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

DATE: May 28, 2021  
 S. O. No.: 0445-01

FROM: Kevin A. Brett, P.E.

cc: Charles Steinert, P.E.

SUBJECT: **Monthly Engineer's Report  
 June 1, 2021 Meeting**

Following is a summary of the engineering work performed.

**Roadway and Public Improvement Projects**

**2021 Roadway Improvement:**

*Bids were opened on March 15, 2021. Shields Asphalt Paving Inc., was the apparent low bidder for the Contract. Summary of results for O'Hara Township is below (Roads listed in **Bold** awarded):*

<i>Road No.</i>	<i>Limits</i>	<i>Bid Price</i>
<b>Base Bid</b>		
<b>Kappa Drive</b>	<b>280 Kappa Drive to Zeta Drive</b>	<b>\$413,349.00</b>
<b>Weir Drive</b>	<b>Oakhurst Drive to Cul-De-Sac</b>	
<b>Meadow Heights Drive</b>	<b>Grove Street to Cul-de-Sac</b>	
<b>Joanne Street (North)</b>	<b>Grove Street to Dead End</b>	
<b>Joanne Street (South)</b>	<b>Grove Street to Cul-de-Sac</b>	
<b>Alleyne Drive</b>	<b>Joanne Street to Dowling Drive</b>	
<b>Dowling Drive</b>	<b>Alleyne Drive to Cul-de-Sac</b>	
<b>Sacco Park</b>	<b>Kirkwood Drive to Dead End</b>	
<b>Division Street</b>	<b>Kittanning Pike to End</b>	
<b>Add Alternate No. 6 – Fox Ridge Farms Drive</b>	<b>Kittanning Pike to Cul-de-Sac</b>	
<b>Add Alternate No. 7 – Davonshire Drive</b>	<b>Dorseyville Road to Cul-De-Sac</b>	<b>\$72,954.90</b>
<i>Add Alternate No. 8 – Papercraft Avenue</i>	<i>Riverfront Drive to Water Street</i>	<i>\$142,668.82</i>
<b>Add Alternate No. 9 – Village Drive</b>	<b>Kittanning Pike to End</b>	<b>\$34,427.74</b>
<b>Add Alternate No. 10 – Village Drive</b>	<b>Dorseyville Road to End</b>	<b>\$61,031.40</b>
<b>Add Alternate No. 11 – Fairgrove Drive</b>	<b>Davonshire Drive to Cul-de-Sac</b>	<b>\$30,421.99</b>
<b>Add Alternate No. 12 – Queens Court</b>	<b>Davonshire Drive to Cul-de-Sac</b>	<b>\$24,767.99</b>
<i>Add Alternate No. 13 – Field Club Road</i>	<i>Powers Run Road to Township Border</i>	<i>\$277,986.59</i>

Work was awarded to Shields Asphalt Paving, Inc. as noted in letter dated April 7, 2021. **Pre-Construction Meeting held on April 28, 2021.**

**Municipal Separate Storm Sewer System (MS4)**

1. *PaDEP issued permit on November 26, 2018. PaDEP Inspection held on February 6, 2020. Outfall screening is complete; LSSE provided summary memo on August 18, 2020. LSSE submitted Annual Progress Report to PaDEP. **LSSE to schedule Annual Training with Township Staff.***
2. **PRP Plan: LSSE completed field review of proposed stream improvement location. LSSE provided the Township a SOA to complete the work on April 21, 2021.**

**Stormwater Utility Fee**

1. *Fee presentation held at Council meeting on March 10, 2020. Public Meeting held on June 30, 2020. LSSE provided comment on the Township Fee Credit Policy for review by Council. Second reading held August 11, 2020. Fee adopted by Council at its August 11, 2020 meeting. LSSE provided information to Jordan Tax Service for initiation of billing in September. LSSE met with Township staff to review credit and appeal applications. **LSSE updating Traisr to include fee data.***

**Stormwater Management Plans**

<b>Project</b>	<b>SOA Provided</b>	<b>LSSE Authorized</b>	<b>Project Status</b>	<b>Preliminary OPC</b>	<b>Anticipated Construction</b>
Powers Run Stream Restoration	X	X	Permit Submitted to DEP	\$152,500	Summer/Fall 2021
Powers Run Sanitary Sewer Relocation	X	X	Permit Issued	\$290,000	
Powers Run Emergency Permit	X	X	Permit Issued	—	
Grey Fryer Detention Facility	X	X	LSSE Preparing Plans and Easement exhibits	\$186,594	Fall 2021
Gamma Drive Detention Facility	X	X	Township to Obtain Easements	\$239,844	Summer 2021
Epsilon Drive Detention Facility	X	X	Geotech to complete borings	\$357,544	Summer 2021
Pine Creek Stream Restoration	X				
Greenwood Cemetery Detention Facility 1	X	X	LSSE Preparing Plans & Easement Exhibits, Township negotiating acquisition of property.	\$348,444	Fall 2021
Greenwood Cemetery Detention Facility 2	X	X	LSSE Scheduling meeting with PADEP	\$197,877	

