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630 Freedom Business Center, Third Floor, King of Prussia, PA 19406 | 610-572-7093
105 Raider Boulevard, Suite 206, Hillsborough, NJ 08844 | 908-874-7500

WWW.CARROLLENGINEERING.COM | INFO@CARROLLENGINEERING.COM



Carroll Engineering Corporation

Carroll Engineering Corporation (CEC) continues to provide quality engineering and surveying services to clients throughout Pennsylvania, New Jersey, and parts of Delaware since first opening its doors in 1973. We are known to a wide range of authority, municipal, public, and private clients in the region for our highly recognized professional services. CEC currently has a staff of approximately 90 employees divided into nine interrelated departments, five of which represent specific engineering functions being Municipal, Water / Wastewater, Planning & Site Design, Structural, and Traffic & Transportation Services. The remaining four departments include Surveying, Construction Administration & Observation, Geographic Information System (GIS) / Computer Aided Drafting & Design (CADD), and Administrative, all of which are support departments to our engineering services. Our services have expanded to include the usage of high-tech capabilities, Drone / UAV, and 3-D Laser Scanning Services, to ensure data precision and accuracy for our client's projects. All our departments serve as valuable resources to each other. Our dedicated staff is a testament to our firm's growth, with the experience provided to

each of our clients resulting in a large number of sustainable long-term relationships.

CEC has a staff of 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 including LEED AP. We are focused on identifying and eliminating potential problems and always take an innovative design approach. 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.

To learn more information about our firm and our high-quality services, be sure to check us out at www.carrolleengineering.com and follow us on LinkedIn, Facebook and Twitter. If you need any engineering or surveying support on your next project or have any questions about CEC, please contact Joel Ardman, Vice President directly by email at jardman@carrolleengineering.com or phone at 215.343.5700 ext. 243, or reach out to Zuzanna Reese, Business Development Specialist at zreese@carrolleengineering.com or 215.343.5700 ext. 220.



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McCarthy Engineering Associates Inc.

McCarthy Engineering Associates, Inc., with offices in Wyomissing and Pottstown, is a multidisciplinary engineering, consulting, planning, and environmental services firm. We provide services to industrial, commercial, health care, educational, governmental, and residential clients throughout the Northeast United States. Our capabilities range from civil engineering, land development, structural design, water resource management, surveying and mapping to mechanical engineering, plumbing design, electrical engineering, and fire protection design. Jim McCarthy, owner, incorporated the business in June 2000 with a vision to create a different kind of engineering firm. Twenty-two years later, McCarthy combines the latest technologies, the most knowledgeable associates and out-of-the-box problem solving to complete client projects.

McCarthy offers its clients a professional team that includes engineers, surveyors and designers, many of whom have more than 30 years of individual experience in their areas of expertise. This knowledge has directly resulted in highly satisfied clients and hundreds of successful projects. Our strength is found in our team members' knowledge and desire to provide timely and high-quality service. This is the strong foundation upon which the company is built. The high ratio of repeat business can be attributed to our philosophy of doing things right the first time on time! McCarthy Engineering is your design partner. We Engineer Your Success!

For additional information, please contact: McCarthy Engineering Associates, 2500 E. High Street, Suite #630, Pottstown, PA 19464; Phone: 610.369.3190; Web: www.mccarthy-engineering.com.

RT Environmental Services, Inc.

Since 1988, RT Environmental Services, Inc. (RT) has been providing environmental engineering and consulting services to our clients throughout the northeastern United States and beyond. RT provides environmental due diligence, permitting, engineering, and remediation services to the real estate, banking, industrial, and legal sectors. We are a client-focused business and pride ourselves in providing reasonable & cost-effective solutions to our client's environmental issues. The lines of communication are always kept open between our professionals and our clients, and the technical solutions we provide are rooted in practicality. We are experts in our field and maintain a working knowledge of the ever-changing environmental regulations at both the state and federal levels. Our longevity and success in the industry has allowed RT to establish good working relationships with government officials and

regulators alike. RT always aligns our goals with those of our clients, and we strive to maintain the highest level of professionalism with all of our projects, regardless of cost and size.

