

TOWNSHIP OF BYRAM			CAPITAL IMPROVEMENT PROGRAM 2022-2024								
2022 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
			2022	2022	Amounts	Capital	Grants and				
		Proposed	Budget	Budget	Reserved In	Improvement	Other	Debt	Other		
Proposed Projects	DEPT	Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	
NJDOT Project - Tamarack Road (Between Johnson Lake and Roseville)	ROADS	\$307,500	\$72,500	\$0	\$0	\$0	\$235,000	\$0	\$0		\$307,500
Various Street and Road Projects - Mill & Pave - Cranberry Lake North Shore Area \$460,000 - Forest Lakes Area \$405,000 - Cranberry Lake South Shore Area \$280,000	ROADS	\$1,210,000	\$123,000	\$100,000	\$0	\$257,153	\$0	\$729,847	\$0		\$1,210,000
Little Paint Way Drainage Improvements	ROADS	\$520,500	\$0	\$0	\$0	\$0	\$468,000	\$0	\$52,500	FEMA Hazard Mitigation Grant Drainage Reserve Account	\$520,500
Roadway Crack Sealing and Roadway Striping	ROADS	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0		\$30,000
DPW Equipment: - P-1 2012 GMC 3500 EX Cab 4x4: \$60,000 - M-3 2009 Sterling bullet: \$110,000 - 2007 Grounds Master Side Winder: \$15,000	ROADS	\$185,000	\$100,000	\$0	\$0	\$85,000	\$0	\$0	\$0		\$185,000
DPW Facility	BUILDING	\$306,000	\$0	\$0	\$0	\$15,300	\$0	\$290,700	\$0	DPW Breakroom, Lockers and Bathroom DPW Garage - Lean-to Addition (Storage of Equipment) NO ESTIMATE	\$306,000
ALCOTEST - Alcohol Drug Testing	POLICE	\$20,000	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0		\$20,000
Playground Equipment - Riverside Park	PARKS	\$98,000	\$0	\$0	\$0	\$4,900	\$0	\$93,100	\$0	Still recommending Playground Equipment Replacement at COJ - \$250,000	\$98,000
COJ Park Improvements - Dog Park	PARKS	\$304,300	\$0	\$0	\$0	\$0	\$0	\$0	\$304,300	OS Trust	
Fire Truck	FIRE	\$820,000	\$0	\$0	\$0	\$41,000	\$0	\$779,000	\$0		\$820,000
Fire SCBA	FIRE	\$70,000	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0		\$70,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund projects/downpayments	\$25,000
TOTAL		\$3,901,300	\$325,500	\$105,000	\$0	\$518,353	\$703,000	\$1,892,647	\$356,800	\$3,901,300	\$3,597,000
2023 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
			2023	2023	Amounts	Capital	Grants and				
		Proposed	Budget	Budget	Reserved In	Improvement	Other	Debt	Other		
Proposed Projects	DEPT	Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	Total
Future Road Resurface Program - Including NJDOT Project (Mill & Pave, Cape Seal, Oil Stone)	ROADS	\$943,977	\$195,500	\$100,000	\$0	\$195,000	\$225,000	\$228,477	\$0		\$943,977
Roadway Crack Sealing and Roadway Striping	ROADS	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0		\$30,000
DPW Equipment	DPW	\$200,000	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0		\$200,000
Fire Equipment	FIRE	\$70,000	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0		\$70,000
Police Equipment - Vehicle	Police	\$60,000	\$0	\$0	\$0	\$60,000	\$0	\$0	\$0		\$60,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$1,333,977	\$325,500	\$105,000	\$0	\$450,000	\$225,000	\$228,477	\$0	\$1,333,977	\$1,333,977

2024 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
		Proposed	2024 Budget	2024 Budget	Amounts Reserved In	Capital Improvement	Grants and Other	Debt	Other		
Proposed Projects		Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	Total
Future Road Resurface Program - Including NJDOT Project (Mill & Pave, Cape Seal, Oil Stone)	ROADS	\$873,757	\$195,500	\$100,000	\$0	\$120,000	\$225,000	\$233,257	\$0		\$873,757
Roadway Crack Sealing and Roadway Striping	ROADS	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0		\$30,000
DPW Equipment	DPW	\$335,000	\$100,000	\$0	\$0	\$235,000	\$0	\$0	\$0		\$335,000
Fire Equipment	FIRE	\$70,000	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0		\$70,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$1,338,757	\$325,500	\$105,000	\$0	\$450,000	\$225,000	\$233,257	\$0	\$1,338,757	\$1,338,757

Capital Projects 2022 - 2034	Dept	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Comments
DPW Breakroom, Lockers and Bathroom DPW Storage/Recycling Facility DPW Garage Doors	Facilities	\$306,000													NEED TO GET BETTER ESTIMATES: - 30'W X 100'L X 16'6"H - Storage/Recycling Building - \$180,000 - DPW Breakroom Estimates - \$75,000 - DPW Building Garage Doors - \$36,000 - DPW Building Air Vent System - \$15,000
		\$306,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
P-1 2012 GMC 3500 EX Cab 4x4	DPW	\$60,000										\$60,000			
P-2 2017 F-350 DWR 4x4	DPW						\$62,000								
P-3 2022 F-350 SRW 4x4 - on order	DPW														
P-4 2017 F-350 DRW 4x4	DPW						\$62,000								
P-5 2018 F-350 SRW 4X4	DPW							\$62,000							
P-6 2017 F-250 EX cab 4x4	DPW					\$62,000									
P-7 2019 F-350 EX cab 4x4	DPW								\$62,000						
M-1 2020 Ford F550 Mason Dump	DPW									\$105,000					
M-2 2020 Ford F550 Mason Dump	DPW										\$105,000				
M-3 2009 Sterling bullet	DPW	\$110,000										\$132,000			
M-5 2022 F600 Mason Dump - on order	DPW												\$132,000		
FB-1 2019 Ford F550 4x4 Flat Bed	DPW								\$85,000						
FB-2 2020 Ford F550 4x4 Flat Bed	DPW									\$86,000					
FB-3 2021 Ford F550 4x4 Flat Bed	DPW										\$87,000				
D-2 2015 Freightliner Dump	DPW										\$200,000				
D-7 2008 International Dump	DPW		\$200,000												Note: Authorized in 2021. Truck transfer case needed to be replace.
HL-1 2020 Kentworth Hook Lift Truck	DPW													\$300,000	
2021 Case 321F Loader	DPW														
2003 McCormick CX 70 Tractor	DPW			\$100,000											
2017 Case 521GXR Loader	DPW									\$130,000					
2019 Case 580SN - Backhoe	DPW														
2019 Case TR310 Track Loader w/attach	DPW														
1996 Whacker Roller RD880	DPW					\$20,000									
2017 Diamond Road Mower Attachment	DPW							\$40,000							
2018 John Deere Midsize Tractor	DPW														
2018 Bandit Chipper	DPW														
2019 John Deere Tractor Compact with Attachments	DPW														
2019 Falcon Asphalt Hot Box	DPW								\$45,000						
2004 Elgin Street Sweeper	DPW			\$220,000											
2007 Grounds Master Side Winder	DPW	\$15,000													
2021 Perma Green Ride-On Applicator	DPW										\$15,000				
2017 Scag 72" Zero Turn Mower S-1	DPW			\$15,000											
2017 Scag 72" Zero Turn Mower S-2	DPW				\$15,000										
2019 Scag 72" Zero Turn Mower S-3	DPW						\$15,000								
2021 John Deere 48" Walk Behind	DPW														
2008 Landscape Trailer	DPW							\$7,000							
2017 CCM20SE Equipment Trailer	DPW								\$6,000						
2019 Sure Trac Mason Trailer	DPW									\$5,000					
2019 Equipment Trailer	DPW									\$7,000					
2020 Sure Trac Implement Trailer	DPW										\$7,000				
2021 Sure Trac Mason Trailer	DPW										\$8,000				
Sub Total for DPW		\$185,000	\$200,000	\$335,000	\$15,000	\$82,000	\$139,000	\$109,000	\$198,000	\$333,000	\$422,000	\$192,000	\$132,000	\$300,000	
Replace Engine 1 1998 E-one Engine	Fire	\$820,000													
SCBA Replacement - End of Life	Fire	\$70,000	\$70,000	\$70,000											
Sub Total for Fire		\$890,000	\$70,000	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Alcotest	Police	\$20,000													New Alco test machine - the state dictates roll out and no plans of how the roll out will be accomplished (ie county by county, most DWI arrests etc). Continue to carry year to year until plan is known.
Replace 4-wheel drive vehicle - Chevrolet Tahoe if necessary.	Police		\$60,000												
Sub Total for Police		\$20,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
2021 NJDOT GRANT PROJECT (Mill & Resurface): Tamarack Road	Roads	\$307,500													2021 NJDOT Municipl Aid Grant Requested: \$235,000

