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March 21, 2024

S. O. No. 253-200

VIA EMAIL ONLY
(cmfoote@csboro.org)

Mr. C. Michael Foote, MPA
Borough Manager
Borough of Castle Shannon
3310 McRoberts Road
Castle Shannon, Pennsylvania 15234-2711

Subject: 5-Year Roadway Improvement Plan (2024-2028)

Dear Mr. Foote:

As requested per our meeting in February 2024, LSSE has prepared the 5-Year Roadway Improvement Plan (2024-2028) for the Borough of Castle Shannon. Transmitted herewith is a copy of the Opinion of Probable Cost including a location map.

Should you have any questions, please contact David L. Kovac, E.I.T., directly (Ext. 235).

Sincerely,

Jason E. Stanton, P.E.

JES/nwg

Attachments

cc/att: Loretta Miller, Assistant Borough Manager - Castle Shannon Borough (lmiller@csboro.org)

CASTLE SHANNON BOROUGH

FIVE YEAR PAVING PLAN (2024-2028)

OPINION OF PROBABLE COST

DATED: MARCH 20, 2024

2024 ROAD PROGRAM PAVING PLAN

STREET NUMBER	STREET NAME	TERMINI		SCOPE OF WORK	LENGTH (FEET)	AVG. WIDTH (FEET)	RADIUS (SY)	TOTAL (SY) ON STREET	ROADWAY TOTAL	ROADWAY TOTAL PLUS 15% CONTIGENCY
1	EDGEWOOD AVENUE	FROM:	BOROUGH BORDER	4" MILL, 2.5" BINDER, 1.5" WEARING	765	20	25	1,725	$69,820	$80,293
		TO:	WABASH AVENUE							
2	NEWPORT DRIVE	FROM:	BOROUGH BORDER	4" MILL, 2.5" BINDER, 1.5" WEARING	570	22	50	1,443	$58,902	$67,737
		TO:	MAPLENE AVENUE							
3	MARTHA STREET	FROM:	MAY STREET	2" MILL, 0.75" SCRATCH, 1.5" WEARING	462	25	125	1,408	$56,701	$65,206
		TO:	MCROBERTS ROAD							
4	MCROBERTS ROAD	FROM:	6TH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	229	23	75	660	$27,622	$31,765
		TO:	BOROUGH BORDER							
5	6TH STREET	FROM:	MAY STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	950	24	25	2,558	$115,244	$132,531
		TO:	BELLEVILE STREET							
6	OAK DRIVE	FROM:	SYCAMORE DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	940	20	25	2,114	$85,006	$97,757
		TO:	TRANCE DRIVE							
			TOTALS:		**3,916**			**9,909**	**$413,295**	**$475,289**

CASTLE SHANNON BOROUGH

FIVE YEAR PAVING PLAN (2024-2028)

OPINION OF PROBABLE COST

DATED: MARCH 20, 2024

2025 ROAD PROGRAM PAVING PLAN

STREET NUMBER	STREET NAME	TERMINI		SCOPE OF WORK	LENGTH (FEET)	AVG. WIDTH (FEET)	RADIUS (SY)	TOTAL (SY) ON STREET	ROADWAY TOTAL	ROADWAY TOTAL PLUS 15% CONTIGENCY
1	GROVE ROAD	FROM:	LIBRARY ROAD	4" MILL, 2.5" BINDER, 1.5" WEARING	2,750	21	350	6,767	$294,612	$338,804
		TO:	BOROUGH BORDER							
2	GROVETON STREET	FROM:	GROVE ROAD	4" MILL, 2.5" BINDER, 1.5" WEARING	604	21	25	1,434	$60,530	$69,610
		TO:	DEAD END							
3	MCCULLY ROAD	FROM:	LIBRARY ROAD	4" MILL, 2.5" BINDER, 1.5" WEARING	311	21	25	751	$32,923	$37,861
		TO:	STEIGER ST							
4	GREEN COURT	FROM:	SAXONWALD LANE	4" MILL, 2.5" BINDER, 1.5" WEARING	480	21	50	1,170	$48,014	$55,216
		TO:	DEAD END							
			TOTALS:		**4,145**			**10,122**	**$436,079**	**$501,491**

CASTLE SHANNON BOROUGH

FIVE YEAR PAVING PLAN (2024-2028)

