

Thomas P. Béchard, Jr., P.E., LEED-AP

CREENTIALS:

- ✚ Bachelor of Civil Engineering, Villanova University
- ✚ Registered Professional Engineer, New Jersey, Pennsylvania and Virginia
- ✚ LEED-AP, Building Design and Construction

PROFESSIONAL AFFILIATIONS:

- ✚ American Society of Civil Engineers



EXPERIENCE SUMMARY:

With experience in civil engineering spanning eighteen years, Mr. Béchard has provided consultant services on diverse project types, including major industrial, commercial and residential land development projects, stormwater management facilities, floodplain & stream encroachment matters, hydrologic/hydraulic studies, roadway design, and construction liaison services. His experience extends from Southern New Jersey to Eastern Pennsylvania, Maryland, Northern Virginia and Washington D.C.

He is responsible for the administration of projects from proposal preparation to final close out. Mr. Béchard employs a “hands-on” approach to every project, large or small, and his “can-do” attitude has helped him develop lasting relationships with clients and colleagues. He interfaces with the clients, land use attorneys and the various disciplines (i.e., architecture, engineering, surveying, planning, transportation, etc.) on technical design and scheduling matters; is responsible for quality assurance/quality control; and works with regulatory agencies to secure timely approvals.

REPRESENTATIVE PROJECT EXPERIENCE

West Deptford Energy Station – West Deptford, NJ

Site design and permitting for a natural gas power plant with a nominal electric generating capacity of 1,250 megawatts. Responsibilities included site layout, grading and drainage design, stormwater management design, landscaping and lighting design, and soil erosion & sediment control design. Permits/approvals obtained from West Deptford Township Planning Board, Gloucester County Planning Board, and New Jersey Department of Environmental Protection.

Building GHI (Kimberly Clark) – Logan Township, NJ

Site design and permitting for a 599,500 s.f. (expandable to 792,000 s.f.) warehouse distribution facility with parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, pump station design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Evergreens Continuing Care Retirement Community – Moorestown, NJ

Site design and permitting for the phased redevelopment of a state-of-the-art retirement community in Moorestown, NJ. Project involved 120 independent living unit apartments, 100 assisted living and skilled nursing beds, as well as paved parking lots, landscaping, lighting, utilities, stormwater management facilities, and associated site amenities on a 31.3 acre tract. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, pump station design, landscaping and

lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Moorestown Township Zoning Board, Burlington County Planning Board and Burlington County Soil Conservation District.

Cathedral Kitchen – Camden, NJ

Site design and permitting for a new soup kitchen facility, including one (1) building (12,611 square ft) on approximately 0.65 acres, within the 100-year tidal floodplain of Cooper River, on a Brownfields site in the City of Camden, Camden County, New Jersey. New loading areas, parking facilities, and stormwater management systems are also proposed to support the facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Camden Zoning Board, Camden Planning Board and Camden County Soil Conservation District.

New Hope Museum of Art – New Hope, PA

Site design and permitting for a redevelopment project on approximately 2 acres in New Hope, Pennsylvania. The developer was proposing to demolish and reconstruct a portion of an existing building. Responsibilities consisted of site layout, grading and drainage, stormwater management, utility relocation, zoning tabulations, material takeoffs and construction cost estimate.

Griffith Water Treatment Plant – Occoquan, VA

Site design and permitting for a project to develop new water treatment facilities in Occoquan, Virginia. Responsibilities involved site design for the pump house located on the bank of the Occoquan River. This design included site layout including parking facilities and loading areas for large cranes, grading and drainage, stormwater management design, erosion and sedimentation control design including sediment traps, a level spreader, and outlet protection, and earthwork balancing involving rock outcroppings.

M Street Beautification – Washington , D.C.

Site design and permitting for project that consisted of streetscape improvements to M Street in Washington, D.C. along the frontage of the Washington Naval Yard. Responsibilities included horizontal and vertical road design including plans, profiles and cross sections, handicap ramp design, and utility relocation design.

The Daily Intelligencer Building Addition – Doylestown, PA

Site design and permitting for a project to add a 5,500 square foot addition to the existing Daily Intelligencer building in Doylestown Borough, Pennsylvania. Responsibilities consisted of site layout, grading and drainage, stormwater management including a BMP infiltration swale, utility relocation, zoning tabulations, material takeoffs and construction cost estimate.