Mill and Resurface - Cranberry Lake North Shore Area (Frenche's Grove Road, North Shore Trail, Rose Trail, Laurel Trail, Meteor Trail, Bridge Trail, Grove Path, Dennis Hill Road, Overview, Cabin Spring Trail, Lakeview Trail, Tote Road, La-Bo-Ga Trail, Panther Pass, Wo-Ta-Ga Trail, High-To-Ga Trail, Ka-ton-Ah Trail, Opa Pass, Allamuchy Trail, and Greywood Lane)	Roads	\$525,000													Priority 1
Mill and Resurface - Forest Lake Roadways (Sherwood Forest Drive, The Retunda, Hemlock Road, Deer Run, and Harbor View Drive)	Roads	\$405,000													Priority 2
Mill and Resurface - Cranberry Lake South Shore Area (South Shore Trail, Saugtaug Trail, Weasaug Trail, Maugtaug Trail, Harding Road, and Hilltop Trail)	Roads	\$280,000													Priority 3
Annual Budget: Roadway Crack Sealing and Roadway Striping	Roads	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000		Crack Sealing: \$20,000 Striping: \$10,000
Little Paint Way Drainage Improvements	Roads	\$520,500													Requesting a FEMA Hazard Mitigation Grant
Future Mill Paving, Cape Seal and Oil Stone Projects - includes NJDOT Projects	Roads		\$943,977	\$873,757	\$813,949	\$808,774	\$886,024	\$654,643	\$839,750	\$1,209,511	\$704,675				
Sub Total for Roads		\$2,068,000	\$973,977	\$903,757	\$843,949	\$838,774	\$916,024	\$684,643	\$869,750	\$1,239,511	\$734,675	\$30,000	\$30,000		
Riverside Park - Playground	Parks	\$98,000													2020 Quote ESCNJ Coop - Ben Shaffer Recreation = \$97,711.21
COJ Park Improvements - Dog Park	Parks	\$304,300													Preliminary Quote from June 10,2021 was presented as \$343,825 which included survey and design & construction admin. The Mayor & Council authorized by Resolution 155-2021 for French & Parrello Associates to Provide Engineering and Landscape Architecture Services for a Dog Park in Byram Township - Not to exceed \$39,525. This amount was removed from project quote since funding already authorized.
Sub Total for Recreation		\$402,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Facilities		\$306,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
DPW		\$185,000	\$200,000	\$335,000	\$15,000	\$82,000	\$139,000	\$109,000	\$198,000	\$333,000	\$422,000	\$192,000	\$132,000		
FIRE		\$890,000	\$70,000	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Police		\$20,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Roads		\$2,068,000	\$973,977	\$903,757	\$843,949	\$838,774	\$916,024	\$684,643	\$869,750	\$1,239,511	\$734,675	\$30,000	\$30,000		
Recreation		\$402,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Totals		\$3,871,300	\$1,303,977	\$1,308,757	\$858,949	\$920,774	\$1,055,024	\$793,643	\$1,067,750	\$1,572,511	\$1,156,675	\$222,000	\$162,000		
Add: Annual CIF \$25,000 and Drainage \$5,000		\$30,000	\$30,000	\$30,000											
		\$3,901,300	\$1,333,977	\$1,338,757											
COJ Park - Playground	Parks														2020 Quote ESCNJ Coop - Ben Shaffer Recreation = \$147,067.89 Additional quote provide for Poured-In-Place surfacing. Poured-In-Place surfacing is a two-layer system. The bottom layer is a SBR base (Styrene Butadiene Rubber) and is the impact absorbing layer of the surface. The top layer is a colored coat made from synthetic rubber granules called EPDM (Ethylene Propylene Diene Monomer) and is the wear course of the surface. - \$97,495
Exhaust System for Apparatus (Cranberry and Lackawanna)	Fire														Estimated Total = \$50,000

**BYRAM TOWNSHIP - ROADWAY IMPROVEMENT PLAN
10 YEAR PLAN - 2022 to 2031**

STREET NAME	Year Last Paved	Year O/S or Cape Seal	Length (ft)	Width (ft)	Area (SY)	PCI	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Roseville Road - Section I - (CO to Tunnel #1)	2018		3,550	24	9,467	88.17									\$237,771.83	
Roseville Road - Section II - (Tunnel #1 to Amity)	2011/2018		3,350	24	8,933	90.83									\$224,376.23	
Roseville Road - Section II - (Amity to Tunnel #2)	2012		1,000	26	2,889	99.00									\$72,559.48	
Roseville Road - Section III - (Andover TWP to CO)	2012		6,050	24	16,133	84.67									\$405,216.78	
Roseville Road - Section IV - (Tunnel #2 to Lackawanna Dr.)	2013		4,025	24	10,733	88.33								\$256,748.92	\$269,586.37	
Tamarack Road - Section I (Johnson Lake to Route 206)	2013		3,400	30	11,333	89.00										
Tamarack Road - Section II (Johnson Lake to Roseville)	2014		4,485	30	14,950	84.00	\$307,500.00									
Amity Road - Section I - (Roseville Road End)	2015		3,500	24	9,333	94.17										\$246,144.08
Amity Road - Section II	2017		3,115	24	8,307	91.17										\$219,068.23
Amity Road - Section III - (Lee Hill Road End)	2017		3,405	24	9,080	92.67										\$239,463.02
Continental Drive	2021		900	60	6,000	61.50										
Tomahawk Trail	2011		3,500	24	9,333	88.83										
North Shore Road	2020		8,670	24	23,120	100.00										
Brookwood Road - I - (Route 206 to Briar Lane)	2009		2,000	28	6,222	92.67										
Brookwood Road - II - (Briar Lane to Ross Road)	2017		2,000	28	6,222	94.00										
Brookwood Road - III - (Ross Road to Cul-de-sac)	2005		2,400	28	7,467	86.67										
Acorn Street	2010		2,555	22	6,246	90.33				\$122,910.19						
Whitehall Hill Road	2020		2,065	24	5,507	99.33										
Mansfield Drive	2018		1,150	24	3,067	93.17										
South Shore Road - (Section 1 - 2005; Section 2 - 2011)	2005 & 2011		5,610	20	12,467	82.00	\$219,774.00									
Lake Drive/Reis Avenue/Brown Dr	1999	2018	7,250	22	17,722	91.17										
Forest Lakes Drive	2003	2016	7,740	22	18,920	82.17										
Crecent Drive North	2021		3,085	24	8,227	89.50										
Crecent Drive South	2001	2015	2,455	24	6,547	96.00		\$116,858.00								
Sleepy Hollow Road	2000	2015	5,805	26	16,770	88.67				\$330,027.31						
Cranberry Ledge Road	2020		3,275	20	7,278	100.00										
Fieldstone Trail	2021		5,440	30	18,133	64.67										
Sandra lane	Original		1,555	30	5,183	87.67		\$92,522.50								
Stone Hedge Lane	Original		4,950	30	16,500	76.83		\$294,525.00								
Brookwood Drive	2009		3,410	30	11,367	70.83				\$234,876.32						
Heminover Street	1999	2018	860	22	2,102	87.00							\$47,892.04			
Bank Street	1999	2018	800	20	1,778	65.17							\$40,500.67			
Carpenter Road - (Gravel 2018, Orig. Cape Seal 2018)	2012 & 2018	2018	1,770	12	2,360	92.67										
Lake Drive - Loop Roads	1999	2018	6,850	22	16,744	95.83							\$381,465.67			

