



LSSE News

Lennon, Smith, Souleret
Engineering, Inc.
Civil Engineers and Surveyors

Lennon, Smith, Souleret Engineering, Inc. (LSSE) offers one of the region's largest engineering units dedicated solely to civil engineering

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LSSE Designs New \$63 Million Water Source of Supply and Treatment Plant in Center Township

Ned Mitrovich, P.E., Principal, is leading the LSSE Design Team for Center Township Water Authority's \$63 Million potable water source of supply and surface water treatment system located in Beaver County, Pennsylvania. This complex public works project is being delivered in two phases, on an accelerated schedule, which was dictated by a third-party, Shell Chemical Company, requiring an 18-month period for completion of alternatives analysis, treatability studies, sampling, detailed design, permitting, bidding, construction and start-up of Phase 1 of the system.

Shell is currently completing site preparation work on a piece of land they are considering for development of a multibillion-dollar ethane cracker plant in Center Township.

Since the Authority's current water source was located on Shell's proposed site, it was necessary for the



Center Township Water Authority (CTWA) Interim Facility Pipe Manifold and Tanks, Center Township, PA

intake site to be moved, and in order to provide enough capacity should Shell move forward with the facility, a new water treatment plant was also necessary. Shell is providing funding to CTWA for the majority of the project's cost.

Phase 1 of the project includes the construction of a river intake system and interim conventional surface water treatment plant. Phase 1 is

being delivered using fifteen material and construction contracts to compress the project critical path. Phase 1 construction is anticipated to be completed in July 2016.

Upon completion of Phase 1, CTWA will decommission its aged wellfield and begin design of its Phase 2 permanent water treatment plant. The capacity of the final facilities will be 5 million gallons per day.



From left to right - Kerri Hummel, Richard Zowacki, II, and Gary Baird

LSSE Spotlight: Greensburg Office

In addition to the LSSE headquarters office in Coraopolis, PA, you may have also worked with staff from our office located in Greensburg (Westmoreland County), PA. Pictured at left: Gary M. Baird - Assistant Engineer, Kerri Hummel - CADD/GIS, Richard W. Laughlin - Engineering Technician (not shown), and Richard D. Zowacki, II - Designer. LSSE Principal, Kevin A. Brett, P.E., shares his time between the Greensburg and Coraopolis offices. Clients include Delmont Borough, Unity Township Municipal Authority (see Rt. 981 article on Page 2) and West Newton Borough. Recent project activity includes Westwind Estates residential development, a number of gas line replacement environmental permit projects for Peoples TWP, and site improvement projects for Kenny Ross Subaru, Chevrolet, Buick/GMC; St. Benedict's Church; and Total Restoration.

Recent LSSE Projects, New Clients and Awards

- LSSE was recently contracted to provide GIS services to several of our existing clients, including Fox Chapel Borough, O'Hara Township, Pine Township, Patterson Township and Center Township. Services include implementation of the TRAISR™ asset and infrastructure management system to assist these clients in efficiently managing their municipal infrastructure/assets.
- Welcome to our New Municipal Clients: Center Township Sanitary Authority and the Borough of Grove City.
- The American Institute of Architects (AIA) Pittsburgh recently issued an award to Strada Architecture, LLC for the Diocese of Wheeling-Charleston's Cathedral Campus project. LSSE provided engineering services as part of the Strada Architecture team.

LSSE Assists with Sanitary Sewer Relocation Prior to Improvements to Route 981 in Unity Township

LSSE recently provided civil engineering services to the Unity Township Municipal Authority for relocation of existing sanitary sewer facilities along Route 981 in Westmoreland County. This relocation needed to be completed before PennDOT District 12-0 could begin their road improvement project on Route 981 (scheduled for later this year).

This project was part of the PennDOT Cost Share Program, which allows utilities to relocate their facilities prior to the construction of a PennDOT project with participation from PennDOT to reimburse the utility on a 75%/25% basis, which is higher than the typical amount offered. For utilities that are located within public rights-of-way, PennDOT will reimburse the utility 50% typically, but if the utility relocates in advance of the planned PennDOT work, reimbursement is possible for 75% of the relocation cost, leaving the utility responsible for only 25% of the cost. For the portion of the utility that is located within private rights-of-way, PennDOT will reimburse the utility 100% of the relocation cost.