- 1. Powers Run Temporary Sewer Repair – 445-009-19.001**  
*Recent flooding washed out the existing 48" storm sewer that conveyed the stream to the culvert below Freedom Road. As a result, the 10" PVC sanitary sewer has been exposed and is spanning the stream channel unsupported.*  
**Action:** *The PADEP issued an Emergency Permit to temporarily support the sanitary sewer on January 14, 2021. A condition to the Emergency Permit is the Township must submit a Chapter 105 Permit for the restoration of the stream within 60 calendar days of the issuance of the Emergency Permit. Starting March 8, 2021; completed by March 12, 2021.*
- 2. 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 Freedom Road. O'Hara Township would like to reroute the sanitary sewer around the damaged area and re-establish the stream channel in this area.*  
**Action:** *LSSE provided the Township with a Plan and Cost Estimate to permanently repair the sanitary sewer. 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 issued comments to the Chapter 105 on April 23, 2021. LSSE transmitted response to comments on May 20, 2021.*
- 4. Central Avenue Detention Facility**  
*Evaluate installation of a stormwater/infiltration basin to reduce runoff coming from RIDC Park. This basin can function as a MS4 BMP as well.*  
**Action:** *PennDOT is preparing a design to construct a stormwater basin in this area as part of the S.R. 28 Improvements.*
- 5. Wood Valley Stormwater Detention Facility**  
*Detention Basin to be reviewed to improve stormwater detention.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 6. 701 Alpha Drive Stormwater Pond**  
*Basin to be modified to obtain MS4 credits and provide additional rate control.*  
**Action:** *LSSE to develop a hydrologic model of the upstream watershed and develop conceptual options with cost estimates to modify the stormwater management facility. Awaiting Authorization.*
- 7. Epsilon Drive Stormwater Facility – 445-009-19.007**  
*Currently there is no stormwater detention on Epsilon Drive and Alpha Drive in the vicinity of the Medrad Building.*  
**Action:** *LSSE is preparing the preliminary design plans. LSSE reviewed Geotechnical proposals as noted in letter dated February 11, 2021; it is recommended to award to CEC, Inc. CTF Application submitted. Township to obtain access from property owners so Geotech can start the boring work. LSSE provided easement exhibits for Township to present to property owners. Geotechnical investigation to commence in next few weeks.*

- 8. Gamma Drive Ext Stormwater Facility – 445-009-19.008**  
*Currently there is no stormwater detention along Gamma Drive Ext. The Township owns an open space parcel along Gamma Drive.*  
**Action:** *LSSE is preparing the preliminary design plans. CITF Application submitted.*  
**LSSE provided easement exhibits for Township to present to property owners.**
- 9. Municipal Building Stormwater Improvements**  
*The Township has a stormwater detention facility that discharges to Squaw Run.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 10. VA Hospital Detention Basin Down Stream Flooding**  
*The Township is receiving excessive runoff on to the Municipal Building parcel from the storm sewer discharge that conveys runoff from the VA Hospital pond and Woodshire Drive.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 11. Woodshire Drive Open Space Stormwater Facility**  
*Currently there is no stormwater detention along Woodshire Drive. The Township owns the Woodshire Drive OpenSpace parcel that drains to the Municipal Building.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 12. Briarcliff Parkette Stormwater Facility**  
*The Township owns the property for Briarcliff Parkette. All upstream runoff is concentrated to a discharge just downstream of the parkette.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 13. Nichols Property Stormwater Facility**  
*Currently there is no stormwater detention along Patricia Drive.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 14. Highmeadow Road Flooding Complaint**  
*The Township has received flooding complaints from the residents downstream of Highmeadow Road.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 15. Greenwood Cemetery Stormwater Facility – 445-009-19.015**  
*Greenwood Cemetery does not have stormwater management facilities.*  
**Action:** *CITF grant application submitted. LSSE provided SOA to prepare final design for both portions within Greenwood. LSSE is preparing the plans and easement exhibits for Basin No. 1 and scheduling a meeting with he PADEP for Basin No. 2.*
- 16. Kerr Elementary School Stormwater Facility**  
*Kerr Elementary School does not have stormwater management facilities.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*

