

# William Walter, PE, LEED AP

Senior Project Manager / Civil/Site Group Manager

Will Walter leads the Site Development Group of Benesch's Glastonbury office. He is well versed in all aspects of land development and he brings over twenty years of design and project management experience for public and private clients to his work. Key areas of expertise include planning, permitting, site demolition, grading and drainage, utilities, erosion & sediment control, and construction phase services. He is experienced in total site design, which meet criteria and performance standards for numerous local, state, and federal guidelines, including requirements for: local zoning and inland wetlands; state DOT stormwater design; state DEEP stormwater quality and erosion and sediment control; federal NPDES; and LEED requirements.

Will regularly manages complex, multi-disciplined projects, including design and oversight of the entire permitting and design process associated with land development and roadway reconstruction. In addition, he is experienced in the provision of construction inspection and erosion and sediment inspection services, having performed this task on numerous development projects.

## Flood Protection System Projects – Springfield, MA

**Project Manager** for multiple projects related to the City's Flood Protection System (FPS). The projects are being performed as part of Benesch's on-call contract with the City, and specifically to maintain compliance with Army Corp of Engineering (ACOE) FPS requirements. Projects included:

- **Quarterly Inspections** – Visual inspections of the City's FPS, which includes earthen berms/dikes, concrete walls and pump station systems. Reports were prepared in ACOE format with recommendations to keep the system in compliance with the requirements. Action items were prioritized into categories of Immediate Action Required, One-Time Repair, or Maintenance Item.
- **Annual Maintenance Bid Set** – the bid set is prepared on an annual basis, and the specified scope of work results from the quarterly inspections. Scope items included brush clearing, herbicide spray, repair of animal burrows, repair of concrete wall spalling/cracking, turf establishment, mowing and embankment armoring.

## Flood Protection System Projects – West Springfield, MA

**Project Manager** for multiple projects related to the City's Flood Protection System (FPS). The projects are being performed as part of Benesch's on-call contract with the City, and specifically to maintain compliance with Army Corp of Engineering (ACOE) FPS requirements. Projects included:

- **Quarterly Inspections** – Visual inspections of the City's FPS, which includes earthen berms/dikes, concrete walls, stop log structures, relief wells and pump station systems. Reports were prepared in ACOE format with recommendations to keep the system in compliance with the requirements. Action items were prioritized into categories of Immediate Action Required, One-Time Repair, or Maintenance Item.
- **Annual Maintenance Bid Set** – the bid set is prepared on an annual basis, and the specified scope of work results from the quarterly inspections. Scope items included brush clearing, herbicide spray, repair of animal burrows and tree removal.
- **CCTV Inspections** – the project included the cctv inspection of all piping associated with the FPS system penetrations. The pipes were analyzed to determine structural integrity and functionality and the report included recommendations for all required repairs. The pipe locations were surveyed and provided to the City so they could incorporate the locations into their GPS tracking system.
- **Concrete Wall Repair Bid Set** – a bid set was prepared which identified areas of spalling and cracking, along with specifications for repair methods. The bid set also included the replacement of stop log bolts that had either been removed or sheared and were no

### Education

Bachelor of Science - Civil  
Engineering Worcester  
Polytechnic Institute

**Years of Experience:** 22

### Registrations and Certifications

Professional Engineer:  
Connecticut #23146 ; New  
York #103092; Massachusetts  
#54033; Rhode Island #12234

LEED® Accredited Professional

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Salisbury, CT

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longer functional in their ability to secure the stop log structures.

- **Relief Well Inspection and Monitoring** – the FPS system includes 181 relief wells which are on a rotating inspection schedule of every five (5) years. The wells are monitored for functionality by performing visual inspections, pumping (to determine) specific capacity loss, and depth of sediment fill. Wells that are not functioning properly are identified and subsequent repair methodologies have been specified and implemented.

## East Hartford On-Call Contract for Surveying and Civil Engineering

**Project Manager** for the currently on-going on-call contract, which includes oversight of the management and design of assignments, coordination with the City's project manager, and adherence to City standards and requirements. Recent projects include the Route 5/502 Intermodal Facilities Improvements and the Pitkin Street Survey.

## Route 5/502 Intermodal Connectivity Project – East Hartford, CT

**Project Manager:** This new sidewalk connection and improvement system runs along Route 5/502 from north of the I-84 elevated highway to Willow Street Extension. The project included survey, site/civil, traffic engineering and environmental documentation and was performed with CT DOT CCGP funding. Upgrades to the existing sidewalk network were designed to meet ADA requirements. Several key pedestrian crossings were designed, including traffic signal modifications placed for improved pedestrian safety.

## Central Street Corridor Improvements – Springfield, MA

**Project Manager:** This gateway roadway reconstruction and realignment project located in an urban neighborhood is approximately ¾ mile long. The project includes two signalized and eight stop-controlled intersections. Will took over as Project Manager before Bid Documents were released and worked closely with City DPW staff to perform a full QA/QC on the project, which resulted in revisions to micrograding, utility scheduling, coordination with adjacent City projects and updated specifications and cost estimates. The project is currently under construction and Will is providing management of the construction phase services.

## Recreational Campground Resort Feasibility Study – Preston, CT

**Project Manager:** This project consisted of the conceptual design and cost estimating of off-site utility improvements required to service a RV campground in Preston, CT. The site concept consists of 300-RV spaces and 50 permanent cottages, including all required site amenities, on a 65-acre site. The project included correspondence and coordination with the utility providers (including water and natural gas) to determine if the existing infrastructure could accommodate the project demands, including the location, size and capacity of their existing infrastructure, and conceptual routing, upgrades, and connection locations to the site. A detailed cost estimate of the off-site upgrades was performed as part of the project.

## Sycamore Commons – Glastonbury, CT

**Project Manager** for the development of a 19,000-square foot mixed use development in Glastonbury, CT. The project was permitted through the Conservation Commission and the Planning and Zoning Commission and is situated in the Town Center Zone. Site amenities include a parking lot, ADA spaces/ramps, stormwater and utility, restaurant patios, streetscape and landscaping.

## East Lyme Public Safety Building – East Lyme, CT

**Project Manager:** Prepared conceptual and schematic documentation and coordinated with interdisciplinary design team on the renovation of a new building and site to house the East Lyme Public Safety Offices and police impound. The planning phase included coordination with town staff and stakeholders, as well conceptual cost estimating and value engineering.

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After the planning phase, Benesch prepared construction documents, suitable for bidding and construction. Responsibilities include site layout and reconfiguration to meet the town's unique public safety needs, site drainage, lighting, design and detailing of plaza and outdoor gathering spaces, site entrance design and coordination with other disciplines.

## The Haven Waterfront Development – West Haven, CT

**Project Engineer** for this up-scale retail development that includes 65 stores and six (6) restaurants in the first phase. Phase 1 involves the redevelopment of existing waterfront industrial and commercial property along Long Island Sound into 215,000 SF of retail space. Will assisted with site design services, including utilities, grading, and layout.