LSSE provided coordination with PennDOT and Unity Township Municipal Authority, and with the Westmoreland County Conservation District and the Pennsylvania Department of Environmental Protection (PADEP) for permitting.

LSSE work also included the preparation of the required PennDOT documentation to secure the reimbursement agreement, opinion of probable costs, final design plans and profiles, right-of-way coordination, preparation of Erosion and Sedimentation Control Plans, preparation of an NPDES Permit for Stormwater Discharge for Construction Activities, technical specifications for the owner's use in bid procurement, full-time resident project representative services during construction, and contract management to request PennDOT reimbursement.

LSSE Congratulates SunCap Property Group and Evans General Contractors on Winning NAIOP Award



The new, 125,000 sq. ft. General Electric (GE) Center for Additive Technology Advancement located at Chapman Westport in Findlay Township was recently completed and is now occupied. NAIOP Pittsburgh awarded the developer, SunCap Property Group, and the contractor, Evans General Contractors, the "Industrial Build to Suit" Award for this \$32 Million project.

This advanced manufacturing and research facility project had an accelerated schedule, as the design and project delivery required approvals from Findlay Township and other agencies in just 60 days. LSSE was chosen to be part of the project team as the Civil-Site Designer, as we were successful in obtaining permits on several other accelerated projects located near the interchange. LSSE's staff worked to maintain the aggressive schedule for not only the 34-acre parcel development, but also for the 800 LF Township roadway extension, which Chapman Properties was required to build for access to the parcel.

This award winning project features a series of natural stormwater Best Management Practices (BMPs) by utilizing a series of fens, pedestrian trails/walks, and an outside sitting court and landscaped area that provide an area for those working at the facility to walk around and enjoy nature and green features throughout the campus.



Tech Notes / Client Notices

Tech Notes: Technology Advancements in Municipal Management

Various advancements, including mobile technology, have revolutionized methods for collecting, maintaining, analyzing, and displaying information necessary for municipal management today. As technology evolves and the needs of municipal management grow, LSSE has taken steps to better serve our clients by streamlining processes and taking advantage of technology to maximize efficiency and increase productivity. This technology includes Geographic Information Systems (GIS) and TRAIRS™, a web-based asset and infrastructure management tool developed by McMahon Associates, Inc. (McMahon), as well as the use of smart phones and tablets. Last year, LSSE and McMahon formed a business relationship in order to deliver TRAIRS™ throughout LSSE's municipal client network.

Using GIS and TRAIRS™, data is no longer static on a page, but can be dynamically viewed in various formats, in real time, which allows technicians and managers to easily and quickly access data in a usable format.



LSSE Client, Gary Koehler, Manager, Fox Chapel Borough, interprets TRAIRS™ data running on multiple platforms

Reports and forms have been converted to formats that can be completed remotely, imported, and attached to GIS features/assets, directly connecting field observations to assets.

Implementing a GIS-centric asset management program provides a cost-effective and efficient alternative to traditional methods. LSSE is currently able to use this technology to help our clients manage capital infrastructure systems maintenance, repairs, operations, municipal public works/services as well as municipal assets. Assets can include any type of feature and can be used for record keeping, informational, and planning purposes. Common assets that can be included in a management program are signs (MUTCD), sewer/pipe systems (CCTV), buildings, roads, utility infrastructure, bridges, fleet vehicles, equipment, and amenities.

For clients who implement this type of management program, LSSE provides TRAIRS™ training and continued support either on site or through a remote connection; guidance on current/future data management workflows and process; and integration of GIS/CAD into other platforms to create presentation quality exhibits.

PennDOT Notification on Bituminous Concrete Modified with Asbestos

At the end of 2015, PennDOT notified municipalities of the following: "In rare instances prior to 1988, asbestos material may have been included in pavement layers. These asbestos pavement layers must be properly managed for worker safety and public health. When pavements are identified as containing asbestos, the layers involved should be disturbed only as a last resort. If the material is to be disturbed, all work must comply with all applicable federal and state regulations." Please keep these requirements in mind for future roadway improvement programs.