NIH — Clinical Research Center – Bethesda, MD

Site design and permitting for a project to expand the existing research facilities with an 800,000 square foot building addition located at the National Institutes of Health in Bethesda, Maryland. Responsibilities included layout and design of an entrance drop-off area, grading and storm sewer design, erosion and sedimentation control design, water main layout and design, sanitary sewer main layout and design, foundation under-drain design, and the design of a loading dock/vivarium entrance including plans and profiles.

NIH — Stormwater Management Pond – Bethesda, MD

Design and permitting for a regional stormwater management pond located at the National Institutes of Health in Bethesda, Maryland. Responsibilities consisted of addressing the authoritative review agencies (Maryland Department of the Environment) comments and concerns. This involved a partial redesign of the outfall structure and spillway. This included the design of a sand filter diaphragm for the outfall pipe, various erosion and sedimentation control designs and some minor grading design changes.

NIH — South Entry, Bethesda, MD

Site design and permitting for the first phase of a multi-phase development project at the National Institutes of Health in Bethesda, Maryland. The project consisted of providing a temporary (two years) entrance to the back of an existing clinical research facility, while an 800,000 square foot addition was being added to the front of the building. Responsibilities included the layout and design of an access driveway, the reconfiguration of an

existing parking lot, grading and drainage, erosion and sedimentation control design and utility relocation design.

NIH — Center Drive, Bethesda, MD

Site design and permitting for a subsequent phase to NIH — South Entry. This phase consisted of the relocation of an existing road to make room for the new 800,000 square foot addition to the existing clinical research facility. Responsibilities included horizontal and vertical design of the new road including plans, profiles and cross sections. was also responsible for grading and storm sewer design (, erosion and sedimentation control including a sediment basin, water main layout and design, sanitary sewer layout and design, and utility relocation design. I also prepare material takeoffs and construction cost estimates, in addition to attending bi-weekly construction meetings.

Layton Hall Elementary School Building Addition – Fairfax, VA

Site design and permitting for a project to expand an existing elementary school in Fairfax, Virginia. Responsibilities included site layout including a parking lot, grading and storm sewer design and erosion and sedimentation control design.

FBI Lab Relocation, Quantico, VA

Site design and permitting for a project to develop new lab facilities for the F.B.I. in Quantico, Virginia. Responsibilities included site layout, including a parking lot, grading and drainage, stormwater management design including a wet pond, erosion and sedimentation control design, and site balancing and earthwork calculations.

Freightliner – Logan Township, NJ

Site design and permitting for a 359,573 s.f. warehouse distribution facility with parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

International Paper Demolition – Durham, PA

Site design and permitting for a project to demolish approximately 40,000 square feet of building and associated parking and loading areas and return the site to natural conditions. The project was environmentally sensitive because it was located adjacent to a high quality stream, Cooks Creek. Responsibilities included a three-phase demolition plan which involved grading and drainage, erosion and sedimentation control, site balancing and earthwork calculations, material takeoffs and construction cost estimates. I was also responsible for all local, state and federal permits associated with the project.

Building K (Sears, Brighton Best, UPS) – Logan Township, NJ

Site design and permitting for a 365,760 s.f. warehouse distribution facility with parking and loading facilities. Responsibilities included roadway improvement plans, site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Bishop McCarthy House – Vineland, NJ

Site design and permitting for a 6,200 s.f. building addition and parking lot expansion to include 100 new car parking spaces. Responsibilities included site layout, grading and drainage design, stormwater management design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Vineland Zoning Board, Cumberland County Planning Board and Cumberland-Salem Conservation District.

Marriot Courtyard Hotel – Blacksburg, VA

Site design and permitting for a project that consisted of the redevelopment of a piece of land. The existing building was a restaurant/night club. The developer was proposing to tear down the existing building and associated parking and build a new Marriot Courtyard Hotel and parking lot. Responsibilities consisted of site

layout including parking lots, grading and storm sewer design, erosion and sedimentation control design, and stormwater management calculations to demonstrate that the proposed development reduced the runoff from the previously developed conditions.