North Shore Trail	2006		575	16	1,022	85.50	\$16,800.00										
Rose Trail	2006		805	16	1,431	83.67	\$25,200.00										
Laurel Trail	2006		775	16	1,378	90.67	\$23,100.00										
Meteor Trail	2006		1,480	17	2,796	79.33	\$49,875.00										
Bridge Trail	2006		215	10	239	85.17	\$4,200.00										
Grove Path	2006		215	10	239	0.00	\$4,200.00										
Dennis Hill Road	2006		880	19	1,858	80.67	\$32,550.00										
Overview	2005		175	14	272	96.00	\$4,725.00										
Cabin Spring Trail	2005		845	21	1,972	69.83	\$34,650.00										
Lakeview Trail	2006		1,095	14	1,703	87.83	\$30,450.00										
Tote Road	2005		1,290	20	2,867	88.50	\$50,925.00										
La-Bo-Ga Trail	2006		270	17	510	89.17	\$8,925.00										
Panther Pass	2005		495	17	935	87.00	\$16,275.00										
Wo-Ta-Ga Trail	2006		745	14	1,159	95.00	\$20,475.00										
High-To-Ga Trail	2005		480	15	800	92.00	\$14,175.00										
Ka-Ton-Ah Trail	2005		545	16	969	93.50	\$16,800.00										
Opa Pass	2005		140	12	187	93.33	\$3,150.00										
Allamuchy Trail	2006		1,290	18	2,580	81.17	\$45,150.00										
Greywood Lane	2006		165	16	293	89.33	\$4,725.00										
Saddle Lane	2020		180	22	440	100.00											
Oak Trail	2020		515	14	801	100.00											
Spring Trail	2020		190	16	338	100.00											
Hart Trail	2020		686	15	1,143	100.00											
Birch Trail	2020		605	16	1,076	100.00											
Spruce Trail	2020		495	17	935	100.00											
Weaver House Cove Road	2021		1,315	25	3,653	82.83											
Brook Trail	2021		320	14	498	78.00											
Hickory Trail	2021		215	12	287	86.00											
Fox Trail	2021		515	16	916	80.00											
Side Hill Trail	2021		450	19	950	80.67											
Boulder Trail	2021		260	17	491	93.33											
Hawthorne Trail	2021		785	18	1,570	85.00											
Landone Trail	2021		370	13	534	78.17											
Bald Rock Trail	2021		190	12	253	72.00											
Pathfinder Trial	2021		520	21	1,213	83.00											
Muchivo Trail	2021		200	13	289	81.67											
Parsons Road	2006		594	13	858	78.67	\$21,000.00										
Division Lane	2005		559	13	807	83.67	\$36,750.00										
Shon-Ga-Trail	2006		150	12	200	74.50	\$5,250.00										
Laurel Cove	2020		420	13	607	74.67											
Strawberry Point Drive	2020		2,840	24	7,573	100.00											
South Lake Trail	2021		400	12	533	100.00											
Raccoon Trail	2020		135	14	210	100.00											
Cliff Drive	2020		200	12	267	100.00											
Saugtaug Trail	2005		795	12	1,060	92.33	\$17,962.00										
Weasaug Trail	2005		380	12	507	76.17	\$8,453.00										
Maugtaug Trail	2005		345	12	460	79.67	\$7,396.00										
Harding Road	2005		610	12	813	87.00	\$13,736.00										
Hilltop Trail	2005		490	14	762	88.50	\$12,679.00										
Manu Trail	2000	2019	1,375	30	4,583	92.50										\$109,636.57	
Hunters Lane	2000	2019	1,465	26	4,232	92.83										\$101,237.75	
Colby Drive	2002	2019	1,465	30	4,883	90.67										\$116,812.79	
Old Indian Spring Road	2002	2019	3,050	18	6,100	83.67										\$145,916.31	
Ghost Pony Road	2002	2019	1,960	21	4,573	64.33										\$109,397.37	
Knute Drive	2002		375	19	792	90.33		\$14,131.25									
C.O. Drive	2002		755	18	1,510	68.50		\$26,953.50									
Cross Trail	2002	2013	220	21	513	89.83		\$9,163.00									
Little Paint Way	2002		1,440	22	3,520	80.50		\$62,832.00									
Roger Drive	2002		560	20	1,244	82.17		\$22,213.33									
Debbie Drive	2017		535	30	1,783	97.33											
Briar Lane	2019		1,775	30	5,917	100.00											
Joan Drive	2019		2,445	30	8,150	100.00											

Ross Road	2019		3,330	30	11,100	100.00										
Dogwood Lane Road	2009		185	16	329	91.17					\$6,796.03					
Mountain Avenue	2009		245	20	544	94.50					\$11,250.19					
Pleasant Hill Road	2009		170	17	321	84.83					\$6,635.31					
Sand Hill Road	2009		565	18	1,130	92.00					\$23,349.88					
Sandy Brook Road	2009		330	13	477	91.00					\$9,849.65					
Shady Brook Road	2009		320	22	782	94.83					\$16,163.53					
Stony Brook Road	2009		1,210	20	2,689	90.17					\$55,562.14					
Trout Brook Road	2009		355	17	671	88.00					\$13,856.10					
East Waterloo Road	2009		330	17	623	85.33					\$12,880.31					
White Birch Road	2009		690	22	1,687	87.17					\$34,852.62					
Wildwood Road	2009		445	22	1,088	88.83					\$22,477.41					
Woods Edge Road	2009		1,320	22	3,227	88.83					\$66,674.57					
Adair Street	2010		1,195	21	2,788	96.00					\$57,617.02					
Ash Street	2010		3,150	24	8,400	87.17					\$173,574.29					
Avon Street	2010		800	20	1,778	94.00					\$36,735.30					
Banker Drive	2010		620	18	1,240	94.67					\$25,622.87					
Beech Street	2009		1,675	22	4,094	78.83					\$88,836.29					
Belton Road	2011		3,600	20	8,000	80.67					\$173,574.29					
Broad Avenue	2010		1,500	20	3,333	92.17			\$65,598.75							
Byram Avenue	2010		330	24	880	93.67					\$19,093.17					
Cascade Avenue	2010		240	24	640	83.67					\$13,885.94					
Chestnut Street - Part I (River Road to River)	2008		500	22	1,222	93.17					\$26,518.29					
Chestnut Street - Part II (Mayne to Adair)	2009		1,100	22	2,689	93.67			\$52,916.33							
Chestnut Street - Part III (Ash to River)	2011		900	22	2,200	90.67					\$47,732.93					
Drain Way	2010		210	16	373	96.00					\$8,100.13					
Glen Brook Street	2011		250	20	556	93.33					\$12,053.77					
Lockwood Avenue	2008		1,725	20	3,833	95.00			\$75,438.56							
Mayne Avenue	2008		1,960	22	4,791	84.33			\$94,287.27							
Newton Avenue	2010		850	16	1,511	90.00					\$32,786.26					
River Road - Part I	2010		1,825	20	4,056	90.83					\$87,992.52					
River Road - Part II	2011		2,300	20	5,111	94.00					\$110,894.69					
River Road - Part III	2011		2,300	20	5,111	96.33					\$110,894.69					
Spring Brook Street	2011		275	18	550	95.33					\$11,933.23					
Sussex Street	2010		685	18	1,370	87.83					\$29,724.60					
Union Street	2009		1,010	16	1,796	98.33					\$38,957.79					
Lauren Court	Original	2012	1,010	30	3,367	86.50					\$73,045.85					
Robert Street	Original	2012	585	30	1,950	70.33			\$38,375.27							
Jefferson Lake Road	Unknown	2012	1,750	18	3,500	66.67										
Jans Way	2021		405	18	810	90.00										
Rosemaire Lane	2021		520	18	1,040	84.00										
Maple Road	2021		715	18	1,430	79.83										
Birch Road	2021		1,360	20	3,022	79.50										
Willor Drive	2021		700	20	1,556	90.67										
Drexel Drive	2021		710	23	1,814	88.33										
Francis Terrace	2021		370	22	904	92.33										
Hi Glen Drive	2021		320	31	1,102	82.83										
Pierson Drive	2021		700	22	1,711	88.50										
Ridge Place	2021		190	18	380	98.67										
Johnson Boulevard	2021		700	20	1,556	92.83										
Jones Lane	2021		690	18	1,380	87.83										
Louis Dr	2001		412	22	1,007	84.00										
Lynn Drive	2017		6,160	30	20,533	95.33										
Susan Lane	2017		635	30	2,117	94.67										
Douglas Terrace	2017		1,055	30	3,517	95.33										
Catherine Terrace	2017		620	30	2,067	94.17										
Carlisle Drive	2017		850	30	2,833	96.33										
Tartan Court	2018		400	30	1,333	96.67										
Braemar Court	2018		700	30	2,333	94.83										
Elizabeth Lane	2018		670	30	2,233	96.33										
Anderson Lane	Original		250	30	833	92.33			\$15,618.75							
Ascot Lane	Original		1,250	28	3,889	89.83			\$72,887.50							

