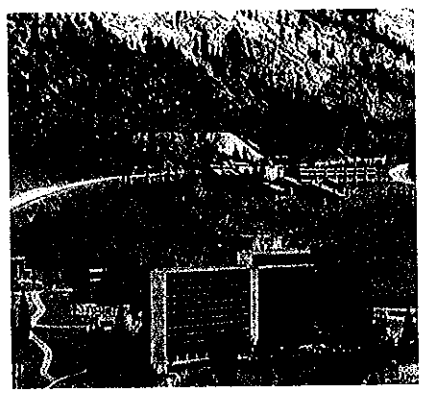
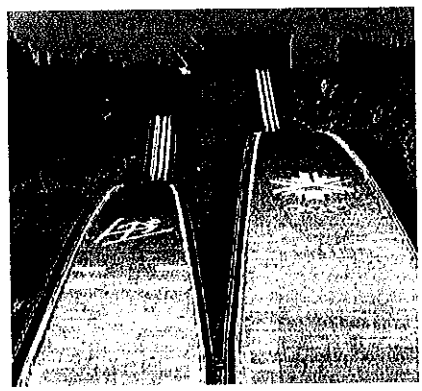
Expression of Interest
WV Division of Natural Resources
Architectural / Engineering Services
@ Canaan Valley Resort
Purchase Order No. DNRB11059





Submitted to:

Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Submitted by:

Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon , WV 26201
(304)472-7140

Stantec

Stantec Consulting Services Inc.
1 Moore Avenue
Buckhannon, WV 26201
Tel: (304) 472-7140
Fax: (304) 472-6239

Stantec

March 18, 2011

West Virginia Division of Natural Resources
Parks and Recreation Section
324 4th Avenue
South Charleston, West Virginia 25303-1228

Attention: Procurement Office/ Selection Committee

Subject: WV Division of Natural Resources
Parks & recreation Section
 # DNRB11059

Stantec Consulting Services Inc. is pleased to submit this response to the solicitation for Expression(s) of Interest (EOI) for architectural/engineering and related services for the Ski Area and other Improvements at Canaan Valley Resort State Park, Tucker County, WV. We understand that the project may include design and preparation of construction plans and specifications for: increasing the potable water supply for the park; repairs to ski area parking lots; a shooting range; a conveyor type surface lift to move customers from the base facility to the lower ski lift area; renovations or replacement of surface lift components; renovation and extension of snow making systems; other related improvements as may be desirable and as funding will allow. We also understand that specific improvements to the facility may include:

- construction of a "Magic Carpet" type surface conveyor suitable to move skiers from the base facility to the lower ski lift area in the ski season and/or serve as a "Turtle Slide" in the summer;

- construction or a Wobble Clay shooting range;

- construction of one additional Water Well in a different aquifer than that in use at present;
repairs to a gravel lot in the ski area and repaving of another;

- necessary renovations to existing surface lifts and/or relocation of one or more of these lifts;

- renovation expansion and repairs to the snow making capabilities of the facility, including new distribution lines and repairs to snow making ponds;

- specification of new snow making guns;

- renovations of expansion of existing buildings intended to serve the ski area complex;

- construction of a new building to improve the service the park provides to the public near the existing location of the C-lift and the tubing area;

- phase 2 of an ongoing effort to improve the golf course drainage that will include replacement of sod over drainage lines installed previously;

- repairs or relocation of some ski trails if necessary to improve the facilities operation and safety.

We further understand that:

- ✔ services desired include those necessary to plan the most effective and economical building; design of the building;

- ✔ procurement of necessary environmental and other regulatory approvals and permits including, but not limited to, the Division of Culture and History, Department of Health, and the Division of Environmental Protection;

- ✔ production of bidding documents;

- ✔ construction contract administration including but not limited to evaluation of submittals for compliance with design parameters;

- ✔ other ancillary services determined during the scope of services negotiation and agreement;

- ✔ the terms contained in Part 3 of the EOI Request are binding and that the requirements contained in the solicitation and our response thereto will be included in the order of precedence as set forth in section 3.4.6.

We have made a copy of the solicitation, including signed pages 1, 2, 3, 4, and Purchasing Affidavit page 15, and addendum 1, pages 1 and 2, a part of our response (see **Section VII** of this response to the EOI solicitation).

STANTEC FIRM OVERVIEW

Founded in 1954, Stantec provides full service professional planning, engineering, architecture, and project management (with a focus on sustainable design solutions) to a broad spectrum of public and private sector clients. Stantec ranks among the top providers of architectural, engineering, and planning services in North America, and is consistently ranked in the upper percentage of the 500 top U.S. Design Firms (we are currently ranked 24th) as determined by Engineering News-Record. Stantec handles assignments ranging from small to very large design and construction service projects. The firm's ability to compete successfully on such an extensive range of projects is directly related to it's ability to effectively share resources and expertise from a highly qualified and diverse staff. Stantec has some 10,000 employees located in approximately 150 offices across North America. Stantec resources in West Virginia include a staff of some 35 professional and support personnel based in an office located in Buckhannon, WV, and in a nationally accredited Construction Materials Testing Laboratory. The laboratory is also located in Buckhannon.

Stantec combines technical expertise with global experience to offer a complete range of project management, scientific, architectural, and engineering design services that span the entire project life cycle. Through our people, best practices, partnerships, and technology, we support the successful delivery of projects varying in size and complexity.

Stantec provides professional consulting services in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, commissioning, and construction project management for all seasons resorts, site development, buildings, infrastructure, and facilities projects. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions. We support public and private sector clients in a diverse range of markets, at every stage, from initial concept and financial feasibility to project completion and beyond.

SECTION 1

Expression of Interest

tableofcontents

Today's design environment has radically changed since our founding in 1954. Constantly evolving design standards, building systems, technology upgrades, communication systems, environmental requirements, security requirements, and support facility requirements necessitate that consulting firms master and implement the applicable advances in services provided for clients. Not only does Stantec stay abreast of these changes, but our employees contribute to development of these improvements through participation in technical committees of standards developing organizations such as ASTM International. Our on-going collaborations and partnerships with federal, state, and local regulatory personnel over the years have created relationships of mutual trust and respect.

Stantec has the in-house experience and resources to bring a project from concept to completion. To do so, we cultivate an integrated relationship between clients, funding agencies, regulators, and other parties of interest. This process entails a balance of development objectives, infrastructure requirements, environmental and social impacts, and economic feasibility. Throughout a project's course, Stantec is equipped to serve the needs of our clients. (See **Section II**, Overview and Selected Practice Area Profiles for additional information).

STANTEC'S APPROACH

Stantec has provided architectural/engineering and planning services at numerous private and public facilities throughout North America. Our experience, combined with our thorough knowledge of federal and state regulations and procedures, allows us to quickly resolve site-specific issues by identifying a solution that fulfills the development objective and complies with regulatory requirements. Stantec project management methods repeatedly result in projects that are completed within budget and on time, even if unforeseeable issues arise.

