LANGAN EXPERIENCE

Technical Excellence  Practical Experience  Client Responsiveness
THE PAVILION - PENN MEDICINE

Location: Philadelphia, PA
Client: University of Pennsylvania Health System
Architect: HDR Architecture, Foster+Partners
Partner: L.F. Driscoll, Balfour Beatty, BR+A
Services: Site/Civil, Geotechnical, Environmental, Surveying/Geospatial, Traffic & Transportation

OVERVIEW
As part of the project team, known as PennFIRST, Langan is providing a multitude of services including site/civil, geotechnical, and traffic engineering; environmental consulting; permitting; and survey. In an effort to expand their rapidly growing network, Penn Medicine has assembled one of the first integrated project delivery (IPD) teams on the East Coast for the design and development of a new patient pavilion, located in Philadelphia’s University City area. The new clinical facility will include approximately 500 new patient beds, 50 operating and procedure rooms, a relocated and expanded Emergency Department, 700 space substructure parking lot, and expanded healthcare delivery programs within the network.
MEMORIAL SLOAN-KETTERING CANCER & DATA CENTER

Location: Middletown, NJ
Client: Memorial Sloan-Kettering
Architect: Perkins + Will
Services: Landscape Architecture, Site/Civil, Geotechnical, Environmental, Natural Resources & Permitting, Surveying/Geospatial

OVERVIEW

Langan provided engineering, site design, and land development services to convert an existing multi-story office building into a state-of-the-art cancer care center. The overall site design allows patients to enter the building at the upper and lower levels while providing improved vehicle and pedestrian circulation patterns. Landscaped walkways provide patient access to the surrounding woodlands and expand recreational opportunities. Lush entry gardens and courtyards help create a soothing and therapeutic environment. This project is LEED Gold certified.

AWARDS

2018 ACEC New York Engineering Excellence: Platinum Award
MD ANDERSON CANCER CENTER AT COOPER UNIVERSITY HOSPITAL

Location: Camden, NJ
Client: Cooper University Hospital
Services: Site/Civil, Geotechnical, Landscape Architecture, Environmental, Natural Resources & Permitting, Traditional Surveying

OVERVIEW
Langan is supporting the multi-story, 103,000-SF world-class cancer institute. The design includes a public plaza and garden, and a renovated landscape. The project has undergone extensive conceptual planning, programming, and site planning studies to locate the facility on an extremely tight urban site. Stormwater runoff from the proposed site was minimized by reducing the amount of on-site surface parking in favor of a heavily landscaped plaza space.

AWARDS
2013 US Green Building Council New Jersey, Emerald Award - Urban Green Project
2013 American Council of Engineering Companies, Diamond Award
HUMC - THE SECOND STREET PAVILION

Location: Hackensack, NJ
Client: Hackensack Meridian Health
Architect: RSC Architects, EYP Architecture & Planning
Services: Site/Civil, Geotechnical, Environmental, Landscape Architecture, Traffic & Transportation, Surveying/Geospatial

OVERVIEW

Langan is providing land development engineering and environmental services for the new Second Street Pavilion at Hackensack University Medical Center. The new 530,000-SF pavilion would add up to 200 private patient rooms and 24 operating suites to the hospital. The project also includes the construction of a new Central Utility Plant (CUP) and electrical switchgear yard to support the hospital campus. Our team assisted with site improvements associated with the proposed buildings, including a circulation driveway, walkways, retaining walls, utilities, and stormwater management. Langan's survey team provided a full site survey in support of the site design.
UCHC OUTPATIENT PAVILION AND PARKING GARAGE

Location: Farmington, CT
Client: Fusco/Clark - a Joint Venture
Services: Site/Civil, Environmental, Traditional Surveying

OVERVIEW
The UCHC Ambulatory Care Complex is a design-build project with an aggressive delivery schedule. The project includes a 300,000 square-foot medical building and six-story parking garage. Langan is providing engineering, environmental permitting and surveying services. Site challenges include existing wetlands that require filling, a mass excavation over more than 70 feet in some areas, a need for flood management verification, and significant utility upgrades and reconfigurations on an active health care campus. The site design will incorporate environmentally sensitive stormwater techniques and the team is seeking LEED Silver certification for the project.

AWARDS
2016 Connecticut Building Congress Project Team Award - First Place for New Construction
OVERVIEW

Langan is performing site/civil, geotechnical, environmental, traffic, and survey engineering services for the new Rutgers Cancer Institute of New Jersey project in New Brunswick, the state’s only National Cancer Institute-designated comprehensive cancer center. The state-of-the-art facility will provide new space for essential cancer treatments and research. The project also includes a new 1,000-car parking garage.
UNIVERSITY OF CONNECTICUT - INNOVATION PARTNERSHIP BUILDING

Location: Mansfield, CT
Client: University of Connecticut
Architect: Skidmore, Owings & Merrill
Services: Site/Civil, Geotechnical, Landscape Architecture, Traditional Surveying

