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engineering.

LSSE News



Fall 2010

Construction Underway on Regional Sewage Facilities Project

The Linesville Pine Joint Municipal Authority (LPJMA), a start-up (2006) municipal authority in Crawford County has initiated construction of its regional sewage facilities project.

LSSE had previously completed facilities planning, inter-municipal and inter-agency agreements necessary to consolidate sewage facility needs for two areas served by existing, outdated treatment facilities (Linesville Borough and PA DCNR's Ferris Park facilities) and a third area (Pine Township) served by failing on-lot systems.

The project includes a regional sanitary sewer collection and conveyance system to provide sewage service to currently unserved single family, multi family, and commercial facilities in the Borough and Township; construction of a regional sewage treatment plant (STP); and a "parallel" sanitary sewer system targeting line segments that were found to harbor significant levels of Infiltration/Inflow (I/I).



Sewage Treatment Plant Construction

After construction of the new sanitary sewer, the existing system will be converted to a neighborhood-type french drain system to provide for positive groundwater recharge to Linesville Creek and the Pymatuning Reservoir as well as provide for proactive I/I removal from the new regional STP.

The \$16.6 million project began in July 2010 and is scheduled for completion in June 2011. The project is funded by \$11 million in PENNVEST, CDBG and H2O PA grants and \$5.6 million in PENNVEST loans. With LSSE's assistance during the grant funding application process, LPJMA was able to reduce the face value tapping fee by 33% per EDU and the User Rates by 20%.

This project represents a multi-municipal, multi-agency regional cooperative effort to provide sustainable sewage collection, conveyance and treatment for the north shore of the Pymatuning Reservoir for decades to come.

Bridge Replacements Restore Critical Link in Local Roadway Networks

LSSE recently completed design and construction phase services for two local municipal bridge projects. Each bridge provides a critical link in local roadway networks.

GROVE ROAD BRIDGE, ALLEGHENY COUNTY

The \$1 million Grove Road Bridge project for the Borough of Castle Shannon involved the demolition of two separate existing bridges; ex-

cavation for a new pre-cast stream opening with a concrete arch bridge span, which carries municipal roadway traffic and private lot access with pedestrian walkway over Saw Mill Run. LSSE provided design and construction phase services; permitting with the DEP; coordination of work

with ALCOSAN; South Hills Council of Governments funding requirements; Highway Occupancy Permit and PennDOT coordination; and assistance with right-of-way negotiation and acquisition services. Design, bidding and construction phase services were completed in 18 months.

COPELAND ROAD BRIDGE/CULVERT, WESTMORELAND COUNTY

LSSE provided surveying and design services for the construction of the Copeland Road Bridge/Culvert in Allegheny Township. The project scope included DEP permitting and demolition of the old culvert, erosion and sedimentation controls, a new guide rail and roadway resurfacing.



Grove Road Bridge Pre Construction (Left)
and Post Construction (Above Left)

Copeland Road Bridge/Culvert Pre Construction (Right)
and Post Construction (Above Right)



Project Highlights and New Clients

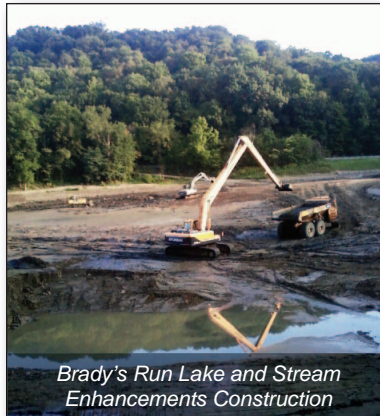
PROJECT HIGHLIGHTS

■ The Peters Township Sanitary Authority (PTSA - Washington County) Valley View Drive Sanitary Sewer Extension project involves permitting and design for approximately 1.2 miles of new sanitary sewers within the PTSA service area serving approximately 30 new customers that currently are served via on-lot disposal systems.

■ Under a contract to the Beaver County Commissioners, LSSE is providing design engineering services for the **Brady's Run Lake and Stream Enhancements**, which include modification of the existing vegetated gravel bar at the west end of the lake to reduce silt deposits in the ADA fishing area, maintenance to the dam structure, improvements to the beach area, dredging of silt and sediment from the lake and in-stream sediment traps located up-stream of the lake, and stream bank enhancements along Brady's Run and its tributaries in an attempt to reduce accelerated erosion.