## Wickham Library Addition – East Hartford, CT

**Project Manager:** Project includes a small building addition, for an elevator, to the existing East Hartford Public Library and includes main entrance revisions and a new parking lot, including sidewalks, stairs, and landscaping amenities. Utilities include new light poles/ fixtures, natural gas and water. Local stormwater requirements for peak flow detention and water quality treatment were met with LID features, including parking lot leakoffs, grassed swales and a rain garden.

## Stonington Free Library – Stonington, CT

**Project Manager:** The project involved a building addition and interior renovation. The addition created a disturbance to the site drainage system, as well as facilitated a need to capture and treat new peak flow associated with the addition. Will coordinated with the architect's plumbing engineers to route roof discharge around a tight site with landscaping and other utilities. The exterior drainage system was retrofitted with a new dry well to ensure infiltration and peak flow detention, in accordance with local regulations.

## Cedar Pointe – Newington, CT

**Project Manager:** Project included the design of affordable housing consisting of three 36-unit buildings on a previously developed site in Newington, CT. The site program consisted of site circulation/parking, town green, walking paths and a community center with a playground. The site presented unique challenges including wetlands, contaminated soils, sanitary pump station requirements and slope difficulties. Permitting included Wetlands, Special Permit/Site Plan Approval, ConnDOT Encroachment, OSTA, MDC and DEEP General Stormwater Permitting. (for use on utility projects: In addition to total site design, the project consisted of 630 LF of gravity sanitary main, 650 LF of sanitary cover main, a sanitary pump station and over 200 LF of sanitary main extension in the ROW. The project also included over 900 LF of natural gas piping.)

## Oak Tree Village – Griswold, CT

**Project Manager:** Project included the design of affordable housing consisting of four 36-unit buildings on a previously developed site in Griswold, CT. The site program consisted of site circulation/parking, town green, walking paths, and a community center with a playground. The site presented unique challenges including wetlands, a public water main extension, and a public sidewalk extension. Permitting included Wetlands, Special Permit/Site Plan Approval, ConnDOT Encroachment, OSTA and DEEP General Stormwater Permitting. (for use on utility projects: In addition to total site design, the project consisted of the design of 1,400 LF of on-site sanitary main, 1,500 LF of gas piping, as well as a 1/4 mile extension of water and natural gas main in the ROW.)

## Brookside Terrace – East Greenwich, CT

**Project Manager:** Project included the design of affordable housing consisting of four 24-

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unit buildings on a 20-acre site in East Greenwich, RI. The site program consisted of site circulation/parking, town green, walking paths, and a community center with a playground. The site presented unique challenges including wetlands, a sanitary pump station, and slope challenges. Permitting included Rhode Island Department of Environmental Management (RIDEM) Wetlands, RIDEM General Stormwater Permit, East Greenwich Special Permit/Site Plan Approval, RIDOT Physical Alteration Permit, East Greenwich Sewer Authority, and Kent County Water Authority. (for use on utility projects: In addition to total site design, the project also consisted of the design of 2,060 LF of water pipe 1,00 LF of natural gas pipe and a sanitary sewer pump station.)

## Limric Lane Subdivision– Suffield, CT

**Project Manager** for the design and permitting of a 16-lot subdivision in Suffield, CT. Complex stormwater management design was incorporated into the project to comply with local and state water quality treatment and peak flow detention requirements and to ensure adjacent wetlands would continue to be replenished via surface runoff. Designed per zoning FRD regulations, the layout facilitated the maximization of preserved open space and underwent a rigorous permitting process through the Inland Wetlands and Planning & Zoning Commissions.

## 2019 Capital Roadway Design – New Milford, CT

**Program Manager** for the redesign of three (3) roads, Second Hill Road (1.5 miles), Pickett District Road (1.9 miles) and Erickson Road (1.0 miles). Benesch prepared bid documents for the reconstruction of the roads, which included a mix of mill/overlay, in-place reclamation and full-depth reconstruction. The reconstructions involved horizontal/vertical realignment, drainage upgrades and signage upgrade/replacement. Benesch worked closely with the Town Roadway Committee and Staff to facilitate a demanding design, public involvement, and permitting schedule, as well as to provide roadway life-expectancy designs that fit within the town's construction budget. Benesch will be assisting the town with inspection and construction phase services.

## Hartford Avenue Improvements – Old Lyme, CT

**Lead Designer** for improvements within the ROW at Hartford Avenue in Old Lyme, CT. The project involved sidewalk beautification, parking improvements and stormwater upgrades for a ½-mile stretch of Hartford Avenue at a popular public beach in Old Lyme, CT. The goal of the project was to improve pedestrian and bicycle efficiency, safety and desirability by increasing and beautifying pedestrian pathways, providing a dedicated bicycle lane, and better defining parking and vehicular movements.

## Oxoboxo Lofts – Montville, CT

**Project Manager** for the renovation of an existing Civil War-era mill into 76 condominiums. The project included a complete site renovation of site parking/circulation, grading, drainage, utilities transportation and landscaping, as well as the design of an upstream dam demolition and restoration. Permitting included local Zoning Board of Appeals, Inland Wetlands, Planning & Zoning, Flood Management Certification, Dam Construction, Army Corps of Engineers, and CT 401 Water Quality. Site design and permitting presented challenges due to the Oxoboxo Brook, which runs under the building and an insufficient upstream dam located upstream of the site.

## Columbus Commons – New Britain, CT

**Project Manager** for the site design of two (2) five-story mixed-use buildings in downtown New Britain. The buildings each include commercial space and 70 units. Site design included parking/circulation, grading, drainage, utilities, transportation landscaping and erosion

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control on a very tight, urban site of approximately 2.5 acres.

## Hamlet Homes – Suffield, CT

**Project Manager** for the residential site development of a 32-acre parcel, including roads and parking areas, apartments (8 buildings of 12 units each), condominiums (70 units), grading, drainage, utilities, landscaping and erosion control, as well as the design of a half-mile replacement of public water facilities. Permitting included local Inland Wetlands and Planning & Zoning, as well as intensive coordination with the water company and the town water pollution control authority.

## Woodland Cove – Wareham, MA

**Project Manager** for the integrated design and permitting of 174 units of residential housing in five (5) buildings, with an affordable component. Design included grading/drainage, water quality treatment, utilities, erosion control, and site circulation/parking and was coordinated with an ongoing MassDOT project on the adjacent road. Permitting included Chapter 40B through the Zoning Board of Appeals and MassDOT Access Permit, as well as the MEPA process.

## Depot Village – Hanson, MA

**Project Manager** for the integrated design and permitting of 88 units of residential housing in one (1) building, with an affordable component. Design included grading/drainage, water quality treatment, utilities, erosion control, and site circulation/parking and a connection to a nearby MBTA station. Permitting included wetlands permitting and Chapter 40B through the Zoning Board of Appeals.