Mara Lane	Original		185	28	576	76.50			\$10,787.35							
Matthew Drive	Original		720	28	2,240	87.83			\$41,983.20							
Carlson Lane	2004		480	22	1,173	85.67			\$21,991.20							
Mountain Heights	2004		2,400	24	6,400	86.33										
Mountain View Terrace	2004		300	24	800	81.17										
Circle Drive	2004		350	28	1,089	97.33										
Seneca Lake Road	2004		350	25	972	97.33										
Deer Hill Run North	2021		430	30	1,433	89.67										
Deer Hill Run South	2021		830	30	2,767	92.33										
Bridget Way	Original		1,415	30	4,717	81.83		\$84,192.50								
Catalina Drive	2015		1,753	27	5,259	96.67			\$98,566.81							
Manor Drive	2006		3,900	30	13,000	81.33			\$243,652.50							
Camelot Drive	Original		1,500	24	4,000	82.17		\$71,400.00								
Mayfair Lane	Original		700	22	1,711	76.50			\$32,070.50							
Birch Parkway	Unknown		1,200	24	3,200	66.00		\$57,120.00								
Stag Pond Road	Unimproved		365	14	568	79.50										
Windsor Lane	Original		1,732	29	5,581	83.83										
			TOTAL Length (ft)		TOTAL Area (SY)											
			275,640		717,500		\$1,517,500	\$943,977	\$873,757	\$813,949	\$808,774	\$886,024	\$654,643	\$839,750	\$1,209,511	\$704,675
							-\$235,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000	-\$225,000
							\$1,282,500	\$718,977	\$648,757	\$588,949	\$583,774	\$661,024	\$429,643	\$614,750	\$984,511	\$479,675

52.20 Miles

2022202320242025202620272028202920302031

:



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

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CORY L. STONER, *EXEC. VICE PRESIDENT*
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MATTHEW J. MORRIS
NJ – L.L.A., NJ – P.P.

THOMAS G. KNUTELSKY, *ASSOCIATE*
NJ – P.E., NJ – P.P., NJ – C.M.E.

October 8, 2021

Updated: October 22, 2022

Via Email (jsabatini@byramtwp.org)

MEMORANDUM TO: Mr. Joseph Sabatini, Byram Township Manager

FROM: Cory L. Stoner, P.E., C.M.E., Byram Township Engineer

SUBJECT: Engineering, Construction & Other Projects for 2022
Byram Township, Sussex County

Dear Joe:

As requested, I have put together a list of projects and engineering activities that may be considered in the 2022 Byram Township Budget. The list of these projects and activities is as follows:

1. Improvements to Tamarack Road

Tamarack Road is a major arterial roadway in Byram Township which is showing signs of deterioration. In an effort to continue to maintain the major roadways in the Township, a NJDOT Municipal Aid Grant application was submitted for FY2022 for the completion of improvements to the section of Tamarack Road between Johnson Lake and Roseville Road. The application was submitted for this project in the amount of \$235,000.00. The estimated costs for this project are as follows:

Construction Costs	\$ 280,000.00
Surveying & Engineering Design	\$ 10,000.00
Construction Inspection & Management	\$ 15,000.00
Asphalt Cores & Testing	\$ 2,500.00
Total Estimated Costs	\$ 307,500.00

2. Improvements to Cranberry Lake Roadways (North)

During 2020 and 2021, Strawberry Point Drive, North Shore Road and a number of roadways in the Cranberry Ledge section of Cranberry Lake were milled and resurfaced. In an effort to improve more of the roadways in Cranberry Lake, it is recommended that the following roadways be considered for resurfacing in 2022: Frenche's Grove Road, North Shore Trail, Rose Trail, Laurel Trail, Meteor Trail, Bridge Trail, Grove Path, Dennis Hill Road, Overview, Cabin Spring Trail, Lakeview Trail, Tote Road, La-Bo-Ga Trail, Panther Pass, Wo-Ta-Ga Trail, High-To-Ga Trail, Ka-Ton-Ah Trail, Opa Pass, Allamuchy Trail, and Greywood Lane.

These roadways were last resurfaced between 2004 and 2006. A review of the anticipated costs for improvements to these roadways is as follows:

Construction Costs	\$500,000.00
Frenche's Grove Road	\$53,000.00
North Shore Trail.....	\$16,000.00
Rose Trail	\$24,000.00
Laurel Trail.....	\$22,000.00
Meteor Trail.....	\$47,500.00
Bridge Trail	\$4,000.00
Grove Path.....	\$4,000.00
Dennis Hill Road	\$31,000.00
Overview	\$4,500.00
Cabin Spring Trail	\$33,000.00
Lakeview Trail.....	\$29,000.00
Tote Road	\$48,500.00
La-Bo-Ga Trail	\$8,500.00
Panther Pass.....	\$15,500.00
Wo-Ta-Ga Trail	\$19,500.00
High-To-Ga Trail.....	\$13,500.00
Ka-Ton-Ah Trail.....	\$16,000.00
Opa Pass	\$3,000.00
Allamuchy Trail.....	\$43,000.00
Greywood Lane	\$4,500.00
Parsons Road	\$20,000.00
Division Lane	\$35,000.00
Shon-Ga Trail	\$5,000.00
Engineering Design.....	\$ 12,500.00
Construction Inspection & Management	\$ 12,500.00
Total Estimated Costs.....	\$ 525,000.00

3. Improvements to Forest Lake Roadways

In 2021, Crescent Drive North and Winding Way were milled and resurfaced. In 2022, it is recommended that the milling and resurfacing program be continued in the Forest Lake Community. The roadways proposed to be improved in 2022 are as follows:

Construction Costs	\$ 392,500.00
Sherwood Forest Drive.....	\$ 150,000.00
The Retunda	\$ 72,500.00
Hemlock Road	\$ 75,000.00
Deer Run.....	\$ 50,000.00
Harbor View Drive.....	\$ 45,000.00

Engineering Design.....	\$ 5,000.00
Construction Inspection & Management	\$ 7,500.00
Total Estimated Costs.....	\$ 405,000.00