■ The \$2.7 million **Nitrate Water Treatment Facility for Martinsburg Municipal Authority, Blair County** is under construction and is scheduled for completion this fall.

■ Construction began in July on the \$16.6 million **collection systems and sewage treatment project for the Linesville Pine Joint Municipal Authority, Crawford County**. Construction completion is scheduled for June 2011.



Brady's Run Lake and Stream Enhancements Construction



Martinsburg's Nitrate Removal Water Treatment Facility Construction



Aerial View of South Shore Riverfront Park during Construction

■ The **South Shore Riverfront Park Phase 2 - Piazza in the City of Pittsburgh** opened in August. LSSE provided site design services as a sub-consultant to Environmental Planning and Design, LLC (prime consultant) as part of the multi-phase (4) project.

NEW CLIENTS

■ Upon submittal of a proposal and interview in spring 2010, LSSE was selected unanimously as Engineer by the **Unity Township Municipal Authority (UTMA)**, a large Westmoreland County Authority. LSSE was selected in a qualifications-based selection process from a pool of 9 engineering firms. LSSE will provide general consulting, planning, and design services for UTMA.

■ The **Regional Industrial Development Corporation (RIDC)**, Pittsburgh, PA has hired LSSE to provide surveying and parcel subdivision services for the Keystone Commons site in the Boroughs of East Pittsburgh and Turtle Creek, Allegheny County.

■ LSSE is providing design services for the Steubenville Pike and Logan Road 1/2+ mile Sanitary Sewer Extension for **North Fayette Township, Allegheny County**.

■ LSSE will provide surveying and engineering design services for development of a 15-acre site at the Findlay Industrial Park. The site is owned by **Alro Steel Corp.**, a Michigan-based steel services company, which is moving its Carnegie facility to a new 80,000 SF building to be located at the Findlay Industrial Park in Findlay Township, Allegheny County in 2011.

PERFORMANCE RATING:

Communication: "Outstanding"
Product Quality: "Outstanding"
Cost Management: "Outstanding"
Overall Assessment: "Outstanding"

Project Quality Review Highlight

GROVE ROAD BRIDGE RECONSTRUCTION CASTLE SHANNON BOROUGH, ALLEGHENY COUNTY

Comment: "Your firm's ability to design and schedule the engineering and associated inspections has generated an overall project cost savings of \$25,331." - Thomas Hartswick, Borough Manager, 8/17/2010

CADD Unit Transitions to State-of-the-Art Program

With the announcement in November 2009 that Eagle Point is discontinuing product releases for Eagle Point Civil Design Solutions (LSSE's current design/surface modeling platform), LSSE has begun a transition to AutoCAD Civil 3D software as our Computer Aided Drafting and Design (CADD) platform.

Civil 3D will be utilized at all stages of project plan development, including preparation of existing conditions,

parcel layout, design of proposed surface models, and analysis of pipe networks. As a recognized leader in the burgeoning field of Building Information Modeling (BIM), AutoCAD Civil 3D will provide LSSE with the tools needed to create integrated and dynamically linked models of project designs, which will in turn allow for more efficient analysis at every design stage and provide for more opportunities to evaluate design alternatives.

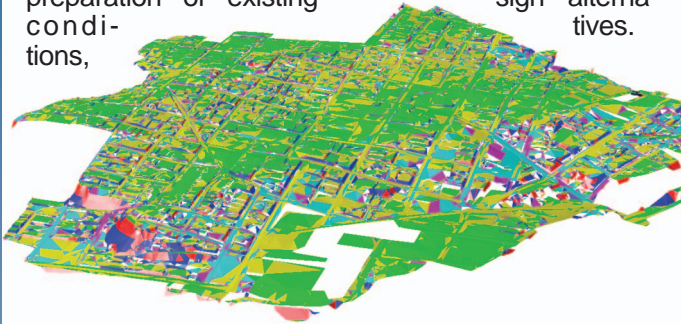


Image created using Civil 3D.