La Brea Bakery Building Expansion – Logan Township, NJ

Site design and permitting for two building additions totaling 19,663 s.f. and related parking improvements to an existing 390,248 s.f. industrial/manufacturing facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Schar USA GF Food Plant – Logan Township, NJ

Site design and permitting for a 104,755 s.f. gluten-free bakery with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Earthwork Master Planning for LogistiCenter at Logan – Logan Township, NJ

Analysis of existing earth stockpiles and their ability to support the build-out of the remaining undeveloped parcels of land located within the LogistiCenter at Logan, a 1,000-acre industrial park located within Logan Township. Responsibilities included conceptual site layout, rough grading design and earthwork calculations.

Brand Energy – Logan Township, NJ

Site design and permitting for a 20,000 s.f. scaffolding warehouse/maintenance facility with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Bentley Trucks – Logan Township, NJ

Site design and permitting for a 20,400 s.f. truck maintenance and repair facility with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Godwin Pumps – Logan Township, NJ

Site design and permitting for a 53,000 s.f. manufacturing/warehouse/office building with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board and the Gloucester County Soil Conservation District.

Firestone Complete Auto Care – Logan Township, NJ

Site design and permitting for a 7,653 s.f., 10-bay automotive maintenance and repair facility with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Pedricktown Road Culvert Replacement – Logan Township, NJ

Design and permitting for a 61 foot long twin 24"x38" horizontal elliptical culvert under Pedricktown Road (County Route 601). Responsibilities included hydrologic and hydraulic design, flood hazard area calculations,

roadway design, and construction liaison services. Permits/approvals obtained from Logan Township, Gloucester County, Gloucester County Soil Conservation District, and New Jersey Department of Environmental Protection.

Commerce Blvd. Extension – Logan Township, NJ

Design and permitting for approximately 1,200 feet of new roadway. Responsibilities included horizontal and vertical roadway design, grading and drainage, stormwater management, landscaping and lighting design, water main extension, sanitary sewer extension, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, Logan Township MUA and the New Jersey Department of Environmental Protection.

Harrisonville Road Water Main Extension – Logan Township, NJ

Design and permitting of approximately 4,000 l.f. of 12” potable water main located within Harrisonville Road (County Route 602). Responsibilities included water main design and soil erosion and sediment control design.

Rastelli Foods Parking Expansion – Logan Township, NJ

Site design and permitting for a 13 car parking lot expansion with new driveway to an existing warehouse facility. Responsibilities included layout, grading and drainage, landscaping and lighting, and soil erosion and sediment control. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board and Gloucester County Soil Conservation District.

2078 Center Square Road – Logan Township, NJ

Site design and permitting for a 184,000 s.f. building expansion and related parking improvements to an existing 164,365 s.f. industrial/manufacturing facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Chelten House Building Expansion – Logan Township, NJ

Site design and permitting for the demolition and reconstruction of a 127,969 s.f. building expansion and related parking improvements to an existing industrial/manufacturing facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

OfficeCom 6 – Logan Township, NJ

Site design and permitting for a 9,600 s.f. professional office building with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Zoning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

SWM Master Planning for LogistiCenter at Logan – Logan Township, NJ

Analysis of existing storm sewer system and regional stormwater management basins and their ability to support the build-out of the remaining undeveloped parcels of land located within the LogistiCenter at Logan a 1,000-acre industrial park located within Logan Township. Responsibilities included conceptual site layout, hydrologic and hydraulic calculations.

Pedricktown Road Sanitary Sewer Extension – Logan Township, NJ

Design and permitting of approximately 3,400 l.f. of gravity sanitary sewer located within Harrisonville Road (County Route 602) and Pedricktown Road (County Route 601). Responsibilities included sanitary sewer design, grading and drainage, soil erosion and sediment control design and construction liaison services. Permits/approvals included Logan Township, Gloucester County, Gloucester County Soil Conservation District, Logan Township MUA, and the New Jersey Department of Environmental Protection.

MAPEI – Logan Township, NJ

Site design and permitting for a silo tower addition and associated parking and loading improvements. Responsibilities included roadway improvements, layout, grading and drainage, stormwater management, water and sewer design, landscaping and lighting design and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Zoning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, Logan Township MUA, and the New Jersey Department of Environmental Protection.