RT offers services which include environmental assessments, soil and groundwater investigations, site remediation, environmental permitting, and indoor air quality services, to name a few. We also assist our clients with addressing sites under the various state and federal environmental cleanup programs. RT's team is made up of environmental scientists, licensed professional geologists, and licensed professional engineers. Additionally, several of our senior level managers maintain NJ Licensed Site Remediation Professional (LSRP) licenses in order to assist our clients with addressing sites in New Jersey through the NJDEP Site Remediation Program.



For more information on RT and our areas of expertise, you can contact us as follows:

Email us at rtenv@rtenv.com

Visit us on the web at www.rtenv.com

Call one of our environmental professionals at 610.265.1510

For emergencies, you can use our 24-Hour Urgent Line at 800.725.0593.

RT'S OFFICE LOCATIONS:

Pennsylvania

215 West Church Road
King of Prussia, PA 19406
Phone: 610.265.1510

2001 Waterdam Plaza Drive,
Suite 205
Canonsburg, PA 15317
Phone: 724.206.0348

New Jersey

553 Beckett Road, Suite 608
PO Box 521
Bridgeport, NJ 08014
Phone: 856.467.3476

We Are Hiring.

RT is always looking for qualified Environmental Professionals in all of our offices. Please contact us at rtenv@rtenv.com for more information.



RT Environmental Services, Inc.

FOCUS ON ENGINEERING / ENVIRONMENTAL ENGINEERING FIRMS

Berks Surveying & Engineering — Connect with Expertise

For over 31 years, Fleetwood-PA-based Berks Surveying & Engineering, Inc. (BSE) has completed thousands of projects in Berks County and surrounding counties. Beginning with Boundary Surveying and Subdivision Planning, BSE has evolved to encompass all phases of Commercial, Residential, Industrial, & Agricultural Land Development Planning. Though all types of land surveying continue to be a staple service, the requests from customers looking for new construction permitting help and site design services have increased over the past three years.

Due to this demand, the need for Sketch Plans have been on the rise. This is a win-win situation for customers and for BSE — providing a specialty product that addresses potential zoning compliance and physical site condition issues that may impact improvements, development restrictions, and costs. This type of feasibility research and planning is done before more comprehensive land development planning and the municipal plan submission process which



Firehouse Coffee in Village of Maxatawny, Maxatawny Township, Berks County

requires multiple agency reviews, design costs, and associated fees.

This Sketch Plan Phase (Phase 1) gives property buyers, sellers, or developers an early opportunity to assess the potential success or pitfalls that may be associated with a particular property before moving on to Phase 2 or Final planning, such as Environmental Impacts, Access/Egress & Driveway Design, Erosion & Sedimentation Control, Stormwater Design, NPDES, or other specialized permit planning.



Scoupe deVilleville Ice Cream Parlor, 460 N. Lewis Rd., Royersford, Limerick Township, Montgomery County

Striving to increase customer services has led to a fortunate progression of staff promotions at Berks Surveying & Engineering, Inc. Recently, Senior Project Manager and PA Licensed Professional Land Surveyor, Robert D. Hain, was promoted to help lead the company as Vice President.



Besides being a great asset as a CAD Drafter/Designer with over 25 years of experience, Rob is also a licensed Sewage Enforcement Officer and Licensed Drone Pilot, giving clients the advantage of having aerial drone photography of their site(s).

(Continued on page 14)

CONNECT WITH EXPERTISE

More than 30 years of experience in land development projects.

- Commercial, Industrial, Residential, Agricultural
- Site Analysis & Land Use Planning
- Legal Descriptions
- Subdivision & Land Development
- Boundary Disputes & Zoning Testimony
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Atlantic American Precast (AAP) is a proud manufacturer of both Gravix® DOT/Rail Precast Wall and Forix® Precast Modular Wall Systems.

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Certifications: Bulletin 15 Approved Producer: The Gravix Wall System, Lagging Panels, Ground Mounted Sound Wall Post and Panels, F Shaped Single Face Barrier • Approved NJDOT Producer: The Gravix Wall System • Approved Del-DOT Producer: The Gravix Wall System

CONTACT US TODAY!