## King's Meadow – Suffield, CT

**Project Manager** for the integrated design and permitting of a mixed-use development, including 58 residential units, a community center, and a winery, overlooking the Connecticut River. A large portion of the site, previously used as agricultural, will serve as a vineyard for the winery. Design included traffic, site/roadway layout, grading & drainage, and utilities. Site amenities included outdoor patios and gathering areas, a stone dust path through and around the vineyard, and access to the Connecticut River. Permitting included a zone change, wetlands permitting and Special Permit/Site Plan Approval.

## Rand Whitney Paper Company – Pawtucket, RI

**Project Manager** for design, permitting, and construction oversight of a 60,000 square-foot addition to the existing manufacturing facility. Design included grading/drainage, water quality treatment, utilities, erosion control, and site circulation/parking. Permitting included a variance through the Board of Appeals, Site Plan Approval through the Zoning Commission, and Stormwater Construction General Permit through the Rhode Island Department of Environmental Management. Construction phase services were performed throughout construction until the project's completion to ensure adherence with the plans and specifications.

## Rand Whitney Paper Company – Newtown, CT

**Project Manager** for the design and permitting of an expansion of the existing 100,000 square-foot manufacturing building to approximately 300,000 square feet, including associated site features. The site design included overcoming significant grading and drainage challenges, lighting, site circulation and parking, utilities and erosion control. The drainage improvements included on-site detention and water quality treatment. The site

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design also included renovation of approximately 300 linear feet of the adjacent roadway. The permits included an inland wetland permit through the Inland Wetlands & Watercourses Commission, a site plan approval through the Planning & Zoning Commission and an administrative decision through the Office of the State Traffic Authority (OSTA).

## Home Depot – North Conway, NH

**Civil Engineer** for design of site drainage to meet Home Depot, the Town of North Conway, and the State of New Hampshire Department of Environmental Services criteria. The design included stormwater inlet and transmission facilities, several underground infiltration facilities, several water quality facilities, and value engineering to provide the client with the most cost-effective solutions.

## Wesleyan University Steam and Hot Water Distribution – Middletown, CT

**Project Manager** for the design of replacement of three (3) aged steam and hot water distribution systems. The systems included 1,900 linear feet of steam piping and 740 linear feet of hot water piping, all of which traversed a variety of locations, including campus areas, public streets, driveways and residential yards. Working with the mechanical engineer and the University, Will led the effort to define optimal routing and tie-in for each of the projects, then prepared plans and specifications for erosion and sedimentation control, maintenance and protection of traffic, earthwork, grading, sidewalk replacement, roadway repair, and general restoration.

## UConn - Downtown Hartford Campus – Hartford, CT

**Project Manager** for the design of a new facility to house the University of Connecticut's Downtown Hartford Campus. Design included the renovation of the historic Hartford Times building. The new facility is located in Hartford's Front Street District and is comprised of 169,000 square feet that will house approximately 2,300 students and 250 faculty members. Engineering services included full utility design of domestic water, fire protection, stormwater, natural gas, electric, telecommunications, steam and chilled water. Designs also addressed stormwater quality and quantity requirements of the applicable state agencies.

## Arch Street Redevelopment – Hartford, CT

**Project Manager** for the third, and final, phase of the Front Street District redevelopment, which is the final piece of the Adriaen's Landing project in downtown Hartford, CT. The development includes a five- (5) story mixed-use retail/apartment complex, including sidewalks and streetscape. Worked with the developer, the State Office of Policy and Management (OPM), and the program architect, to provide integrated civil engineering, design, landscape architecture, and survey services for this one-acre, mixed-use development.

## Front Street Lofts – Hartford, CT

**Project Manager** for Phase 2 of the Front Street redevelopment, including drainage and utilities for the Front Street District, which is the final piece of the Adriaen's Landing project in downtown Hartford, CT. The development includes a five-story mixed-use retail/apartment complex and vertical realignment of Front Street, including sidewalks and streetscape. Worked with the developer, the State Office of Policy and Management (OPM), and the program architect to provide integrated civil engineering, design, landscape architecture, and survey services for this seven-acre, mixed-use development.

## Front Street District Redevelopment – Hartford, CT

**Civil Engineer** for drainage and utilities for the Front Street District, which is the final phase of the Adriaen's Landing project in downtown Hartford, CT. The development includes

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approximately 63,000 sf retail/entertainment space, a 325-space parking garage, and 70-spaces of surface parking. Worked with the developer, the State Office of Policy and Management (OPM), and the program architect to provide integrated civil engineering, design, landscape architecture, and survey services for this seven-acre, mixed-use development.

## Bus Shelter Design, Greater Bridgeport Transit – Bridgeport CT

**Project Manager** for Greater Bridgeport Transit (GBT)'s plan to place up to 90 bus shelters at existing bus stops on their routes in the greater Bridgeport area. The project included analysis of each location for sight lines, sidewalk circulation, pedestrian accessibility and potential right-of-way issues and utility conflicts. Coordinated with the City Engineering office and utility providers to ensure any concerns were met and prepared construction-level plans for each site.

## Plymouth Fire Station – Plymouth, CT

**Project Manager** for the renovation/addition to the existing fire house in Plymouth, CT. Site design included site circulation/parking, grading, drainage, utilities, landscaping and erosion control. The design included interior vehicle washing, which required a DEEP Vehicle Maintenance Wastewater permit.

## Department of Public Works Facility – Canton, CT

**Project Manager** for the design of a new DPW facility in Canton, CT. Site design included site circulation/parking, grading, drainage, utilities, landscaping and erosion control. The site, located adjacent to the Farmington River in a FEMA flood hazard area, was designed per local flood ordinance regulations and other town requirements. The design also included a new curb cut onto a state route, requiring a CTDOT encroachment permit.

## Canton DPW Feasibility Study, 325 Commerce Drive – Canton, CT

**Project Manager** for a feasibility study of a DPW facility at 325 Commerce Drive. The study included schematic-level site layout, grading, landscaping and utilities. The site was configured to accommodate all necessary DPW functions and zoning requirements, including parking, truck turning, vehicle fueling and materials storage. A grading analysis was performed to balance earth-moving, since the site presented topographical challenges. An associated schematic-level cost estimate was also prepared.

## Brewer Street Firehouse, Fire Station No. 5 – East Hartford, CT

**Civil Engineer**, providing integrated design services for the design of a new fire station and maintenance facility. The project encompassed comprehensive planning, design, and permitting services for the new Fire Station No. 5. The 16,000 square-foot station houses a fire company, as well as fire/rescue equipment maintenance facilities. Planning services included the preparation of base survey plans for the site, wetland delineation, evaluation of various options for site layout, stormwater management, and traffic control technology. Design services included stormwater management facilities, site utilities, exterior facilities, landscaping for buffering and site enhancement, and designs of emergency traffic control systems. The project also included LEED coordination for certification of the project for site elements, local permitting, CTDOT permitting, and construction phase services.

## Route 156 Sound View Bike Path – Old Lyme, CT

**Civil Engineer** for planning and design services for improvements to the Sound View Beach area and the design of associated bicycle accommodations linking to other shoreline areas. Completed an assessment of existing facilities, creation of a master plan for new facilities, and the preparation of conceptual designs. Designs are underway for a shore line bicycle route—from the South View Beach area to the vicinity of Interstate 95— a route of

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approximately 4.5 miles on town and state roads.