- 17. Briarcliff Pond No. 2**  
*Township would like to review the stormwater pond and determine what improvements can be made to the facility.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 18. Briarcliff Pond No. 1 – 445-009-19.018**  
*Township would like to review the stormwater pond and determine what improvements can be made to the facility.*  
**Action:** *LSSE prepared Conceptual Plan with OPC for review by the Township.*
- 19. Kirkwood Drive Stormwater Facility**  
*Evaluate installation of a stormwater/infiltration basin to reduce runoff coming from the upstream watershed.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization. LSSE to determine the permit requirements.*
- 20. George Sacco Park Stormwater Facility**  
*PennDOT is discharging uncontrolled stormwater on the Township property.*  
**Action:** *LSSE provided a Service Order to the Township, awaiting authorization.*
- 21. Woodland Park Stormwater Facility – 445-009-19.021**  
*The upstream drainage are to Woodland park is discharged uncontrolled.*  
**Action:** *LSSE preparing Conceptual Plan with OPC. LSSE to schedule field meeting with Township to review site conditions.*
- 22. Brilliant Avenue Sewer Separation Alternative – 445-009-19.022**  
*Stormwater runoff exceeds the capacity of the existing combined sewer system resulting in localized flooding and combined sewer overflows.*  
**Action:** *LSSE to develop a conceptual plan to evaluate the potential of separating the storm and sanitary sewers tributary to Brilliant Avenue. The Army Corp of Engineers is preparing a design to separate this stream from the sanitary sewer. No Change.*
- 23. O’Hara Township Community Park**  
*Squaw Run makes a 90 degree turn at the low end of the Park. Floodwaters overtop the embankment in this location and flood Fox Chapel Road.*  
**Action:** *LSSE provided a Service Order Authorization to complete this work.*
- 24. Greyfriar Drive Stormwater Facility - 445-009-19.023**  
*The Township is interested in installing stormwater detention along Greyfriar Drive to reduce downstream flooding.*  
**Action:** *LSSE has prepared a preliminary analysis of potential stormwater detention for review with Township Staff for comment. LSSE is preparing the plans and easement exhibits.*

## 25. Kirkwood Drive at Lower Road

The Township is interested in installing stormwater detention on the upstream side of Kirkwood to reduce downstream flooding.

**Action: LSSE provided a Service Order Authorization to complete the preliminary analysis and meet with PADEP.**

## Sanitary Sewers

### 1. LSSE working on Engineering Services relating to the ACO:

- *In July 2020, municipal representatives, DEP and the Allegheny County Health Department met virtually to continue finalizing the next round of municipal consent orders. It was a positive meeting during which the parties noted that the first two years of the consent orders will involve primarily municipal planning of source reduction projects before true capital investment will be necessary. They also discussed the opportunities for communities to collaborate on joint projects for more cost savings and strategic source reduction efforts.*
- *Feasibility Study was submitted to the Health Department prior to July 31, 2013 deadline. Borough Manager sent letter extending CAP request in January. 2020 CAP approval was received.*

### 2. **Powers Run Flow Monitor:** *Data collection On-going 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 drafted. Repair scope to be reviewed / modified as necessary in conjunction with anticipated Phase II COA requirements. See O&M Plan section below in regards to the LOI submittal.*

### 3. **ALCOSAN:** *Draft Agreement received from ALCOSAN for regionalization is under review by LSSE, the Township Manager and Township Solicitor. Solicitor has been meeting to review. ALCOSAN held a Zoom Briefing in regards to the Modified Transfer Agreement on January 25, 2021. Over the next several months, ALCOSAN will be meeting with individual municipalities to discuss interest level, status, agreement comments, etc.*

### 4. **Phase I Interim COA (ACHD):** *LSSE transmitted the Source Flow Reduction Study Report on November 30, 2017. ACHD issued a letter dated accepting the Borough's Source Flow Reduction Study Report. PaDEP approved the Interim CAP extension until December 31, 2020.*

**A Phase II COA is anticipated to be released in June 2021, which would likely include a requirement for a 10% reduction in flows incorporated into Order.**

## 5. Operation and Maintenance Plan

*Borough 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. LSSE met with ALCOSAN on November 9, 2020 to discuss potential 2021 GROW application. A Letter of Interest (LOI) was submitted to ALCOSAN on March 31, 2021 for potential source flow reduction sewer repairs in the Powers Run sewershed. **ALCOSAN sent an invitation to submit for the GROW Application for this project which is due June 30, 2021.**

*GROW Cycle 5 has started. 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. The first Request for Reimbursement for submittal to ALCOSAN has been drafted and submitted to ALCOSAN. **No Change.**

### Traisr

1. *LSSE updated Township Traisr files to include current Allegheny County parcel information.*

### DCNR Grant Applications

1. LSSE submitted DCNR grant application for Trail Stabilization for the O'Hara Township Community Park.
2. LSSE submitted DCNR grant application for ATV purchase to be used for maintenance of trail systems and park facilities.

### DCED Grant Applications

1. Watershed Restoration: LSSE preparing grant application for Stream Improvements Project for PRP Project for May 31, 2021 deadline.
2. Greenways, Trails & Recreation: LSSE preparing grant application for Trail Stabilization for the O'Hara Township Community Park for May 31, 2021 deadline.

### Township Grant Summary

<b>Project</b>	<b>Grant Source</b>	<b>Grant Value</b>	<b>Township Match</b>	<b>Anticipated Start Date</b>
Powers Run PRP Stream Restoration	GEDF	\$100,000.00	\$52,500.00	Summer 2021