4. Improvements to Cranberry Lake Roadways (South)

In an effort to continue the improvements to roadways in the Cranberry Lake community, it is recommended that the Township consider improving South Shore Road and the various side streets on the south side of the lake. These roadways were last resurfaced between 2004 and 2006 and are in need of resurfacing. A review of the anticipated costs for improvements to these roadways is as follows:

Construction Costs \$ 265,000.00

South Shore Trail	\$ 208,000.00
Saugtaug Trail.....	\$ 17,000.00
Weausaug Trail	\$ 8,000.00
Maugtaug Trail	\$ 7,000.00
Harding Road	\$ 13,000.00
Hilltop Trail	\$ 12,000.00

Engineering Design.....	\$ 5,000.00
Construction Inspection & Management	\$ 10,000.00
Total Estimated Costs.....	\$ 280,000.00

5. Roadway Crack Sealing:

In 2022, I recommend that the Township consider restarting a crack seal program for the major roadways within the Township. I believe it would be beneficial to add a crack sealing program to further extend the life of the life of the Township's major roadways. Based on past experiences, it costs approximately \$10,000 per mile to have an outside contractor perform crack sealing on a typical municipal roadway. That being stated, I would recommend that the Township consider placing **\$20,000** for two miles of crack sealing in the 2022 budget.

6. Roadway Striping:

As roadways age, the roadway striping fades and the night time visibility of a roadway diminishes. In order to maintained the safety of the major roadways as the roadways age and the traffic stripes fade, I would recommend that the Township consider implementing a striping plan. On an average, a newly paved roadway will last 12 to 15 years before needing to be resurfaced. The roadway stirpes, however, will last about half of that period before the nighttime reflectivity deteriorates. That being said, I would recommend that striped roadways be restriped every 6 years as needed to maintain the nighttime safety of the major roadways within the Township. For budgeting purpose, I would recommend placing **\$10,000** in the 2022 budget for roadway striping. This will allow for the restriping of approximately 3 miles of double yellow centerline striping on the major roadways.

7. **Jet Vac Stormwater Cleaning Services:**

In past years, the Township had an outside company perform jet vac stormwater basin/pipe cleaning in order to remove silt and sediment from various drainage systems in the Township. The cleaning of these basins and pipes has allowed the Road Department to identify basins to be repaired and has helped reduced the silt and sediment that is washing into various streams and lakes within the Township.

With approximately 850 catch basins under Township jurisdiction, I recommend that this process be continued in 2022. Assuming 10 days of jet vac services similar to what was performed in the past, it is recommended that **\$15,000.00** be budgeted for this work.

8. **Miscellaneous Engineering & Surveying**

a. **NJDEP Municipal Stormwater Permit**

Work will be continued to aid the municipality in fulfilling the requirements of the Municipal Stormwater permit. It is estimated that work performed by HPA to aid the Township in fulfilling the permit requirements will be approximately **\$3,000.00**.

b. **Miscellaneous Roadway & Drainage Issues**

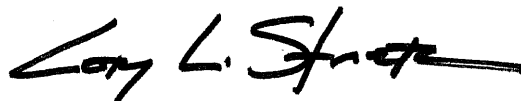
A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that **\$5,000.00** be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

c. **Tax Map Maintenance**

In order to continue with the maintenance of the tax maps, it is recommended that **\$3,000.00** be budgeted in for miscellaneous tax map changes.

I trust this list that will aid the Mayor and Council in establishing the municipal budget for 2022. If you have any questions regarding any of the above listed items or would like to meet to discuss any of the proposed work activities in greater detail, please do not hesitate to contact me.

Very truly yours,



Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Byram Township Engineer



HAROLD E. PELLOW & ASSOCIATES, INC.

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THOMAS G. KNUTELSKY, ASSOCIATE
NJ – P.E., NJ – PP, NJ – C.M.E.

October 22, 2021

Via Email (jsabatini@byramtwp.org)

MEMORANDUM TO: Mr. Joseph Sabatini, Byram Township Manager

FROM: Cory L. Stoner, P.E., C.M.E., Byram Township Engineer

SUBJECT: Study of Known Drainage Issues
Byram Township, Sussex County

Dear Joe:

As we have discussed, there is an interest from the Township Mayor and Council to review stormwater issues that exist throughout the municipality. As you are aware, Byram Township is a mix of older plan developments (East Brookwood and West Brookwood), lake communities (Lake Lackawanna, Cranberry Lake, and Forest Lake), and newer communities (Fieldstone Trail, Lynn Drive, etc...) which all have varying types of issues. These issues include but are not limited to problems with wet and flooded residential properties, drainage pipe outfall soil erosion, siltation of the many community lakes, and the deterioration of municipal roadways.

The newer communities located in the northern portion of the Township have curbed lined roadways, significant roadway collection systems and stormwater management facilities that were designed to properly control stormwater runoff. These communities have isolated issues but were much better designed than the older plan communities that were developed decades ago. The older communities have little defined infrastructure and have drainage systems that are not complete. The majority of the drainage issues in the Township exist in these older communities.

Older plan developments such as the East Brookwood and West Brookwood communities were developed with a network of roadways. These roadways included little in the way of designed drainage system and often consist of stormwater being discharged directly onto private properties. Drainage structures and pipes have been added over the years to try to address the many problems that exist in these communities but a comprehensive system has not been implemented. An important note regarding these communities is that both communities have been expanded over the years. Examples of these expansions include Lauren Court and Robert Street in West Brookwood and Briar Lane, Joan Drive and Ross Road in the East Brookwood. These communities included drainage collection systems but the systems all tied into undersized drainage networks that existed with the original developments.

The lake communities within the Township were once mostly used during summer months by the population that came to the Township for the purpose of enjoying the lakes. Summer dwellings with seasonal water sources were mostly found in these areas. Over the years, these dwellings were converted to full time residences with larger footprints and increased impervious coverage. This increase in impervious coverage and

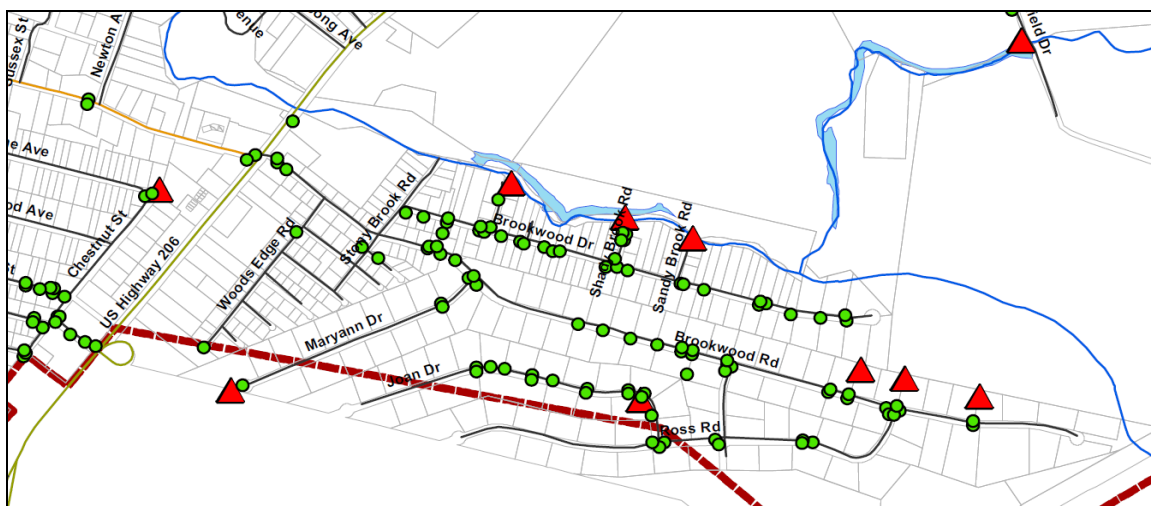
loss of natural vegetation have resulted in increased volumes of stormwater runoff. With roadways having no curbing and limited drainage systems, negative impacts to private properties have occurred. Over the years, the Township has added asphalt berms and drainage improvements to help control stormwater flow and address private property damage. These improvements have minimized the impacts of stormwater on private properties but have not fully addressed the inadequate system of undersized drainage pipes, drainage ditches that run thru private properties and direct discharge into the lakes.