## Connecticut Riverway Trail – Old Lyme, CT

**Civil Engineer:** Provided planning services for the proposed Connecticut Riverway Trail system within the Town of Old Lyme's shoreline area, where the Connecticut River meets Long Island Sound. The project is comprised of planning for a four-segment trail system that capitalizes on the attributes of the project area. The trail system will traverse approximately four miles of area and is planned as a combination Greenway-Blueway.

## Town of Bolton Greenway Extension – Bolton, CT

**Civil Engineer** for the Town of Bolton's Greenway Extension project along Route 44. This project includes a feasibility study and preliminary design of a 1.85 mile extension of the Greenway along the Route 44 corridor from the west side of Quarry Road to the Coventry town line. The project also includes a spur trail to the Town's Indian Notch Park. The project team conducted area mapping, corridor assessments, layout analysis, conceptual layout/design, CTDOT coordination, and presentations.

## Suffield Volunteer Ambulance Association – Suffield, CT

**Civil Engineer** for total site design of 9,000-sf facility, including parking layout, grading and drainage, utilities, and erosion and sediment control. Water quality swales and existing wetlands were utilized to meet state water quality and local drainage requirements, as well as successfully steering the project through the Conservation Commission and Planning & Zoning process.

## Nathan Hale-Ray Middle School Conversion – East Haddam, CT

**Project Manager** for the integrated design and permitting of the conversion of a historic school to town offices, from conception through construction closeout. The project included integrated design of the site, including site layout, site circulation, grading and drainage, landscape design, and utilities and erosion control. Permitting included a Special Permit through the Planning & Zoning Commission.

## CT Department of Public Works – Huyshope Avenue – Hartford, CT

**Civil Engineer** for integrated design services for the design of new parking facilities under an on-call contract with Connecticut Department of Public Works. Provided survey, demolition engineering, civil engineering, traffic/parking consulting, and landscape architecture services. The design included sustainable design elements, such as, on-call recycling/reuse of demolition materials, stormwater infiltration swales, and a lighting system to minimize light pollution.

## Utility Infrastructure Study – Canton, CT

**Project Manager** for an analysis and comparison of existing and proposed development potential of properties adjacent to utility (water, sanitary and natural gas) gaps in the Route 44 portion of Canton, CT. The purpose of the study was to: 1) determine whether the gaps in utility service along Route 44 were limiting development potential of the abutting properties; 2) determine the approximate cost associated with installation of new utilities to fill gaps in the service; 3) determine maximum development potential and growth, as a result of the utility expansion; and 4) provide a summary of results and a recommendation to the Town based on existing and anticipated growth compared to up-front construction costs borne by the Town. The study analyzed over 100 properties and the utility gap location determined an approximate construction cost of \$7,000,000 with a rate of return of approximately five (5) years.



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## **New Fairfield Schools Parking Lot Analysis – New Fairfield, CT**

**Project Manager** for the parking lot design of the High School/Middle School and Consolidated School. The project includes an analysis of the existing bus and parent drop scenarios at both schools, as well as conceptual design solutions to improve safety and efficiency of the parking areas. The project included working collaboratively with stakeholders (principals, the superintendent, the Board of Education and the Board of Finance), local permitting, construction-level design, and cost estimating.

## **New Fairfield Schools Existing Conditions – New Fairfield, CT**

**Project Manager:** The project consisted of a facility assessment of the High School/Middle School and the Consolidated School, both in New Fairfield, CT. The assessment accompanied a full building assessment for both facilities as a precursor to potential renovate-as-new projects. The site evaluation included assessment of the following items: Roadway and Lot Paving Systems, Sidewalks and ADA Accessibility, Sight Distance and Circulation, Landscaping, Drainage Systems, Utilities, Septic System, Well Systems and Playground.

## **Ox Ridge Elementary School – Darien, CT**

**Project Manager** for civil design services in support of a brand new K-6 school and site on a 9-acre parcel, which was phased and constructed while the existing school remained in operation. Will oversaw efforts which included stormwater management, utilities, and erosion control. Permitting involved wetlands, site plan approval, DEEP stormwater and OSCGR.

## **New England Baptist College, Phase 1 – Southington, CT**

**Civil Engineer** for land planning and site design services for the New England Baptist College in Southington, CT. An ambitious 10-year master plan was laid out for the site, including development of a full-scale bible college with ten buildings and a central campus, in addition to the existing church and K-6 church school. Phase 1 comprised development of a comprehensive-services building to offer space for dormitory rooms, classrooms, and a cafeteria. Phase 1 included design and permitting, through CT DPH, of a 4,900 gpd septic system.

## **Nonnewaug High School – Woodbury, CT**

**Project Manager** for integrated site design services in support of a renovation/expansion project comprised of an expansion and renovation of the existing high school. The design included grading and drainage, utilities and erosion control on a 46 acres site. The project also includes an analysis of the existing water wells and septic system, as well as coordination with the local health department, CT DPH and CT DEEP. Permitting includes local permitting through the Town of Woodbury and the State of Connecticut Department of Education's Office of School Construction Grants (SGC).

## **East Hampton High School – East Hampton, CT**

**Project Manager** for integrated site design services in support of a renovation/expansion project comprised of an expansion and renovation of the existing high school. The design included grading and drainage, utilities and erosion control on a 46-acre site. The project also includes an analysis of the existing water wells, as well as coordination with the local health department, CT DPH and CT DEEP. Permitting includes local permitting through the Town of East Hampton and the State of Connecticut Department of Education's Office of School Construction Grants (SGC).

## **Town of Ledyard Middle School – Ledyard, CT**

**Project Manager** for integrated site design services in support of a renovation/expansion

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project comprised of an expansion and renovation of the 75,000 square-foot renovation to 93,000 square feet. Site design includes parking and circulation, grading and drainage, utilities, landscaping, demolition and erosion control on a 36-acre site. The project also includes an analysis of the existing septic system as well as coordination with the local health department, CT DPH and CT DEEP. Permitting includes local permitting through the Town of Ledyard and the State of Connecticut Department of Education's Office of Schools Facilities (OSF).

## Town of Ledyard Gallup Hill School – Ledyard, CT

**Project Manager** for integrated site design services in support of a renovation/expansion project comprised of an expansion and renovation of the 40,000 square-foot renovation to 86,000 square feet. Site design includes parking and circulation, grading and drainage, utilities, playgrounds, landscaping, demolition, and erosion control. Permitting includes local permitting through the Town of Ledyard and the State of Connecticut Department of Education's Office of Schools Facilities (OSF).

## Town of Ellington Crystal Lake School – Ellington, CT

**Project Manager/Lead Civil Engineer** for integrated site design services in support of a renovation/expansion project comprised of a 30,000 square-foot renovation and a 20,000 square-foot addition. Designed extensive improvements to the 16-acre site, including revised grading, new access drives, parking and bus loading/unloading areas, two (2) new athletic fields, two (2) new playgrounds, a walking path, and two (2) wetlands crossings. The team was responsible for stormwater management, traffic/parking, landscape improvements, design of the new athletic and playground facilities, design of the walking path, and site permitting through the Town of Ellington and the State of Connecticut Department of Education's Bureau of Schools Facilities (BSF).