Stantec understands that most improvement projects envisioned in the current fiscally constrained and tightly regulated environment require a comprehensive team approach. Projects such as the Canaan Valley Resort State Park Ski Area and other Improvements Project in Tucker County, WV require involvement of numerous consulting disciplines. With all such disciplines available in-house, Stantec has created a unique project management model that integrates various disciplines at the project's inception. Stantec's approach leads to planning and design projects that are based on sound engineering principles and estimates, which in turn leads to timely permitting, advertisement, award, construction, and completion of the needed facilities within the time limits set forth by the Parks and Recreation Section of the WV Division of Natural Resources..

DESIGN

Our planning and design experience includes a wide range of projects for government agencies and private sector development. (See **Section IV**, Relevant Project Briefs, for additional information.)

Utilities and Drainage Engineering

Stantec provides comprehensive services for site development including utilities planning and design. Our team of qualified engineers and designers work jointly to complete engineering analyses to identify existing on-site and off-site utilities, required system upgrades to meet the demands of the proposed project, the most effective design for meeting the new demands, and efficient utility corridors. Stantec routinely analyzes pre- and post-development drainage calculations to ensure that existing and proposed drainage system designs are adequate to support proposed development and to ensure that post development runoff meets federal and state regulations.

Surveying

The Stantec staff includes registered professional surveyors experienced in site development, boundary, and construction surveys. The surveys furnish topographic and planimetric information from which engineering and planning decisions are made. These surveys are also the basis for determining where new buildings, roads, parking areas, and utility corridors should be situated. Our professional surveyors also assist in the construction layout and in verifying conformity with construction contract documents. Updates to property maps and delineation are also routinely conducted.

Along with standard property and topographic survey, Stantec can also provide 3D laser scans of a facility at completion or periodically during construction if specified by the client for permanent archival records.

ENGINEERING AND CONSTRUCTION PHASING

Stantec's success in providing its clients with high-quality projects that are completed on time and within budget is enhanced by our seasoned construction staff. With experience ranging from inspection, tests, and documentation of construction activities at the job site for compliance with specifications to review of shop drawings and certifications from fabricators, manufacturers, and suppliers, our team of engineers is fully capable of managing any type of construction project.

Our engineers, inspectors, technicians, and commissioning personnel are familiar with upcoming construction projects prior to construction. This provides continuity between the office and the work site once construction begins. Construction personnel assist in quality control reviews during the design stage, thus allowing a project to be reviewed from a field perspective to facilitate constructability of the work.

The services of competent construction engineers and inspectors are essential to document that design criteria are met and schedules maintained. When construction begins, construction personnel act as the liaison between the project manager, the client, and the contractor regarding such topics as project direction, quality and cost control, design conformance, scheduling, inspection, and progress payments. The contractor's quality control testing and the methods employed are monitored by our experienced construction engineering staff for adherence to standards. The results are reviewed on-site with the contractor.

The presence of an experienced full-time inspector with periodic engineering oversite is essential to implement the construction plans as developed and approved. Our inspector provides a mechanism to monitor the contract documents and deal directly and immediately with differing site conditions that may affect established phasing and sequencing plans.

Stantec's Buckhannon, WV office will be the base of operations for this project. Planning, surveying, and design work on this proposed project will be completed by Stantec staff from our Buckhannon, WV office with support from our Salt Lake City, UT, Winston-Salem, NC, Lexington, KY, and Columbus OH, offices. Project QA/QC services, and construction management services will be provided by our Accredited Construction Materials and Testing Laboratory in Buckhannon, WV with Commissioning support from our Hauppauge, NY, office. Additional assistance, if needed, will be provided from other Stantec offices.

Stantec will provide architectural/engineering planning, design, construction management, commissioning, and ancillary consulting services for all phases of the Canaan Valley Resort State Park Ski Area and other Improvements project including all items required by the solicitation and final scope of services agreement.

RESUMES OF KEY PERSONNEL AVAILABLE FOR THE PROJECT

One of the most important factors in the success of any project, or provision of any professional service, is the experience and qualifications of the key personnel who would be involved in the project. Note that individuals perform services, and firms provide support for these individuals. The proposed organization chart and resumes of key people who are currently available for assignment to the proposed project are included in **Section III** of this response to the EOI solicitation.

PROPOSED PROJECT MANAGEMENT PLAN

We have outlined below our initial approach to complete the proposed project successfully.

Pre-design: After selection of our firm to provide services on the project we will proceed as follows:

1. Our key project representatives will schedule a Pre-Design meeting with representatives of the WV Division of Natural Resources, Parks and Recreation Section (hereinafter designated as the Agency), other appropriate agencies, and any others parties that are required. The purpose of this meeting is: to introduce ourselves; to discuss project design, constraints, any desired LEED criteria to be incorporated in the design, project schedule and other relevant items; to prepare a listing of information to be furnished by the Agency and/or other parties; and, to note the need for any special services to be provided. Information obtained from this meeting will be used to prepare our detailed work scope and requested fee. We will also discuss identification and passes, and environmental impact inspections required relative to the proposed improvements.

2. Inspect the existing site, any obstructions, the specific improvements required, and discuss the order in which the work should be accomplished.

3. Obtain a copy of any existing plans, reports, and other documents pertinent to the area that will be impacted by design and construction for review and reference.

5. Prepare and submit a detailed work scope with a schedule and fee proposal. If necessary, make revisions to the scope of work, fees and schedule.

6. Execute an agreement for the proposed work.

Preliminary Design: Once an agreement has been executed, complete the following services:

1. Notify the West Virginia Utility Protection Service (MUWV) of the proposed project and request that they identify any public utilities within the proposed work area. Request that the Agency identify and mark private utilities within the proposed work area.

2. Conduct preliminary geotechnical review of the site and determine the number and approximate location of borings and subsurface sampling/testing needed, including the preparatory work required to determine the most suitable aquifer and location for development of a new water well. Prepare a geotechnical boring, testing and sampling plan. If required, provide environmental inspection of the proposed project site. Check for impacts to existing streams and wetlands, floodplains, endangered species, biotic communities, essential fish habitat, farmland, migratory birds, parks or refuges, hazardous materials, surface transportation, water quality, conduct an archaeological and historic resource survey of the areas that will be disturbed. Check the latest EPA air quality compliance maps and determine if the project will adversely impact an area that does not meet air quality standards. Check compatible land use, construction impacts, energy supply and natural resource use, environmental justice, potential adverse noise and light impacts, and other factors that might cause the proposed project to be controversial. Make recommendations regarding any environmental issues that may require mitigation as part of the project.

3. Conduct a topographic survey to obtain existing ground elevations, culverts, structures, light fixtures, pavement edges, utility lines, and other objects within the proposed work areas which will be required for design. Stakeout boring locations.

4. Obtain soil and rock samples. Test the samples to determine critical strength and other design properties. Prepare geotechnical recommendations and report. Use this information to properly design proposed foundation, pavement, parking sections, and water well development location. Review the benefits of each alternative design with the Agency.

5. Discuss access to the site for construction with the Agency and prepare a Safety and Phasing Plan. Review the plan with the Agency. Make any revisions requested. Submit the plan for review and approval.

