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September 24, 2024

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 2025
Byram Township, Sussex County

Dear Joe:

As requested, I have prepared a list of projects and engineering activities that may be considered in the 2025 Township Budget. This list takes in consideration that natural gas is continuing to be installed or is being planned for a number of areas within the Township. The neighborhoods where natural gas is being installed currently include Tamarack Road and Forest Lake communities (Elizabethtown Gas) and East/West Brookwood communities (New Jersey Natural Gas). Natural gas is scheduled for next year to begin Cranberry Lake and Little Paint Way (Elizabethtown Gas) and Lake Lackawanna (New Jersey Natural Gas). With this in mind, it is my recommendation that the following projects be considered for 2025:

1. Improvements to Roseville Road

The project will consist of the milling and resurfacing of Roseville Road beginning 0.2 mile north of Amity Road and ending at Lackawanna Road (CR 607). The proposed project will be approximately 1.4 mile in length. Roseville Road is a major arterial roadway in the Township which is showing considerable deterioration. An application was submitted for the 2025 NJDOT Municipal Aid Grant program for Roseville Road in the amount of \$275,000.00. With the success the Township has had in recent years in obtaining NJDOT Municipal Aid grants, it is anticipated that this roadway will receive grant funding for 2025. The estimated costs for this project are as follows:

Construction Costs	\$ 325,000.00
Surveying & Engineering Design	\$ 15,000.00
Construction Inspection & Management	\$ 17,000.00
Asphalt Cores & Testing	\$ 3,000.00
Total Estimated Costs	\$ 360,000.00

2. **Improvements to Various Roadways in the Sparta Stanhope (CR 605) Section of the Township:**

Elizabethtown Gas has completed the gas main and service installation work in the communities in the north portion of the Township near Sparta Stanhope Road (CR 605). Now that the gas service work is being completed, it is recommended that the following roadways in this area be targeted for resurfacing in 2025:

Construction Costs \$ 300,000.00

Anderson Lane	\$ 15,000.00
Ascot Lane.....	\$ 66,000.00
Mara Lane.....	\$ 10,000.00
Matthew Drive.....	\$ 35,000.00
Carlson Lane	\$ 20,000.00
Mountain Heights	\$105,000.00
Mountain View Terrace	\$ 15,000.00
Circle Drive	\$ 18,000.00
Seneca Lake Road	\$ 16,000.00

Engineering Design..... \$ 15,000.00

Construction Inspection & Management \$ 15,000.00

Total Estimated Costs..... \$ 330,000.00

3. **Improvements to Various Roadways along Waterloo Road:**

A number of roadways along Waterloo Road have not been resurfaced in many years. It is recommended that the Township consider resurfacing these roadways while gas main and service work is occurring in many locations within the Township. The roadways for consideration include:

Construction Costs \$ 187,500.00

Byram Avenue	\$ 15,000.00
Cascade Avenue	\$ 10,000.00
Newton Avenue.....	\$ 25,000.00
Sussex Street	\$ 22,000.00
Lauren Court.....	\$ 60,500.00
Jefferson Lake Road	\$ 55,000.00

Engineering Design..... \$ 7,500.00

Construction Inspection & Management \$ 10,000.00

Total Estimated Costs..... \$ 205,000.00

4. **Improvements to Birch Parkway:**

Birch Parkway is a residential roadway in the Lake Mohawk section of the Township and is showing considerable deterioration. This roadway is one of the few roadways in Lake Mohawk that fall under the Township’s jurisdiction for maintenance. Birch Parkway received gas service in 2023 and will have drainage upgrades completed by Sussex County in early 2025. Once those improvements are made, it is recommended that the Township consider resurfacing this roadway in 2025. The estimated costs for this project are as follows:

Construction Costs	\$ 90,000.00
Surveying & Engineering Design	\$ 5,000.00
Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs.....	\$ 100,000.00

Note: Sparta Township will resurface its section of Birch Parkway when the Byram Township section is being resurfaced.

5. **General Roadway Repairs:**

Since the Township has obtained additional maintenance and paving equipment, the quality of roadway patch and repairs has increased within the Township. In order to continue to provide high quality repairs on Township owned roadways, it would be my recommendation that the Township set aside **\$20,000** specifically for general roadway maintenance and repairs to be completed by the Township DPW.

6. **Roadway Crack Sealing:**

It is recommended that the Township continue to perform crack sealing on major roadways within the Township. An active crack sealing program will serve to extend 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 2025 budget.

7. **Roadway Striping:**

In order to maintained the safety of the major roadways as the roadways age and the traffic stripes fade, I would again 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 stripes, 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 2025 budget for roadway striping. This will allow for the restriping of approximately 3 miles of double yellow centerline striping on the major roadways.

8. **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 2025. 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.

9. **Various Improvements at Carl O. Johnson Park:**

The last major improvements at Carl O. Johnson Park were completed in 2005. As any park ages, improvements need to be made to improve the park or address maintenance related items. A review of various improvements to be considered in 2025 include the following:

- a. **Skateboard Park:** The existing skateboard park surface has aged and has significant cracks which are as wide as 2 inches in some areas. Due to the age of this surface and the width of cracks, it is my recommendation that the skateboard equipment be moved from the park and the existing pavement be milled and resurfaced. Once the pavement is resurfaced, the equipment can be replaced and the park reopened for use. It is estimated that the costs for this project would be **\$ 90,000**.
- b. **Wood Beam Guiderail:** In order to stop vehicles from being parked along the left side of the access road into the park (near detention basin), the Township may want to consider installing a wood beam guide rail similar to what has been installed in other sections of the park. The cost to install 240 feet of wood beam guide rail will be approximately **\$25,000**.
- c. **Large Parking Area Patching & Oil/Stone Resurfacing:** Due to budget constraints, the large upper parking areas was originally constructed gravel lot and was not surfaced with asphalt. Years later, the parking lot was surfaced with millings and topped with an oil/stone treatment. This parking lot is beginning to have potholes and is in need of surfacing. It is my recommendation that the Township minimally repair the potholes and surface the parking lot again with an oil/stone treatment. It estimated that the cost to patch the parking lot and resurface will be **\$15,000**.

Note: The Township may want to install an asphalt surface on this parking lot that will have all parking spaces line striped. If the Township wishes to consider that option, I estimated that cost would be approximately \$60,000.

10. **Mohawk View Park Fencing**

The existing chain link fencing at the Mohawk View Park is in poor condition and need of replace placement. Currently, 450 feet of 4 foot high chain link fence, one opening without a gate and one opening with a gate exists at the park. The cost to remove this fence and install two (2) gates for the opening in the fencing is estimated to be **\$27,000**.

11. **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**

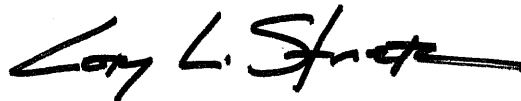
A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that **\$5,000.00** be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

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 2025. 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

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