## Waterbury Career Academy – Waterbury, CT

**Civil Engineer** for the development of a new high school. Provided design of site storm drainage, sanitary sewers, domestic/fire protection water services, gas utilities, sedimentation, and erosion control measures, and the related site utility permitting support, in addition to ensuring the project met site and utility related Connecticut High Performance Standards.

## Charles H. Barrows STEM Academy – Windham, CT

**Project Manager** for survey, civil and traffic engineering, and landscape architecture for the design and permitting of a new, 600-student magnet school, serving grades pre-K through 8. The team worked with the project architect to design all site aspects related to the new school facility. Key project elements included: site layout planning, a comprehensive traffic study to assess the effects of the new facility on local vehicular movements, the design of new utilities, drop-off and parking facilities, playgrounds, athletic fields, and stormwater management systems. The design also incorporates significant LID components, and is targeted for LEED certification. (for use on utility projects: In addition to complete site design, the project included permitting and design of a 3/4 mile extension of the public water main.)

## M.D. Fox CommPACT School – Hartford, CT

**Project Manager** for survey, civil engineering and landscape architecture for a comprehensive renovation of this historic 1920s school facility. Worked with the project architect, to support the renovations by providing site layout planning, the design of new utilities, stormwater management systems, student drop-off and teacher/visitor parking facilities, and a playground.

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## Waterbury Enlightenment School – Waterbury, CT

**Project Manager:** Managed site-related portions of the redevelopment of an existing school in downtown Waterbury. The project included several construction phases and complex utility, grading, and drainage solutions in a tight, urban environment..

## Gilmartin Elementary School – Waterbury, CT

**Civil Engineer** for the development of a new K-8 school. Provided design of site storm drainage, sanitary sewers, domestic/fire protection water services, gas utilities, sedimentation, and erosion control measures, and the related site utility permitting support.

## Samuel Webb Elementary School Additions – Wethersfield, CT

**Civil Engineer** responsible for providing land development services for the State of Connecticut Department of Education Project located at the Samuel B. Webb Elementary School in Wethersfield, CT. The program consisted of renovating the facility and site from its existing use by the Town Board of Education to a proposed use as a K-6 elementary school.

## Bethel High School Renovations – Bethel, CT

**Civil Engineer** responsible for providing site design for a 30,000-square-foot addition to Bethel High School, including supporting utilities, additional/revised parking, and stormwater management, as well as local and state permitting. Like many municipal programs, funding was limited, so the charge from the Town and the architect was to produce a creative stormwater design that would serve as an inexpensive alternative to costly underground detention.

## Imlay Street Residences – Hartford, CT

**Project Manager** for design of improvements to approximately 20,000 square feet of residential space in Hartford's historic Asylum Hill neighborhood. Coordinated with the architect to provide a variety of services, including design of new parking, walkways, lighting, landscaping, landscape screening and fencing. The project received a Hartford Preservation Alliance Award.

## Stonybrook Gardens – Stratford, CT

**Project Manager** for design of drainage improvements for a 1940's-era housing development that had been experiencing severe flooding during storm events. Will led a comprehensive existing conditions assessment that culminated with the design and construction of a stormwater detention system. Initial project plans were used to secure funding for construction of roadways, parking areas, and stormwater systems.

## Pike International Housing Sites – New Haven, CT

**Project Manager** for design improvements to numerous housing sites in the Yale University area of New Haven. Project elements included designing the site to meet ADA requirements, utility and stormwater design, and permitting. Coordination with the City's planning staff and City Commission was a key project component.

## Stratford Bikeway/Greenway Extension Project – Stratford, CT

**Civil Engineer** for the design and extension of 2.5 miles of riverfront Bikeway into the Stratford Town Center. A unifying theme was developed along the route to provide a setting that promotes bicycle and pedestrian traffic while providing opportunities for active and passive recreation for Town residents. The layout of appropriate pedestrian and bike lanes, both on-street and off-street, were considered for various parts of the route. Plans to provide linkages to the shoreline of the Housatonic River were also incorporated into the design

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wherever possible.

## Quinebaug Valley Community College - Campus Pavement Upgrades – Danielson, CT

**Project Manager:** Project included design services in support of parking lot renovations for approximately 3.5 acres of the campus parking. Mr. Walter oversaw a comprehensive evaluation of the existing pavement and base material to determine what material was available for reuse. The design included a combination of pavement removal and replacement, in-place reclamation and full depth replacement. Mr. Walter provided management, site, drainage design and construction phase services.

## Quinebaug Valley Community College - Department of Construction Services – Danielson, CT

**Civil Engineer** for design services in support of a new Advanced Manufacturing Technology Center at Quinebaug Valley Community College. Provided site design services, including new utility systems, parking areas, sidewalks and plazas and stormwater management systems. The project utilizes high-performance design measures and is targeted for certification under the US Green Building Council's Leadership in Energy & Environmental Design.

## UConn – FEMA LOMR – Storrs, CT

**Project Manager** for preparation of a Letter of Map Revision application to FEMA. Current FEMA mapping showed Eagleville Brook running through the campus, when in reality it was placed through a ¾-mile long culvert in the 1960s. The project's purpose was to perform a hydrologic and hydraulic analysis of the culvert to determine if the 100-year base flood could be accommodated by the existing culvert, and if not, the new floodplain limits.

## UConn – Jim Calhoun Way Roadway Reconstruction – Storrs, CT

**Project Manager** for the visioning and streetscape design of the roadway located at the heart of the University of Storrs campus. The roadway connects the three, major, athletic venues—Gampel Pavilion, the Burton Family Football Complex and Mark Shenkman Training Center, and the Werth Family UConn Basketball Champions Center. The project scope included survey, existing conditions assessment/analysis, civil engineering and landscape architecture. The drainage design included a series of interconnected tree planters, rain gardens and bioswales, designed to treat and reduce stormwater runoff.

## UConn - Lodewick Visitor's Center and Parking Lot 9 – Storrs, CT

**Project Manager** for redesign of Lot 9, which included a new entrance plaza to the UConn Visitor's Center, vertical realignment of King Street, a bus pull-off, and a new parking area. The design also incorporated rain gardens, vehicle and pedestrian circulation, and kiosk parking. Mr. Walter provided management, site, utility and drainage design.

## UConn – Connecticut Commons – Storrs, CT

**Project Manager** for the comprehensive redesign of the Connecticut Commons residential hall's courtyard area. The project included a comprehensive facility assessment, programming and redesign of stormwater facilities, pedestrian circulation/outdoor spaces, vehicle access/emergency management, landscape plantings, and lighting improvements.

