDGET

*(Reprinted from the 2010 Budget booklet here for reference)*

Corrective Action Revenues

<b>Borough of Forest Hills</b>		<b>FINAL</b>	12/16/2009		
<b>2010 Budget</b>					
			Pre-Audit		
		2009	2009	2010	2011
	<i>Capital 2</i>	Budget	Actual to 12/31/09	Budget	Budget
	<b>Corrective Action Plan</b>				
	<b>Revenues</b>				
19-341-011	Cap#2 Interest				
19-342-400	Vactor Truck & Camera Rental Fee (Forest Hills Share)	1,000	-240	1,000	1,000
19-354-401	Grants				
19-364-012	ALCOSAN - SURCHARGE	550,000	432,981	550,000	550,000
19-364-013	Sewage treatment	792,287	663,436	848,171	848,000
19-364-014	ALCOSAN - billing reimb.				
19-364-016	ALCOSAN - Penalty				
19-380-000	MISCELLANEOUS CAPITAL (audit adjustment)				
19-380-212	Carry over from previous year (estimate)	400,000	489,437	200,000	0
19-392-001	Transfer from General Fund - ALCOSAN fees	0	0	0	0
	Transfer from 2002 Bond Issue				
	3RWWDP Grant Support for GPS Mapping	0	0	0	0
	<b>TOTAL CAPITAL 2 REVENUES</b>	<b>1,743,287</b>	<b>1,585,614</b>	<b>1,599,171</b>	<b>1,399,000</b>

Corrective Action Expenditures

<b>Borough of Forest Hills</b>		<b>FINAL</b>	12/16/2009		
<b>2010 Budget</b>					
			Pre-Audit		
		2009	2009	2010	2011
	<i>Capital 2</i>	Budget	Actual to 12/31/09	Budget	Budget
	<b>Corrective Action Plan</b>				
	<b>Expenditures</b>				
19-429-140	Personnel Expenses (transfer to gen fund)	129,577	160,899	122,842	135,410
19-429-241	Sewer Billing Service Costs	12,000	9,264	10,000	10,000
19-429-310	Legal Expenses - Sewer Related	2,000	0	1,000	1,000
19-429-313	Engineer Expenses - Sewer Related	5,000	24,745	4,000	5,000
19-429-316	Dye Testing (move to General Fund - part of ordinance 964)		0		
19-429-374	General Sewer Repairs	12,000	0	5,000	5,000
19-429-450	Corrective Action Plan Contingency	158,149	0	9,987	20,000
19-429-141	Storm Sewer Maintenance (transfer to gen. fund)	10,000	0	9,000	15,000
19-429-459	ALCOSAN/Sewage Treatment	792,287	658,235	848,171	848,000
	<u>Sanitary Sewer Consent Decree Activities:</u>				
19-446-150	Physical Survey/Visual Inspection	2,846	0	4,554	0
19-446-160	Sewer Line Cleaning and CCTV Internal Inspection	16,774	27,288	60,226	11,361
19-446-170	Sewer System Mapping	6,552	15,815	6,804	2,436
19-446-180	Sanitary Sewer Dye Testing and Enforcement	1,250	1,896	1,250	1,200
19-446-181	Sanitary Sewer Deficiency Corrections (Health Dept. Order)	500,610	353,238	346,270	246,520
19-446-183	Hydraulic Design Capacity Evaluation	6,500	0	0	0
19-446-184	System Hydraulic Characterization	0	0	0	0
19-446-182	Sanitary Sewer Overflow Response Plan		0	0	
19-446-185	Flow Monitoring	8,300	5,739	0	0
19-446-190	Flow Monitoring Plan to ALCOSAN	0	0	0	0
19-446-192	Flow Monitoring Plan to ACHD	0	0	0	0
19-446-191	Feasibility Study in Conjunction with ALCOSAN (with EPA Enforcement Order)	50,000	10,248	143,072	65,550
19-446-193	Facility Design and Planning in Conjunction with ALCOSAN (without EPA Enforcement O	0	229	250	250
19-446-194	Operation and Maintenance Program Plan	6,500	1,578	6,500	0
19-446-195	Nine Minimum Controls	0	0	0	0
19-446-310	Reporting & Misc.	8,142	0	9,445	2,273
19-448-251	Avenue F Sewer Repairs/Avenues Sewer Repairs	0	0	0	0
19-448-252	Avenue A/Glasgow Storm Sewers Repair (completed '04)	0	0	0	0
19-448-253	Filmore Road Storm Sewer extension (completed '04)	0	0	0	0
19-448-254	Sherwood Road Sewer Lining (include with deficiency corrections)	0	0	0	0
19-448-260	Vactor Truck & Camera service and repair	14,000	7,534	10,000	20,000
19-448-270	Employee Training/Certification	800	0	800	10,000
19-448-313	Engineering/Inspection ('07 - include with above projects)	0	1,095	0	0
	<b>TOTAL CAPITAL 2 EXPENSES</b>	<b>1,743,287</b>	<b>1,277,804</b>	<b>1,599,171</b>	<b>1,399,000</b>

## APPENDIX B: PASERWARE PAVEMENT IMPROVEMENT PROGRAM EXAMPLE

As an example, the chart that follows is taken from a PASER calculation illustrating a ranking of the worst roads in a simulated 5 year paving program costing approximately \$250,000 per year. The list includes estimated costs based solely on numbers provided in the 2009 paving contract. Costs are likely to increase in 2010.

