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TO: Julie Jakubec, CPA/CGMA, Manager
 Township of O’Hara

DATE: February 26, 2024

FROM: Kevin A. Brett, P.E.
 John R. Heyl, P.E.

S. O. No.: 0445-01

cc: Charles Steinert, P.E.

SUBJECT: **Monthly Engineer’s Report
 March 5, 2024 Meeting**

Following is a summary of the engineering work performed.

Roadway and Public Improvement Projects

2024 Roadway Improvement:

*Township provided list of roads; LSSE to prepare preliminary Opinion of Probable Costs; LSSE to schedule kickoff call with Township and Fox Chapel. Kickoff meetings were held on January 11, 2024 and January 23, 2024. LSSE is preparing the bid documents. Bid opening to occur on March 11, 2024. LSSE issued utility notification letters on January 26, 2024. LSSE provided Service Order Authorization for Township review. **Bid opening scheduled for March 11, 2024.***

Scope included as follows:

BASE BID		
Roadway	From	To
Alpha Drive	Delta Drive Centerline	Kappa Drive Pave Joint
Glengary Drive	Douglas Drive	Cul-de-Sac
Field Club Ridge Road	302 Field Club Ridge Road / Orchard Hill Drive	Orchard Hill Drive / Cul-de-Sac
Woodland Drive	Field Club Road	Cul-de-Sac
Ravine Street – O	House 12 / Ravine Street	803 Sharpshill Garage
ADD ALTERNATES		
Roadway	From	To
Boyd Avenue	Freeport Road	St. Charles Court
River Road – O	St. Charles Court / Miramar Landings End	Miramar Landings Start / Freeport Road
River Road – M	Miramar Landings Start	Miramar Landings End
Greyfriar Drive	Berwick Drive	Cul-de-Sac
Kirkwall Drive	Glengary Drive	Kittanning Pike
Kerwood Road	Glengary Drive	Kittanning Pike
Ravine Street – S	House 12	Sharpshill Road
Meadow Park Pickleball Courts	Meadow Park	Meadow Park
Pickleball Court Color Coat	Meadow Park	Meadow Park
Kappa Drive + Zeta Drive Rumble Strip	Alpha Drive Pave Joint	Gamma Drive

O'Hara Park Trail Stabilization:

Township was awarded two grants for project; LSSE has met with Township to review scope. LSSE provided the Township with the permit application and check request. Permit application to be submitted upon approval from the Township. LSSE issued requests for proposals for geotechnical investigation to Ackenheil Engineers, Construction Engineering Consultants, Inc., ACA Engineering, Inc., and Garvin Boward Beitko Engineering, Inc. on January 26, 2024. **LSSE transmitted Geotech RFP Summary on February 14, 2024. The permit applications and check requests have been re-sent to the Township for execution.**

Municipal Separate Storm Sewer System (MS4)

1. PaDEP issued permit on November 26, 2018. PaDEP Inspection held on February 6, 2020. Permit renewal submission submitted to PADEP on April 12, 2023. 2023 Annual Report has been submitted. Outfall testing has been completed; summary memo provided in October.
2. PRP Projects:
 - a. **701 Alpha Drive:** LSSE transmitted concept plan to Township for review and comment on July 5, 2023. LSSE provided bid/construction documents for Township use on November 16, 2023. LSSE to prepare as-built drawings of the constructed facility. **LSSE has completed survey work, and is currently reviewing as-built plan.**
 - b. **Epsilon Drive Stormwater Facility** – LSSE prepared record drawing and reviewed in-place quantities for discussion with Township Staff. **LSSE has submitted the Notice of Termination documents to the Township for execution.**
 - c. **Gamma Drive Stormwater Facility** – Work has been completed. LSSE to prepare as-built drawings of the constructed facility. **LSSE has completed survey work, and is currently reviewing as-built plan.**
 - d. **Calmwood Stream Restoration:** PADEP issued permit on April 3, 2023. Township Public Works to complete; LSSE to assist as requested. LSSE staked out limits of work during week of January 22, 2024. **LSSE to assist Public Works during construction as needed.**

Allegheny River – Sycamore Run				
Project	Status	Sediment Removed (lbs)	Project Cost	Cost per lb Removed
Epsilon Drive	Completed	36,415		
Gamma Drive	Completed	28,655		
Required Sediment Reduction (lbs)		54,859		
Anticipated Sediment Reduction (lbs)		65,070		

Little Pine Creek – Pine Creek				
Project	Status	Sediment Removed (lbs)	Project Cost	Cost per lb Removed
Calmwood Stream Restoration	Permit Issued – to be Completed by Public Works	6,732	Public Works time and material costs	
Required Sediment Reduction (lbs)		6,169		
Anticipated Sediment Reduction (lbs)		6,732		