2155 High Hill Road Pump Station – Logan Township, NJ

Design and permitting for a sanitary sewer pump station to service a 229,888 s.f. warehouse building. Responsibilities included pump station design. Permits/approvals obtained from Logan Township and Logan Township MUA.

Rastelli Foods Building Expansion – Logan Township, NJ

Site design and permitting for an 87,301 s.f. building expansion and related parking improvements to an existing 37,070 s.f. industrial/manufacturing facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, pump station design, landscaping and lighting design and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Godwin Pumps Machine Shop Expansion – Logan Township, NJ

Site design and permitting for a 8,120 s.f. building expansion and related parking improvements to an existing 55,810 s.f. industrial/manufacturing facility. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board and Gloucester County Soil Conservation District.

J&J Snack Foods Building Connector – Logan Township, NJ

Site design and permitting for a 1,500 s.f. building connector between two existing industrial buildings with associated parking modifications. Responsibilities included layout, grading and drainage, landscape and lighting design and construction liaison services. Permits/approvals obtained from Logan Township Zoning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District and the New Jersey Department of Environmental Protection.

GE Supply Parking Expansion – Logan Township, NJ

Site design and permitting for a 21 car parking lot expansion, loading court improvements and storage yard for an existing warehouse facility. Responsibilities included layout, grading and drainage, landscaping and lighting, and soil erosion and sediment control. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board and Gloucester County Soil Conservation District.

Albert's Organics – Logan Township, NJ

Site design and permitting for a 95,000 s.f. warehouse distribution facility with parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design, soil erosion and sediment control design, and construction liaison services. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

OfficeCom 7 & 8 – Logan Township, NJ

Site design for two 9,600 s.f. professional office buildings with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design, sanitary sewer and water design, landscaping and lighting design and soil erosion and sediment control design

Roux Office Building – Logan Township, NJ

Site design and permitting for a 16,720 s.f. professional office building with associated parking and loading facilities. Responsibilities included site layout, grading and drainage design, stormwater management design,

sanitary sewer and water design, landscaping and lighting design and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Zoning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District, and Logan Township MUA.

Bridgeport Disposal Dike Repair – Logan Township, NJ

Design and permitting for the repair and reconstruction of 350 l.f. of dike along the Raccoon Creek. Services included horizontal and vertical layout, grading and drainage, soil erosion and sediment control, and construction liaison services. Permits/approvals obtained from Gloucester County Soil Conservation District, New Jersey Department of Environmental Protection and Army Corps of Engineers.

Custom Building Products Parking Expansion – Logan Township, NJ

Site design and permitting for a 15 trailer and 112 car parking lot expansion to an existing manufacturing facility. Services included roadway improvement plans, layout, grading and drainage, stormwater management, landscaping and lighting, and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Planning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District and the New Jersey Department of Environmental Protection.

Unity of Fairfax Church – Oakton, VA

Site design and permitting for a project to expand an existing church located in Oakton, Virginia. The project was to be phased in such a way that the old church building and parking was to be utilized and maintained while the new building was being constructed. Responsibilities included a three-phase design for site layout including a parking lot, grading and storm sewer design, stormwater management including a detention basin, water main layout and design, sanitary sewer main layout and design, fire lane design, site balancing involving earthwork calculations, and erosion and sedimentation control design including basin outfall protection.

Research Office Center – Rockville, MD

Site design and permitting for a project consisting of three large office buildings totaling over 500,000 gross square feet on over 10 acres. My involvement with the project was for the third and final phase of the development. Responsibilities included site layout including parking lots and drive aisles, grading and storm sewer design stormwater management design including two BMP sand filters, and erosion and sedimentation control design. I also prepared material quantity takeoffs and construction cost estimates as well as attending bi-weekly construction meetings.

Gaiamo Brothers Land Development – Northampton, PA

Site design and permitting for a project to redevelop a commercial site consisting of three buildings totaling approximately 33,000 square feet on approximately 8 acres in Northampton Township, Pennsylvania. Responsibilities consisted of addressing review letters from the Township Engineer and the Township Planner. The revisions involved site layout, including parking lots, grading and storm sewer design, stormwater management including a detention basin, erosion and sedimentation control, water main layout, gravity sanitary sewer main layout, parking lot lighting design, and zoning tabulations.