## Pavement Program Example from Paserware

Borough of Forest Hills												12/1/2009
Roads Sorted on Priority - 5 Year Plan Example												
Year	ID	Street	From	To	Length (miles)	Width (feet)	Surface Type	Classification	PASER Priority	PASER Rating	Treatment	Estimated Cost
2010	008	Atlantic Avenue	Sumner Avenue	Lenox Avenue	0.05	20	COMPOSITE	MINOR	42.13483	1.58	BASE RPR MILL/OVRLY	\$12,907.00
2010	030	Bevington Road	Burlington Road	Norway Road	0.05	18	COMPOSITE	MAJOR	37.31343	2.48	BASE RPR MILL/OVRLY	\$9,504.00
2010	036	Braddock Road	Ardmore Blvd.	Glasgow Road	0.32	22	HOT MIX	MAJOR	37.31343	2.48	MILL & OVERLAY 3"	\$70,212.00
2010	051	Castlegate Road	Overdale Road	Hawthorne Road	0.12	21	HOT MIX	LOCAL	33.70786	1.58	MILL & OVERLAY 3"	\$28,090.00
2010	107	Greenwood Road	Woodside Road	Glasgow Road	0.12	17	HOT MIX	LOCAL	33.70786	1.58	MILL & OVERLAY 3"	\$22,739.00
2010	138	Marion Avenue	Atlantic Avenue	Pacific Avenue	0.05	24	COMPOSITE	MAJOR	16.15509	5.99	PATCH/JT & CRK SEAL	\$563.00
2010	139	Marion Avenue	Pacific Avenue	Ogden Avenue	0.05	24	COMPOSITE	MAJOR	16.15509	5.99	PATCH/JT & CRK SEAL	\$563.00
2010	141	Marion Avenue	Decatur Avenue	Windsor Avenue	0.05	23	COMPOSITE	MAJOR	16.15509	5.99	PATCH/JT & CRK SEAL	\$540.00
2010	169	Rockwood Avenue	Kenmore Avenue	Yost Blvd.	0.07	18	HOT MIX	LOCAL	33.70786	1.58	MILL & OVERLAY 3"	\$14,045.00
2010	190	West Street	Avenue F	Greensburg Pike	0.37	22	HOT MIX	MINOR	42.13483	1.58	MILL & OVERLAY 3"	\$90,734.00
2011	104	Glasgow Road	Fieldcrest Dr	Sylvan Road	0.02	21	HOT MIX	MINOR	10.86957	6.70	CRACK SEAL	\$246.00
2011	089	Filmore Road	Bendview Drive	Greensburg Pike	0.03	24	COMPOSITE	MAJOR	17.09402	5.65	PATCH/JT & CRK SEAL	\$338.00
2011	093	Forest Hills Road	Cherry Valley	Niagara Road	0.12	18	HOT MIX	LOCAL	38.21656	1.37	MILL & OVERLAY 3"	\$24,077.00
2011	114	Hillcrest Road	Woodside Road	Glasgow Road	0.12	20	HOT MIX	LOCAL	38.21656	1.37	MILL & OVERLAY 3"	\$26,752.00
2011	126	Lenox Avenue	Ardmore Blvd.	Halsey Avenue	0.04	24	COMPOSITE	MAJOR	20.61856	4.65	JT RPR & SEALCOAT	\$2,253.00
2011	150	Niagara Road	Forest Hill Rd	Woodside Road	0.05	19	HOT MIX	LOCAL	38.21656	1.37	MILL & OVERLAY 3"	\$10,589.00
2011	182	Sumner Avenue	Atlantic Avenue	Decatur Avenue	0.14	24	COMPOSITE	LOCAL	38.21656	1.37	BASE RPR MILL/OVRLY	\$43,366.00
2011	195	Windsor Avenue	Lenox Avenue	Marion Avenue	0.14	24	CONCRETE	LOCAL	38.21656	1.37	RECONSTRUCT	\$65,050.00
2011	196	Windsor Avenue	Marion Avenue	Dead end	0.02	20	HOT MIX	LOCAL	27.77778	1.96	MILL & OVERLAY 3"	\$4,459.00
2011	197	Woodside Road	Niagara Road	Forest Hill Rd	0.2	18	HOT MIX	LOCAL	38.21656	1.37	MILL & OVERLAY 3"	\$40,128.00
2011	199	Woodside Road	Cherry Valley	Wilkins Road	0.16	16	COMPOSITE	LOCAL	38.21656	1.37	BASE RPR MILL/OVRLY	\$33,041.00
2012	009	Atlantic Avenue	Lenox Avenue	Marion Avenue	0.14	20	COMPOSITE	LOCAL	44.11765	1.16	BASE RPR MILL/OVRLY	\$36,139.00