6. Prepare preliminary plans that show the general design of the project, such as horizontal and vertical alignment, general notes, estimated items of work, and details. Include alternates for parking lot pavement design. Prepare draft specifications and bid documents. Discuss and determine the specific contractor liquidated damages amount.

7. Prepare a preliminary estimate of construction costs.

8. Submit copies of the preliminary documents to the Agency and review the documents with them.

Final Design: Once the preliminary design has been reviewed and we have been authorized to proceed with final design we will complete the following services:

1. Prepare final drawings consisting of a title sheet, general notes, an estimated quantity table, plan/profile sheets, cross sections, drainage and grading plans, marking and lighting plans, detail sheets, and other drawings, as required.

2. Prepare final Specifications and Bidding Documents containing the Legal Notice, Information To Bidders, Bid Form, Bid Guaranty forms, Contract Form, Bond forms, General Provisions, Special Provisions, Detailed Provisions, and other documents required for the proposed project. We will obtain a copy of current federal and/or state prevailing wage rates prior to bidding.

3. Prepare a final estimate of construction costs.

4. Submit copies of these documents to the Agency and review the documents with them. Make any required revisions.

Bidding: After authorization to proceed with the Bidding, we will:

1. Update our opinion of probable construction cost.

2. Provide a copy of the Legal Notice to the desired newspapers, and mail or FAX a copy to prospective bidders.

3. Print and distribute sets of Final Plans, Specifications and Bidding Documents to prospective bidders.

4. Issue any addenda as appropriate to interpret, clarify or expand the Plans, Specifications and Bidding Documents.

5. Schedule and conduct a Pre-Bid meeting with the Agency, other Authorities, and prospective bidders to discuss the Project, Plans, Specifications and Bidding Documents.

6. Attend the bid opening, prepare bid tabulation sheets, and assist the Agency in evaluating bids.

Construction Administration: After authorization by the Agency, we will provide the following services:

1. Prepare the required construction contracts using forms included in the Bid Documents, and forward them to the selected contractor(s) with all remaining forms that need completion. Review executed contract, insurance certificates, worker's compensation certificate, and executed forms for compliance with the project requirements. Bind all contract documents and forward them to the Agency for execution.

2. Schedule and conduct a Pre-Construction Conference with the Agency, the Contractor, the Contractor's testing representative, Stantec's Project Construction Inspector, and federal and state authorities, as applicable.

3. Prepare a Notice-To-Proceed, listing the completion date and any liquidated damages that may potentially be assessed for Agency approval and issuance.

4. Make engineering/architectural visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the Contractor's work.

5. Issue necessary interpretations and clarifications of the Contract Documents and in connection therewith prepare work directive changes and change orders as required.

6. Review and approve (or take other appropriate action in respect of) Shop Drawings, certifications, samples and other data which the Contractor is required to submit.

7. Evaluate and determine the acceptability of substitute materials and equipment proposed by Contractor.

8. Obtain proctor tests for existing soils and proposed aggregates. Test proposed aggregates for gradation. Perform density testing of subgrade. Perform daily gradation tests on aggregates delivered to the site, and density tests on in-place aggregates. Inspect and test hydraulic cement concrete production and placement, asphalt mix production and placement, masonry, and other construction materials, to verify compliance with specification requirements. Obtain cores of in-place asphalt and or hydraulic cement concrete for testing when required.

9. Review, for compliance with the plans and specifications, shop drawings, and supplier's/manufacurer's certifications of materials and fabricated items, furnished to the contractor for incorporation into the work.

10. Determine the amounts owing to Contractor and recommend payments.

11. Obtain and review reproducible record prints of Drawings showing those changes made during the construction process from the contractor.

Project Inspection: During construction, provide the following services:

1. Provide a qualified and experienced construction inspector at the site full time during construction.

2. Keep a daily record of construction activity, weather, equipment, and labor on the site.

3. Make all required acceptance tests, and verify that all required quality control tests are being made by Contractor.

4. Verify use of materials that have been approved for the project.

5. Communicate deficiencies in materials or workmanship with the contractor.

6. Provide professional commissioning services for all installed systems in accordance with agreed upon Agency requirements.

7. Conduct a final punch-list inspection of the each completed part of the project with the contractor, representatives of the Agency, and representatives of other appropriate authorities/organizations. Provide contractor and Agency a copy of items requiring correction, if any.

8. Prepare and submit the project closeout report, complete with as-built plans and all documents and photographs of construction, subsequent to correction of punch list items at completion of the project, if any.

QUALITY CONTROL/QUALITY ASSURANCE

Stantec's Project Management (PM) Framework mandates compliance on all Stantec projects/contracts with the requirements of our ISO9001:2008 registered Quality Management System.

Quality control of construction materials and work is outlined in the proposed project management plan hereinbefore noted.

Project cost control is rigorously pursued by our designers during each phase of the work. These efforts include comparison of alternate design costs, alternative materials costs, and construction bid alternates, with final decisions based on whether the completed project will fulfill the client's requirements.

We are pleased with this opportunity to establish a working relationship with the West Virginia Division of Natural Resources, Parks and Recreation Section.

Should any questions arise, or if we can supply additional information or be of further service to you, please contact me by e-mail at garland.steele@stantec.com or Herbert Parsons, PE at herb.parsons@stantec.com. Alternatively contact Herbert Parsons by telephone at (304) 997-9727 or (304) 472-7140 ext. 103, or me at (304) 545-3768.

Yours very truly

STANTEC CONSULTING SERVICES INC.

Garland Steele, P.E., P.S., FASCE
QA/QC Engineer

Tel: (304) 722-3951
Fax: (304) 472-6239
garland.steele@stantec.com

gws:vb

SECTION II

Overview and Selected Area Practice Profiles

Company Overview

Stantec

Stantec, founded in 1954, provides professional consulting services in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics for infrastructure and facilities projects. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions. We support public and private sector clients in a diverse range of markets, at every stage, from initial concept and financial feasibility to project completion and beyond.

In simple terms, the world of Stantec is the water we drink, the routes we travel, the buildings we visit, the industries in which we work, and the neighborhoods we call home. Stantec's infinite solutions together with our clients' concepts, needs and ideas provide successful project delivery.

Our services are offered through over 10,000 employees operating out of more than 150 locations in North America. Stantec trades on the TSX and on the NYSE under the symbol STN. The list on the right identifies the practice areas provided by the firm.

Firmly committed to continuous innovation, Stantec adopts a fully integrated approach to projects. Our multidisciplinary practice areas serve public and private sector clients in a diverse range of markets.

Our West Virginia office (Buckhannon) is staffed with a diverse group of experienced engineers, surveyors and inspectors .The following pages provide additional information on the variety of services that we provide.

Practice Areas:

- Architecture & Interior Design
- Buildings Engineering
- Facilities Planning & Operations
- Surveys/Geomatics
- Environmental Infrastructure
- Environmental Management
- Environmental Remediation
- Geotechnical Engineering
- Bio/Pharmaceuticals
- Manufacturing
- Mining
- Power
- Resources
- Program & Project Management
- Strategic Management
- Infrastructure Management & Pavement Engineering
- Transportation
- Transportation Planning & Traffic Engineering
- Commercial Program Development
- Construction Administration
- Planning & Landscape Architecture
- Urban Land Engineering

SUSTAINABILITY AT STANTEC

At Stantec, we're helping advance sustainability in rural and urban communities across North America through integrated planning and design processes.