OPINION OF PROBABLE COST

DATED: MARCH 20, 2024

2026 ROAD PROGRAM PAVING PLAN

STREET NUMBER	STREET NAME	TERMINI		SCOPE OF WORK	LENGTH (FEET)	AVG. WIDTH (FEET)	RADIUS (SY)	TOTAL (SY) ON STREET	ROADWAY TOTAL	ROADWAY TOTAL PLUS 15% CONTIGENCY
1	LAUREL AVENUE	FROM:	MYRTLE AVENUE	4" MILL, 2.5" BINDER, 1.5" WEARING	414	21	25	991	$41,600	$47,840
		TO:	LINDEN AVENUE							
2	MYRTLE AVENUE	FROM:	PINE AVENUE	4" MILL, 2.5" BINDER, 1.5" WEARING	750	25	25	2,108	$90,476	$104,047
		TO:	CHESNUT AVENUE							
3	SPRUCE STREET	FROM:	MYRTLE AVENUE	4" MILL, 2.5" BINDER, 1.5" WEARING	550	18	25	1,125	$46,309	$53,255
		TO:	SHADY LANE							
4	SLEEPY HOLLOW ROAD	FROM:	LINDENWOOD DISTR.	4" MILL, 2.5" BINDER, 1.5" WEARING	126	23	25	347	$18,629	$21,423
		TO:	MT. LEBANON BORDER							
5	LONDONDERRY DRIVE	FROM:	KILLARNEY DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	1,109	22	25	2,736	$114,816	$132,038
		TO:	WATERFORD DRIVE							
6	WATERFORD DRIVE	FROM:	LONDONDERRY DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	327	25	25	933	$38,988	$44,836
		TO:	KERRY HILL DRIVE							
7	EDGEWOOD AVENUE	FROM:	GLEN SHANNON DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	750	25	25	2,108	$85,676	$98,527
		TO:	HOUSE NO. 748							
			TOTALS:		**4,026**			**10,349**	**$436,494**	**$501,968**

CASTLE SHANNON BOROUGH

FIVE YEAR PAVING PLAN (2024-2028)

OPINION OF PROBABLE COST

DATED: MARCH 20, 2024

2027 ROAD PROGRAM PAVING PLAN

STREET NUMBER	STREET NAME	TERMINI		SCOPE OF WORK	LENGTH (FEET)	AVG. WIDTH (FEET)	RADIUS (SY)	TOTAL (SY) ON STREET	ROADWAY TOTAL	ROADWAY TOTAL PLUS 15% CONTIGENCY
1	MCROBERTS ROAD	FROM:	HAVELOCK STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	2,100	22	150	5,283	$217,845	$250,522
		TO:	MAGNOLIA DRIVE							
2	HOME AVENUE	FROM:	6TH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	412	24	25	1,124	$45,426	$52,240
		TO:	BOROUGH LINE							
3	CANBET DRIVE	FROM:	6TH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	300	18	25	625	$26,559	$30,543
		TO:	DEAD END							
4	KILLARNEY DRIVE	FROM:	GLEN SHANNON DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	575	21	25	1,367	$59,126	$67,995
		TO:	LONDONDERRY DRIVE							
5	MARY PLACE	FROM:	OAK DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	225	21	215	740	$29,893	$34,377
		TO:	CUL-DE-SAC							
6	TRANCE DRIVE	FROM:	MCROBERTS ROAD	4" MILL, 2.5" BINDER, 1.5" WEARING	1,140	20	75	2,608	$102,756	$118,169
		TO:	MARY PLACE							
			TOTALS:		**4,752**			**11,747**	**$481,605**	**$553,846**

