



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, *PRESIDENT*
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(5/26/84 – 7/27/89)

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NJ – L.L.A., NJ – P.P.

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

September 10, 2020

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 2021
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 2021 Byram Township Budget. The list of these projects and activities is as follows:

1. Improvements to Fieldstone Trail

Fieldstone Trail is a major residential roadway in the northern section of Byram Township which is showing considerable deterioration. With Fieldstone Trail being a major roadway in this area, it was decided that this roadway would be a prime candidate for the 2021 NJDOT Municipal Aid Grant program. An application was submitted for this project in the amount of \$250,000.00. The estimated costs for this project are as follows:

Construction Costs	\$ 295,000.00
Surveying & Engineering Design	\$ 10,000.00
Construction Inspection & Management	\$ 10,000.00
Asphalt Cores & Testing	\$ 2,500.00
Total Estimated Costs	\$ 317,500.00

2. Improvements to Deer Hill Run North & Deer Hill Run South

As stated above, it is recommended that Fieldstone Trail be resurfaced in 2021. While performing work on Fieldstone Trail, it would be in the Township's best interest to resurface Deer Hill Run North and Deer Hill Run South at the same time to minimize disruption to the residential neighborhood. These roadways are also in poor condition and need attention. The estimated costs for this project are as follows:

Construction Costs	\$ 73,000.00
Engineering Design	\$ 2,500.00
Construction Inspection & Management	\$ 2,500.00
Total Estimated Costs	\$ 78,000.00

3. **Improvements to Cranberry Lake Roadways**

In 2020, 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 2021: Weaver House Cove Road, Brook Trail, Hickory Trail, Fox Trail, Side Hill Trail, Boulder Trail, Hawthorne Trail, Landone Trail, Bald Rock Trail and Pathfinder Trail. 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 \$ 166,000.00

Weaver House Cove Road	\$ 55,000.00
Brook Trail	\$ 8,000.00
Hickory Trail	\$ 5,000.00
Fox Trail	\$ 14,000.00
Side Hill Trail	\$ 15,000.00
Boulder Trail	\$ 14,000.00
Hawthorne Trail.....	\$ 24,000.00
Landone Trail	\$ 8,000.00
Bald Rock Trail	\$ 4,000.00
Pathfinder Trail.....	\$ 19,000.00

Engineering Design..... \$ 10,000.00

Construction Inspection & Management \$ 10,000.00

Total Estimated Costs..... \$ 186,000.00

4. **Improvements to Various Streets**

In addition to the Cranberry Lake roadways, the Township may wish to consider improving roadways along the Route 206 corridor. A number of these roadways were resurfaced last during the years between 2000 and 2002 and are showing considerable deterioration and are in need of repairs. A review of the roadways recommended for improvements and the anticipated costs for improvements to each of these roadways is as follows:

Construction Costs \$ 250,000.00

Jans Way	\$ 12,000.00
Rosemarie Lane	\$ 16,000.00
Maple Road	\$ 22,000.00
Birch Road	\$ 46,000.00
Willor Drive	\$ 24,000.00
Drexel Drive	\$ 27,000.00
Francis Terrace	\$ 14,000.00
Hi Glen Drive	\$ 17,000.00
Pierson Drive.....	\$ 25,000.00

Ridge Place	\$ 6,000.00
Johnson Boulevard	\$ 23,000.00
Jones Lane	\$ 18,000.00
Engineering Design.....	\$ 10,000.00
Construction Inspection & Management	\$ 10,000.00
Total Estimated Costs.....	\$ 270,000.00

5. Improvements to Forest Lake Roadways

In 2014, the majority of the roadways within the Forest Lake community were showing signs of deterioration and were in need of improvements. It was decided at that time to chip seal these roadways in order to preserve the existing roadways and reduce the deterioration that was occurring. These roadways are again beginning to show deterioration and are in need of attention. These roadways can be chip sealed, cape sealed or they can be milled/resurfaced. Based on the negative response to the chip seal program by residents of the community, I assume that the Township may wish to pursue a higher level of improvements. If that is the case, I would recommend that the Township consider starting a milling and resurfacing program in this community. The first roadways that I would recommend for milling and resurfacing would be Crescent Drive North and Winding Way. Both of these roadways are showing considerable signs of deterioration and are in need of attention. A review of the anticipated costs for improvements to these roadways is as follows:

