

Partial List of Recent Projects

Eagle Rock Resort Company and Eagle Rock Resort Community Association– Hazleton, PA (North and East Union Township, Schuylkill County and Hazle and Black Creek Townships, Luzerne County, Pa)

Engineer in charge for the following projects:

Open End Civil Engineering: Work with the owners of the resort on a daily basis to address various civil engineering related issues from design to construction including maintenance and upgrade of existing infrastructure as well as new development. Currently, the resort is over 5,500 acres and includes over 6,000 single family units, ski slopes and tubing trails, 27 hole golf course, hotels, restaurants and other amenities.

Community Association Consulting: Review of minor site development and stormwater management plans on behalf of the Eagle Rock Community Association.

Ongoing Drainage/E&S Design/Analysis: Preparation of comprehensive stormwater management plan for 5,000+ acre resort community. Retained as primary civil engineering consultant to update plan periodically, work with D.E.P. and local inspectors to maintain compliance with existing N.P.D.E.S. permit and work with Eagle Rock Community Association (E.R.C.A.) to address ongoing drainage issues. Provided typical on-lot stormwater design that has been implemented into lot owner's restrictions to provide means of control for new development in older sections of the resort.

815 Acre Expansion: Prepared Master Plan for successful PRD Application and prepared Master Drainage Plan and obtained NPDES permit for 2,300 unit expansion. Approvals included complete design of approximately 30 detention, retention or infiltration basins with special emphasis on water quality as well as the design of approximately 60 miles of swales and interconnecting pipe networks and roughly 60 temporary stormwater/ E&S basins

Laurel Valley: Obtained all approvals and permits for 476 unit residential subdivision w/ infrastructure

The Highlands: Obtained all approvals and permits for 211 unit residential subdivision w/ infrastructure

The Vistas: Obtained all approvals and permits for 394 unit residential subdivision w/ infrastructure

The Timbers: Obtained all approvals and permits for 501 unit residential subdivision w/ infrastructure

The Woodlands: Obtained all approvals and permits for 594 unit residential subdivision w/ infrastructure

Stormwater Management Expert Testimony: Provided expert report and testimony for the Pennsylvania Environmental Hearing Board for ongoing litigation that includes appeals under the current NPDES permitting process at the state level.

560 Acre Expansion: Prepared Master Plan for successful PRD Application and prepared Master Drainage Plan and obtained NPDES permit for 1,200 unit expansion.

Mountain View Phase I and II: Obtained Township and County Approvals for 1080 lot residential subdivision with commercial uses.

Western Summit South Phases 3, 4, 5, 6, and 7: Successful approvals for 400 plus residential units.

Western Summit Stream Crossing: Performed hydraulic analysis and design of large open bottom arch culvert designed to pass the 100 year storm in a stream with drainage areas of approximately three square miles.

Hidden Forest Phases I, II, III and IV: Successful approvals for 850 plus residential units. Included Individual NPDES permit, HOP, Stream Crossing permits with DEP and USACOE and review in two municipalities.

Highway Occupancy Permitting at various locations: Prepared design plans for various entrances at the resort for approval by PennDOT.

Lost Lake Resort, Town of Forestburgh, Sullivan County, NY (Engineer-in-Charge: Ongoing Project)

Master Plan: Prepared Master Plan and associated documents for successful SEQR approval for 2,080 acre property which includes 2,557 single family residential units, 70 cottages, 18 hole championship golf course, restaurant, hotel, conference center and several other amenities. The infrastructure includes 32 miles of new roadway, new community water and sewer facilities, electric, cable, telephone and stormwater management collection, conveyance and treatment.

Phase I Preliminary Plan Approval - Successful approval of final plat containing 400 single family residential lots, 9 holes of golf, walking trail and 5 miles of new roadway and associated infrastructure, including SPDES permitting, waterways permitting, and County Road Access Permit.

SEEDCO Residential - Den-Mar Gardens Phase 3 Mount Carmel Township, Northumberland County: Successful Subdivision and Land Development approvals for 34 single family lots. Included NPDES permitting, Sewage Planning, Utility Coordination.

Shamokin Creek DGS 182-18: Mount Carmel Borough, Northumberland County PA- Subcontract to General Contractor, Don E. Bower, Inc. to prepare detailed Erosion and Sediment Control Plans for the Shamokin Creek reconstruction project in the Borough of Mount Carmel. Work included preparation of initial detailed plans in accordance with the Contractor's means and methods, close coordination with the Contractor and DEP through the entire process in order to update the plans based on differing conditions and field changes.