In order to truly assess the drainage issues in the Township, a study needs to be performed. The goal of any study performed would be for the Township to have a clear picture of the problem drainage issues in the township and understand what corrective actions would need to be taken to address those issues. While there are many issues throughout the Township, it is my recommendation that the Township consider focusing a review/study on five (5) main areas in the Township. These areas would include: 1) East Brookwood, 2) West Brookwood, 3) Forest Lake, 4) Cranberry Lake and 5) Lake Lackawanna. A review of the known issues and a brief scope of the study needed in each area is included below.

East Brookwood:

The main known drainage issues in the East Brookwood community are related to an existing drainage system that collects stormwater above Ross Road and conveys stormwater toward Lubbers Run below Brookwood Drive. I have reviewed the drainage issues in this area several times over the years and I have found that the major issue is the drainage system that begins along Joan Drive and leads down to Brookwood Road, Brookwood Drive and eventually Lubbers Run. This system is undersized, runs thru various private properties and is inundated during larger storm events.

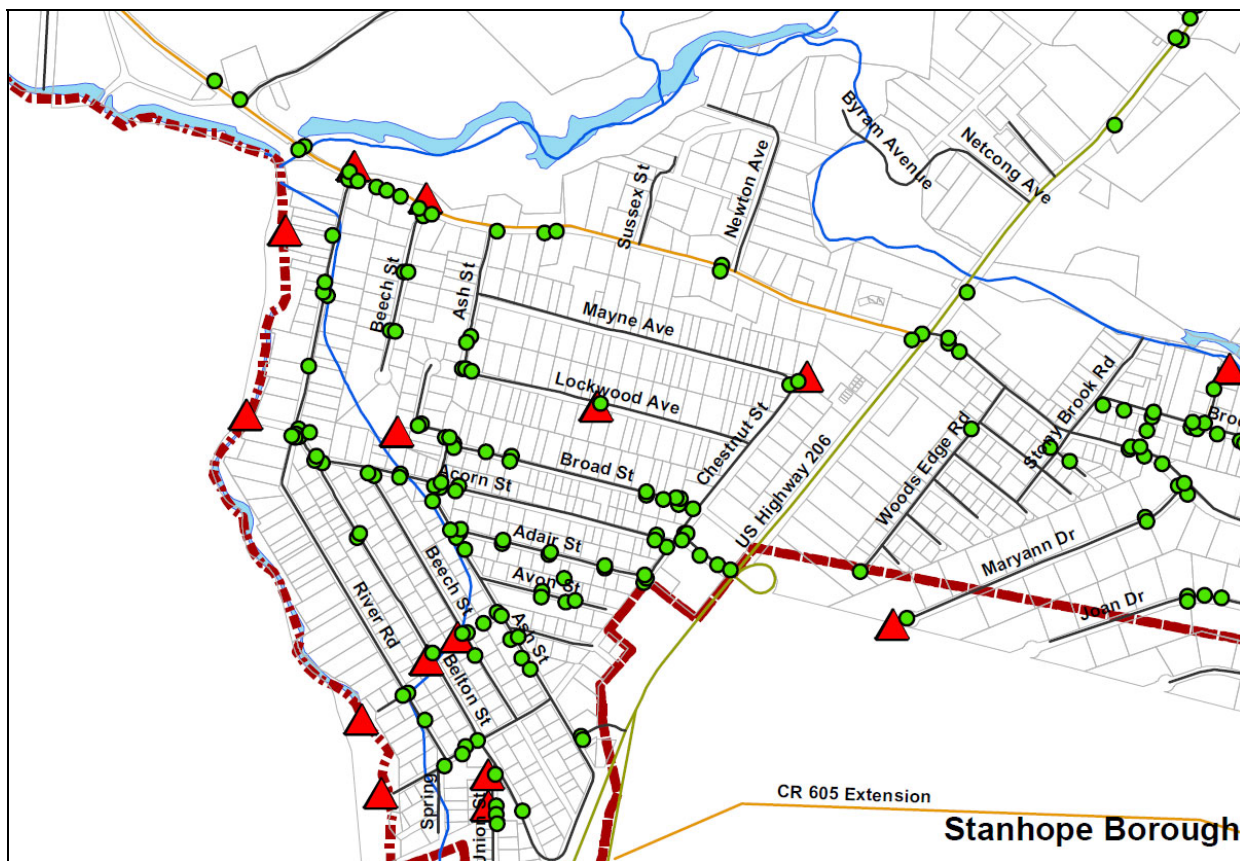
It is my belief that a portion of the drainage areas above Ross Road may be able to be redirected to other drainage discharge locations to the east. The review of the East Brookwood community will need to determine whether redirecting stormwater will be practical, determine what impacts to other properties will occur, outline what environmental permits may be required, determine what easements or land would be required for the installation of drainage pipes or detention facilities, and provide cost estimates for future work activities. A map illustrating the location of catch basins (green circles) and outfall structures (red triangles) in this community is shown below.



West Brookwood:

In West Brookwood, the drainage issues are much different than the issues in the East Brookwood community. In the West Brookwood community, there is a dense placement of homes that exist in relatively flat areas with minimal drainage systems to transport stormwater below River Road to the Musconetcong River. With areas with no major drainage systems and areas with undersized drainage pipes, stormwater lies in low areas adjacent and behind residences, ponds in vacant wetland areas, and floods properties that are low in elevation near River Road. The inadequate movement of stormwater combined with high water tables that are known to exist during the wet months of the year result in a large number of drainage issues in the West Brookwood community.

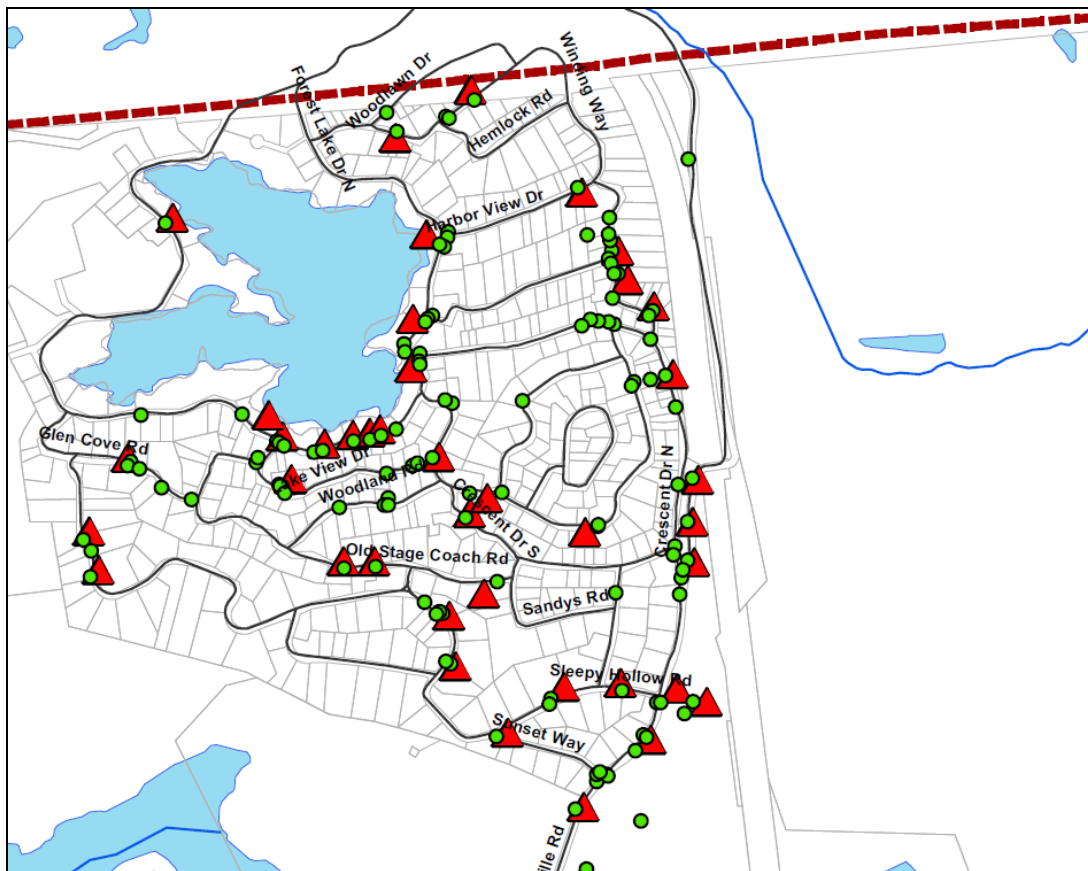
The review of the West Brookwood community would include the review and documentation of all known existing drainage networks, field visits to review drainage areas, deed research to ascertain location of dedicated easements, and preparation of potential improvement concepts and cost estimates for budgeting purposes.