Construction Costs	\$ 190,000.00
Crescent Drive North	\$ 120,000.00
Winding Way	\$ 70,000.00
Engineering Design.....	\$ 5,000.00
Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs.....	\$ 200,000.00

6. Improvements to Continental Drive

The majority of Continental Drive is located in Mount Olive. A portion of Continental Drive, however, is located within Byram Township, is in poor condition and is in need of rehabilitation. With Mount Olive planning to be resurfacing their portion of Continental Drive in 2020 and 2021, it is recommended that Byram Township consider resurfacing the portion of Continental Drive in Byram Township. The estimated costs for this project are as follows:

Construction Costs	\$ 80,000.00
Surveying & Engineering Design	\$ 5,000.00
Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs.....	\$ 90,000.00

7. **Roadway Crack Sealing:**

In 2021, I recommend that the Township consider restarting a crack seal program for the major roadways within the Township. With the Township DPW obtaining proper equipment for road repairs within the past year, I believe it would be beneficial to add a crack sealing program to further 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 2021 budget.

8. **Roadway Striping:**

As roadways age, the roadway striping fades and the night time visibility of a roadway diminishes. In order to maintain 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 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 2021 budget for roadway striping. This will allow for the restriping of approximately 3 miles of double yellow centerline striping on the major roadways.

9. **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 2021. Assuming 5 days of jet vac services similar to what was performed in the past, it is recommended that **\$10,000.00** be budgeted for this work.

10. **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**

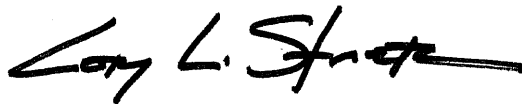
A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that **\$5,000.00** be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

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 2021. 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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TOWNSHIP OF BYRAM

NEW JERSEY

MAILING ADDRESS:
10 MANSFIELD DRIVE
STANHOPE, NJ 07874
Phone: 973-347-2500
Fax: 973-347-0502



WEBSITE ADDRESS:
www.byramtwp.org

December 10, 2020

New Jersey State Police
Attn: Jillian Stokley - NJOEM Mitigation Unit
Box 7068 River Road
West Trenton, NJ 08628

RE: FEMA Project # HMGP-DR-4086
Federal Project #528
State Project #337
Byram Township, Sussex County, NJ

Dear Ms. Stokely,

As you are aware, the Township of Byram was awarded a FEMA Hazard Mitigation Grant for the proposed flood mitigation project to improve Little Paint Way in Byram Township. This project was proposed to address flooding that occurs along Little Paint Way during large storm events. The FEMA Hazard Mitigation Grant was obtained for this project based on an original estimate of \$125,000. The grant is a 90/10 grant with a 90% Federal share and a 10% non-Federal share.

During the final design phase of this project, a project to greatly improve flooding conditions over Little Paint Way was developed. These improvements would include the reconstruction of approximately 250 feet of Little Paint Way, the raising of the roadway by approximately 2.5 feet, and the installation of multiple drainage pipes to convey water under Little Paint Way. The project also included the construction of gabion retaining walls to minimize fill in the flood plain and the installation of beam guide rail. The estimated total cost for the project was raised to \$260,000. Subsequently, Byram Township requested a Scope of Work (SOW) modification for the Township's Hazard Mitigation Grant. On July 31, 2019, FEMA approved the SOW modification.

Once the additional funding was secured, the Township proceeded to the final permitting phase of the project. During this phase, the scope of the project was again changed. The New Jersey Department of Environmental Protection (NJDEP) is now requiring that the drainage pipe under Little Paint Way be replaced with a 3-sided box structure which would have a larger span to allow for Threatened and Endangered species to safely cross under the roadway. This will result in the design of the project including the same raising of Little Paint Way but will now include the construction of a 3-sided box culvert that will have a span of approximately 12 feet. This is a major change from the 36" pipe crossing that exists today.