Shamokin Creek - Carbon Run Flood Restoration Project (FEMA Declaration No. 4030-DR-PA), City of Shamokin, Northumberland County, Pennsylvania. Engineer in charge for design of repair plans for 1.23 Miles of Shamokin Creek and Carbon for purposes of restoration of 91 damage areas caused by Tropical Storm Lee. Worked with geotechnical and structural engineers for wall design plans and prepared all permit applications as well and co-prepared construction plans and documents. The project was a reimbursed through FEMA and PEMA and special consideration was required for areas deemed historic in nature.

Warrior Run Community Corporation - Delaware Township, Northumberland County, PA - Complete H&H study of 2,000 feet of Spring Run for purposes of complete design and permitting of a Timber bridge for connection of the Warrior Run Trail. Worked included back water analysis for confluence with the Susquehanna River utilizing HEC-RAS

Montour Area Recreation Commission- North Branch Canal Trail - Montour and Columbia County's- Perform NPDES permitting for construction of 6.2 mile walking trail. The trail runs along the Susquehanna River and there were approximately 19 'breaks' in the trail that required crossing which included several that required DEP permitting.

George Heim Ultimate Express Carwash- Mahoning Township, Montour County: Successful land development approvals for 1 acre site for purposes of a new car wash facility. Included obtaining PennDOT HOP's for two driveways, design of 300+ feet sewer and water line extensions and HOP utility permitting as well as utility line stream crossing permits and Erosion and Sediment Control Plan Approval.

Service Electric Cablevision- Point Township, Northumberland County: Successful land development approvals for 7 acre site with 55,000 s.f. building with 120 parking spaces, loading docks, parking garage, etc. that is used as the headquarters for Service Electric -Sunbury. Included NPDES permitting with 2 detention basins, PennDOT HOP permitting.

Service Electric Cablevision- Milton Borough, Northumberland County: Successful Land Development plan for one acre site that contained 4,500 s.f. telecommunications building.

Service Electric Cablevision- Bloomsburg, Columbia County: Successful Land Development plan for one acre site that contained 4,500 s.f. telecommunications building.

Skyline Diner, West Hanover Township, Dauphin County, Pa: Complete Land Development approvals including NPDES permit for 5,000 s.f. building expansion and 80 stall parking lot expansion.

The Bottom Luxury Townhomes, Orwigsburg, Schuylkill County, Pa: Assisted attorney with presentation for successful conditional use application to construct 33 townhome units in a residential zoning district. This included preliminary stormwater analysis, complete plan preparation and approximately 12 hours of professional testimony. The project was unique in that there were multiple opposition groups. Obtained preliminary land development approval as well as NPDES permitting and local road H.O.P.;

Balco Development Corporation

Engineer in charge for:

Country Club Estates Butler Township, Schuylkill County, Pa: 52 Lot residential Subdivision with infrastructure including water system design, sanitary sewer extension and complicated stormwater permitting which dealt with 5 different drainage areas. NPDES permitting and a PennDOT H.O.P. were required.

Windsor Heights, Hemlock Township, Columbia Pa: General Consulting for 100 acre P.R.D. with golf course. Work includes golf course re-configuration, stormwater permitting, and future expansion.

SEEDCO - Coal Township Industrial Park, Coal Township, Pennsylvania

N.P.D.E.S. permitting, E&S, and Stormwater Management Design for 100 acre Industrial Park.

Stauffer Subdivision - Franklin Township, Columbia County: Performed all engineering aspects of a 6 lot residential subdivision, included NPDES permitting.

Dunkin Donuts - Sunbury Plaza, Northumberland County: Land Development approvals and Medium Volume H.O.P. for new Dunkin Donuts fast food.

Burger King - Elysburg, Northumberland County: Land Development approvals and Low Volume H.O.P. for new Burger King fast food.

Capriotti's - Banks Township, Carbon County: Zoning, Land Development and NPDES approvals for 10,000 s.f. catering hall with approximately 200 parking spaces.

Virtual Realty, Orwigsburg, Schuylkill County: Zoning and Land Development approvals for 10,000 s.f. building expansion and parking area that included subsurface detention system.