This image depicts a slope analysis of Rochester Borough performed in AutoCAD Civil 3D. This analysis broke down the Borough into 14 different slope categories in order to provide average slopes for each delineated sewershed. This information was required for the Rochester Area Joint Sewer Authority (RAJSA) Long Term Control Plan (LTCP) Regional Sewer Model.

Additions and Achievements

NEW EMPLOYEE

LSSE welcomes Resident Project Representative Robert Huffman.

CPESC CERTIFICATION

Upon completion of classes and passing the required exam, John Heyl, P.E. and Matt Carroll achieved Certified Professional in Erosion and Sediment Control (CPESC) certification.

The CPESC program was established 25 years ago to provide professional credentials to individuals working on erosion and sedimentation control practices associated with construction sites. CPESCs are recognized as individuals that have demonstrated the proficiency necessary to design and evaluate management methods to control erosion and sedimentation associated with land disturbance activities. CPESC's must demonstrate proficiency in Site Planning and Management, Erosion Protection, Runoff Management, Soil Stabilization, Erosion Control and Sediment Control.

GISP CERTIFICATION

Jeffrey A. Murphy received his Geographic Information Systems Professional (GISP) certification in September. The qualifications for this certification include education, experience, specialized training, and contribution to the GIS field.

AWWA LIFETIME MEMBERSHIP

The American Water Works Association (AWWA) certified Lawrence J. Lennon, P.E., D.WRE as a lifetime member in recognition of thirty years of membership.

LSSE Employees and Family Members Celebrate 25th Anniversary Picnic



YEARS OF SERVICE AWARDS:

Lawrence J. Lennon, P.E., D.WRE (25) / Leslie A. Lennon (25) / Nancy L. Kosto (20) / Jason E. Stanton, P.E. (15) / Kevin A. Brett, P.E. (10) / Jason R. McManigle (10) / Thomas J. Stewart (10) / Steven M. Scheidler, P.E. (5) / Daniel J. Larkin, P.E. (5) / Jason R. DiLoreto, E.I.T. (5)

LSSE Employees Volunteer in their Communities

LSSE applauds its employees who spend their extra time providing a service within their community.

- **Tim Brett** is a Big Brother in the Big Brother Big Sisters organization (*picture at right*).
- **Daniel Larkin** is on the board for Beaver County Young Life.
- **Larry Lennon** is the high adventure coordinator for Troop 2, Boy Scouts of America. **Larry and Leslie Lennon** belong to Holy Child St. Vincent de Paul Society, helping the needy in Bridgeville, S. Fayette area.
- **Darlene Muntean** is Membership Chairperson for Economy

Jr. Women's Club, a community service organization.

- **Jeff Murphy** is a property steward and performs mapping updates for Hollow Oak Land Trust (HOLT) and has volunteered at the Sci-Tech Festival at Carnegie Science Center.
- **Larry Souleret** serves as a committee member of the Covered Bridge Chapter of the Ruffed Grouse Society (RGS). RGS works nationally and locally to conserve and manage forests for grouse and woodcock habitat by protecting, restoring and creating early successional forests.
- **Jason Stanton** volunteers as a

Sunday School Teacher, with the Youth Group and is on the Pastor Nominating Committee at his church.

- **Andy Zachodni** is the crew advisor for Canoe Trails Venture Crew 488. Andy is also a council member for Industry Borough.



Congratulations!

- **Steve and Emily Palmer** welcomed baby Gabriel Steven on June 15.
- **Jason Stanton** and his wife Jorjean welcomed baby Jenna Elizabeth on July 13.
- **Jeffrey Murphy** and his wife Autumn welcomed baby Oliver Leo on July 25.
- **Tim Brett** and his wife Lindsey are expecting their first baby in February 2011.

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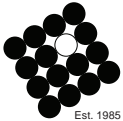
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Managing Principals: Lawrence J. Lennon, P.E., D.WRE; Larry W. Souleret, P.E., P.L.S.; and Daniel S. Gilligan
Principals: Ned Mitrovich, P.E.; Jason E. Stanton, P.E.; and Kevin A. Brett, P.E.

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