Stormwater Utility Fee

1. *LSSE assisting with Credit and Appeal Applications as requested.*

Stormwater Management Plans

Project	SOA Provided	LSSE Authorized	Project Status	Preliminary OPC	Anticipated Construction
Powers Run Stream Restoration	X	X	Chapter 105 Permit Issued	\$152,500	Spring 2024
Powers Run Sanitary Sewer Relocation	X	X	Permit Issued	\$290,000	Spring 2024
<i>Gamma Drive Detention Facility</i>	<i>X</i>	<i>X</i>	<i>Complete</i>	<i>\$239,844</i>	<i>Complete</i>
<i>Epsilon Drive Detention Facility</i>	<i>X</i>	<i>X</i>	<i>NPDES Permit Issued</i>	<i>\$867,598</i>	<i>Complete</i>
Pine Creek Stream Restoration	X	X	DEP Issued Permit		Spring 2024
Greenwood Cemetery Detention Facility 1	X	X	NPDES Permit Issued	\$348,444	On Hold
Greenwood Cemetery Detention Facility 2	X	X	Chapter 105/106 Permit Issued	\$197,877	On Hold
Alpha Drive Stormwater Facility	X	X	Plans & Specs Provided to Township Staff		<i>Complete</i>
Woodland Park Stormwater Facility	X	X	Draft Plans & Specs Provided to Township Staff	\$311,850	On Hold
Grove Street Stormwater Facility	X	X	Plans in Design	\$207,360	Summer 2024

1. Powers Run Stream Restoration – 445-009-19.002

Recent flooding washed out the existing 48" storm sewer that conveyed the stream to the culvert below Freeport Road.

Action: *ACCD issued a PADEP GP-5 permit to relocate the sanitary sewer on January 19, 2021. \$100,000 in GEDF Funding for stream restoration; \$300,000 Township budget for sewer relocation. PaDEP has issued the Chapter 105 Permit. Work awarded to All Phase II Site Contracting, LLC in the amount of \$517,483.65 (Base Bid and Alternate No. 1). Pre-construction meeting held on August 31, 2023. LSSE provided the Township with U.S. Army Corps Acknowledgement and Agreement form for execution. Work is*

ongoing. LSSE transmitted Partial Payment No. 1 on November 2, 2023 and Partial Payment No. 2 on November 29, 2023. LSSE transmitted Partial Payment No. 3 on December 22, 2023. LSSE transmitted GEDTF grant extension request to the Township of January 15, 2024. LSSE provided certified payrolls, as received from the contractor, to the Allegheny County Department of Economic Development on January 23, 2024. LSSE to prepare as-built plan of installed sanitary sewers. **LSSE transmitted certified payrolls as provided by All Phase II Site Contracting, LLC to the Township via letter dated February 16, 2024.**

2. **Greenwood Cemetery Stormwater Facility – 445-009-19.015**
Pond No. 1 Action: NPDES Permit issued February 4, 2022. Awaiting Township final negotiations with property owner for easements. **Project on hold.**

Pond No. 2 Action: Dam Permit issued April 27, 2022. Awaiting Township final negotiations with property owner for easements. **Project on hold.**
3. **Woodland Park Stormwater Facility – 445-009-19.021**
Action: LSSE provided draft construction plans for Township review. **Project on hold.**
4. **Grove Street Stormwater Facility**
LSSE started preparation of plans and runoff calculations. **LSSE preparing construction plans and specifications.**
5. **Valley Drive Storm Sewer Improvements**
LSSE provided Service Order Authorization for Township review. Project on Hold. LSSE provided revised Service Order Authorization.

Sycamore Run Flood Study

1. **Master Hydraulic Model:** LSSE has prepared a master hydraulic model for Sycamore Run and has modeled how the impacts of the Epsilon Drive, Alpha Drive and Gamma stormwater facilities have on the watershed. Results provided to Township.

Sanitary Sewers

1. **Powers Run Flow Monitor:** Data collection ongoing and will be for life of System. LSSE preparing quarterly flow data reports. LSSE installed flow monitor April 3, 2020. LSSE removed the flow monitor May 17, 2021.

Powers Run Flow Isolation Measurements were completed April 10, 2020. Findings were submitted to the Township July 9, 2020. CCTV review in red/orange areas is complete. A sanitary sewer repair scope has been developed. See O&M Plan section below in regards to the LOI/GROW submittal.

LSSE to coordinate with Township Engineer regarding potential Saxonburg Lift Station flow monitoring.

