

# FOCUS ON ENGINEERING

## Carroll Engineering Corporation

Carroll Engineering Corporation (CEC) is celebrating its 45th Anniversary this year and as one of the largest civil engineering firms in the Greater Philadelphia area, we are proud to continue to provide quality engineering and surveying services to clients throughout Pennsylvania and New Jersey. The company provides highly recognized professional services to a wide range of authority, municipal, public and private clients in the region. Services include: Water/Wastewater Engineering, Municipal Engineering, Civil Engineering, Traffic / Transportation Engineering, Structural Engineering, Environmental Engineering, Surveying, Construction Management, and Geographic Information Systems. Our corporate office is in Warrington, Bucks County. We also have offices in Malvern, Chester County, King of Prussia, Montgomery County and Hillsborough, Somerset County, New Jersey.

CEC has a staff professionals with state or national registrations and certifications

in engineering, planning, surveying, and geology. In addition to professional registrations, many of our staff have supplemental certificates in specialties such as sewage enforcement, hazardous material removal, bridge inspections, water and wastewater operation, etc. Also, CEC developed MuniLogic, Municipal Management Software, an enterprise-wide system to resolve many of the challenges municipal and authority organizations face. This software allows the municipality or authority to become more efficient, better equipped to comply with regulations, make better decisions and ultimately save money.

CEC is continuously recognized as one of the Top 25 Engineering Firms in the prestigious Philadelphia Business Journal Book of Lists. To learn more about CEC, please visit our website at [www.carrollengineering.com](http://www.carrollengineering.com). To learn more about Munilogic, please visit the website [www.munilogic.com](http://www.munilogic.com).



Offices located in PA, NJ, MD, and NC

### Moving *Forward Together*

#### Services:

- » Transportation Planning & Permitting
- » Transportation Systems Management & Operations
- » Multimodal, Complete Streets & Trail Design
- » Construction Management & Inspection
- » Environmental Services & Permitting
- » Bridge Design & Inspection
- » Highway Design
- » Traffic Signal & System Design
- » Expert Witness Support for Crash Investigations



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## Earth Engineering Incorporated

Founded in 1990, Earth Engineering Incorporated (EEI) prides itself on being a high quality full service geotechnical and environmental engineering consulting firm. With offices located in East Norriton, Lehigh Valley and Mechanicsburg, Pennsylvania as well as South Jersey, EEI is well equipped to service the entire 422 corridor.

EEI has specific expertise in Geotechnical Consulting, Subsurface Investigations, Infiltration Testing, Geotechnical Specialty Design Services, Environmental Site Assessments, and Clean Fill Analysis. Items such as cost-effectiveness of foundation alternatives are evaluated along with site development issues and geotechnical data to establish recommendations. This approach has enabled EEI to contribute to the successful development of many large-

scale projects by adding true value to the planning process.

At EEI, our goal is to combine quality consulting and investigative work with on-time, on-budget performance. We're committed to providing our clients with the higher level of service and experience they have come to expect from EEI. Your success is our mission.

The 422 region is alive and well and the professionals at EEI, many of which who reside along the corridor, are ready to support the progress throughout the area. We at EEI look forward to contributing to the success of your next project. For additional information, please call 610.277.0880 or visit our website [www.earthengineering.com](http://www.earthengineering.com).

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## Carroll Engineering Corporation

Celebrating 45 Years of Engineering Excellence  
1973 - 2018

Municipal Engineering - Water Facilities Engineering -  
Wastewater Engineering - Civil Engineering -  
Structural Engineering - Planning & Site Design -  
Traffic & Transportation Engineering -  
Environmental Engineering - Surveying -  
Construction Management -  
Geographic Information Systems









Corporate Office: 949 Easton Road, Warrington, PA 18976 - 215.343.5700

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[www.carrollengineering.com](http://www.carrollengineering.com)

## Why Choose Ludgate Engineering?

There are many reasons such as a 40-year track record, the cohesion of our seasoned, effective staff, or the list of our past accomplishments but the best reason, to our many satisfied clients, is "cost-effectiveness". That phrase means we earn the fee we may be paid by delivering a survey, design, spec, or plan that not only gets the job done but balances the "return" and the "cost" - effectively.

If our client brings a structural problem to be corrected or a drainage problem to be solved we are Professional Engineers who address such problems with the goal of providing the optimal answer. That

answer must address our client's true need or desire with a workable, constructable solution at an affordable cost.