Cloverleaf Center – Germantown, MD

Site design and permitting for a project to develop an office complex consisting of three office buildings on approximately 8 acres in Germantown, Maryland. Responsibilities included site layout, including a parking lot, grading and drainage, stormwater management, erosion and sedimentation control design.

Taylor Farms Parking Expansion – Logan Township, NJ

Site design and permitting for a 123 car parking lot expansion to an existing manufacturing facility. Services included layout, grading and drainage, stormwater management, landscaping and lighting, and soil erosion and sediment control design. Permits/approvals obtained from Logan Township Zoning Board, Gloucester County Planning Board, Gloucester County Soil Conservation District and the Logan Township MUA.

2279 Center Square Road Parking Improvements – Logan Township, NJ

Site design and permitting for a 59 car parking lot expansion to an existing warehouse distribution facility. Services included layout, grading and drainage and landscaping and lighting design. Permits/approvals obtained from Logan Township.

1130 Commerce Boulevard Parking Improvements - Logan Township, NJ

Site design and permitting for a 61 trailer and 20 car parking lot expansion to an existing warehouse distribution facility. Services included layout, grading and drainage design, landscaping and lighting design, soil erosion and sediment control design and construction liaison services. Permits/approvals obtained from Logan Township Planning Board and Gloucester County Soil Conservation District.

Regional Stormwater Management Basins 3 & 8 – Logan Township, NJ

Design and permitting of two regional stormwater management basins located within LogistiCenter at Logan, a 1,000-acre industrial park located within Logan Township. Services included layout, grading and drainage, stormwater management design, soil erosion and sediment control design and construction liaison services. Permits/approvals obtained from Logan Township, Gloucester County, Gloucester County Soil Conservation District and New Jersey Department of Environmental Protection.

Amberleigh 4-lot Subdivision – Buckingham, PA

Site design and permitting for a residential project consisting of 4 single family houses on approximately 30 acres in Buckingham Township, Pennsylvania. Responsibilities consisted of addressing review letters from the Township Engineer and Township Planner. The revisions involved grading and drainage, stormwater management including a wet pond, infiltration trenches and BMP swales, erosion and sedimentation control and zoning tabulations.

Cacioppo 4-lot Subdivision, Buckingham, PA

Site design and permitting for a residential project consisting of 4 single family houses on approximately 20 acres in Buckingham Township, Pennsylvania. Responsibilities included site layout, grading and drainage, stormwater management including rain gardens, a detention basin, and an infiltration trench, erosion and sedimentation control, and floodplain analysis. I was also responsible for material takeoffs and construction cost estimates.

Richland Township Access Road – Quakertown, PA

Site design and permitting for a project to construct a 200 foot long access road to a trail system at Quakertown Middle School in Quakertown, Pennsylvania. Responsibilities included vertical and horizontal layout including a parking lot and bike path, grading and drainage, erosion and sedimentation control, material takeoffs and construction cost estimates.

Smithfield Professional Building – Smithfield, PA

Site design and permitting for a project to develop a 5 acre site with a 50,000 square foot 3-story office building in Smithfield Township, Pennsylvania. Responsibilities included site layout including parking lots, grading and storm sewer design, stormwater management (Modified Rational method) erosion and sedimentation control, earthwork balancing, material takeoffs and construction cost estimates.

Quantico Physical Fitness Center – Quantico, VA

Feasibility Investigation for proposed physical fitness center. Responsibilities included site layout including parking lots and the determination of Air Installation Compatible Use Zone for a nearby air field, utility investigation, including water pressure for fire flow, grading and drainage, gravity sanitary sewer and water main design, and utility relocation.

Washington Lee High School Feasibility Study – Arlington, VA

Feasibility investigation for a project to reconstruct and add new athletic facilities. Responsibilities included preliminary site design including site layout, grading and drainage, utility relocation and erosion and sedimentation control. I was also responsible for material quantity takeoffs and a construction cost estimate.