CASTLE SHANNON BOROUGH

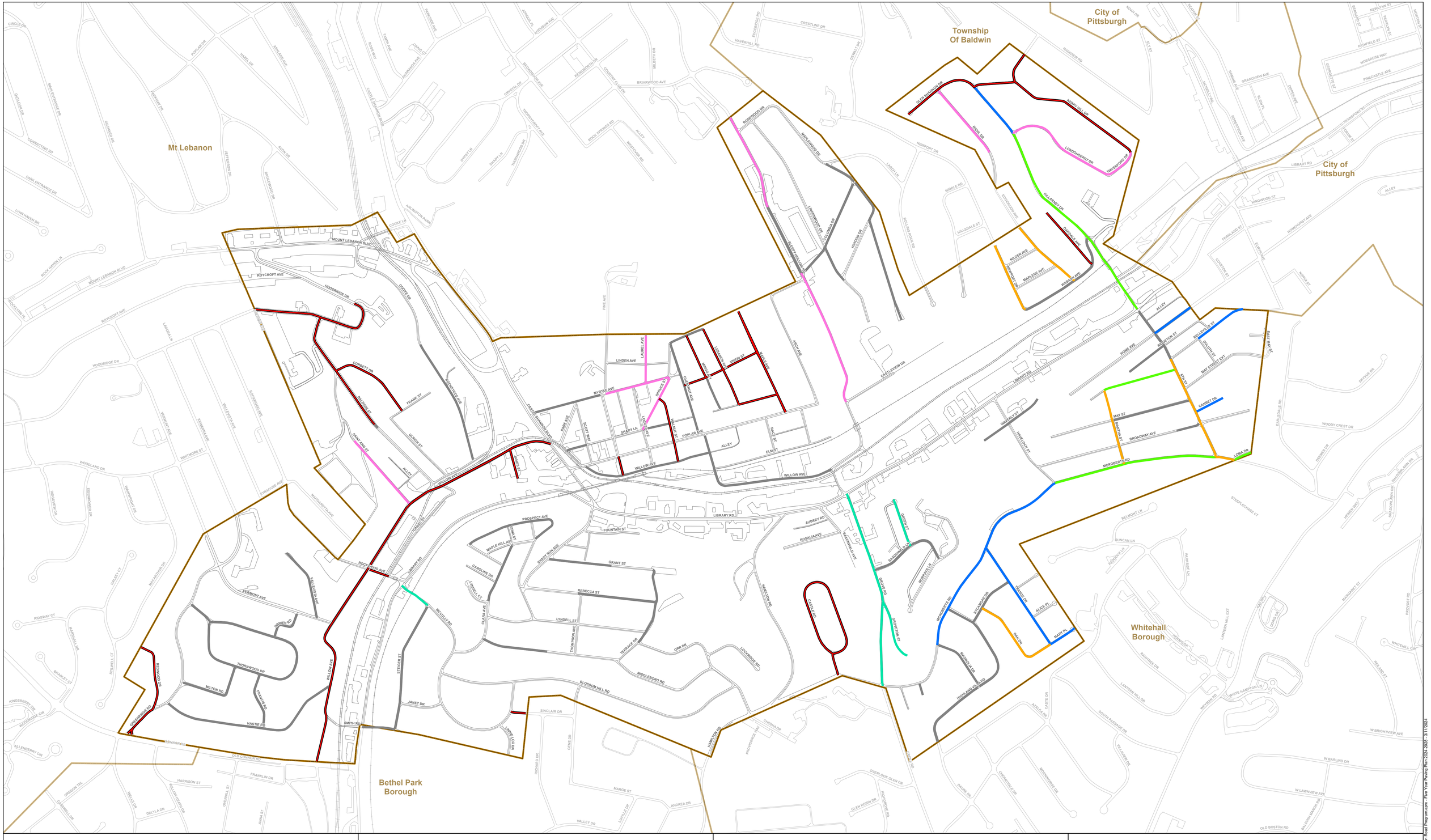
FIVE YEAR PAVING PLAN (2024-2028)

OPINION OF PROBABLE COST

DATED: MARCH 20, 2024

2028 ROAD PROGRAM PAVING PLAN

STREET NUMBER	STREET NAME	TERMINI		SCOPE OF WORK	LENGTH (FEET)	AVG. WIDTH (FEET)	RADIUS (SY)	TOTAL (SY) ON STREET	ROADWAY TOTAL	ROADWAY TOTAL PLUS 15% CONTIGENCY
1	MCROBERTS ROAD	FROM:	6TH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	1,600	23	25	4,114	$175,382	$201,689
		TO:	HAVELOCK STREET							
2	LOMA DRIVE	FROM:	MCROBERTS ROAD	4" MILL, 2.5" BINDER, 1.5" WEARING	180	24	25	505	$21,488	$24,711
		TO:	DEAD END							
3	KILLARNEY DRIVE	FROM:	LONDONDERRY DRIVE	4" MILL, 2.5" BINDER, 1.5" WEARING	2,150	21	25	5,042	$199,824	$229,798
		TO:	LIBRARY ROAD							
4	BELLEVILLE STREET	FROM:	DULUTH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	365	18	25	755	$32,532	$37,412
		TO:	BOROUGH BORDER							
5	BELLEVILLE STREET	FROM:	6TH STREET	4" MILL, 2.5" BINDER, 1.5" WEARING	700	18	25	1,425	$57,699	$66,354
		TO:	MARTHA STREET							
			TOTALS:		**4,995**			**11,841**	**$486,925**	**$559,964**



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CASTLE SHANNON BOROUGH

Road Improvements

- 2023/24/25 Utility Company
- 2024
- 2025
- 2026
- 2027
- 2028
- 2023-2018

Five Year Paving Plan
2024-2028
Castle Shannon Borough
3310 McRoberts Road
Castle Shannon, PA 15234