## UConn - Northwoods Roadway Reconstruction – Storrs, CT

**Project Manager:** Project included reconstruction design of 740 linear feet of roadway and associated parking. The project included design of pervious pavement which was hydraulically connected to rain gardens, thereby meeting the University's requirement of

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reduction of the total sediment load to the local watershed. Provided management, roadway, drainage and construction phase services.

## UConn - Basketball Complex – Storrs, CT

**Project Manager** for the site design associated with the 75,000 square-foot men's and women's basketball practice facility on the University's Storrs Campus. Site design involved utility planning, utility design, grading and drainage, demolition, erosion control, surveying, and permitting through CT DEEP. The project achieved LEED Silver status.

## University of Connecticut Burton Family Football Complex – Storrs, CT

**Civil Engineer** for grading, drainage, and utility design associated with the construction of the new, indoor, football, practice facility on the UConn Storrs campus. The project involved a full range of survey services, including topographic survey, photogrammetry, and construction stakeout. Provided site, drainage and utility design.

## UConn - Campus-Wide Bike Path – Storrs, CT

**Civil Engineer** for the design of a comprehensive plan for campus-wide bicycle routes on the University's main campus in Storrs. Prepared the planning documents and design materials required to construct a bikeway that will traverse approximately 28,000 linear feet of campus roads and adjacent state roads.

## UConn - Glenbrook Road – Storrs, CT

**Project Manager** for comprehensive upgrades to a key road which bisects the central portion of the Storrs campus with numerous connection points to academic buildings and cross-campus pedestrian routes, and primary access to the central utility plant and infirmary. Will played a key role in creating a new vision for the roadway corridor, transforming it from a utilitarian vehicle-oriented facility to a pedestrian and bicycle-oriented facility that complimented the campus environment. Comprised of a comprehensive design program, the project included assessment/analysis, visioning/planning, detailed design, and the preparation of construction documents.

## UConn - ADA Upgrades – Storrs, CT

**Project Manager:** Project included the survey/evaluation and associated redesign of 18 areas on campus that were not ADA accessible. The purpose of the project was to bring these areas into compliance with ADA requirements. Strategies included regrading of pavement, new/reconstructed handicap ramps, railings, signage, striping and new sidewalk connections. Provided management and peer review.

## Yale University - Dunham Laboratory Drainage Upgrades – New Haven, CT

**Project Manager:** Benesch provided civil engineering services for the preparation of design plans, addressing drainage deficiencies associated with areaways adjacent Dunham Lab. Services included review of City regulations, drainage computations, and bid set preparation of drainage improvements. Benesch performed construction phase services to ensure the improvements were constructed per the plans and specifications. Services were provided in association with TLB Architecture.

## Yale University - Repertory Theatre Survey and Engineering Services – New Haven, CT

**Project Manager:** Benesch provided survey services for areas adjacent to the Repertory Theatre in downtown New Haven. Scope of work included survey of finish floors, walkways, stairways, courtyards and adjacent roadways/sidewalks to provide existing conditions mapping sufficient for design of ADA upgrades. Additionally, Benesch performed drainage design to address deficiencies in areas adjacent the theatre. Services were provided in

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association with TLB Architecture.

## **Parking Lot Reconstruction – Trumbull, CT**

**Project Manager** for the reconstruction of a parking lot and associated site amenities for a Cooperative Education Service's special needs school in Trumbull, CT. Provided design and construction oversight of a 240-space parking lot that was required to be constructed within a 2-week period so as not to conflict with school operations. Will worked with the Owner and contractor to design in-place reclamation, allowing the project to be completed within the required time frame.

## **Greater Hartford Church of Christ – New Britain, CT**

**Civil Engineer** for total site design, including parking layout, grading and drainage, utilities, and erosion and sediment control. Will was successful at value engineering to meet the client's budget, while also meeting Town design requirements.

## **Town of Brookfield Senior Center – Brookfield, CT**

**Civil Engineer** for the redevelopment of a 6,400 square-foot senior center at the Town of Brookfield municipal complex. Provided integrated engineering, landscape architecture, permitting, and LEED design services. The project addressed zoning, engineering, LEED, and permitting requirements, such as parking capacity, ADA accessibility, stormwater peak flow, stormwater quality treatment, and erosion control. The design also included an existing septic system analysis to ensure that the increased capacity fell within the State Department of Public Health requirements.

## **Northeast Utilities Interstate Reliability Project: SWPCP Plan Implementation Inspections – Various Towns, CT**

**Independent Qualified Professional Engineer** responsible for inspecting the sites (transmission line path and three (3) sub-stations) at least once within the first 90 days of the commencement of construction activity to confirm compliance with the measures designated in the Stormwater Pollution Control Plan. The inspection(s) were required as part of the Connecticut Department of Energy & Environmental Protection (CT DEEP) General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

## **LP Wilson Community Center Fields – Windsor, CT**

**Project Manager** for the design of approximately 11 acres of natural grass field renovation. The existing fields at LP Wilson Community Center were removed due to water issues and poor playability. The project redesign incorporated soil renovation, grading, drainage and groundwater-lowering measures to successfully provide soccer, field hockey and baseball/softball fields for the community.

## **O'Brien Stadium/Windsor High School Athletic Facility – Windsor, CT**

**Civil Engineer** for design and construction oversight of renovations to the athletic facility at the O'Brien Stadium Field. The fully renovated facility includes a new competitive running track, track and field events, an all-weather, multi-purpose, synthetic-turf field, a natural grass practice football field, a press box, home and away bleachers, a multi-sport scoreboard, walkways, fencing, and miscellaneous improvements to the site. Worked through programming with the Athletic Director and Town stakeholders, local permitting, and a series of Town meetings ultimately gaining approval of the project funding at a Town-wide vote.

## **Crosby High School Athletic Facility – Waterbury, CT**

**Civil Engineer** for the assessment and renovation of the Crosby High School athletic

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facilities. The scope included assessing and documenting the current condition of the existing athletic facilities and physical characteristics of the land upon which the facilities are located. Provided expertise in the design of playing areas that optimize space, provide quality playing conditions, and consider long-term maintenance and operating costs.

## **Bowen Field at Beaver Pond Park – New Haven, CT**

**Project Manager** for design of improvements to Bowen Field in New Haven. The project includes a new, synthetic, turf field with overlapping soccer and football, a 8-lane, 400 meter synthetic running track, renovated western grandstands, new athletic field lights, and other appurtenances. Existing maintenance buildings will be evaluated for potential renovation and building additions to complement the athletic use of an adjacent high school.

## **Bunnell High School Track Rehabilitation – Stratford, CT**

**Civil Engineer** for design and construction oversight of renovations to the Bunnell High School track. Provided a detailed assessment of the existing facility, which included a survey of the site, a visual inspection of the track surfacing, and a geotechnical assessment of the asphalt and base materials. The failing track surfacing was removed, a three step asphalt crack sealing was performed, and a new track surface was installed. During the process, a seventh lane was added, and the safety hazard of the trench drain between the track and field was addressed. The track re-opened for use in August of 2013.