The new design being required by the NJDEP has greatly increased the cost of this project. Byram Township still believes that this project will be a valued project that will allow the Township to build a stronger infrastructure and provide uninterrupted critical services during emergencies. The total

estimated costs, however, again exceeds the funding availability of Byram Township. The total estimated cost of the project is now \$520,000.00.

To complete this project per NJDEP requirements, Byram Township would like to request a SOW modification to increase the total cost of the project to the new estimate of \$520,000. With this modification, it is expected the Federal share will increase to \$468,000 with Byram Township contributing \$52,000.

The new SOW for the project will include the following (See Attached Estimate):

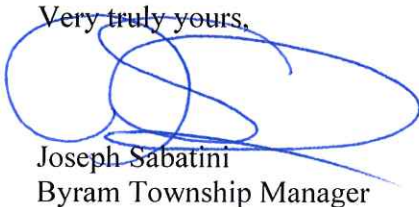
- A. Construct temporary roadway to allow room for roadway construction.
- B. Replace 36" pipe crossing with a 12' wide three-sided culvert with natural stream bottom.
- C. Construct concrete abutment and retaining walls to minimize fill in wetland areas.
- D. Install fill to raise the roadway profile.
- E. Construction roadway pavement.
- F. Install guide rail
- G. Complete stabilization of disturbed areas.

If approved, Byram Township will move forward in completing the NJDEP permit application plan changes and continue coordination with the NJDEP. Based on communications with NJDEP representatives, plan changes made to meet the requirements being placed on this project will be well received and permit approvals will be swiftly granted. If that occurs, we would anticipate that the permits will be in hand within a few months and the project can be fully completed by the end of the 2021 calendar year.

If the SOW modification to increase the cost of the project is not approved, Byram Township will then pursue replacing the existing 36" pipe in-kind under the current HMGP-DR-4086 grant. Per NJDEP regulations, a drainage pipe can be replaced in-kind under a NJDEP Flood Hazard Area Permit-By-Rule and a Freshwater Wetlands General Permit. Under this scenario, a structurally improved pipe will be installed, and the safe passage of stormwater and the protection of access to the residents of this community will be maintained. This will be a major improvement to Little Paint Way but will not include the raising of the roadway as originally proposed. It is assumed that the replacement of the existing culvert pipe would still be permitted under the current grant.

With the above being stated, the flood mitigation improvements proposed for Little Paint Way are valued improvements for the residents of Byram Township and it is hoped that the request to increase the SOW will be received favorably and additional funding will be available for this project. If you have any questions regarding the request for a SOW modification or wish to discuss the project in greater detail, please do not hesitate to contact me directly.

Very truly yours,



Joseph Sabatini
Byram Township Manager

Cc: Byram Township Mayor and Council
Ashleigh M. Frueholz, Byram Township Chief Financial Officer
Cory Stoner, Byram Township Municipal Engineer