OVERVIEW
The Innovation Partnership Building will be the first building within UCONN's North Campus technology park. Langan provided survey, geotechnical and civil engineering, and landscape architecture for this 115,000-SF project. Langan's site design minimized the impacts to the primarily wooded lot and reduced the views of parking along the roadway through grading and landscape design. Our stormwater management design implemented a low impact development approach that seeks to protect and minimize disruption to the existing natural resources and environmentally sensitive areas. The project was submitted for LEED Silver certification.
OVERVIEW

Langan provided geotechnical, civil, environmental, traffic, and landscape architecture services to this France-based biotechnology and pharmaceutical company. The first phase of the project consisted of a five-story, 70,000-SF glass building, which features metal panels that rise on two sides of the building, symbolizing the nature of Biotrial's pharmaceutical testing mission. Phased site design construction plans include a screened-in service and parking area with underground stormwater storage, a public plaza at the front of the building that will carry the building pattern toward the public sidewalk, and a private volunteer garden that will provide a green resting area for building users.
UNIVERSITY OF PENNSYLVANIA - PERRY WORLD HOUSE

Location: Philadelphia, PA
Client: University of Pennsylvania
Services: Environmental, Site/Civil, Geotechnical, Traffic & Transportation, Natural Resources & Permitting, Traditional Surveying

OVERVIEW
The University of Pennsylvania (UPenn) expanded their Philadelphia campus with the addition of Perry World House, a gathering place for faculty and students from all twelve of UPenn's schools to engage with eminent international scholars and policymakers on pressing global issues of the 21st century. Construction included a partial demolition of the structure and a 7,200-SF addition to the existing historic portion of the building. Now complete, Perry World House includes classrooms, offices, lecture halls, and multipurpose spaces. Site improvements included a plaza, service court, and pedestrian walkways. Langan provided a variety of services on the project, including an environmental assessment, survey, site/civil, geotechnical and transportation engineering, and permitting.
OVERVIEW

In order to accommodate a rapidly growing student population, Swarthmore College added a 128-bed residence hall near its Palmer, Pittenger and Roberts residence-hall complex. Langan provided site/civil, survey, and geotechnical engineering services to facilitate designing, permitting, and constructing the new residence hall. The project was designed to minimize environmental impact by following the recommendations established in the college's sustainability framework. To meet the college's sustainability goals, Langan worked closely with the project landscape architect, Studio Bryan Haynes, to design the site to preserve trees, respect the ball fields adjacent to the resident-hall quadrant, provide outdoor space for student enjoyment, provide low-impact stormwater-management features, and conserve energy. Langan's experience with designing and permitting innovative stormwater management on tight urban sites was a key contribution to the success in the design and approval process for this project.
USCIENCES - 1ST YEAR RESIDENCE HALL

Location: Philadelphia, PA
Client: Design Collective Inc., University of Sciences, Campus Apartments
Architect: Design Collective
Services: Site/Civil, Surveying/Geospatial

OVERVIEW
To better meet the needs of its students, University of the Sciences constructed a new, 126,000-SF mixed-use residence hall on its main campus in the University City area of Philadelphia. The 426-bed residence hall for first-year students is a live-learn community that incorporates numerous sustainable features to achieve Green Globes building certification through the Green Building Initiative. To facilitate this new development, Langan designed the open-air plaza and streetscape on the neighboring streets and spearheaded the land-development permitting process with the City of Philadelphia agencies. The tight urban site, combined with substantial grade changes around the property, created complexity; especially with respect to the stormwater management and ADA accessible design.
TEMPLE UNIVERSITY ARAMARK STAR COMPLEX

Location: Philadelphia, PA
Client: Temple University
Services: Site/Civil, Surveying/Geospatial, Landscape Architecture

OVERVIEW
The Temple University Aramark Student Training & Recreation Center (STAR) Complex sits on a 4-acre site and includes an enclosed 60-yard football practice field, recreational facilities, a neighborhood recreational track, classroom space for the College of Public Health, green stormwater infrastructure, and a landscaped entry plaza. Langan provided site/civil engineering, landscape architecture, and survey services to facilitate the development. In addition to providing design and engineering services, Langan was responsible for securing land development permits from the Philadelphia Water Department and the Pennsylvania Department of Environmental Protection.
BRIDESBURG RIVERFRONT PARK

Location: Philadelphia, PA
Client: Riverfront North Partnership (RNP), Philadelphia Department of Parks and Recreation (PPR)
Services: Site/Civil, Geotechnical, Environmental, Landscape Architecture, Surveying/Geospatial

OVERVIEW

Langan is leading a team of designers and engineers who are creating a 10-acre park on a paved brownfield on Philadelphia's Delaware River waterfront. A varied landscape featuring a central lawn framed by an upland meadow, a gravel garden stormwater swale, and riparian plantings will create the setting for park amenities including a stage pavilion, lawn amphitheater, boardwalk, and stage pavilion. Langan's understanding of the site's environmental conditions and regulatory realities guided the park's design and soil-management strategy. Our subconsultants for the project include SITIO Architecture, Ground Reconsidered, O'Donnell and Naccarato, Arora Engineering, Milrose Consultants, and Becker & Frondorf.
BARTRAM'S MILE