## **New Milford High School Synthetic Turf Fields – New Milford, CT**

**Civil Engineer** for the design, permitting and construction oversight of a track renovation, and two conversions of grass fields to synthetic turf fields. The design included demolition, grading, hydrology and hydraulics associated with synthetic turf fields, utilities, and erosion control. The project also included coordination with town officials to find the best location for off-site temporary storage of excavated material, as well as periodic site visits and construction phase services.

## **Tolland High School Athletic Field Renovations – Tolland, CT**

**Civil Engineer** for design and oversight of renovations of its high school stadium athletic field. Conducted an analysis of the existing facility, completed programming and cost estimating; prepared detailed design of the drainage, all-weather turf systems; and multi-sport field layout; prepared bidding documents, and final field contract documents. The final design for the facility includes removal of the existing field, installation of a new multi-component sub-drainage system, a 52-ounce all-weather, turf system, relocated the scoreboard, and new field lighting to allow for nighttime use of the facility.

## **Bellingham High School Track & Field – Bellingham, MA**

**Civil Engineer** for the design and construction phase services to the Town of Bellingham for the renovation of the athletic facility at Bellingham High School. Renovations include a new and expanded competition running track, new track field events, and conversion of its natural grass field to a new all-weather multi-purpose synthetic turf field. The facility will serve the high school athletic program as well as the community's needs for additional field usability.

## **Western Connecticut State University Stadium Field Replacement – Danbury, CT**

**Civil Engineer** hired by the State of Connecticut for design and construction oversight of the replacement of the 10-year-old, all-weather, synthetic, turf field. The field will continue to be used for multi-sport use, including football, soccer, and lacrosse.

## **Lyman Hall High School Football Stadium Renovations – Wallingford, CT**

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**Civil Engineer** for design and renovations to the Lyman Hall football stadium. Provided design of a new, all-weather, multi-sport, synthetic, turf system, a new and expanded running track, new track event areas, sports field lighting, team rooms, weight and training rooms, storage buildings, coaches offices, and officials offices to increase the usability of their facility for high school and community sports organizations.

## **Woodrow Wilson Middle School Track & Tennis Court Rehabilitation – Middletown, CT**

**Civil Engineer** for design and construction phase services for the renovations to the existing track and adjacent tennis courts. Provided a detailed assessment of the existing facility, which included a survey of the site, visual inspections of the track and tennis court surfacing, and a geotechnical assessment of the asphalt and base materials.

## **Manchester High School Track & Field Renovation – Manchester, CT**

**Civil Engineer** for design, permitting and construction oversight of a track renovation and field conversion from grass to synthetic turf. Track design included the analysis of the existing track bituminous to determine if it was sufficient for reuse with new surfacing. Turf design included field grading, stone base and drainage. Ancillary design included site preparation, demolition, erosion control and utilities (telecommunication, power and water service to the field). Services also included construction phase services throughout construction until completion to ensure adherence with the plans and specifications.

## **Loomis Chaffee Field Hockey Field – Windsor, CT**

**Civil Engineer** for design, permitting and construction oversight of a synthetic turf field hockey field. Design included field grading, stone base and drainage. Ancillary design included site preparation, demolition, erosion control and utilities (telecommunication, power and water service to the field). Services also included construction phase services throughout construction until completion to ensure adherence with the plans and specifications.

## **Bloomfield High School Track & Field Renovation – Bloomfield, CT**

**Civil Engineer** for design, permitting and construction oversight of a track renovation and field conversion from grass to synthetic turf. Track design included the analysis of the existing track bituminous to determine if it was sufficient for reuse with new surfacing. Turf design included field grading, stone base and drainage. Ancillary design included site preparation, demolition, erosion control and utilities (telecommunication, power and water service to the field). The project also included evaluation of a large retaining wall to determine if it was in condition sufficient to support the field bleachers. Provided construction phase services throughout construction until completion to ensure adherence with the plans and specifications.

## **Plainville High School Track & Field Renovation – Plainville, CT**

**Civil Engineer** for design, permitting and construction oversight of a track renovation and field conversion from grass to synthetic turf, as well as a new synthetic turf baseball field. Track design included the analysis of the existing track bituminous to determine if it was sufficient for reuse with new surfacing. Turf design included field grading, stone base and drainage. Ancillary design included site preparation, demolition, erosion control and utilities (telecommunication, power and water service to the field). Provided construction phase services throughout construction until completion to ensure adherence with the plans and specifications.

## **Wesleyan Smith Field Turf Renovation – Middletown, CT**

**Project Manager** for the design, permitting and construction oversight of the replacement



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of synthetic turf at the existing synthetic turf field at Wesleyan University. The existing field was approximately 10 years old and the synthetic turf was failing, including tears in the surface, as well as the degradation of the crumb rubber. The project included an analysis of the existing base material (stone and drainage pad) for reuse, as well as the appropriate new turf specifications that would be sufficient for field hockey and soccer. Services also included construction phase services throughout construction until completion to ensure adherence with the plans and specifications.

## Nonnewaug High School Field Renovation – Woodbury, CT

**Civil Engineer** for design, permitting and construction oversight of a high school renovate as new project that included a football field conversion from grass to synthetic turf. Turf design included field grading, stone base and drainage.

## Wesleyan Vine Street Tennis Courts – Middletown, CT

**Project Manager** for the design and construction oversight of twelve tennis courts, including fencing, retaining wall(s), utilities, drainage, bleachers, and associated amenities. Permitting included local Site Plan Approval. Funding was shared with the City of Middletown and half of the courts will be designated for use by the City.

## Kidney Park Improvements & Master Plan – Middletown, CT

**Civil Engineer** for Master Planning and design of the improvement to Kidney Park. Provided a detailed assessment of the existing park and conceptual plans for the planned improvements. The City wished to redevelop the park to include multiple, multi-use, synthetic, turf fields with shared baseball/softball fields, basketball courts, a playscape, sports field lighting, a concession and rest room building, parking, and pedestrian circulation throughout the park and to the adjacent school fields.

## Post University Soccer Field – Waterbury, CT

**Civil Engineer** for the drainage design, permitting approval, and construction administration for the design of a natural grass multi-sport field to be used as a practice field for the Universities Division II athletics and the campus intramural sports programs.

## Wilby High School Athletic Complex – Waterbury, CT

**Project Manager** for site evaluation/needs assessment and conceptual design services for a multi-field athletic complex. The project team conducted a comprehensive facility evaluation/needs assessment, programmed the new facilities with the project stakeholders, and prepared conceptual designs, narrative summaries, and cost estimates for two scenarios. The designs included natural and synthetic turf fields, lighting, enhanced athlete/spectator access and handicapped accessibility, stormwater management, new parking facilities, rest rooms, concessions, and storage

## Colchester Federated Church – Colchester, CT

**Project Manager** for integrated design services for the design of new parking and landscape areas, as well as additional utility infrastructure. Mr. Walter was responsible for the overall site design, and permitting, including permits from Planning & Zoning, Zoning Board of Appeals, and the State Department of Transportation.

