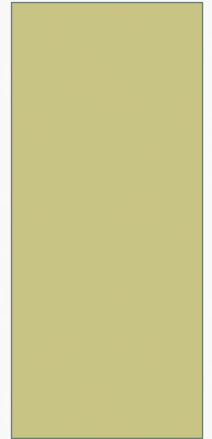




# **OLD BRIDGE TOWNSHIP ROAD RESURFACING EVALUATION & RANKING**

**February 14, 2023**





# TOWNSHIP ROADWAY EVALUATION

- ❑ Ward tours were conducted by the Assistant Township Engineer & Department of Public Works Director for all public roadways within the Township.
  
- ❑ Criteria for Roadway Evaluation:
  - ❖ Pavement Cracking (Minor, Moderate, Severe)
  - ❖ Potholes (#)
  - ❖ Trench Repair (#)
  - ❖ Recent Curb Reconstruction
  - ❖ Recent Drainage Improvement
  - ❖ Age of Roadway: Year Reconstructed
  
- ❑ Data obtained during the ward tours were inputted into the Roadway Ranking Point System.



# ROADWAY EVALUATION SCORING

- Roadway Ranking is based on a starting score of 100 points with point deductions for Pavement Cracking, Potholes, Trench Repairs, Recent Curb Construction, Recent Drainage Improvements and Age of Roadway. The lower the score the worse condition of the roadway.
- ❖ Pavement Cracking:
  - Minor = -2 Points
  - Moderate = -4 Points
  - Severe = -6 Points
- ❖ Potholes = Number of potholes multiplied by -4 Points
- ❖ Trench Repair = Number of trench repairs multiplied by -2 Points
- ❖ Recent Curb Reconstruction = -5 Points
- ❖ Recent Drainage Improvement = -5 Points
- ❖ Age of Roadway: Year Constructed or Reconstructed minus 2022