Little Paint Way Roadway & Culvert Improvements

Byram Township, Sussex County, NJ

HPA No. 18-122

Engineer's Cost Estimate

STD. ITEM NO.	TO BE CONSTRUCTED	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	MOBILIZATION	100%	L.S.	\$20,000.00	\$20,000.00
2	CONSTRUCTION SIGNS	100	SQ. FT.	\$30.00	\$3,000.00
3	TYPE III BARRICADES	5	UNIT	\$100.00	\$500.00
4	TRAFFIC FLAGGERS	120	HOURS	\$75.00	\$9,000.00
5	DRUMS	20	UNIT	\$50.00	\$1,000.00
6	CLEARING SITE	100%	L.S.	\$20,000.00	\$20,000.00
7	SAWCUTTING, FULL DEPTH	50	LIN. FT.	\$10.00	\$500.00
8	EXCAVATION, UNCLASSIFIED	1,000	CU. YD.	\$30.00	\$30,000.00
9	CONCRETE CULVERT (14' WIDE X 6' HIGH)	100%	L.S.	\$110,000.00	\$110,000.00
10	CONCRETE HEADWALLS & FOOTINGS	100%	L.S.	\$50,000.00	\$50,000.00
11	GABION BASKET HEADWALLS	200	CU. YD.	\$225.00	\$45,000.00
12	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	300	TON	\$30.00	\$9,000.00
13	BANKRUN BORROW BACKFILL	500	TON	\$30.00	\$15,000.00
14	MILLING, 2" THICK	300	SQ. YD.	\$25.00	\$7,500.00
15	HOT MIX ASPHALT 19M64 BASE COURSE, 3" THICK	150	TON	\$150.00	\$22,500.00
16	HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK	100	TON	\$150.00	\$15,000.00
17	TOPSOILING 4" THICK, SEEDING, FERTILIZING & STRAW MULCH	400	SQ. YD.	\$25.00	\$10,000.00
18	SILT FENCE	600	LIN. FT.	\$5.00	\$3,000.00
19	DIVERSION & STREAM FLOW PROTECTION	100%	L.S.	\$10,000.00	\$10,000.00
20	SHEET PILING & TEMPORARY ROADWAY WIDENING	100%	L.S.	\$20,000.00	\$20,000.00
21	BEAM GUARD RAIL	400	LIN. FT.	\$40.00	\$16,000.00
22	TANGENT GUARD RAIL TERMINAL	4	UNIT	\$3,500.00	\$14,000.00
23	DRIVEWAY REPAIRS	20	TON	\$200.00	\$4,000.00
24	ENGINEERING DESIGN & PERMIT APPLICATION PREPARATION	100%	L.S.	\$50,000.00	\$50,000.00
25	NJDEP & SCSCD PERMIT FEES	100%	L.S.	\$15,000.00	\$15,000.00
26	CONSTRUCTION ENGINEERING, INSPECTION & MANAGEMENT	100%	L.S.	\$20,000.00	\$20,000.00
	TOTAL ESTIMATED COST OF CONSTRUCTION:				\$520,000.00

SIGNED:

Cory L. Stoner, P.E., C.M.E.

HAROLD E. PELLOW & ASSOCIATES, INC.

Byram Township Engineer



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

December 11, 2020

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: East Brookwood Alternate & Emergency Access
Byram Township, Sussex County
HPA No. 19-341

Dear Joe,

As requested, I have proceeded in looking deeper into the feasibility of the alternative to construct an access roadway between the end of Wood Edge Road and the Acorn Plaza parking lot (Block 42 Lot 113). This alternate was described as Alternative #1 in the “East Brookwood Alternate & Emergency Access Review” report that I prepared and submitted in September 2020. This alternative would include the construction of a new access roadway that would permit vehicles to travel from Woods edge Road to Route 206 on an emergency basis. Based on further review of this alternative, I would like to offer the following updated information:

Construction Cost Estimate: The proposed access roadway would be a 20 foot wide paved roadway, gated on both ends and would only be used on an emergency basis with police officer traffic director. An updated estimate of the costs that will associated with the construction of this alternative is as follows:

Access Road Construction Costs	\$ 127,000.00
Engineering Design, Surveying & Permitting	\$ 30,000.00
Highland Applicability Determination Permit Fee	\$ 4,000.00
NJDEP Freshwater Wetlands Permit Fee	\$ 3,000.00
Sussex County Soil Conservation District Fees.....	\$ 1,000.00
Wetland Mitigation Costs	\$ 20,000.00
Construction Inspection & Management	\$ 10,000.00
 Total Estimated Costs	 \$ 195,000.00

Environmental Permitting: The proposed access roadway would be constructed within a freshwater wetland area that is located between the end of Woods Edge Road and the Acorn Plaza parking lot. It is estimated that the project would disturb approximately 5,000 sf. of wetlands and approximately 1,500 sf. of wetlands buffer area. This disturbance would require a NJDEP Freshwater Wetlands General Permit. Upon a review of NJDEP regulations, it is anticipated that a Freshwater Wetlands General

Permit 10B – Minor Road Crossing will be required for this project. Such a permit would allow for a total a total disturbance of ¼ acres of wetlands and transition area.