The process starts with working with our clients to establish a vision through interactive stakeholder engagement processes, informed by in-depth industry and technical knowledge. We then translate this information into official plans, bylaws, sustainability planning documents, and development concept plans that reflect a strong understanding of the organizational culture, within a framework of sustainability.

These working documents help establish targets and chart investment planning over short and long-term horizons. Just as importantly, they establish a roadmap for the sustained well-being of a community by identifying strategic pathways and actions which address the full range of development, quality of life, and infrastructure issues—such as facilities inventories, transportation systems, open space plans, water conservation, and waste management—through a sustainability lens.

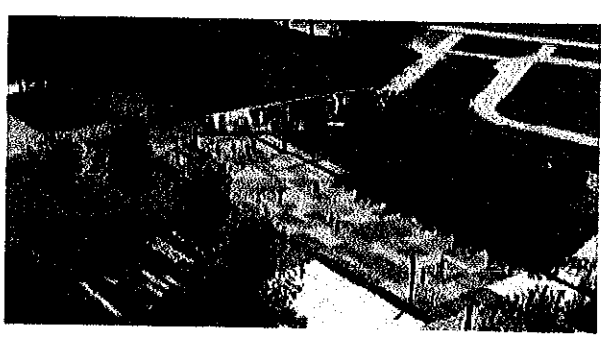
Stantec offers:

- An integrated community sustainability planning process which includes baseline assessments, strategy development, creative engagement, implementation, and monitoring
- Extensive experience in developing climate change strategies, policies, and programs for communities and regions
- Integrated development processes for the planning and design of neighborhoods, Brownfield and Greenfield sites, waterfronts, and infill sites
- A proven consultation and facilitation track record with stakeholders and the public, including large and diverse groups of participants
- Seasoned managers who keep projects with multiple deliverables and tight timelines on-budget and on-schedule
- Versatile staff with specialized knowledge in management, planning, design, economics, buildings and energy performance, greenhouse gas emissions, land planning and environmental management, and natural resources

LEED® ND, Master Planning, and Land Development

Development is intrinsically entwined with fiscal, environmental, social, and cultural factors. Proactive communities know that smart development creates economic opportunities while also protecting and enhancing the environment and human health and well being. That's why Stantec helps clients to address development through a sustainability lens, while applying targeted experience as needed. This approach is grounded in thorough knowledge of principles and design practices related to livable, resilient, and sustainable communities. Through urban design, landscape architecture, and master planning, we apply sustainability concepts, policies, and regulations "on-the-ground" through Integrated Design Processes that focus on:

- LEED for Neighborhood Development (LEED®ND)
- Transit Oriented Developments (TODs)
- Neighborhood concept plans and master plans
- Sustainable landscape architecture and public Realm design
- Downtown revitalization plans
- Brownfield/infill redevelopments

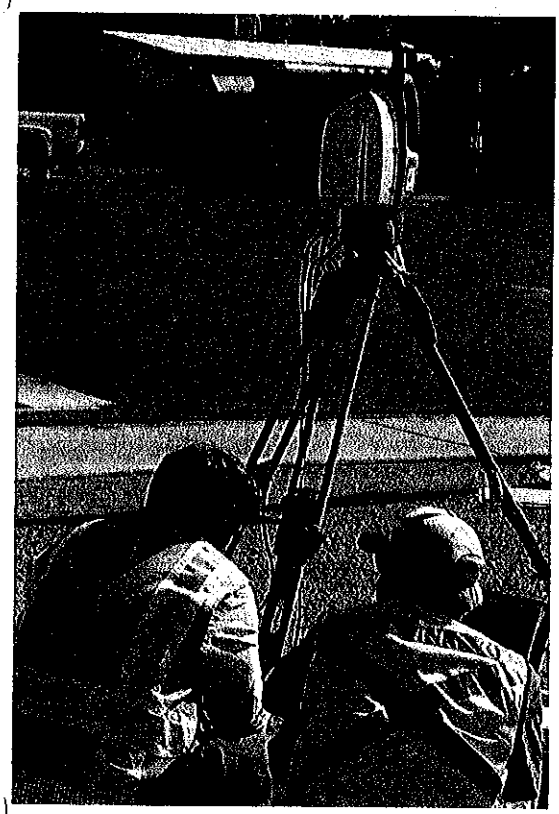


SURVEYS/GEOMATICS

Stantec provides the full range of surveys/geomatics services encompassing the measurement, layout, representation, analysis, management, retrieval, and display of spatial information describing the earth's physical features, land parcel boundaries, and the built environment. The expertise of Stantec's professional and technical surveys/geomatics staff is applied to services including boundary and cadastral surveys, ALTA/ACSM, topographic mapping, construction stakeout, geodetic and control surveys, route surveys, as-builts, water rights, and hydrographic surveys, as well as subsurface utility engineering (SUE), Geographic Information System (GIS) services, and 3D laser scanning. Specialized services include environmental surveying in support

of projects involving remediation, landfills, unexploded ordnance, vegetation and habitat, wildlife, wildfire burns, wetlands, and more.

Stantec's comprehensive surveys/geomatics services can be performed on a wide range of projects focusing on residential, commercial, industrial, transportation, utility and power, recreational, environmental, and institutional projects for public and private sector clients. Our staff is capable of effectively performing work in locations that range from major urban settings to the most remote and challenging environments by considerations inherent in each situation.



3D Laser Scanning

3DLS uses scanning instruments to transmit laser light and collect reflected return data, which is then processed to generate information about a target's surface. Stantec uses land based scanning techniques to produce 3D topographic visuals of the ground surface and the constructed environment. 3DLS uses "time of flight" measurements between the instrument and the target surface, creating myriad 3D points that are then analyzed and processed to create a highly accurate map product.

Stantec's 3DLS capabilities and experience are regularly used to serve public and private sector clients throughout North America.

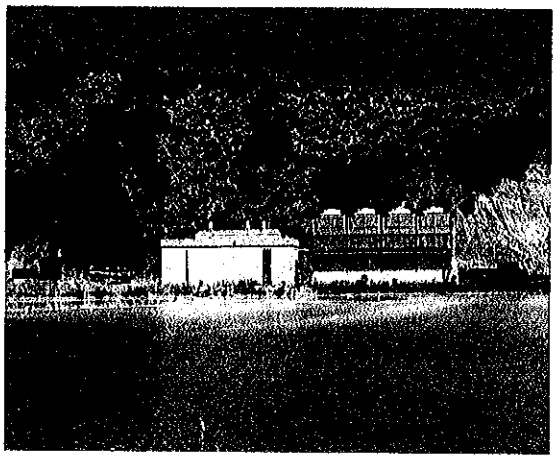
CONSTRUCTION SERVICES

Stantec offers complete construction management, scheduling, pay reviews, quality assurance monitoring, and construction observation on all types of transportation capital improvement projects. We provide quality control services that include project reviews, contractor quality control programs, and more, while our materials testing program encompasses testing of concrete, soils, asphalt, masonry, steel, and other building materials. Geotechnical support, pavement investigation, failure analysis, and concrete and asphalt mix design are some of our many services which assure our clients that materials meet the demands of the project design.