2012	017	Barclay Avenue	Carl Avenue	Decatur Avenue	0.04	24	HOT MIX	LOCAL	44.11765	1.16	MILL & OVERLAY 3"	\$10,701.00
2012	050	Castlegate Road	Bevington Road	Overdale Drive	0.23	18	HOT MIX	LOCAL	44.11765	1.16	MILL & OVERLAY 3"	\$46,147.00
2012	070	Elmore Road (north)	Dead end	Newport Road	0.14	20	HOT MIX	LOCAL	44.11765	1.16	MILL & OVERLAY 3"	\$31,211.00
2012	094A	Forest Ridge Drive	Barclay Avenue	Cul de sac	0.266	24	HOT MIX	LOCAL	44.11765	1.16	MILL & OVERLAY 3"	\$71,160.00
2012	137	Marion Avenue	Halsey Avenue	Atlantic Avenue	0.05	24	COMPOSITE	MAJOR	22.17295	4.31	JT RPR & SEALCOAT	\$2,816.00
2012	200	Woodside Road	Wilkins Road	Greenwood Road	0.25	16	COMPOSITE	LOCAL	44.11765	1.16	BASE RPR MILL/OVRLY	\$51,627.00
2013	029	Bevington Road	Batavia Road	Burlington Rd.	0.04	18	COMPOSITE	MAJOR	13.947	6.97	JT & CRACK SEAL	\$211.00
2013	038	Bryn Mawr Road	Ardmore Blvd.	Sherwood Road	0.15	16	COMPOSITE	LOCAL	30.76923	1.75	BASE RPR MILL/OVRLY	\$30,976.00
2013	044	Cascade Road	Braddock Road	Newport Road	0.093	24	CONCRETE	MINOR	34.88372	1.95	RECONSTRUCT	\$43,212.00
2013	045	Cascade Road	Newport Road	Batavia Road	0.09	24	CONCRETE	MINOR	34.88372	1.95	RECONSTRUCT	\$41,818.00
2013	054	Centurion Drive	Ardmore Blvd.	Dead end	0.14	24	HOT MIX	MINOR	43.10345	1.54	MILL & OVERLAY 3"	\$37,453.00
2013	067	Edgewood Road	Washington Road	Cascade Road	0.05	24	HOT MIX	LOCAL	30.76923	1.75	MILL & OVERLAY 3"	\$13,376.00
2013	069	Edgewood Road	Overdale Road	Dead end	0.02	22	HOT MIX	LOCAL	30.76923	1.75	MILL & OVERLAY 3"	\$4,905.00
2013	081	Fieldcrest Drive	Glasgow Road	Cul de sac	0.11	24	CONCRETE	LOCAL	50	1.00	RECONSTRUCT+	\$61,952.00
2013	122	Lafayette Road	Dead end	Ardmore Blvd.	0.06	24	HOT MIX	LOCAL	34.48276	1.54	MILL & OVERLAY 3"	\$16,051.00
2014	031	Bevington Road	Norway Road	Cascade Road	0.1	18	COMPOSITE	MAJOR	31.74603	2.95	BASE RPR MILL/OVRLY	\$19,008.00
2014	068	Edgewood Road	Cascade Road	Overdale Road	0.15	22	HOT MIX	LOCAL	34.48276	1.54	MILL & OVERLAY 3"	\$36,784.00
2014	072	Avenue F	Municipal line	Avenue D	0.05	21	CONCRETE	MINOR	27.47253	2.53	FULL DEPTH/SLAB RPLC	\$9,425.00
2014	099	Geisler Drive	Maine Street	Filmore Road	0.05	24	HOT MIX	MINOR	31.5126	2.18	MILL & OVERLAY 3"	\$11,968.00
2014	112	Hawthorne Road	Castlegate Road	Overdale Road	0.1	22	HOT MIX	LOCAL	34.48276	1.54	MILL & OVERLAY 3"	\$24,523.00
2014	140	Marion Avenue	Ogden Avenue	Decatur Avenue	0.05	24	COMPOSITE	MAJOR	20.70394	4.63	JT RPR & SEALCOAT	\$2,816.00
2014	154	Overdale Drive	Castlegate Rd	Hawthorne Rd	0.27	22	HOT MIX	LOCAL	34.48276	1.54	MILL & OVERLAY 3"	\$66,211.00
2014	161A	Radnor Alley	Marwood Avenue	Radnor Avenue	0.05	12	COMPOSITE	LOW USE	1.416431	6.96	JT & CRACK SEAL	\$176.00
2014	189	Wellington Road	Brinton Road	Edgewood Road	0.05	18	HOT MIX	MINOR	31.5126	2.18	MILL & OVERLAY 3"	\$8,976.00
2014	194	Windsor Avenue	Cul de sac	Lenox Avenue	0.151	24	CONCRETE	LOCAL	30.92784	1.74	RECONSTRUCT	\$70,161.00