It should be noted that wetland mitigation is required for projects that will have a permanent disturbance of 0.1 acres of freshwater wetlands. This would require a 2:1 compensation for all removed vegetation and a conservation easement to preserve the restoration area. Per the wetlands that we obtained from available GIS mapping, the anticipated freshwater wetland area disturbance will be very close to the maximum 0.1 acres. For purpose of providing an updated cost estimate, I have assumed that wetland mitigation plantings will be required. Wetland mitigation plantings, if required, will planted on the property in question or on another property in close proximity to the freshwater wetland areas being affected by this project.

In addition to freshwater wetlands, the issue of the proposed access roadway being constructed within the Highlands Preservation Area (end of Woods Edge Road) and the Highlands Planning Area (Acorn Plaza property) will need to be addressed. Since the project will require an environmental land use permit, the project will likely be deemed a Major Highlands Development per the definitions provided under the Highlands Water Protection and Planning Act. I have reviewed the Highlands approval requirements with the Township's Highlands Council representative and I anticipate that the project will qualify for Exemption #10 that will allow for the construction of transportation safety project provided that the project does not result in the construction of any new through-capacity travel lanes.

Easement Thru Acorn Plaza Property: On December 2, 2020, I had a phone conversation with Mr. Feldman who is the owner of the Acorn Plaza property. Mr. Feldman has been the owner of the Acorn Plaza for many years and is aware of the concerns for an alternate access into and from the East Brookwood community. During our phone conversation, he expressed a number of concerns that he had regarding the construction of the proposed access road connection to his parking lot. These concerns included the following:

1. **Parking Lot Damage:** Mr. Feldman stated that he had recently resurfaced his parking lot and he was concerned about what damage could occur to this parking lot if he allowed residents, ambulances, fire trucks, etc... to access East Brookwood thru his property.
2. **Liability:** In the past, there had been problems with minors from East Brookwood skateboarding and simply hanging out on this property. Over the years that has subsided but he concerned about this would occur again if a paved roadway is constructed to Woods Edge Road and an easy access to the rear of his property is provided.
3. **Environmental Permitting:** The project being proposed by the Township would require NJDEP permits and possibly Highlands approval. Mr. Feldman is concerned that permits obtained for work on his property may hinder his development in the future if he needs a permit for something else.
4. **Future Development:** Mr. Feldman stated that he developed the site years ago in a manner that allowed for a pad site on the south side of the parking lot for future 2nd building. In order for such a project to qualify for Highland's Exemption #4, the total impervious coverage on his developed properties would need increase the impervious coverage by less than 125%. The

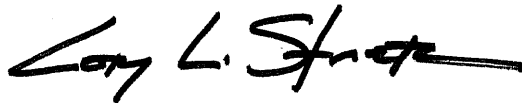
addition of impervious coverage for the proposed access road on his property may hinder the development in the land in the future if the access road impervious coverage counts toward the maximum 125% requirement.

Overall, I believe that the environmental permits for the emergency access roadway can be acquired and the project can be constructed as proposed within the costs listed above. The main item that needs to be addressed before the project can be deemed fully feasible is whether the owner of the Acorn Plaza will agree to the construction of the access road as proposed. The issues of liability and damage to the parking lot are items that will need to be addressed in a future easement agreement between the Township and Mr. Feldman. In regards to controlling access to the rear of the property, I would recommend that chain link, wood, or plastic fencing be installed with gates along the rear of the Acorn Plaza parking lot to guard against free access. In anticipation that these will be needed, I have included costs for these items in the estimated construction costs provided earlier in this memorandum.

The biggest issue with obtaining an easement agreement thru the Acorn Plaza property may be the issue of impacting potential development on the properties owned by Mr. Feldman. I have discussed this issue with the Township's Highlands representative and they are currently investigating whether the access roadway impervious coverage could be deemed exempt and not be counted toward a future development project. As of today, I do not have an answer to that question.