Atlantic American Precast
1 Quarry Road • Douglassville, PA 19474
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All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or status as a protected veteran. Atlantic American Precast encourages females and minorities to apply.

BUSINESS SPOTLIGHT

Atlantic American Precast (AAP)

Atlantic American Precast (AAP) was established in 2020 as a producer of specialized precast concrete earth retention structures for the heavy civil infrastructure sector. The *AAP* venture embodies a strong, 20-year working relationship with Earth Wall Products of Atlanta, GA, who is an industry leader in development of both mechanically and gravity stabilized earth walls for Departments of Transportation, Industrial, Commercial and Residential applications.

From our brand new, 18,000 square foot manufacturing facility in Douglassville, PA (within H&K Group, Inc.'s Trap Rock Business Center complex) *AAP* produces both Gravix and Forix precast concrete gravity wall systems, which are licensed exclusively through Earth Wall

Products. The *AAP* facility is situated on a 10-acre parcel and features a dedicated on-site Voeller batch plant with planned staging and storage yard areas. *AAP* is also an approved producer of Lagging Panels, Ground Mounted Sound Wall Post and Panels and F-Shaped Single Face Barrier for direct application in the heavy highway/infrastructure sector.

Our *AAP* facility is a certified producer for the PA, DE and NJ Departments of Transportation, and we are also a proud member of the Pennsylvania Precast Association and the National Precast Concrete Association.

Anyone seeking to understand more about the engineering and construction advantages of these remarkable products is encouraged to connect with *AAP* at 1.833.681.1571 or emailus@aapwall.com.



FOCUS ON ENGINEERING / ENVIRONMENTAL ENGINEERING FIRMS

(Continued from page 12)

Seeing a rise in new and expanding Agricultural Construction, we recently acquired an Ag Specialist and Estimates Manager, Amanda Marbarger. Mandy is certified to assist agricultural producers by providing simple PA manure management plans, Nutrient Balance Sheets, NRCS 590 Plans, and PA Act 38 Nutrient Management Plans. These plans will include farm purpose and goals, manure and soil test results, crop rotation history, soils information, animal type and numbers, manure storage and use, wastewater management, and any best management practices that should be implemented. This planning is considered alongside standard land development and soils conservation planning services.



on-lot septic is required and the soils are too poor for standard septic design, it's best to know upfront.

From concept through completion, our goal is to bring our expertise to work on behalf of our clients. We work diligently with our customers throughout the life of their project and represent them knowledgeable and professionally through municipal, county & state planning reviews. Berks Surveying & Engineering, Inc. is looking forward to helping our customers and our communities prosper and grow responsibly.



And, another one-stop-shop benefit, BSE has qualified experienced consultants on staff to assist or manage Soils Testing for Sewage Permit Planning and Stormwater Control Plans required by PA DEP and for Municipal construction planning. This is a major benefit – especially to a buyer of property – because, if

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Laboratory Soils Testing

Environmental Site Assessments and Remediation

www.earthengineering.com

Corporate Headquarters: 610-277-0880

Central PA: 717-697-5701

Lehigh Valley: 610-967-4540

South Jersey: 856-768-1001

QUALITY * COMMITMENT * PERFORMANCE

Earth Engineering, Inc.

Earth Engineering Incorporated (EEI) is a full-service Geotechnical/GeoEnvironmental engineering consulting firm. We are composed of a group of proven professionals ready to provide swift and cost-effective service to meet the demands of any project.

"Your Success is Our Mission"

Driven to provide leading engineering solutions for any type of construction project, our geotechnical and environmental experts have over 30 years of expertise in enhancing construction design and safety. Focused on accurate subsurface site investigation, clearly defined recommendations, and innovative strategies to keep your project on time and budget, Earth Engineering Incorporated provides companies with reliable information and professional guidance for streamlined projects from start to finish.

Why Work with Earth Engineering Incorporated?

Our success in improving development projects of all sizes begins with our committed team of experienced geotechnical engineering and environmental experts. Utilizing a well-rounded approach to site analysis and organized foundation design, our comprehensive engineering solutions lead to clearer data, on-time projects, and improved confidence in the stability of your builds. When you trust our geotechnical engineering firm to investigate your site, you can expect quality engineering services, cost-effective services, and professionals with 30+ years of experience in the industry.