Forest Lake:

The Forest Lakes community is one that has unique drainage situations where stormwater is often collected along a roadway, discharged into open ditches, collected again into closed systems and then eventually discharged into Forest Lake. The drainage networks in this community are insufficient and result in wet conditions on various properties, erosion of roadway edges and outfall pipes, and contribute to the siltation of the lake itself.

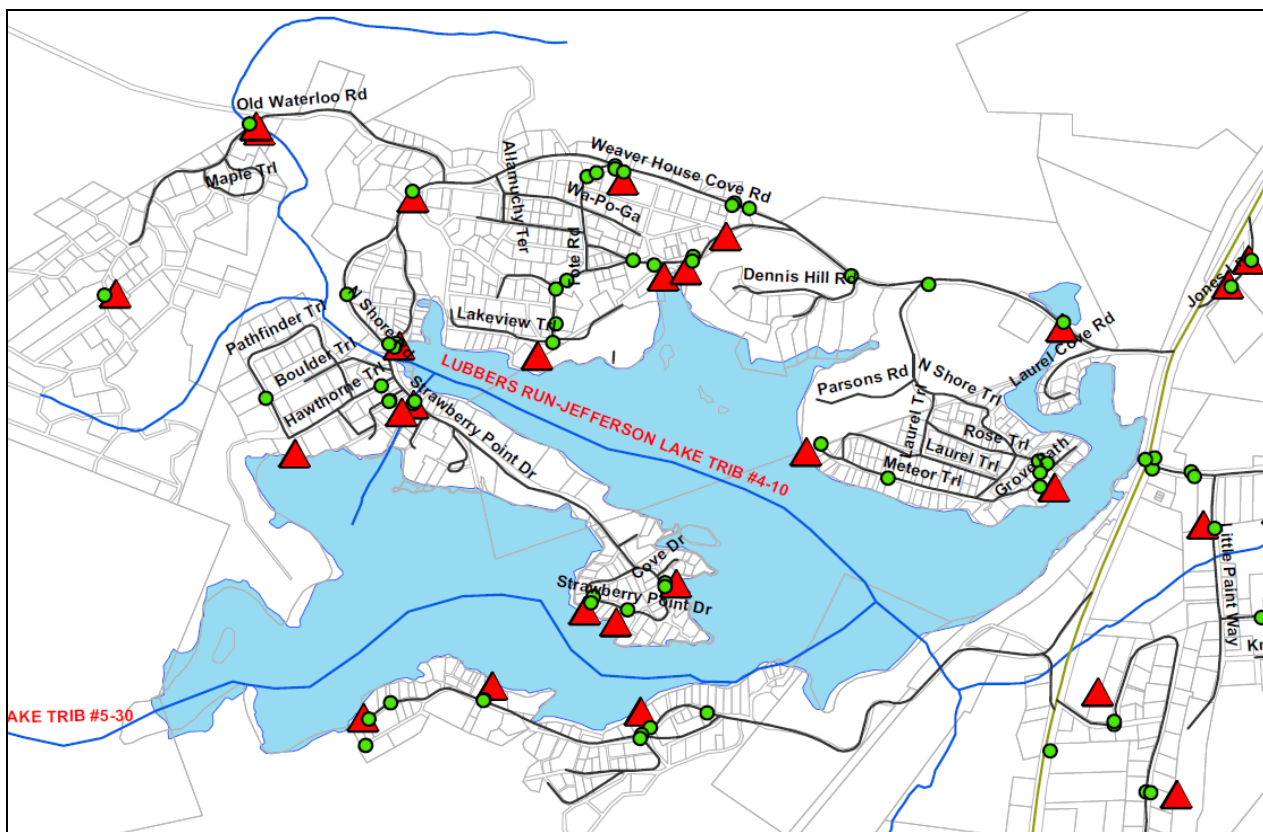
The review of the Forest Lake community would initially include the documentation of all known existing drainage networks. Our office currently has field location for most if not all drainage basins in this community but will need to field verify the location of drainage pipe and ditches that also serve to make up the complete drainage network. Upon determining the location of all pipes and ditches, tax maps and deeds will be reviewed to determine if drainage easements exist for the portions of the drainage network that are not located within the municipal roadway right-of-ways. It is anticipated that most of the drainage ditches that exist in this community are not documented as drainage easements belonging to the Township. Various concepts would need to be prepared and cost estimates for improvements that would be needed to address the various drainage issues.



Cranberry Lake:

The Cranberry Lake community is one of the communities which once consisted of summer dwellings with seasonal water sources. The conversion of these summer dwellings to full time residential properties, has resulted in enlarged building footprints and increases in impervious coverage. With little means of stormwater collection, stormwater often flows along the roadways and directly onto various residential properties. Where stormwater is collected, the collection is typically performed at isolated drainage inlets and is discharged directly into the lake or wetland areas associated with the lake. No means of stormwater quality exists with these discharges. The Township has added roadway berms at many locations within this community to minimize property damage but no major drainage improvements have been constructed.

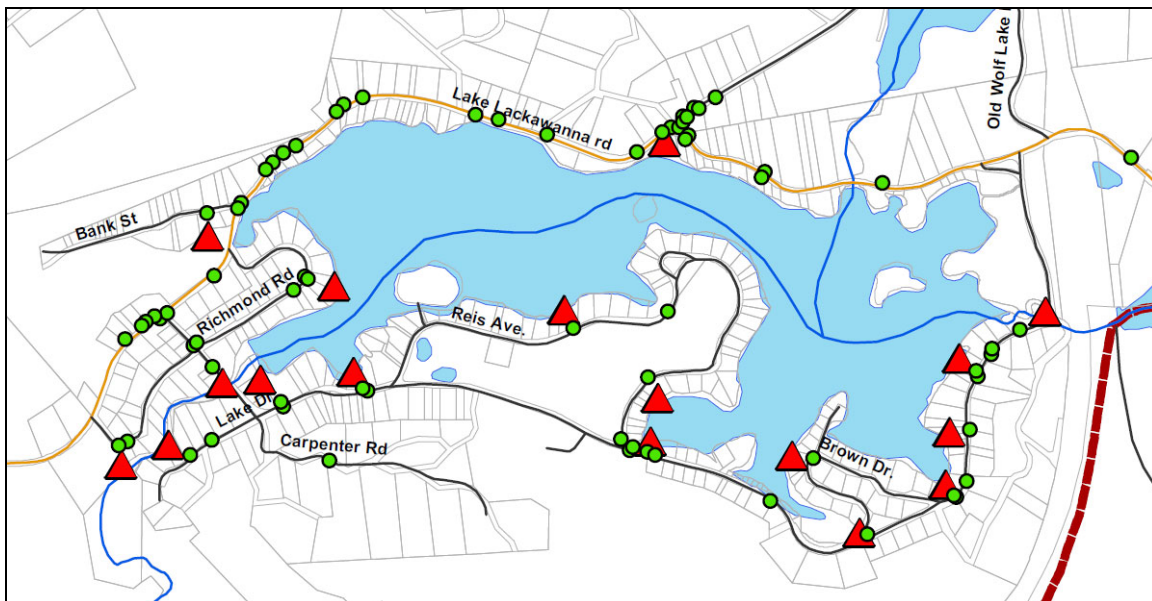
The review of the Cranberry Lake community would include the review and documentation of all known existing drainage networks, field visits to review drainage areas, document water quality measures and conditions at all outfalls, and preparation of potential improvement concepts and cost estimates for budgeting purposes.