Location: Philadelphia, PA
Client: City of Philadelphia Parks & Recreation Department
Architect: Andropogon Associates
Services: Environmental, Site/Civil, Geotechnical, Traffic & Transportation, Surveying/Geospatial

OVERVIEW

Langan helped the City of Philadelphia transform a one-mile stretch of vacant river frontage along the western banks of the tidal Schuylkill through the extension of the Schuylkill River Trail and the creation of new parks and an innovative neighborhood stormwater management system. Langan was responsible for the conceptual design of the stormwater system; permitting; geotechnical investigation; and final design of all elements of the project, including trail design, traffic engineering, and complete streets design.
RACE STREET PIER

Location: Philadelphia, PA
Client: Delaware River Waterfront Corporation, James Corner Field Operations
Partner: CHPlanning, VJ Associates
Services: Waterfront & Marine, Site/Civil, Geotechnical, Traditional Surveying

OVERVIEW

Race Street Pier is one of the first public spaces to be designed and built by the Delaware River Waterfront Corporation as part of the new Civic Vision for the Central Delaware Riverfront. Pier 11 was identified as an early action park site and the project was faced with an aggressive schedule, as required by the City.
RACE STREET CONNECTOR

Location: Philadelphia, PA
Client: Delaware River Waterfront Corporation, James Corner Field Operations
Services: Site/Civil, Traditional Surveying, Landscape Architecture

OVERVIEW

The Race Street Connector project includes the beautification and streetscape improvements along Race Street between 2nd Street and Columbus Boulevard. The improvements serve to enhance the pedestrian experience when traveling from Old City to the Delaware River by creating a welcoming and effective connection. More specifically, the improvements create an attractive gateway to the Race Street Pier on the Delaware River.

The project's streetscape improvements largely focused on enhancing the pedestrian footway with decorative illuminating screen walls, architectural lighting, street furnishings, ornamental bollards and decorative landscaping. Roadway improvements included the addition of a designated bike lane along Race Street and the reconfiguration of two intersection alignments at Front Street and Water Street. The reconfigured alignments will allow pedestrians to cross the intersections without the use of curb ramps and will improve pedestrian-vehicular interaction at these intersections.
PIER 53 - WASHINGTON AVENUE GREEN

Location: Philadelphia, PA
Client: Delaware River Waterfront Corporation, Applied Ecological Services, Inc.
Services: Waterfront & Marine, Site/Civil, Geotechnical, Traditional Surveying, Natural Resources & Permitting, Landscape Architecture

OVERVIEW
Langan was retained to support the design-build improvements at Pier 53. The overarching goals of the project were threefold: ecologic enhancement, public access and community involvement, and balancing these priorities. The project sets a precedent for a larger program by serving as a template for ecological enhancements that will be effective for the adaptive reuse of industrial waterfronts. The ecological restoration will serve as a model for the proposed development of the entire 30-acre South Wetlands Park.
FASHION DISTRICT PHILADELPHIA

Location: Philadelphia, PA
Client: Macerich, PREIT
Architect: JPRA Architects
Services: Site/Civil, Surveying/Geospatial, Traffic & Transportation, Environmental

OVERVIEW

Langan collaborated with the owners, architect, and design team to transform the Gallery at Market East into a modern, mixed-use shopping and entertainment destination. The Fashion District Philadelphia is an urban redevelopment project along Market Street, spanning between 8th and 11th Streets, containing 1.5 million square-feet of mixed-use space. Langan worked with the design team to prepare detailed engineering drawings and helped navigate a complex permitting path.
DIETZ & WATSON HEADQUARTERS EXPANSION

Location: Philadelphia, PA
Client: Dietz & Watson
Architect: Architetra
Services: Site/Civil, Geotechnical, Environmental, Landscape Architecture, Surveying/Geospatial, Traffic & Transportation

OVERVIEW

After a devastating fire, the Dietz & Watson deli products distribution plant in Delanco, NJ was forced to find a new place to call home. The food industry giant opted to return to their roots in the city of Philadelphia and expand upon their existing 22-acre corporate headquarters. The expansion will include a new 200,000-SF enhancement of its corporate headquarters and manufacturing facility, and a new fleet-maintenance facility. Langan provided site/civil, environmental, geotechnical and traffic engineering; landscape architecture; and survey services in the redevelopment of a portion of the former Frankford Arsenal site along the Delaware River. Langan's brownfield redevelopment experience and regulatory expertise contributed to the accelerated permitting schedule.
LINCOLN FINANCIAL FIELD STADIUM EXPANSION

Location: Philadelphia, PA
Client: WLS Consulting, LLC, Philadelphia Eagles
Architect: Gensler
Services: Site/Civil, Geotechnical, Environmental, Traditional Surveying, Terrestrial Scanning/BIM

OVERVIEW

Lincoln Financial Field, home stadium of the Philadelphia Eagles, seats 69,000. Langan was retained to assist with stadium improvements, including seating expansion, suite and amenity enhancements, exterior plaza and gate enhancements. We designed two new stormwater bioretention areas which manage over 1,800 CF of stormwater, and a new 15,000-SF pedestrian plaza paved with porous pavement, as part of a strategy to implement green stormwater management.