# ROADWAY EVALUATION POINT SYSTEM

OLD BRIDGE RESURFACING RANKING SYSTEM OVERALL RANK ENTIRE TOWNSHIP																					
#	Street	Project Limit	Ward	Pavement Cracks <sup>1</sup> (Minor/Moderate/Severe)		Potholes <sup>2</sup>		Roadway Trench Repairs <sup>3</sup>		Recent Reconstruction of Curb <sup>4</sup>		Recent Drainage Improvements <sup>5</sup>		Age of Roadway <sup>6</sup>		Total Score <sup>7</sup>	Overall Rank	Roadway Length (Feet)	Roadway Width (Feet)	Cul-de-sac	COST ESTIMATE
				Type	Points	Number	Points	Number	Points	Yes/No	Points	Yes/No	Points	Year	Age						
1	STRATION RD	Whole Street	2	SEVERE	-6	10	-40	11	-22	NO	0	YES	-5	1995	-27	0	1	3425	30	1	\$ 244,127.74
2	JENNIFER LN	Whole Street (Drainage Issues)	4	SEVERE	-6	18	-72	3	-6	NO	0	NO	0	2006	-16	0	1	1455	30	0	\$ 98,623.60
3	CINDY ST EAST	Whole Street	5	SEVERE	-6	10	-40	12	-24	NO	0	YES	-5	1997	-25	0	1	2090	36	0	\$ 170,343.36
4	HIGHPOINTE WAY	Whole Street	2	SEVERE	-6	7	-28	24	-48	NO	0	NO	0	2005	-17	1	2	2540	42	0	\$ 241,523.52
5	KATELYN CT	Whole Street	2	SEVERE	-6	16	-64	1	-2	NO	0	NO	0	1995	-27	1	2	655	30	1	\$ 55,989.34
6	CRUGHTON CIR	Whole Street	5	SEVERE	-6	8	-32	12	-24	NO	0	YES	-5	1990	-32	1	2	3420	30	0	\$ 232,286.40
7	SUMMERFIELD AVE	1/2 Width - Gas Co Paved Northern Half In 2020	1	SEVERE	-6	5	-20	24	-48	NO	0	NO	0	1998	-24	2	3	1165	13	0	\$ 34,288.28
8	BROOKSIDE AVE	Whole Street	6	SEVERE	-6	15	-60	4	-8	NO	0	NO	0	1998	-24	2	3	3315	26	0	\$ 195,134.16
9	PRINCETON RD	Half Road Width	3	MODERATE	-4	8	-32	24	-48	NO	0	NO	0	2009	-13	3	4	7765	18	0	\$ 316,439.28
10	SURREY DR	Whole Street	2	MODERATE	-4	10	-40	10	-20	NO	0	YES	-5	1995	-27	4	5	2360	30	0	\$ 161,649.60
11	PROSPECT AVE	Whole Street	1	SEVERE	-6	10	-40	12	-24	NO	0	NO	0	1998	-24	6	6	2177	24	0	\$ 118,289.47
12	ANNIE DR	Whole Street	1	SEVERE	-6	1	-4	23	-46	NO	0	NO	0	1995	-27	17	7	1941	30	0	\$ 131,832.72
13	ANNMAR DR	Half Road - Gas Trenches	2	SEVERE	-6	5	-20	15	-30	NO	0	NO	0	1995	-27	17	7	1000	26	0	\$ 58,854.00
14	SHELLY RD	Whole Street	3	SEVERE	-6	5	-20	14	-28	NO	0	NO	0	1995	-27	19	8	1650	30	0	\$ 110,709.60
15	CAROLE PL	Whole Street	4	SEVERE	-6	5	-20	14	-28	NO	0	YES	-5	2000	-22	19	8	1480	30	0	\$ 100,521.60
16	TETON PL	Whole Street	4	SEVERE	-6	6	-24	7	-14	YES	-5	YES	-5	1995	-27	19	8	540	30	0	\$ 36,676.80
17	JOHN WALL RD	Whole Street	5	SEVERE	-6	12	-48	0	0	NO	0	NO	0	1995	-27	19	8	1985	20	0	\$ 89,880.80
18	MILLER AVE	Whole Street	1	SEVERE	-6	8	-32	8	-16	NO	0	NO	0	1996	-26	20	9	1086	26	0	\$ 68,943.71
19	PENNSYLVANIA DR	Whole Street	1	SEVERE	-6	11	-44	1	-2	NO	0	NO	0	1995	-27	21	10	425	26	0	\$ 25,017.20
20	LANTANA WAY	Half Road	1	SEVERE	-6	0	0	24	-48	NO	0	NO	0	1998	-24	22	11	872	26	0	\$ 51,329.41
21	MERRITT TERR	Whole Street	2	SEVERE	-6	8	-32	6	-12	NO	0	NO	0	1995	-27	23	12	1565	30	0	\$ 106,204.80
22	GRACE DR	Whole Street	4	SEVERE	-6	6	-24	8	-16	NO	0	YES	-5	1996	-26	23	12	2685	36	0	\$ 218,638.34

**Point System Notes:**

1. Pavement Cracks: Minor=-2 Points, Moderate=-4 Points, Severe= -6 Points.
2. Potholes: Number of potholes multiplied by -4 Points.
3. Trench Repair: Number of Trench Repairs multiplied by -2 Points.
4. Recent Curb reconstruction: -5 Points
5. Recent Drainage Improvements: -5 Points
6. Age of Roadway: Year Reconstructed-2022
7. Total Ranking Score is based on 100 points minus all other point value. The lower the score the worse the condition of the roadway.

**Legend:**

	<b>2023 Road improvement Program</b>	<b>\$1,428,381</b>
	<b>2024 Road improvement Program</b>	<b>\$1,595,187</b>
	<b>2025 Road improvement Program</b>	<b>\$1,246,328</b>
	<b>2026 Road improvement Program</b>	<b>\$1,549,223</b>
	<b>2027 Road improvement Program</b>	<b>\$1,683,978</b>

**\$7,503,098**





# TYPES OF PAVEMENT CRACKING

- **Pavement Cracking:** A series of interconnecting cracks that divide the pavement into sections. Cracking is ranked from minor to severe, where minor cracks are single cracks, moderate cracks are cracks that are forming blocks and severe cracks resemble an alligator's hide.