*Earth Engineering, Inc. is headquartered at
115 W. Germantown Pike, Suite 200, East Norriton, PA 19401.
For additional information, please call 610.277.0880 and visit www.earthengineering.com.*



Forever Chemicals “Emerging” from Under Environmental Radar in 2022



By Mitchell E. Burack, Esq.

You may have read about some communities in the Area, having to deal with “Forever Chemicals” (e.g., PFOA and PFOS) resulting from manufacturing and use of fire-fighting FOAM, showing up in drinking water supplies. This issue has rapidly evolved from a below-the-radar screen / “emerging contaminants” issue, into a fairly big deal that all businesses AND residents need to pay close attention to. Highly toxic Forever Chemicals and their equally or more toxic degradation products (having slightly different configurations of carbon atoms), have infiltrated soils, groundwater, surface waters, landfills, sewage sludge, and municipal drinking water well fields, and are believed to be a health hazard at barely detectable levels like .004 parts per billion. Unlike most other chemicals that can be found just about anywhere if you measure in parts per billion, the Forever Chemicals *are believed to be a health hazard at fractions of parts per billion* (e.g., as low as four parts per trillion!) You may be thinking: “Why am I telling you this?” The answer is next if you keep reading...

As a practical matter, this is starting to mean that any detectable level of the

chemicals is deemed to be a problem that may require treatment, or some other expensive plan to avoid human exposure. The regulatory complexity of this unfortunate problem is being magnified

by new requirements for PFOA/PFOS testing by water utilities as well as many businesses already engaged in periodic groundwater sampling, for any number of reasons. “Phase II” site investigations for property transactions are also suddenly starting to include such testing, because no business wants to get unexpectedly stuck with legal responsibility to prove to the government, or its employees or tenants, that the source is somewhere offsite and out of control of the property owner, rather than being a residual impact from historic manufacturing activity or previous use of foam to fight a substantial sized fire at the property (or firefighting training).

Like other newcomers to the groundwater sampling protocols in the past, Forever Chemicals may create some chaos as businesses and residents belatedly learn that they have a PFOA/PFOS problem. Until the regulatory agencies and insurance industry get their arms around this issue, the best approach will be one of CAUTION.

Mitchell Burack can be reached at 610.660.7790 (office phone); 610.952.2476 (cell phone); or email: MitchellBurack@BurackEnvironmentalLaw.com.

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Mitchell E. Burack

Environmental Law is all I do.

My work includes stormwater permitting and disputes, underground tank issues, and government enforcement action resolution generally. I also frequently advise and represent businesses on issues of liability for potential site contamination caused by historic operations — invisible under buildings and pavement, **but threatening to devalue business property which you currently own.**

Whatever the issues, my goal is always to open a path to resolution, via “**mindful advocacy**” as an alternative to the substantial time and cost of an administrative hearing process or a civil lawsuit.

Similar issues arise in negotiating purchase and sale agreements for properties having history of industrial use, or even harmless-seeming neighborhood businesses such as dry cleaning or auto repair.

Sometimes I am contacted immediately after receiving a Notice of Violation or notice of an environmental claim; or early in the environmental due diligence period for a property sale; or even early enough to work with real estate counsel to negotiate a favorable allocation of environmental liabilities and a reasonable due diligence process. Sometimes it is a bit later in the game and some initial triage may be needed before “mindful advocacy” can succeed.

Whatever the case may be, **I get the job done** with the cards that are dealt. People who know me say that I am a good issue-spotter and problem solver who can cut through the noise and focus on a reasonable path to resolution. **I will do that for you;** and I also promise to give my Best Efforts at **thoughtful and value-added assistance**, as well as cost-effective time management from beginning to end.



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in Environmental Matters*

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Ludgate Engineering Engineering for Land Development

Ludgate Engineering has provided civil engineering for land development since the company was founded by Bob Ludgate Sr. in 1976. Although rules and regulations have changed, the planning process still deals with the several impacts imposed by almost all development plans.