Lake Lackawanna:

In the Lake Lackawanna community, stormwater is collected at isolated locations and is discharged directly into the lake with no means of water quality being provided. The discharge of stormwater into the lake has resulted in considerable amounts of silt being added to the lake. The siltation of the lake and the general health of the lake and the Category 1 Lubbers Run that flows from Lake Lackawanna is a major concern to the residents of the Township.

The review of the Lake Lackawanna community would include the review and documentation of all known existing drainage networks, field visits to review drainage areas, assessments of all drainage discharge locations and the preparation of potential improvement concepts that will properly handle the flow of stormwater while increasing the amount of water quality that is provided before discharge into the lake.



There are other areas of the Township with known drainage issues but the above five (5) areas are the major ones that I would recommend that the Township consider investigating at this time. If you have any questions regarding any of the information provided above or would like to discuss the scope of work in greater detail, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read "Cory L. Stoner".

Cory L. Stoner, P.E., C.M.E.
HAROLD E. PELLOW & ASSOCIATES, INC.
Byram Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\BYRAM\COUNCIL\03-257 - COUNCIL BUSINESS\SABATINI - 2022 STUDY OF KNOWN DRAINAGE ISSUES.DOC

2022 Department of Public Works Capital Requests

Michael Orgera

Superintendent of Public Works

2009 Sterling Bullet Mason Dump 4x4

- Truck is used every day for all functions of DPW, including plowing and salting.
- Truck has 73,000 miles.
- Rust on cab and front suspension components.
- Truck has multiple mechanical issues, transmission/motor/rear end.
- Truck has electrical issues that compound the mechanical issues.
- Rear suspension has been upgraded once will need again.
- Due to electrical issues heat and a/c function intermittently.
- Do to make of truck all major parts are no longer available from any dealer, all parts must be paid in full with no guarantee on parts or fitment.
- Requesting \$110,000. 00 to replace truck/salter/plow.



2012 GMC 3500 4x4 Ex Cab

- 86,000 miles
- Truck is used in daily operations of department
- Rust issues cab/bed/suspension
- Mechanical issues: transmission slipping, exhaust manifolds leaking
- Significant body damage
- Electrical issues in engine compartment
- Wheels starting to leak air due to rust
- Requesting \$60,000.00 to replace with more versatile truck



2007 Grounds Master Side Winder

- This mower was traded in on other equipment due to age/mechanical issues and changes within the department.
- Would replace with another 72" Scag Zero Turn Mower
- Would greatly improve cutting times
- With buying a smaller mower to cut hillsides (purchased from operating budget) and a zero turn is a significant savings over replacing this mower in kind.
- Requesting \$15,000.00 to replace mower



Clean Air Company, Inc.

QUOTE

428 New Brunswick Avenue, Fords, NJ 08863,
www.CleanAirCo.com
 732-738-8818(p) 732-738-4914 (f)
 Brendanb@cleanairco.com

QUOTE #	CACQ24436
DATE	Oct 28, 2021

Sold To:
 Mike Orgera
 Byram Twp DPW
 , NJ

Ship To:
 Mike Orgera
 Byram Twp DPW
 , NJ

Bill To:
 Mike Orgera
 Byram Twp DPW
 , NJ

Phone (973)769-5022

Phone (973)769-5022

Phone (973)769-5022

This quote is for the installation of one Plymovent SER 850 Spring Operated Hose Reel, one 33' long x 5" diameter 600 degree hose, one vice grip nozzle, one 3 phase - 460 volt fan and control box (fan starter), all Plymovent related duct work and labor is quoted at prevailing wage. Basic electrical power wiring is included but does not include electric panel upgrades or wiring upgrades. Tailpipe modifications if needed are by others. Any fees for architectural, engineered, or HVAC drawings, stamps or seals are by others.

SALESPERSON	PROJECT NAME	PAYMENT TERMS	SHIP VIA
Brendan	Byram Twp DPW	net 30	Client Account

QTY	DESCRIPTION
1	Spring Recoil Hose Reel, 33.5"/850mm wide drum, suitable for 4, 5 or 6" hoses, 33'/10mtr long max.
1	Hose reel hose adaptor kit, used to connect a five-inch hose to an SER 450, 850 or 1050 reel. Comes with reducer, U-bolt, rubber hose stop collar and clamp.
1	Yellow & Black exhaust hose, 33ft lg, 5inch diameter. Temp resistance 570F w/ external steel helix and yellow protection wear strip over helix.
2	5.5" DIAMETER HOSE CLAMP SS (FOR 4.75" GRABBER TO ELBOW CONNECTION)
1	Rubber Oval Nozzle w / CO test port & Pincher Clip, for 5inch hose connection, oval is 4.6inch x 8.3inch w/ manual airflow damper
1	F SERIES FAN, 3/4HP, 3450 RPM, 208-230 / 460V, 3 PHASE, 60 HZ, TEFC MOTOR, CLASS B CENTRIFUGAL FAN, GRAY FAN HOUSING. STANDARD UPBLAST VERTICAL DISCHARGE (UVD) CONFIGURATION
1	SA-24 control box for 3/4HP, 460volt, three phase motor, rated for 1.1A, with transformer, contactor, overload and fuses. NEMA 12 enclosure.
1	Single throw, double pole Micro Switch for fan start/stop and/or motorized damper activation. (The MSR toggle switch can be connected to a Plymovent SA-24, ES-90 or DCV controller to provide a start/stop signal. 24 volt maximum. To be used with all Plymovent Hose Reels).
2	Hose Reel Mounting Equipment hardware per vertical support
1	Duct Related Materials
	Miscellaneous materials required for installation.
	Handgrenaded Duct Estimate for budget quote
1	Electrical power wiring
8	Prevailing wage installation rate for two men per hour

This price is good for 60 days from date of issue.

The title and right to possession of all property listed above shall be and remain with Clean Air Company Inc. until entire purchase price is paid in full by purchaser, at which time title shall transfer to purchaser. Payment terms are net 30. All balances over 30 days will be assessed a 1.5% monthly finance charge. Collection fees encumbered, including legal fees, will be the purchaser's responsibility. The undersigned accepts the terms and conditions of this quotation.

SUBTOTAL	\$14,371.60
SALES TAX	\$0.00
TOTAL	\$14,371.60

Signed: _____ Title: _____

Name: _____ PO Number: _____

Payment Options

Select your preferred payment option / purchase terms*:

- ☐ Credit Card Purchase (purchase amount \$14,371.60)
- ☐ eCheckACH Purchase (purchase amount \$14,371.60)
- ☐ Check Purchase (purchase amount \$14,371.60)
- ☐ CustomPaymentType1 Purchase (purchase amount \$14,371.60)

* If this quote contains lease payment options, the lease options are provided as an estimate only. Final lease payment amount is subject to credit verification and applicable taxes as required by law.

Please contact me if I can be of further assistance.

Shipping will be billed at actual costs. If you would like to use your carrier please discuss with your sales rep.