We are accredited by the American Association of State Highway and Transportation Officials (AASHTO) and assessed by the Cement and Concrete Reference Laboratory (CCRL) and continue to participate in proficiency sample testing and accreditation programs. Stantec laboratories adhere to ASTM E329, ASTM C 1077 and ASTM D3666 for tests of concrete, steel, and bituminous materials; ASTM D3740 and ASTM E543 for testing and inspection of soils and rock, as well as non-destructive testing; and ASTM E548 for all work not in connection with concrete, steel, bituminous materials, or non-destructive tests.

Stantec also provides special programs for concrete and asphalt paving to avoid construction delays on time-critical projects. Our construction services complement project designs by delivering them within an approved schedule, assuring our clients that construction adheres to the project design documents, and that earthworks and materials comply with regulations and codes. Our experienced personnel offer many years of insight in reviewing construction documents throughout the design process to avoid costly project changes during construction.

Mountain Resort Solutions



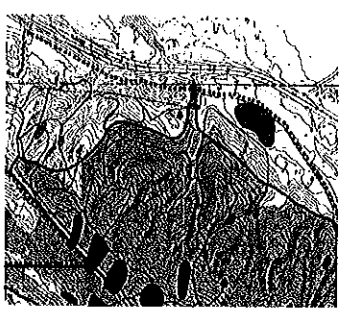
The development of successful Mountain Resort facilities is most effectively approached through a collaborative commitment to the sustainable management and use of our environmental resources. Such projects encompass a diversity of technical, societal, political, and economic communities, the multidisciplinary and multisectoral interests of which must be addressed.

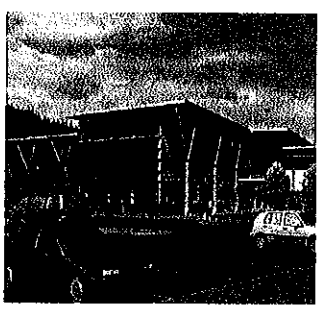
Stantec provides efficient, sustainable solutions for all aspects of Mountain Resort facilities. As a valuable member of their project team from project inception through to construction, clients find comfort in our consistency and continued familiarity with their projects.

Offering integrated services that support the planning, design, and construction of a project allows us to be involved at project conception and remain as the clients' principal consultant for the duration of the project, introducing a stability that ultimately helps assuage the project stakeholders and public interest groups.

The complexities associated with understanding the specific needs of Mountain Resort facilities—their dependencies, threats, vulnerabilities, and conflicts—are significant and, like many planning initiatives, require coordinated teamwork of experienced, dedicated professionals. Effective projects of this nature are completed by professionals with demonstrated knowledge in various facets of the project.

Stantec's breadth of talent and ability to effectively assemble integrated teams and take on complex projects are ideally suited to undertaking the planning and development of Mountain Resort facilities, as demonstrated through our listing of select project experiences included in this package.





Mountain and Resort Planning

- Master plans
- Site planning
- Aerial tramway feasibility studies
- Master development plans
- Strategic plans and capital improvement planning
- Capacity and density analysis
- Ski-in/ski-out ski run planning

Resort Environmental Management

- Wetland delineation
- Erosion control and revegetation
- NEPA compliance
- CEQA compliance
- Stormwater compliance
- Visual simulations
- GIS mapping and analysis
- Regulatory affairs assistance, planning, and zoning

Resort Engineering

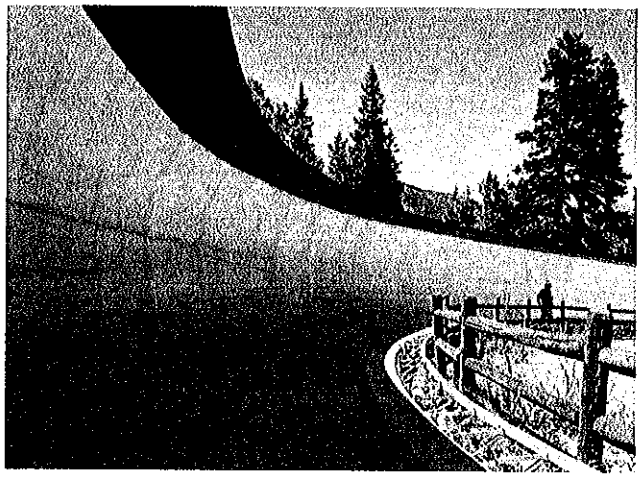
- Water system design
- Wastewater system design
- Water storage design
- Snowmaking pond design
- Water rights analysis
- Well location and design
- Snowmaking pump system design
- Small dam design
- Ski in/ski out bridges and underpasses

Architecture

- Hotels and lodges
- Base area facilities

Landscape Architecture

- Entrance features, signage, and fences
- Hardscape design
- Natural revegetation
- Visual impact assessments



Snowbasin Ski Area - New Source Development

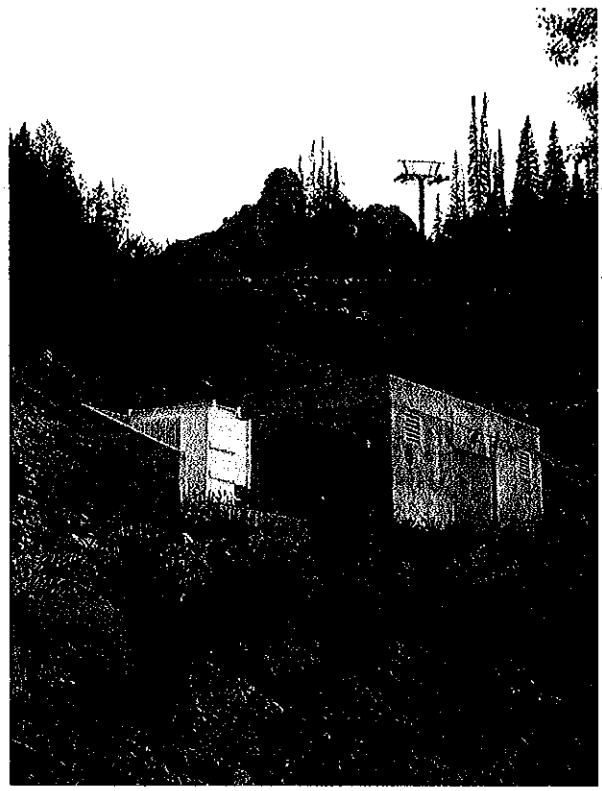
Huntsville, Utah

Stantec

Stantec performed a detailed hydrogeologic evaluation, well siting investigation, and production potential evaluation of the principal aquifers based on well performance testing operations.

Stantec was involved with developing a long-term sustainable groundwater source to meet the snowmaking, irrigation, and potable demands of the Snowbasin development. Tasks included management, water right assistance, design, field reconnaissance, and construction oversight.