That goal, to be Cost Effective, applies to all of the work we do, whether planning and zoning for a municipality, laying out a subdivision or development, providing a certified ALTA survey, or otherwise serving one of our many diverse client requests.

If you have a need which can be addressed by a Professional Civil Engineering and Land Surveying firm visit us on the web at [www.ludgate-eng.com](http://www.ludgate-eng.com) or call 610.404.7330.



TPDs Original Office in Oaks PA



## TPD Starts 2018 Off Strong after Ending a Banner Year

Traffic Planning and Design, Inc. (TPD), a transportation engineering firm headquartered in Pottstown, PA with nine additional offices, experienced tremendous growth in 2017. The once PA/NJ-centric firm began its southern expansion in 2017 to include two new offices in Elkton, MD and Asheville, NC. Additionally, the firm was recognized as a Top Design Firm in the Mid-Atlantic Region by *Engineering News Record*, the #4 Best Place to Work for in PA (small/medium category), a Hot Firm by the Zweig Group, and a member of the "Soaring 76" firms list by the *Philadelphia Business Journal*.

To kick off 2018, the firm was named to the *Philadelphia Business Journal's* Top 25 Engineering Firms list, as well as completed a two-phase renovation and campus expansion of their Pottstown headquarters. The expansion includes the incorporation of a second office building on the campus, which created a 35% increase in workstations, and a new conference space for larger meetings, among other features.

2018 marks TPD's 29th year in business as the firm was founded in 1989 in an Oaks, PA farmhouse with six employees. Today, we

pride ourselves on being a client-focused, team-oriented firm which operates as "One Company with Multiple Locations". TPD's strategically-located network of offices, progressive management structure, continuous investment in technology, and priority on individual accountability enable the firm to provide quality sustainable service, responsiveness, and local knowledge for the benefit of clients, teaming partners, and ultimately, the traveling public.

The rapid pattern of growth exhibited in 2017 is unprecedented in the firm's history. TPD is looking forward to see what 2018 has to bring.

For more information on the firm, visit [www.trafficpd.com](http://www.trafficpd.com).



**BEST PLACES to work in PA 2017**



# EARTH ENGINEERING INCORPORATED

Geotechnical Engineers & Geologists

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Corporate Headquarters: 610-277-0880

Central PA: 717-697-5701

Lehigh Valley: 610-967-4540

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**QUALITY \* COMMITMENT \* PERFORMANCE**

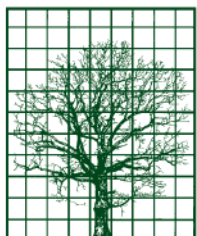
## CEDARVILLE Engineering Group, LLC & Rockland Immunochemicals, Inc. Collaborate Together on a 3D Bioprinting Discovery Project

CEDARVILLE Engineering Group, LLC, and Rockland Immunochemicals, Inc., recently announced a research collaboration designed to explore the development of innovative applications in 3D bioprinting that will advance life science research and accelerate the drug discovery process. Interest in 3D bioprinting has emerged in recent years. Applications for 3D bioprinting include drug screening, precision and regenerative medicine, food products and biosensors. The project is expected to leverage the expertise CEDARVILLE has in 3D modeling and printing, and the insight Rockland has in developing cutting-edge reagents and cell culture processes critical to novel biotechnologies.

"Every day, we help determine the planning and development of roadways, bridges, utility expansion and industrial or commercial sites. In that macro context, we have developed processes to create 3D scalable models with precision and accuracy

to fit the workflows in that paradigm," says April M. Barkasi, PE, President and CEO of CEDARVILLE. "This project presents an exciting twist. We will envision, now in a microenvironment, the application of technology and protocols on a cellular level to help advance scientific discovery in medicine."

"The 3D bioprinting market is expected to grow in excess of 25% over the next five years to reach \$1.33B in 2021," says Dr. Karin Abarca, Vice President, Science Operations, at Rockland. "Our extensive know-how in 3D cell culture and the production of bespoke reagents critical to drug discovery provide a keen perspective on the opportunities and promise of 3D bioprinting. Rockland partners with industry leaders to target attractive markets with critical unmet needs. Together with CEDARVILLE, we foresee that our multi-disciplinary team will make real and meaningful advances in 3D bioprinting."



# LUDGATE ENGINEERING CORPORATION

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