3. **Phase 2 COA (ACHD):** *ACHD issued a letter dated accepting the Township's Source Flow Reduction Study Report. PaDEP approved the Interim CAP extension until June 30, 2021.*

The Phase II COA was released by ACHD on September 1, 2021. The Phase II COA BDD report was submitted to ACHD on July 28, 2022. The Phase II COA Annual Progress Report was submitted to ACHD on June 30, 2023.

For the remainder of this order, COA compliance tasks will include the following:

1. Continued sanitary sewer O&M (CCTV, MHPSSs, repairs)
2. SSO reporting to ACHD as necessary
3. Annual Progress Report submittals

4. **ALCOSAN Municipal Information Request/Chapter 94 Submittal:** LSSE coordinating with Township Engineer for submittal.

5. **Operation and Maintenance Plan / GROW Grants**

Township to continue Operation and Maintenance Plan and efforts to remove extraneous water that enters the sanitary sewers. Township CCTV is currently under review to determine future source flow reduction repair scopes. Reimbursement for this work will be applied for under future GROW Grants.

The GROW Grant Application for the 2017-2020 Powers Run Lining Project was submitted to ALCOSAN on July 31, 2020. The project was awarded a GROW Grant in the amount of \$52,400.00 at the October 22, 2020 ALCOSAN Board Meeting. The Grant Agreement has been executed (GROW ID 2020_01-027). The first Request for Reimbursement for submittal to ALCOSAN has been drafted and submitted to ALCOSAN. Final GROW Report has been submitted to ALCOSAN in draft form. ALCOSAN to initiate grant closeout. GROW Progress Report was submitted on May 31, 2023.

*The GROW Grant Application for the 2021 Sanitary Sewer Lining Repairs Project was submitted to ALCOSAN on July 31, 2021 for lining planned as part of the Township's ongoing O & M Program as part of the 2021 GROW funding cycle. The Township was awarded \$69,600.00 in grant funding. Project lining has been completed. Post construction flow monitor has been installed at A-85 POC. ALCOSAN approved a request to extend the Grant expiration date to March 31, 2025. GROW Request for Reimbursement No. 1 submitted to ALCOSAN for review. LSSE received comments and a revised RFR has been drafted. Canceled checks and video files required to be submitted along with revised RFR#1. **CCTV video transmittal coordination with Insight Pipe ongoing.***

Coordination meeting held with Township Engineer regarding 2024 O&M planning and GIS updates on January 22, 2024.

The following items were discussed in regard to a potential GROW Grant LOI/Application:

1. Township Engineer to gather list of additional segments that were lined in A-85 (post-GROW grant application) and the list of segments lined / planned to be lined in A-72.
 2. LSSE to discuss Powers Run Separation Project with ALCOSAN to determine GROW eligibility.
 3. Township Engineer to meet with Insight Pipe to review status of CCTV for previous lining programs.
7. **Shady Lane / Delafield Stream Removal Project:** *The Army Corp is taking the lead on the project. ALCOSAN and the Army Corp recently executed an agreement to move this project to the design phase. This agreement arranged for ALCOSAN to use a portion of their 25% project match to fund design costs. Future discussions will need to take place regarding municipal agreements before moving forward to the construction phase. An A/E Firm was selected but the fees requested were over the amount budgeted. Additional funding is needed to move forward per ALCOSAN. Project design firm to be selected. A project update meeting with ALCOSAN and the Army Corps of Engineers (USACE) was held in June 2023. The project is now being considered a separation project called the Delafield Avenue Stream Inflow Removal Project. 30% Design Drawings from USACE were provided by ALCOSAN on July 24, 2023. **No update.***

Traisr

1. LSSE updated Township Traisr files to include current Allegheny County parcel information. TRAISR to provide cost for fleet upgrades as applicable.

Grant Application Summary

Project	Grant Source	Grant Value	Township Match	Due Date
Alpha Drive Sidewalks	CFA – MTF	\$1,020,000	\$307,950	July 2023 Pending Award/Denial
O’Hara Park Trail Stabilization	DCNR – 2024		50%	April 3, 2024 LSSE transmitted resolution to Township
O’Hara Park Trail Stabilization	CFA – GTRP		15%	May 31, 2024 LSSE is preparing grant documents
TBD	CFA – Watershed Restoration		15%	May 31, 2024

Township Grant Award Summary

Project	Grant Source	Grant Value	Township Match	Anticipated Start Date
Freeport Road ADA Ramps	CDBG Yr 50	\$23,350.00	Overages	Pending County Approval
Freeport Road ADA Improvements	GEDTF	\$50,000	Overages	Awaiting Grant Contract Execution
Meadow Park Pickleball	CFA - GTRP	\$80,450	15%	Awaiting Grant Contract Execution
Powers Run PRP Stream Restoration	GEDF	\$100,000.00	\$52,500.00	Construction On Going