A staff of five field geologists and hydrogeologists worked on the test hole program and subsequent well drilling operations. The findings of the test hole program were successful in siting large-scale production wells with the potential for long-term production at sustainable yields. The test hole program included five borings, totaling over 7,200 feet of drilling. The first phase of production well drilling included the design and installation of three large-diameter production wells, totaling over 5,800 feet of drilling.



Client: Sinclair Oil Corporation
Completed: 1999

One Team. Infinite Solutions.

Why Choose Stantec

Why choose Stantec for your Mountain Resort facility?

We are committed to supporting our communities through the enhancement of knowledge, prosperity, health, and quality of life. With strategic perspective and detail-oriented focus, we enhance our clients' ability to achieve goals and objectives by providing professional consulting and management services.

Our approach involves seamlessly integrating specialists in interactive teams who focus on providing sustainable solutions to unique project challenges. Our macro level planning and programming skills, complimented by our technically oriented experience, are ideally suited to the planning and development of Mountain Resort facilities.

Our services align to the philosophy that every resort plan demonstrating wise resource management must provide appropriate risk identification, assessment, protection, mitigation, and management. Addressing all levels of risk can result in a safe, environmentally responsible facility that delights visitors for decades.

We provide our clients with the best of our knowledge and experience in delivering professional services. Our specialized teams offer practical solutions tailored to today's ever-changing regulatory environment.

Client support at every stage, from initial project concept to project completion and beyond.

SECTION III

Project Personnel

Key Personnel

We believe Stantec presents a consulting engineering team second to none in terms of depth of resources available. This team possesses the technical expertise and management experience to deliver a successful project, on time and budget. Our firm is able to offer comprehensive, rapid, cost effective delivery of all disciplines necessary to complete this project. The following describes the attributes of our Key Technical Personnel; summary resumes provided at the end of this SOQ highlight their relevant experience and qualifications.

Gregory Linder, PE, - Design Engineer
Mr. Linder has a diverse experience in civil and environmental engineering. His experience includes design, inspection, evaluation, and rehabilitation of structures; hydrologic and hydraulic analyses and performing environmental studies. His role in this project will include coordination of design, preparation of contract specifications and contract documents quantity and cost estimates, permitting, shop drawing review, an d resident construction observation.

Peter Avetta, NCARB, AIA, LEED®AP - Architect
Mr. Avetta designed and observed the construction of over 1.4 million square feet of buildings Several of these projects used the fast-track, design-building delivery methodology. Mr. Avetta has over 30 years of professional experience with a wide variety of experience which allows him to provide clear guidance and positive team leadership to successfully navigate our clients through the entire design and construction process.

Joseph E. Looby, ASLA
Mr. Looby has been applying his talents to projects for over 20 years. His experience in combining the creativity of landscape architecture with the technical knowledge of civil, transportation, and site development engineering makes him ideally suited to lead a team of professionals in a variety of planning efforts.

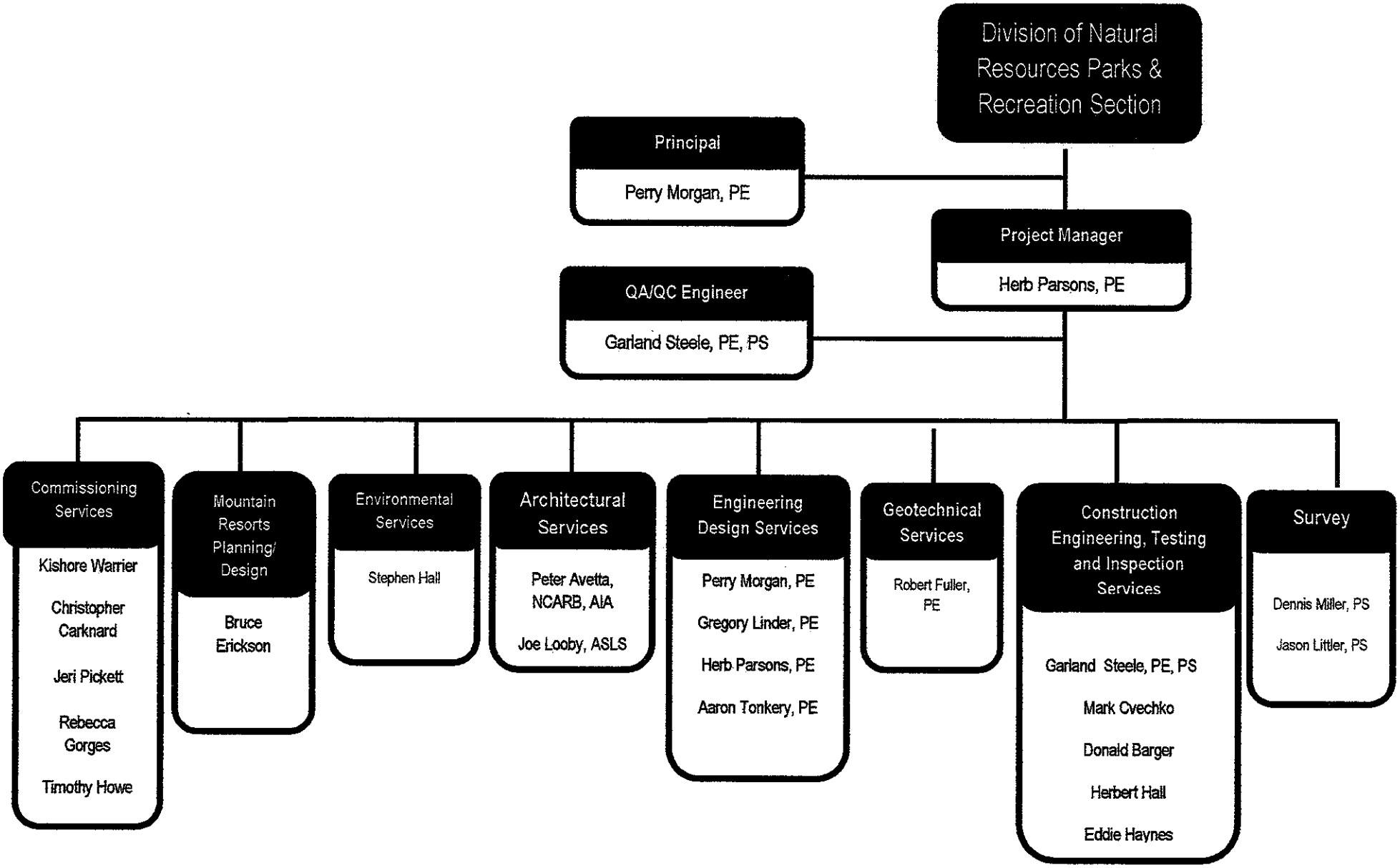
Kishore Warrier - Director of Commissioning/Compliance
Mr. Warrier has over a decade of professional experience related to commissioning. He has extensive knowledge of the coordination required for the commissioning/validation process of a project, and has worked extensively with various client's engineering, technical services, and quality departments.