Path: N:\PRO\2503\GIS\Road Program\apx - Five Year Paving Plan 2024-2028 - 3/11/2024

BOROUGH OF CASTLE SHANNON

APPENDIX C - ROAD RATING TABLE A

ALL ROADS

PREPARED BY: LSSE CIVIL ENGINEERS AND SURVEYORS

DATED: MARCH 2024

2024	2025	2026	2027	2028	2029
2023/24/25 Utility Company					

STREET RATING	WEIGHTED STREET RATING	YEAR LAST RESURFACED	PROPOSED PAVING YEAR	ROADWAY NAME	COLLECTOR/LOCAL	TERMINI	
						FROM:	TO:
3	2.22	2003	2024	6th Street	Collector	Canbet Drive	Broadway Avenue
3	2.64	2007	Utility Company Paving	Sinclair Drive	Local	McCully Road	Bethel Park Borough Line
3	2.76	1998	2024	Edgewood Avenue	Local	Nilden Avenue	Maplene Avenue
4	3.10	2000	2024	6th Street	Collector	Broadway Avenue	McRoberts Road
4	3.18	2003	2027	Killarney Drive	Collector	Glen Shannon Drive	Londonderry Drive
4	3.18	2009	2028	Killarney Drive	Collector	Londonderry Drive	Wabash Avenue
4	3.22	2010	2024	McRoberts Road	Collector	Loma Street	6th Street
4	3.22	2011	2027	McRoberts Road	Collector	Trance Drive	Highland Villa Drive
4	3.22	2011	2027	McRoberts Road	Collector	Highland Villa Drive	Magnolia Drive
4	3.30	2012	2025	Grove Road	Collector	Saxonwald Lane	Groveton Street
4	3.30	2016	Utility Company Paving	Willow Avenue	Collector	Rockwood Avenue	Saint Ann Street
4	3.30	2016	Utility Company Paving	Willow Avenue	Collector	Saint Anne Street	Canal Street
4	3.38	2003	2024	6th Street	Collector	May Street	Canbet Drive
4	3.56	2004	2024	Oak Drive	Local	Sycamore Drive	Trance Drive
4	3.68	1998	2024	Edgewood Avenue	Local	Maplene Avenue	Wabash Avenue
4	3.76	2000	2025	Groveton Street	Local	Grove Road	Dead End
4	3.76	2002	Utility Company Paving	Oakdale Drive	Local	Edgewood Avenue	Dead End
4	3.80	2006	2026	Waterford Drive	Local	Londonderry Drive	Kerry Hill Drive

BOROUGH OF CASTLE SHANNON

APPENDIX C - ROAD RATING TABLE A

ALL ROADS

PREPARED BY: LSSE CIVIL ENGINEERS AND SURVEYORS

DATED: MARCH 2024

2024	2025	2026	2027	2028	2029

2023/24/25 Utility Company

STREET RATING	WEIGHTED STREET RATING	YEAR LAST RESURFACED	PROPOSED PAVING YEAR	ROADWAY NAME	COLLECTOR/LOCAL	TERMINI	
						FROM:	TO:
4	3.88	2004	2029	St. Ann Street	Local	Willow Avenue	Castle Ridge Apartments
5	3.85	2014	2026	Myrtle Avenue	Collector	Pine Avenue	Locust Avenue
5	3.94	1994	2025	McCully Road	Collector	Library Road	Steiger Street
5	4.01	2014	2026	Myrtle Avenue	Collector	Locust Avenue	Laurel Avenue
5	4.01	2014	2026	Myrtle Avenue	Collector	Laurel Avenue	Spruce Street
5	4.09	2014	2026	Myrtle Avenue	Collector	Spruce Street	Chestnut Avenue
5	4.18	2017	2027	McRoberts Road	Collector	Havelock Street	Trance Drive
5	4.22	2019	2024	6th Street	Collector	Belleville Street	May Street Extension
5	4.22	2003	2024	6th Street	Collector	May Street Extension	May Street
5	4.22	2014	2028	McRoberts Road	Collector	6th Street	Martha Street
5	4.22	2001	Utility Company Paving	Rockwood Avenue	Collector	Canal Street	Library Road
5	4.26	2014	2028	McRoberts Road	Collector	Martha Street	Havelock Street
5	4.26	2001	Utility Company Paving	Rockwood Avenue	Collector	Willow Avenue	Canal Street
5	4.30	2014	Utility Company Paving	Greenridge Road	Collector	Redwood Drive	Connor Road
5	4.34	2012	2025	Grove Road	Collector	Library Road	Saxonwald Lane
5	4.34	2012	2025	Grove Road	Collector	Groveton Street	McRoberts Road
5	4.34	1998	2025	Grove Road	Collector	McRoberts Road	Borough Line
5	4.34	2012	2026	Sleepy Hollow Road	Collector	Mt. Lebanon Township Line	Rosewood Drive