ARROC, East Penn Township, Carbon County: Successful applications for Subdivision, Land Development and NPDES permitting for a race horse practice facility with full size track designed to emulate Pocono Downs.

Longview Construction (Kevin Hughes, developer)

Ashland Medical Office, Butler Twp., Schuylkill County Pa: Site design for 8,000 s.f. medical office with associated improvements

Practice Management Facilities, West Brunswick, Twp.: Site design for 10,000 s.f. office center with associated improvements

WaterBridge at Ashland, Ashland Borough: Complete site design and approvals for 70 bed assisted living facility.

Good Shepard Lutheran Church, Reading, Berks County, Pa: E&S and Stormwater design and approvals for 10,000 s.f. addition

Northwestern Academy Coal Twp., Northumberland County:

Site Development design and approvals 5 ac. juvenile rehab – campus with three buildings and associated improvements

Coal Township Industrial Park, Coal Township Northumberland County:

N.P.D.E.S. permitting, E&S, and Stormwater Management Design for 100 acre Industrial Park.

North Schuylkill Elementary School, Butler Township, Schuylkill County: Complete site design for 100,000 s.f. new elementary school including NPDES permitting, Stormwater Management, Grading, Utility Design and complete Land Development and County Conservation District approvals

Various minor Stormwater Management and Erosion and Sediment Control Plans: Schuylkill, Northumberland, Columbia, and Berks Counties, Pa:

Assist surveying department of Brinkash & Associates as well as four other local surveying firms with preparation of minor E&S and SWM plans and reports when required for 2 and 3 lot subdivisions. Obtained approvals for approximately 30 projects of this nature over the past two years.

Municipal Engineering:

City of Shamokin- City Engineer

Assist City staff with various projects within the city including flood control projects, grant work, recreational projects and building projects.

Borough of Mount Carmel - Project Engineer for 2013, 2014 and 2015 paving projects. Developed specifications, performed inspections and coordinated field changes for approximately 20,000 linear feet of paving of Borough Streets.

Township of Cass, Schuylkill County- Alternate Review Engineer

Subdivision and Land Development Plan Review: On a project specific basis, performed review of subdivision and land development plans for conformance with the Cass Township Subdivision and Land Development Ordinance, prepare review letters, coordinate outside agency approvals and represent Township at their Planning Commission Meetings for the specific projects.

Township of Foster, Schuylkill County- Alternate Review Engineer

Subdivision and Land Development Plan Review: On a project specific basis, performed review of subdivision and land development plans for conformance with the Foster Township Subdivision and Land Development Ordinance, prepare review letters, coordinate outside agency approvals and represent Township at their Planning Commission Meetings for the specific projects.

Township of Norwegian, Schuylkill County-Alternate Review Engineer

Subdivision and Land Development Plan Review: On a project specific basis, performed review of subdivision and land development plans for conformance with the Norwegian Township Subdivision and Land Development Ordinance, prepare review letters, coordinate outside agency approvals and represent Township at their Planning Commission Meetings for the specific projects.

Northumberland County Planning Commission- Alternate Review Engineer

Subdivision and Land Development Plan Review: On a project specific basis, performed review of subdivision and land development plans for conformance with the Northumberland County Subdivision and Land Development Ordinance, prepare review letters, coordinate outside agency approvals and represent County at their Planning Commission Meetings for the specific projects.

Township of Butler, Schuylkill County

Engineer in charge for:

Stormwater Management and E&S Alternative Analysis: Prepared complete stormwater study and design under Pennsylvania's Growing Greener Grants. The project dealt mainly with existing drainage problems in the Village of Lavelle and the report addressed upgrade of existing facilities, installation of large detention basin, and ordinance recommendations for review and subsequent approval by D.E.P. Responsible for establishment of budget and time table under existing restraints of the township. The project wasn't constructed because the Township couldn't reach an agreement with a property owner.

Borough of Orwigsburg, Schuylkill County

Orwigsburg Memorial Park: Current project that involves the design of site plans for Borough Memorial Park, included parking, recreation areas, and stormwater management facilities.

Co- Engineer in charge in conjunction with Lehigh Engineering for:

Comprehensive Stormwater Study: Performed complete Hydraulic Analysis of the Borough of Orwigsburg in response to severe drainage problems magnified by large events. Project entailed hosting several public workshops and preparing report and power point presentation to Borough Council highlighting recommendations while providing budget numbers and projected time frames. A maintenance program was also developed for the Borough