Herbert L. Parsons III, PE - Project Manager
Mr. Parsons will act as the single primary contact for this contract to facilitate and coordinate the project. With nearly 16 years of professional experience, Mr. Parsons has a broad experience base with extensive management expertise leading complex teams to deliver high-quality land development projects for a diverse range of public and private sector clients. Responsible for all phases of project development from conceptual design, to construction plans and construction administration.

Garland Steele, PE, PS - QA/QC Engineer
Mr. Steele has over fifty years of experience in the fields of construction services and engineering design. He provides engineering supervision of the construction services department, which performs construction services for federal, state, and local government agencies, private sector projects, field observation, testing, and inspection of infrastructure installations. He will provide QA/QC engineering services during the planning and design phases of the project, and engineering supervision of the construction management, inspection, and testing phase of the project.

Dennis Miller, PS - Project Surveyor
Mr. Miller has 22 years of experience in Surveying and environmental management. His role in this contract will be to oversee the Survey operations.

Bruce Erickson – Resort Planner
Mr. Erickson brings over 28 years of international resort and tourism planning experience to resort and tourism planning efforts. Over the course of his work, he has been responsible for the design, management, approvals, and environmental requirements for more than 100 resorts and large-scale development projects.



RESUMES OF KEY PERSONNEL AVAILABLE FOR THE PROJECT

One of the most important factors in the success of any project, or provision of any professional service, is the experience and qualifications of the key personnel who would be involved in the project. Resumes of the key people who are currently available for assignment to the proposed project are included herein.

Perry Morgan, PE

Principal

Stantec

Mr. Morgan has more than 24 years of experience with the planning, design, and operation of transportation systems. He has served in both administrative and engineering capacities on a broad range of transportation projects. Mr. Morgan has a strong background in performing a wide variety of transportation studies. He has particular expertise with corridor and intersection improvement studies.

As Traffic Engineer for the City of Huntington, West Virginia, Mr. Morgan was responsible for the City's traffic control system of signals, signs, and markings. Under his direction the City undertook several efforts to upgrade the City's traffic control system. This included the Huntington Traffic Signalization Project, a $6 million, state-of-the-art project that consisted of planning, design, construction, and operation of 115 signalized intersections. Mr. Morgan also served as Program Director for the Safe Traffic Operations Program (STOP), a highway safety program geared toward reducing traffic crashes which, combined with improvements, resulted in Huntington having the lowest traffic crash severity rating in West Virginia.

EDUCATION

M.S., Civil Engineering/Transportation, West Virginia University, Morgantown, West Virginia, 1986

B.S., Civil Engineering/Transportation, West Virginia University, Morgantown, West Virginia, 1983

REGISTRATIONS

Professional Engineer #10782, State of West Virginia

Professional Engineer #59569, State of Ohio

PROJECT EXPERIENCE

West Virginia Walkability Study, Morgantown, West Vriginia

Directed this project development a Master Plan to identify and prioritize options for increasing walking/biking at the Health Sciences complex and the Fieldcrest Residence Hall and their interface with the campus and surrounding area.

Alum Creek West Development, Columbus, OH

This traffic impact study covered the Rickenbacker Alum Creek West development. The traffic impact study included an analysis of the proposed development sites and adjacent roadways, including traffic projections for the developments, analysis of four intersections, and recommendations for improvements to the intersections and roadways. The study was undertaken in two stages, with the first stage showing short term developments and associated traffic requirements, and the second showing full development of the site and associated traffic requirements.

Brown McCausland Traffic Impact Study, Point Pleasant, WV

Mr. Morgan was responsible for a traffic impact study for a proposed 87-acre development adjacent to the US 35/SR 2 interchange, including traffic analysis of the proposed development, review of traffic projections, capacity analyzes, and access studies.

Banc One Corporate Center, Columbus, OH

This project involved design, plans, and specifications for the construction of two traffic signals for the Banc One Corporate Center. One signal was designed for the intersection of Polaris

at the main entrance driveway, and the other was at the intersection of Sancus Boulevard and Banc One Drive. The design of these signals accommodated future expansion of the City of Columbus Polaris Parkway traffic signal system. The traffic signal at Polaris and Polaris Parkway is demand actuated. The signal at the Sancus driveway is demand actuated during lunch and afternoon peaks, and yellow flash at other times.

Downtown Improvements, Huntington, WV

Project Manager for evaluating and designing improvements to three main downtown corridors; 3rd and 4th Avenues, and 9th Street. This project involved analysis of changing 3rd Avenue from one-way to two way operation and streetscape and roadway improvement design.

Mall Road Design Study, Cabell County, WV

Mr. Morgan co-managed this project that developed improvement solutions for access to the Huntington Mall from I-64 and US Route 60. The original scope of this project was to evaluate widening Mall Road. The study resulted in recommending construction of a parallel roadway to the west, as well as completion of an Interchange Justification Study for new access to the Interstate.

Williams Road Corridor Study, Columbus, OH

This study that included traffic counts, capacity analyzes, traffic data analysis, traffic control concept plans, annual growth rate projections, a review of alternative typical sections, profile and drainage for widening or reconstruction, and preliminary design of the proposed improvements. As part of this study AM and PM intersection turning movement counts were performed along with 24-hour machine counts.

Liberty Square II Shopping Center, Teays Valley, WV

This study was performed to identify the roadway requirements needed to handle the traffic generated by a thirty-acre parcel of land located east of the existing Liberty Square/Putnam Village shopping center which as under development.

Sun Mountain Resort, Mt. Hope, WV

The planned development of 141-acre parcel of land located on the west side of US 19 required a transportation study of a half-mile stretch of US 19. The study was performed to determine the impact of this development on US 19. The main purpose of the study was to identify the roadway requirements needed to handle the traffic generated by the site.

Africa Road Corridor Study, Westerville, OH

Interstate 270 & Alum Creek Drive Interchange Justification Study, Columbus, OH (Project Manager)

Interstate 81 & Dry Run Road Interchange Justification Study, Martinsburg, WV

Interstate 64 & Huntington Mall Interchange Justification Study, Huntington, WV

Marietta Intermodel Hub Feasibility Study, Marietta, OH

An intermodal hub with facilities was studied to determine if it could serve the needs of the commercial, tourist, recreational and public transit users. (An intermodal hub is a place where various modes of transportation – i.e. buses, automobiles, bicycles, river traffic, etc.- converge, and people are able to easily and safely transfer from one mode to another.) Solutions to any deficiencies identified were presented as a part of this study.

Gregory Linder, PE

Stantec

Mr. Linder has a diverse experience in project management and civil engineering. Since May of 1998, his primary responsibilities have included the design, inspection, evaluation, and rehabilitation of highway and railroad bridges; secondary responsibilities have included all aspects of roadway design, hydrologic and hydraulic analyses, and performing environmental studies.

Mr. Linder has been involved with the engineering design and/or inspection of 52 bridges, including highway, railway, and pedestrian bridges. He has designed bridge structures for large, governmental clients, as well as smaller governmental units and private sector organizations. Several of these projects have been "high profile" projects, allowing Mr. Linder the experience of working under intense public scrutiny. In addition to bridge design, Mr. Linder has been involved with nearly 30 miles of roadway design, floodplain evaluation projects, streambank protection projects, site development projects, and environmental projects.