I trust this information will be useful and valued by the Mayor and the Council. As you have asked, I will plan to attend the next Council meeting and will be prepared to answer any questions that they may have regarding the construction of this alternative.

Very truly yours,



Cory L. Stoner, P.E., C.M.E.

HAROLD E. PELLOW & ASSOCIATES, INC.

Byram Township Engineer

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Enclosure (*Engineer's Estimate*)

**East Brookwood Emergency Access
Alternative #1 - Woods Edge Road
Byram Township, Sussex County, NJ
HPA No. 19-341
Engineer's Cost Estimate (Updated 12/11/20)**

STD. ITEM NO.	TO BE CONSTRUCTED	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	MOBILIZATION	100%	L.S.	\$10,000.00	\$10,000.00
2	CONSTRUCTION SIGNS	64	SQ. FT.	\$25.00	\$1,600.00
3	DRUMS, IF & WHERE	10	UNIT	\$50.00	\$500.00
4	TYPE III BARRICADES	4	UNIT	\$100.00	\$400.00
5	CLEARING SITE	100%	L.S.	\$20,000.00	\$20,000.00
6	SILT FENCE, IF & WHERE	300	LIN. FT.	\$5.00	\$1,500.00
7	ROADWAY EXCAVATION, UNCLASSIFIED	300	CU. YD.	\$30.00	\$9,000.00
8	BORROW FILL	500	CU. YD.	\$30.00	\$15,000.00
9	DENSE GRADED AGGREGATE BASE COURSE, 5" THICK	600	SQ. YD.	\$30.00	\$18,000.00
10	HOT MIX ASPHALT 19.5M64 BASE COURSE, 3" THICK	100	TON	\$125.00	\$12,500.00
11	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK	80	TON	\$150.00	\$12,000.00
12	15" HIGH DENSITY POLYETHYLENE PIPE	30	LIN. FT.	\$50.00	\$1,500.00
13	INLET, TYPE "E"	2	UNIT	\$3,000.00	\$6,000.00
14	TOPSOILING 2" THICK, SEEDING, FERTILIZING & MULCHING	300	SQ. YD.	\$10.00	\$3,000.00
15	CHAIN LINK FENCE, VINYL - 4 FT. HIGH	150	LIN. FT.	\$40.00	\$6,000.00
16	DOULE METAL GATE	2	UNIT	\$5,000.00	\$10,000.00
17	WETLAND MITIGATION PLANTINGS	100%	L.S.	\$20,000.00	\$20,000.00
18	NJDEP PERMIT FEE	100%	L.S.	\$3,000.00	\$3,000.00
19	SUSSEX COUNTY SOIL CONSERVATION DISTRICT FEE	100%	L.S.	\$1,000.00	\$1,000.00
20	HIGHLANDS APPLICABILITY DETERMINATION FEE	100%	L.S.	\$4,000.00	\$4,000.00
21	ENGINEERING DESIGN, SURVEYING & PERMITTING	100%	L.S.	\$30,000.00	\$30,000.00
22	CONSTRUCTION INSPECTION & MANAGEMENT	100%	L.S.	\$10,000.00	\$10,000.00
TOTAL ESTIMATED COST OF CONSTRUCTION:					\$195,000.00

SIGNED: 

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

2021 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 65000 miles.
- Severe rust issues 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 \$90,000. 00 to replace truck/salter/plow.



2007 Dodge 3500 4x4 Flat Bed/Lift gate

- Truck is used primary for moving supplies and equipment, also used for plowing and salting every storm.
- Has 75,000 + miles.
- Rust issues cab, fenders, doors and flat bed.
- Transmission starting to slip.
- Lift gate occasionally fails to work.
- Would keep as a spare until major component fails.
- Requesting \$60,000 to replace with heavier duty truck.



2009 Perma Green Ride-On Applicator

- Machine is used to fertilize all sports and recreation fields.
- Hydro drive motor starting to fail.
- Parts are becoming hard to source.
- Hopper size becoming inadequate for number of fields.
- Gasoline powered motor starting to leak.
- Requesting \$13,000.00 to replace.



6 Year Capital Project Planning Tool 2017-2022

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