BOROUGH OF CASTLE SHANNON

APPENDIX C - ROAD RATING TABLE A

ALL ROADS

PREPARED BY: LSSE CIVIL ENGINEERS AND SURVEYORS

DATED: MARCH 2024

2024	2025	2026	2027	2028	2029
2023/24/25 Utility Company					

STREET RATING	WEIGHTED STREET RATING	YEAR LAST RESURFACED	PROPOSED PAVING YEAR	ROADWAY NAME	COLLECTOR/LOCAL	TERMINI	
						FROM:	TO:
5	4.38	2012/2019	2026	Sleepy Hollow Road	Collector	Rosewood Drive	Columbia Drive
5	4.38	2015/2019	2026	Sleepy Hollow Road	Collector	Columbia Drive	Castleview Road
5	4.42	2009	2028	Killarney Drive	Collector	Wabash Avenue	Library Road
5	4.48	1999	2027	Home Avenue	Local	6th Street	Borough Line
5	4.64	1992	2027	Canbet Drive	Local	6th Street	Dead End
5	4.68	2014	2028	Belleville Street	Local	Duluth Street	Ridgeton Street
5	4.68	2014	2028	Belleville Street	Local	Ridgeton Street	Borough Line
5	4.68	1992	2028	Belleville Street	Local	6th Street	Martha Street
5	4.68	2013	2029	Locust Avenue	Local	Poplar Avenue	Willow Avenue
5	4.68	2002	2024	Newport Drive	Local	Maplene Avenue	Nilden Avenue
5	4.72	2000	2028	Loma Drive	Local	McRoberts Road	Dead End
5	4.72	2002	Utility Company Paving	Riehl Street	Local	Glen Shannon Drive	Borough Line
5	4.76	1992	2029	Hiwood Drive	Local	Maplewood Drive	Lindenwood Drive
5	4.76	2002	2024	Newport Drive	Local	Wabash Avenue	Maplene Avenue
5	4.76	1998	2026	Spruce Street	Local	Myrtle Avenue	Walnut Street
5	4.84	1998	2024	Edgewood Avenue	Local	Borough Border	Nilden Avenue
5	4.84	1992	Utility Company Paving	Redwood Drive	Local	Greenridge Road	Dead End
5	4.88	2009	Utility Company Paving	Castleview Road	Local	Sleepy Hollow Road	Cul-De-Sac

BOROUGH OF CASTLE SHANNON

APPENDIX C - ROAD RATING TABLE A

ALL ROADS

PREPARED BY: LSSE CIVIL ENGINEERS AND SURVEYORS

DATED: MARCH 2024

2024	2025	2026	2027	2028	2029
2023/24/25 Utility Company					

STREET RATING	WEIGHTED STREET RATING	YEAR LAST RESURFACED	PROPOSED PAVING YEAR	ROADWAY NAME	COLLECTOR/LOCAL	TERMINI	
						FROM:	TO:
5	4.88	1993	2026	Laurel Avenue	Local	Myrtle Avenue	Linden Avenue
5	4.88	1998	2029	Maplene Avenue	Local	Newport Drive	Edgewood Avenue
5	4.92	1993	2026	Laurel Avenue	Local	Linden Avenue	Dead End
5	4.92	1998	2029	Nilden Avenue	Local	Newport Drive	Edgewood Avenue
5	4.92	2014	2027	Mary Street	Local	Oak Drive	Borough Line
5	4.92	2004	2027	Trance Drive	Local	McRoberts Road	Sycamore Drive
5	4.92	2004	2027	Trance Drive	Local	Sycamore Drive	Alice Drive
5	4.92	2004	2027	Trance Drive	Local	Alice Drive	Mary Place
5	5.00	2001	2025	Green Court	Local	Saxonwald Lane	Cul-De-Sac
6	5.22	2015	Utility Company Paving	Willow Avenue	Collector	Township Border	Smith Road
6	5.22	2015	Utility Company Paving	Willow Avenue	Collector	Smith Road	Hastie Road
6	5.22	2015	Utility Company Paving	Willow Avenue	Collector	Hastie Road	Vermont Avenue
6	5.22	2015	Utility Company Paving	Willow Avenue	Collector	Vermont Avenue	Rockwood Avenue