Municipalities Receive First Round of MS4 Review for Compliance from DEP - The Dreaded AUDIT

In 2015, approximately 20 percent of LSSE's clients who hold MS4 permits had a one day MS4 Review by the Pennsylvania Department of Environmental Protection (DEP). Most, if not all, were concerned when they received "The Call" from the Department. Each client's review was the same as far as format and items reviewed, but how each complied was different as the sizes of the municipalities varied. Since 2004, we've discussed with our clients the need to complete the permit requirements with a systematic approach and spread out the work to fulfill the permit requirements over multiple staff members. Although this appeared to be a daunting task for each, today those who were reviewed have adjusted their approach to permit compliance. Each municipality has a MS4-trained

staffer, who follows Standard Operating Procedures. As LSSE has explained over the past three years—the permit is not going to disappear and neither are the requirements.

One of LSSE's Principals, Kevin Brett P.E., recently shared audit results with the Pittsburgh region by speaking at several area events, including the 2015 3 Rivers Wet Weather (3RWW) Conference, Monroeville, PA; 3RWW Municipal Round Table, Green Tree, PA; Pennsylvania Water Environment Association (PWEA) Stormwater Essentials Workshop, Cranberry Township, PA; PWEA Conference, Butler County, PA; Westmoreland County Conservation District's 2016 Engineer's Workshop, Latrobe, PA and at the Western PA Water Pollution Control Association's WestTec Conference in Green Tree, PA.



LSSE's Kevin Brett, P.E. presenting on "MS4 Audits - How Can Your Municipality Prepare?" at the Westmoreland Conservation District's 2016 Engineers' Workshop in Latrobe, PA

If everyone buys into an all-staff commitment to addressing their piece of the MS4 requirements, it can be accomplished in a cost effective manner with each portion of the budget and staff supporting permit compliance. - Kevin Brett, P.E.

Employee News

New Hires

Dylan G. Berton, E.I.T., John G. Bowers, Ryan B. Deer, Anthony W. Deramo, Brian G. Galida, Sheena M. Hoover (returning), Donna Musiol, Chad D. Polaski, David Scarton, RLA, Joseph S. Shook, Jr., James A. Stampelis, and Zachary M. Timko.



LSSE Pot O' Luck: March Madness Kick-Off / St. Patty's Lunch

On March 15, 2016, LSSE held a potluck lunch where employees rallied for their favorite NCAA basketball champs, and for those who were not basketball fans, celebrated the Luck o' the Irish.

For those who wanted to try their luck, there was a 50/50 raffle, that with an additional LSSE contribution, ended up raising \$227.50 to benefit the Coraopolis Food Pantry.



LSSE's Jason Stanton and CVHS Students: Morgan, Mario, Nate, Dante, Adam, Max and Nick.

LSSE Hosts Job Shadow for CVHS Students

This March, LSSE again sponsored a job shadow opportunity for Central Valley High School (CVHS) seniors contemplating STEM (Science, Technology, Engineering, Math) careers. Morgan Daugherty, Adam Kline, Nate Martin, Mario Masciantonio, Nick Mowad, Dante Rodich, and Max Servick learned about civil engineering work and procedures. Thanks to all who participated.

New Arrivals



Noah Gerhard, fourth grandson of Kathy and Dan Gilligan, was born on October 7, 2015. Noah joins Dan's sailing crew with brother Owen and cousins Conor and Aidan.



Lucia Belle Callender was born on February 10, 2016 to Josh Callender and his wife, Tatum.



Braelyn Bouldin, granddaughter of Dee and Larry Souleret, was born on February 16, 2016 to Shayne and Brad Bouldin.

Addilyn Maura

Deer was born on March 31, 2016 to Ryan Deer and wife, Jamie.



Budding Engineer: Kaitlyn Lennon, one of Larry and Leslie Lennon's granddaughters, strikes a pose in her Mom's hard hat

Upcoming Events

LSSE will be attending the following conferences. *Hope to see you there!*

- May 5, 2016 – Somerset County Association of Township Officials Convention
- May 19, 2016 – Butler County Association of Township Officials Conference
- August 28-31, 2016 – Pennsylvania Municipal Authority Association Conference



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LSSE News is published for the benefit of our clients, associates and friends. Further information can be obtained by contacting Daniel S. Gilligan, Managing Principal/Vice President at (412) 264-4400.

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Principals: Ned Mitrovich, P.E.; Jason E. Stanton, P.E.; & Kevin A. Brett, P.E.