EDUCATION

B.S., Civil Engineering, West Virginia University, Morgantown, WV, 1998

B.S., Biology, Fairmont State College, Fairmont, WV, 1993

Natural Stream Design Level I, II, III, and IV Certified, West Virginia Division of Highways

REGISTRATIONS

Professional Engineer #15629, State of West Virginia

Professional Engineer #24326, Commonwealth of Kentucky

Professional Engineer #PE074078, Commonwealth of Pennsylvania

PROJECT EXPERIENCE

Bridges

- US Route 35, Mason County, WV
- Mile Branch Truss Bridge, McDowell County, WV
- Upper Tract Bridge, Pocahontas County, WV
- Mon/Fayette Expressway, S.R. 0043, Section 52G, Washington County, PA*
- Allegheny County Bridge Inspection Program, Allegheny County, PA* Cranberry Interchange, Butler County, PA* Regional Transit Authority*
- S.R. 0056 over Stony Creek, Cambria County, PA*
- S.R. 0309 over Church Road, Montgomery County, PA*
- Star City Bridges (WV Route 7) Over the Monongahela River, Monongalia County, WV*
- Bridge Design Group H, Allegheny County, PA*
- PA Route 28, Galleria Mall Interchange, Allegheny County, PA*
- S.R. 0022 over Stony Run, Westmoreland County, PA*
- Sharon Heights Connector, Span Arrangement Study, Mingo County, WV*
- Bridge Design Group B, Allegheny County, PA*
- NJ Route 18 Extension, Section 2F, New Brunswick, NJ*
- NJ Route 18 Extension, Section 2F, New Brunswick, NJ*
- North Shore Connector, Aerial Structure, Allegheny County, PA*
- S.R. 836 Extension From NW 107th Avenue to NW 137th Avenue, Miami-Dade County, FL*
- Rail Rehabilitation Project, Akron and Canton, OH*
- Headsville Bridge Replacement, Mineral County, WV*

Roadways

- U.S. Route 35, Mason County, WV
- Appalachian Corridor H, Davis to Bismark, Tucker and Grant Counties, WV
- Weatherford Industrial Access Road, Upshur County, WV
- Greenland Gap Wind Project, Grant County, WV
- King Coal Highway, Mingo County, WV*
- U.S. Route 33 (Nelsonville Bypass), Hocking and Athens County, OH*

Floodplain Management

- Spencer Hydraulic Study, Roane County, WV
- Coalwood Floodplain Improvement, McDowell County, WV
- Rachel Floodplain Improvement, Marion County, WV
- Krout Creek H&H Investigation, Wayne County, WV
- Parsons First Baptist Church H&H Study, Tucker County, WV
- Martin Oil Company H&H Study, Lewis County, WV
- Freemans Creek H&H Study, Lewis County, WV

Site Development

- Texas Roadhouse, Wood County, WV
- CGP Development, Barbour County, WV
- Talcott Elementary School Site Design, Talcott, WV
- Buckhannon-Upshur High School Site Improvement and Drainage Project, Buckhannon, WV

Stream Restoration and Streambank Protection

- Laurel Lake Sediment Removal Project, Mingo County, WV
- Parchment Valley Streambank Protection, Jackson County, WV
- Berger Slope Failure, Brooke County, WV
- Fisher Landslide Stabilization, Jackson County, WV
- Cairo Streambank Protection, Ritchie County, WV
- Barkers Creek Streambank Protection, Wyoming County, WV

Environmental

- Glady Fork Mining Inc., Permit D-35-82, Upshur County, WV
- Enterprise/I-79 Connector, U.S. Route 19 to I-79, Environmental Assessment, Marion County, WV* . Southern Beltway, Allegheny and Washington Counties, PA*
- Enterprise/I-79 Connector, U.S. Route 19 to I-79, Biological Assessment, Marion County, WV*
- Meldahls Undercut Site, Wood County, WV*
- C&O Flats, Staunton, VA*
- Nelsonville Bat Survey, Athens County, OH*
- North Fork Watershed Management Plan, Pendleton and Grant Counties, WV
- Environmental Assessment, Deegan Lake Dam Rehabilitation and Hinkle Lake Dam Breech, Bridgeport, WV*

** denotes projects completed with other firms*

Garland Steele, PE, PS

Stantec

Mr. Steele has over 50 years of experience in civil engineering with a special emphasis on materials, soils, pavements, forensics, quality assurance, geotechnical exploration and design, construction inspection, and contract administration.

His experience includes in-depth field experience for the implementation of research findings; in-depth experience with a State Department of Transportation program for materials sampling and testing, materials and pavement specifications, structural steel inspection and testing, and soil and rock mechanics exploration, testing and design; in-depth experience with State Department of Transportation maintenance and construction operations; an understanding of the training needs for State Department of Transportation personnel in materials, construction, and maintenance; significant contributions to many professional organizations (ASTM, AASHTO, TRB) involved with developing materials criteria; and many years of managing a State Department of Transportation staff responsible for materials and pavement specifications, pavement design, sampling and testing programs, structural steel inspection and testing, and soil and rock mechanics exploration and design.

Mr. Steele also has in-depth experience with the oversight of operations related to the management, recovery, and repairs, required in the wake of emergencies and disasters affecting the West Virginia Highway System. Such incidents included floods, earth movements, winds, structural failures, ice and snow, and other events affecting traffic flow.

EDUCATION

Bachelor of Arts, West Virginia State University,
Institute, West Virginia, 1976

REGISTRATIONS

- Professional Engineer #3929, State of West Virginia
- Professional Surveyor #1386, State of West Virginia
- Professional Engineer #24347, State of Kentucky
- Professional Engineer #25020, State of South Carolina
- Professional Engineer #0402015191, State of Virginia

Certifications

- Concrete Technician (#136), WVDOT, Charleston, West Virginia, 1980
- Aggregate Inspector (#5913), WVDOT, Charleston, West Virginia, 1980
- Asphalt Technician (#159), WVDOT, Charleston, West Virginia, 1980
- Licensed Class B Explosives Permit (#B060119285913), West Virginia, Charleston, West Virginia, 1980

PROFESSIONAL ASSOCIATIONS

- Member, American Concrete Institute
- Member, American Society for Testing & Materials
- Fellow, American Society of Civil Engineers
- Member, National Society of Professional Engineers
- Member, West Virginia Society of Professional Surveyors
- Standing Committee on Research (Past Member), American Association State Highway and Transportation Officials
- Subcommittee on Materials (Past Vice-Chairman), American Association State Highway and Transportation Officials.
- Transportation Research Board, Construction Section (Past Chairman)
- Transportation Research Board, Design and Construction of Transportation Facilities Group Council (Past Member)

EXPERIENCE

Design Team Engineer (Typical Examples)

- Buffalo Bridge, Project S340-62-20.63, Putnam County
- Upper Tract Bridge, Project S336-220-27.55, