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DWIGHT-ENGLEWOOD SCHOOL

Location: Englewood, NJ
Client: Dwight-Englewood School
Architect: Gensler
Partner: Gilbane Building Company, Robert Silman Associates, SCAPE, Levien & Company, ME Engineers (MEP)
Services: Site/Civil, Geotechnical, Environmental, Surveying/Geospatial, Traffic & Transportation

OVERVIEW

Dwight-Englewood School is a diverse, independent school with 900 students ranging from preschool through 12th grade. Through a collaborative process, Langan and the project team took a unique approach to designing the new STEM facility, teaching garden, and additional improvements to campus parking connectivity. Langan helped to overcome land development issues on a challenging property, which included extensive grade changes, shallow rock, and existing infrastructure on an active campus.

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P.S. 62 - NET ZERO ENERGY SCHOOL

Location: Staten Island, NY
Client: New York City School Construction Authority (NYCSCA)
Architect: Skidmore, Owings & Merrill LLP
Services: Geotechnical, Site/Civil

OVERVIEW

P.S. 62 The Kathleen Grimm School for Leadership and Sustainability is the first net-zero energy school in New York City and one of the first of its kind worldwide. The school will harvest as much energy from renewable on-site sources as it uses on an annual basis. This 68,000-SF, two-story courtyard-shaped building takes advantage of sunlight for both daylighting and photovoltaic arrays on the roof and south façade. Langan performed a geotechnical subsurface investigation program and geotechnical engineering design work for the design team. Langan's extensive knowledge of Staten Island's subsurface conditions provided valuable input to the design team for designing structures and pavements on poor drainage material.

AWARDS

2017 ULI Awards for Excellence in Development: Institutional Development Finalist
2016 ENR New York Best Projects Awards: Green Project
2016 ENR New York Best Projects Awards: K-12 Education
2016 Winner Architizer A+ Award, Jury and Popular Choice Awards

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TRENTON CENTRAL HIGH SCHOOL

Location: Trenton, NJ
Client: New Jersey Schools Development Authority
Services: Site/Civil, Geotechnical, Environmental, Landscape
Architecture, Surveying/Geospatial

OVERVIEW

As part of the design-build team, Langan provided site/civil, geotechnical, surveying, landscape architecture and environmental engineering services for the new Trenton Central High School in Trenton, New Jersey. During the design-build phase, Langan evaluated the subsurface conditions and lighting design prepared value-engineered design measures to provide cost-effective solutions for the proposed foundation and proposed lighting systems. The proposed development consists of the construction of a two-story high school building with a 237,000 square-foot footprint to service 2,200 students.

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SCIENCE PARK HIGH SCHOOL

Location: Newark, NJ
Client: New Jersey Schools Construction Corporation
Services: Geotechnical, Site/Civil, Environmental, Landscape
Architecture, Traditional Surveying

OVERVIEW

The high school consists of a 225,700-GSF magnet school facility providing state-of-the-art educational instruction to 1,200 science and technology students. The building features an indoor pool, roof mounted-solar panels, and an HVAC system served by a geothermal well field. Additional site development included a sports fields, plaza/sitting areas, and on-site parking facilities. Langan provided comprehensive land surveying, engineering, and landscape architectural design services for the project.

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DWIGHT-ENGLEWOOD SCHOOL

Location:	Englewood, NJ
Client:	Dwight-Englewood School
Architect:	Gensler
Partner:	Gilbane Building Company, Robert Silman Associates, SCAPE, Levien & Company, ME Engineers (MEP)
Services:	Site/Civil, Geotechnical, Environmental, Surveying/Geospatial, Traffic & Transportation

OVERVIEW

Dwight-Englewood School is a diverse, independent school with 900 students ranging from preschool through 12th grade. Through a collaborative process, Langan and the project team took a unique approach to designing the new STEM facility, teaching garden, and additional improvements to campus parking connectivity. Langan helped to overcome land development issues on a challenging property, which included extensive grade changes, shallow rock, and existing infrastructure on an active campus.

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INTERMEDIATE/HIGH SCHOOL 43

Location: Staten Island, NY
Client: New York City School Construction Authority (NYCSCA)
Architect: Ennead Architects
Services: Site/Civil, Geotechnical, Traffic & Transportation

OVERVIEW

Langan provided full site/civil engineering services and geotechnical review for the IS/HS 43 school in Staten Island. The proposed site improvements include a synthetic football field. Langan worked closely with the client and the design team to create a project that will provide great benefits to the community while minimizing impacts on the surrounding area. Design challenges for this project included the design of an artificial turf football field, (including stormwater drainage), and the use of a Vortechs System for stormwater treatment for the site.

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NYCSCA PS 50Q ADDITION

Location: Jamaica, NY
Client: New York City School Construction Authority (NYCSCA)
Architect: Dattner Architects
Partner: Ysrael A Seinuk, DVL Consulting Engineers, MKW + Associates, VJ Associates, Domingo Gonzalez Design, Design 2147
Services: Geotechnical, Site/Civil

OVERVIEW

Langan provided site/civil and geotechnical engineering services for the five-story addition to PS 50 in Jamaica, Queens. The school serves pre-K through fifth grade and special education students, and the addition added 200 seats to the existing 1,921 seat school. The 53,000-SF addition features new classrooms, a library, a cafeteria and a gymnasium. Langan provided an early works package that included the removal of Temporary Classroom Units (TCU), temporary grading and drainage plans. Site/civil engineering services included the preparation of construction documents (erosion/sediment control, grading & drainage, utilities and construction details) to support the new building addition. Langan's geotechnical engineering services included evaluation of the subsurface conditions, preparation of the geotechnical engineering report, and geotechnical-related specifications. Langan provided engineering consultation to the design team on foundation-related issues and supplied full construction administration services.

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2018 AIA New York State Excelsior Award of Honor for Public Architecture

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THE MORGAN SCHOOL

Location: Clinton, CT
Client: Town of Clinton
Architect: Newman Architects
Services: Site/Civil, Geotechnical, Traffic & Transportation, Landscape
Architecture

OVERVIEW

This project involves the construction of a new 600-student public high school on a previously developed nursery site. The school will be approximately 130,000 SF and feature 300 parking spaces, five athletic fields, and seven tennis courts. The project was subject to floodplain and wetlands permitting. Langan provided multi-disciplined services for the new school, including site/civil, geotechnical, traffic, and landscape architecture.

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WEST JEFFERSON HILLS HIGH SCHOOL

Location: Jefferson Hills, PA
Client: WTW Architects
Services: Natural Resources & Permitting, Environmental

OVERVIEW

West Jefferson Hills School District selected a 161-acre site for the future home of their high school complex. The proposed development will cover approximately 45 acres and include a 269,000-SF school building and district administration offices. Langan conducted natural resource services to aid in the selection of the most appropriate location for the complex within the 61-acre site. Our environmental team conducted a Phase II Environmental Site Assessment (ESA), which included soil sampling at 20 soil boring locations and soil vapor sampling at four locations. Langan subsequently completed a Human Health Risk Assessment (HHRA) to evaluate the risk posed by existing site conditions to potential future site receptors associated with the school, which showed no unacceptable carcinogenic or non-carcinogenic risks to future receptors.

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CREC DISCOVERY ACADEMY

Location: Wethersfield, CT
Architect: Amenta/Emma Architects, P.C., Didona Associates
(Landscape Architect)
Services: Geotechnical

OVERVIEW

The Discovery Academy is a magnet school facilitated with the Capital Region Education Council (CREC). The project included the renovation of a former 50,000-SF Connecticut Light and Power building which served as office and service space. A 10,000-SF gymnasium was added to the west of the existing building. Throughout the remainder of the property, upgrades to the site included new parking areas, rain gardens, and soccer fields. Specific design challenges associated with the site included the presence of shallow bedrock, renovations to the existing building, and partial demolition of the existing basement underneath the building that was to remain.

AWARDS

Connecticut Building Congress (CBC) 2016 Project Team Award - First Place for K-12 Schools
CREW CT Blue Ribbon Award - Best Specialty Project - Adaptive Reuse

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AVENUES: THE WORLD SCHOOL

Location: New York, NY
Client: Savanna
Architect: Morris Adjmi Architects
Services: Land Use Planning, Geotechnical, Site/Civil, Environmental,
Traditional Surveying

OVERVIEW

Langan provided City Environmental Quality Review (CEQR), site/civil, geotechnical, environmental, and survey services for this ten-story, 205,000-SF school located at 259 Tenth Avenue. The building is a national landmark that is adjacent to section two of the High Line elevated park in the Chelsea section of Manhattan. The school is the first in a global network of schools serving students from pre-school through high school with the goal of preparing them for success in an †increasingly worldly society.†

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ABRAHAM JOSHUA HESCHEL LOWER/MIDDLE SCHOOL

Location: New York, NY
Client: Levien & Company
Services: Land Use Planning, Environmental

OVERVIEW

Langan provided multi-disciplinary services for the construction of the 9-story, 150,000-SF, Lower/Middle School on Manhattan's Upper West Side. This LEED-certified school includes an early childhood center, elementary school, and middle school. Langan's CEQR services included the preparation of an Environmental Assessment Statement (EAS) as part of a bulk and height zoning variance request, which was approved by the NYC Board of Standards and Appeals in 2009. The EAS focused on stationary source noise, hazardous materials and shadows impacts.

AWARDS

US Green Building Council, LEED Gold Certified

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KIPP CHARTER SCHOOL

Location: Bronx, NY
Client: The Georgetown Companies
Partner: DeSimone Consulting Engineers
Services: Geotechnical, Site/Civil, Natural Resources & Permitting

OVERVIEW

The 132,500-SF KIPP Charter School is a modern five-story structure with a footprint of approximately 30,000 SF. Langan's geotechnical engineers reviewed available geologic and geotechnical information, completed a subsurface field investigation, and evaluated various engineering issues. Langan's site/civil engineers worked with the project team to develop schematic, design, and final development plans.

AWARDS

US Green Building Council, LEED Certified

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MOTT HAVEN CAMPUS

Location: Bronx, NY
Client: New York City School Construction Authority
Partner: Leslie E. Robertson Associates
Services: Geotechnical, Site/Civil

OVERVIEW

The Mott Haven campus consists of four schools: an intermediate school, two high schools, and a charter school. Langan performed an extensive subsurface investigation and developed foundation recommendations. Langan also worked with LERA to design the wall stabilization for a 541-linear-foot retaining wall flanking the site. The program consisted of jet grout columns, drilled anchor dowels, and drilled tiebacks socketed into bedrock.

AWARDS

2012 American Council of Engineering Companies, Engineering Excellence Award, Special Projects (Silver)
2011 Architect Magazine Annual Design Review: Grow - Honorable Mention

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