**Minor**



**Moderate With Crack Sealing**



**Severe**





# TYPES OF POTHOLES

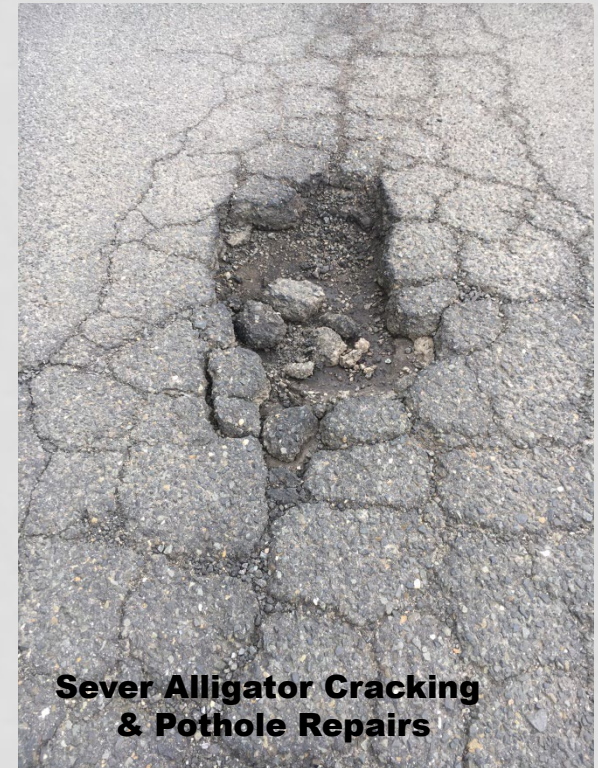
- ❑ **Pothole:** characterized by holes in the pavement surface at least 1/2” deep and at least one square foot in surface area. Often occurs when a serious distress, such as alligator cracking, combines with excess water, freeze–thaw cycling and traffic loads.



**Sever Alligator Cracking  
& Pothole Repairs**



**Sever Alligator Cracking  
& Pothole Repairs**



**Sever Alligator Cracking  
& Pothole Repairs**





# TYPICAL TRENCH REPAIR

- ❑ **Trench Repair: Cuts in pavement often associated with alligator cracking & potholes, utility upgrades/repairs (sanitary & storm sewers, gas, telephone, & water lines) which are backfilled and topped with hot mix asphalt.**



**Alligator Cracking & Pothole  
Repair Trench**



**Utility Connection Repair  
Trench**



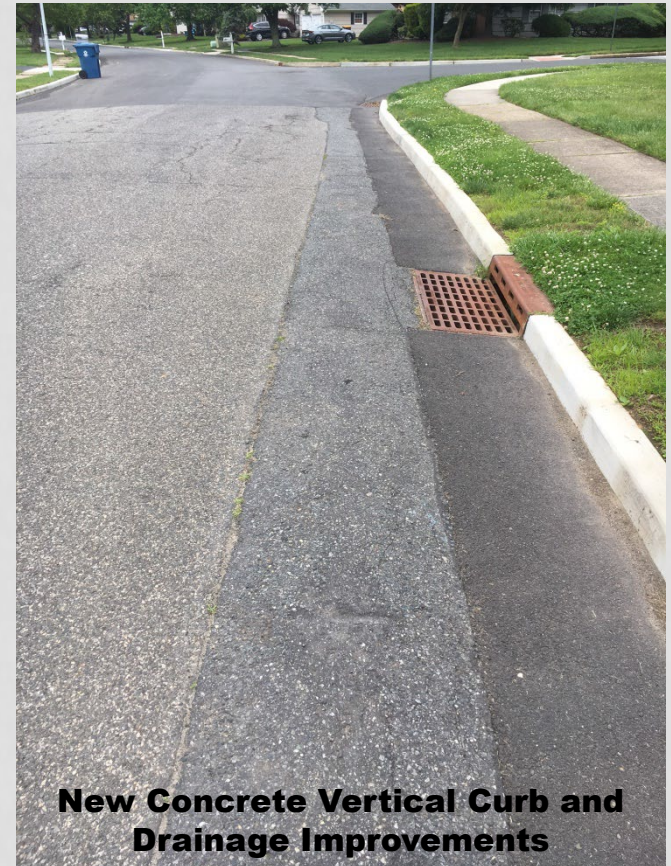
**Gas Main Trenching**





# CONCRETE CURB & DRAINAGE IMPROVEMENTS

- ❑ Concrete Curb: Township Standard 6" Face x 18" Depth







# 5-YEAR ROAD RESURFACING PROGRAM (2023-2027)

**NOTE: OLD BRIDGE TOWNSHIP ENGINEERING DEPARTMENT RESERVES THE RIGHT TO INCREASE OR DECREASE THE LIST BELOW BASED ON THE AVAILABILITY OF FUNDS, THE EVOLVING CONDITION OF THE ROADWAY, AND/OR THROUGH COORDINATION WITH VARIOUS UTILITY COMPANIES.**