## New England Baptist College, Phase 1 – Southington, CT

**Civil Engineer** for land planning and site design services for the New England Baptist College in Southington, CT. An ambitious 10-year master plan was laid out for the site, including development of a full-scale bible college with ten (10) buildings and a central campus, in addition to the existing church and K-6 church school. Phase 1 comprised development of

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a comprehensive-services building to offer space for dormitory rooms, classrooms, and a cafeteria.

## **Mercyknoll – West Hartford, CT**

**Project Manager** for site design of a 94-bed addition to continuing care facilities, including design and oversight of survey, wetlands delineation, site demolition, permitting, drainage, utilities, and erosion control. The project included immediate design and permitting of the 94-bed addition, as well as master planning for the entire 53-acre campus.

## **Fox Run Mall – Glastonbury, CT**

**Project Manager** for redevelopment of an existing plaza in Glastonbury, CT. The project is anchored by Whole Foods Market and included several site designs to accommodate multiple construction phases, local and state permitting, and the incorporation of the first fuel cell in Glastonbury.

## **YMCA North End – Hartford, CT**

**Project Manager** for the development of a YMCA facility, as well as site-related improvements. The project was a joint venture between the YMCA and Community Health Services in downtown Hartford. Will led the design and complex permitting effort, which included permits from the MDC, Hartford Planning & Zoning, Hartford DPW, and the CTDOT. The project also attained LEED certification.

## **Connecticut Department of Public Works – Silver Sands State Park and Walnut Beach Boardwalk – Milford, CT**

**Civil Engineer** for layout and design of the extension of the existing boardwalk at Silver Sands State Park, as well as the construction of a new boardwalk at the City of Milford's Walnut Beach.

## **On-Call Engineering Services – New Britain, CT**

**Civil Engineer:** Provided comprehensive engineering services to effectively and economically develop, utilize, and maintain the City's varied infrastructure and facility assets. Completed an engineering study of Barbour Road related to the potential realignment to eliminate a dangerous curve. Evaluated conceptual roadway alignments, developed preliminary concept plans and roadway cross-section, completed a utilities infrastructure analysis, natural resources evaluation (wetlands and ecological), preliminary culvert hydraulic analysis, and construction cost estimating.

## **Massachusetts Institute of Technology – Cambridge, MA**

**Civil Engineer** to support the redevelopment of a 3.3-acre parcel into a new graduate residence building. Provided civil/site and utilities design, grading, drainage, and stormwater management; Article 19 Project Review Special Permit support; and construction phase services.

## **Route 31 Reconstruction – Coventry, CT**

**Civil Engineer** for highway and traffic engineering for the design of the realignment of Route 31 through the historic South Coventry Village to eliminate a dangerous, substandard curve for the Connecticut Department of Transportation (CTDOT) in Coventry, CT. The project includes aesthetic enhancements to the roadway as a measure to encourage business development and traffic calming in South Coventry village. The project also includes significant streetscape and drainage improvements brought about in a context sensitive solutions process. (for use on utility projects: In addition to the roadway reconstruction design, the project included design for the relocation of 1/2 mile of water main.)

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## Shelley Lane Subdivision – Glastonbury, CT

**Civil Engineer** for design support of all aspects of civil design for a 37-lot subdivision, including lot layout, roadway design, stormwater management, utility design, and erosion and sediment control. Stormwater management was designed to 2004 DEP Stormwater Quality Manual. Erosion control was designed to 2002 Connecticut Erosion and Sedimentation Guidelines.

## Shining Rock Development Peer Review – Auburn, MA

**Civil Engineer** for review of project for the local Inland Wetlands Commission. The review identified areas that did not meet local and state requirements, including a violation of the state dam guidelines, incomplete stormwater modeling, insufficient swale design, and other issues relating to grading and wetlands.

## Silvercrest Condominiums Review – Greenfield, MA

**Civil Engineer** for review of drainage. The drainage review revealed problems with the stormwater modeling, stormwater facility design (detention basins and stormwater swales), and grading. The review led to a complete redesign of the project to ensure compliance with local and state stormwater and drainage requirements.

## Peer Review Engineering Services for Inland Wetland And Watercourse Commission – Litchfield, CT

**Peer Reviewer** for a wetlands application in Litchfield, Connecticut that included approximately 10 acres of disturbance, three (3) proposed buildings and associated parking and site amenities, as well as utilities and stormwater drainage. The review scope included erosion control, hydrology, hydraulics and water quality and compared the design versus Town standards, which included the DEP 2000 Erosion Control Guidelines, the DEEP 2004 Stormwater Quality Manual, and the Litchfield Wetlands Regulations.

## On-Call Town Consultant Engineer – Tolland, CT

**Project Manager** for on-call engineering services to the Town of Tolland, CT. Will managed and performed as-needed peer review of applications to the local land use commissions.

## UConn – Flood Management Certification Peer Review – Storrs, CT

**Project Manager** for the review of multiple Flood Management Certification (FMC) applications submitted by other consultants for University projects. The project included an exhaustive review of the FMC regulations and guidelines, and a comparison of the project plans and applications with the regulations. The deliverable included a summary report, indicating areas of non-compliance, along with areas of potential constructability issues.

## Peer Review of Residential Development – Scituate, MA

**Project Manager** for an engineering review for value engineering and constructability of a residential development that included 14 buildings (74 total units), roadways, significant topography and retaining walls, wetlands restoration, wetlands crossing and water quality features.

## Jewish Community Center Erosion & Sediment Inspections – West Hartford, CT

**Civil Engineer** for bi-weekly inspections of site to ensure compliance with the erosion and sediment control requirements of the plans and the permits. Bi-weekly reports were submitted to the Town to document the contractor's progress.

## Wal-Mart – Vernon, CT

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**Civil Engineer** for design support of all aspects of civil design, including stormwater management. Aspects of the stormwater design included watershed delineation and modeling for existing and proposed conditions, drainage design, and Vortech design and specification. The work done for this project also included erosion control design and adherence to 2002 Connecticut Erosion and Sedimentation guidelines.

## **Norwich State Hospital Feasibility Study – Norwich, CT**

**Project Engineer** for a feasibility of the redevelopment of the historic Norwich State Hospital into a mixed-use development. The master plan involved redevelopment of the 420-acre site to include hotels, retail, housing, health/wellness, a town hall, a marina hub and a golf course. The feasibility study included review of environmental, traffic, permitting and utility upgrades. The utility portion of the study analyzed upgrades and main extensions for public water, sanitary, natural gas and electric/telecom.

## **Signal Ridge Road Planned Area Development – Glastonbury, CT**

**Project Manager** for the design and permitting of a planned area development of six (6) luxury houses in South Glastonbury on Signal Ridge Road. In addition to the roadway, stormwater and lot design of these houses, the project also included the design and permitting of individual septic systems for each house.

## **Ridgeview Subdivision – Portland, CT**

**Project Engineer** for the design and permitting of a residential subdivision consisting of 17 houses in Portland on Ridgeview Road and Rose Hill Road. In addition to the roadway, stormwater and lot design of these houses, the project also included the design and permitting of individual septic systems for each house.