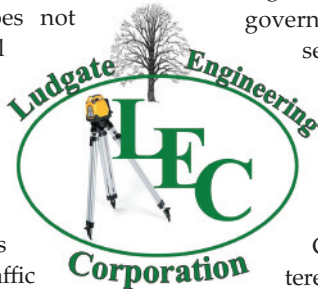


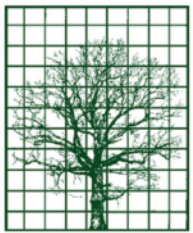
While the site civil engineer provides plans to identify and offset or mitigate impacts, the Engineer must do so in a way that does not impede the essential functions the site shall provide, nor shall the plan compromise the Architect's vision of the development.

Each site plan deals with the impacts of traffic management and parking layout. Managing stormwater for

drainage and flood prevention often governs the design. Bringing sewer, water, and other utilities to the site can present difficult problems for the Engineer to solve.

Ludgate Engineering Corporation is headquartered at 10 Vanguard Drive, Suite 90, Reading, PA 19606; 610.404.7330.





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All County & Associates

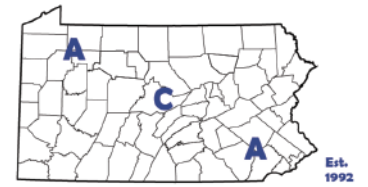
Since 1992, All County and Associates, Inc. (ACA) has grown from a three-person firm, formed by All County Investments, Inc. (ACI). Located in Chester County, the firm offers a full range of civil engineering services, throughout eastern Pennsylvania. These services include

Construction Management; Civil Engineering; Environmental Permitting; Septic System Testing and Design; Land Surveying; Wetland Delineations and Mitigation.

All County and Associates, Inc. is the first choice of the construction and real estate community. Having worked on thousands of projects, ACA sets itself apart by developing and maintaining long-term relationships. These relationships are represented through a dedicated referral network of satisfied customers. Our team is a trusted source for our rapid

and thorough responses, and our ability to handle a project big or small. We never deviate from our primary focus of helping them make informed decisions. It is our goal to have our clients educated and familiar with the processes. This allows for the best communication and understanding of ALL parties involved.

If you have an upcoming project and would like a proposal for our services, please call 610.469.3830 and visit www.all-county-assoc.com. Our team of licensed professionals look forward to getting to know you and learn more about your needs.



All County and Associates, Inc.

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Helping You Make Informed Decisions



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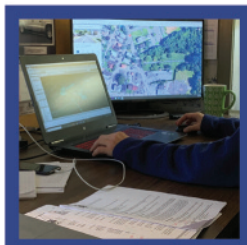


Tel: 610-469-3830

Web: www.all-county-assoc.com

Email: info@all-county-assoc.com

Serving Berks, Bucks, Chester, Delaware and Montgomery County Since 1992



BUSINESS SPOTLIGHT

Witman Engineers & Consultants, LLC



Witman Engineers, located in Morgantown, Pennsylvania is a full-service Civil Engineering Consultant. While offering a wide range of services, we specialize in Commercial and Industrial Consulting, Construction Consulting to the Transportation Construction Industry and Residential Site Design. We serve all of eastern Pennsylvania, with projects located throughout central and eastern Pennsylvania, but go where our client's need us, even to southern Georgia.

One project of note was provided Field Engineering Services to Neshaminy Constructors, Inc, of Feasterville, PA for the replacement of the Limekiln Pike Bridge over the SEPTA's Lansdale Line. Our work included preparing Structure Demolition and Erection Plans, design of Temporary Excavation Supports, Beam Bracing and Concrete Formwork.

Our staff has designed, Bridges, Culverts and Roadways for the Department of Transportation and Municipal Governments. Industrial clients have included Montgomery Chemicals in Conshohocken and TIMAC Agro, USA in Reading. We also provide individual lot, Storm Water Management and Erosion Control Plans for residential home builders.

Witman Engineers is a member of The Associated Pennsylvania Constructors and American Road and Transportation Builders Association. We are PennDOT prequalified for Construction Engineering and Construction Surveying. You can learn more about us by visiting www.witmanengineers.com.



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