## ROAD RESURFACING PROGRAM (2023-2027)

1	BEACHWOOD AVENUE (2023)	22	JOHNSON STREET (2023)	43	ANGELA DRIVE (2025)	64	MAPLE STREET (2026)
2	BRITTON AVENUE (2023)	23	TRUMAN STREET (2023)	44	JAKE BROWN ROAD (2025)	65	GLENMERE PLACE (2026)
3	MILLER AVENUE (2023)	24	CINDY STREET – EAST (2024)	45	BARNEGAT DRIVE (2025)	66	EMMA COURT (2026)
4	SHORELAND CIRCLE (2023)	25	HIGHPOINTE WAY (2024)	46	FARRAGUT LANE (2025)	67	TEXAS COURT (2026)
5	OCEAN AVENUE (2023)	26	CREIGHTON CIRCLE (2024)	47	ELY AVENUE (2025)	68	WHITE OAK LANE (2026)
6	CRABTREE ROAD (2023)	27	SUMMERFIELD AVENUE (2024)	48	BRUCE STREET (2025)	69	ALTON PLACE EAST (2026)
7	KATELYN COURT (2023)	28	BROOKSIDE AVENUE (2024)	49	YORK STREET (2025)	70	KIRSCHMAN DRIVE (2027)
8	STRATTON ROAD (2023)	29	SURREY DRIVE (2024)	50	MONTANA COURT (2025)	71	JAMES AVENUE (2027)
9	SAMANTHA CIRCLE (2023)	30	PROSPECT AVENUE (2024)	51	PONDEROSA LANE (2025)	72	BROOKSIDE AVENUE (2027)
10	SHELLEY ROAD (2023)	31	ANNIE DRIVE (2024)	52	APPLEBY STREET (2025)	73	WOODBINE WAY (2027)
11	PRINCETON ROAD (2023)	32	ANNMAR DRIVE (2024)	53	CINDY STREET WEST (2026)	74	BARTLETT COURT (2027)
12	CAROL PLACE (2023)	33	JOHN WALL ROAD (2024)	54	HARTLES LANE (2026)	75	LAKERIDGE DRIVE (2027)
13	JENNIFER LANE (2023)	34	PENNSYLVANIA DRIVE (2024)	55	OLD WATERWORKS ROAD (2026)	76	PIEDMONT DRIVE (2027)
14	TETON PLACE (2023)	35	LANTANA WAY (2024)	56	ADELPHI COURT (2026)	77	STEVENS AVENUE (2027)
15	JUDY COURT (2023)	36	MERRITT TERRACE (2025)	57	THOMAS STREET (2026)	78	OLD AMBOY ROAD (2027)
16	MICHAEL COURT (2023)	37	GRACE DRIVE (2025)	58	ARBUTUS WAY (2026)	79	SADOWSKI DRIVE (2027)
17	TERRILL ROAD (2023)	38	WARNE ROAD (2025)	59	HARDING ROAD (2026)	80	GARFIELD AVENUE (2027)
18	PENSION ROAD (2023)	39	HYANNIS DRIVE (2025)	60	ISLAND DRIVE (2026)	81	SHADYSIDE AVENUE (2027)
19	ELEANOR STREET (2023)	40	HIGHVIEW TERRACE (2025)	61	WOODLAND AVENUE (2026)		
20	GATE LANE (2023)	41	GREENWOOD AVENUE (2025)	62	JUNIPER COURT (2026)		
21	HELENE STREET (2023)	42	OHIO COURT (2025)	63	CRESCENT ROAD (2026)		



# GRANT FUNDED PROJECTS (2023)

## NJDOT Local Aid

- ❖ Throckmorton Lane Phase I
- ❖ Throckmorton Lane Phase II

## NJDOT Local Freight Impact

- ❖ Waterworks Road & Perrine Road Phase I
- ❖ Waterworks Road Phase II

## Transportation Alternative Set Aside

- ❖ County Route 516 Pedestrian Safety Improvements
- ❖ Cottrell Farm Park Pedestrian and Bicycle Improvements (Pending)





# **PSE&G GAS MODERNIZATION PROJECT**

- PSE&G is scheduled to complete all 7 phases of the Gas Modernization Project by June 2023.**
- PSE&G when completed will have replaced approximately 23 miles of Gas Main.**
- A total of 129 roads will either be paved half or full width depending on the location of the gas main and service trenches in coordination with the Township's Engineering Department.**



# PSE&G ROADWAY RESTORATION

## ❑ PSE&G Gas Modernization Project:







# **NJ NATURAL GAS - GAS MAIN UPGRADE PROJECT**

- ❑ **New Jersey Natural Gas (NJNG) contractors, Gray Supply Corp. begun Gas Main Replacement Project – Bayview Drive in Laurence Harbor on/or about Thursday, January 19th, 2023.**
- ❖ **The work includes replacing gas mains and services on Cleveland Avenue, Garfield Avenue, Lincoln Avenue, Jefferson Avenue, Madison Avenue, Monroe Avenue, Harding Road, and Bayview Drive.**
- ❑ **New Jersey Natural Gas (NJNG) completed Gas Main Replacement Project – Shoreland Circle in Laurence Harbor and will resurface the roadways in Spring 2023.**
- ❖ **Roadways to be resurfaced are Laurence Pkwy, Shoreland Circle, Beechwood Avenue, Seaview Avenue, Ocean Avenue, Twilight Avenue, Harbor Way and Neptune Place.**
- ❑ **Roadway resurfacing will consist of paving of half or full width depending on the location of the gas main and service trenches and coordination with the Township’s Engineering Department.**



# **OBMUA LAURENCE HARBOR WATER SYSTEM IMPROVEMENTS PHASE 1**

- OBMUA will begin Water Main Replacement Project in Laurence Harbor.**
- The work includes replacing water mains and services on Shoreland Circle, Summerfield Ave, Shadyside Ave, Ravine Ave, Norwood Ave, Laurence Parkway, Woodland Ave, Roosevelt Ave, McKinley Ave, Jefferson Ave, Harding Road, Brookside Ave, Prospect Ave, Greenwood Ave and Grove Ave.**
- Roadway resurfacing will consist of full width pavement restoration.**





# CRACK SEALING PROGRAM

- Roadways are evaluated 2 years after resurfacing and any cracks are sealed in order to extend the life of the pavement.
- Township wide crack sealing program began in 2018, suspended in 2020 due to COVID
- Program resumed in Fall 2022
- The crack sealing program will utilize the road audit to generate a list of roadways to evaluate and crack seal.





# SEALMASTER ASPHALT SEALER

- Polymer Modified surface emulsion fortified with liquid road additives.
- Great for Developments and Non-Highway roads.
- Combined with the crack sealing program may extend the lifespan of the pavement.
- Intended use will be on Cul-De-Sac and residential roads.







# RESIDENTIAL ROADWAY LIGHTING

- Developers are required to design lighting in residential developments to conform to the Township's Land Development Ordinance Chapter 250-75 Lighting**
- Lighting design is reviewed and approved as part of the developer's land development application presented to the Planning Board or Zoning Board**
- Public roadways will use JCP&L Light fixtures, for future maintenance by JCP&L and electrical payments by Old Bridge Township**
- The developer's construction is inspected by Old Bridge Township Engineering Department to ensure the project is contracted as per approved plans**





# RESIDENTIAL ROADWAY LED LIGHTING REQUEST

- LED lights differ from incandescent light fixtures in that the LED fixtures tend to be very bright at the source but do not cast (or spill) lighting very far beyond the source.
- Existing light pole spacing may create very bright areas at the source with very dark areas midpoint between the light poles.
- LED Retrofit will require a Professional Engineer to provide the Engineering Department with a lighting analysis that demonstrate that the LED retrofit fixtures proposed to be installed by JCP&L on the existing streetlight poles within your community will meet the Township's street lighting requirements and standards.
- LED retrofit may result in an increase in light fixtures and poles and in turn additional electrical wiring and/or conduit.



## **NEXT STEPS**

- Resolution accepting 2023 Road Resurfacing Evaluation & Ranking for 2023-2027 Annual Road Resurfacing Program.**
- Preparation of 2023 Annual Road Resurfacing Contract Plans, Specifications and Estimate.**
- Continued coordination with utility companies on roadway restoration efforts.**



# QUESTIONS /DISCUSSIONS

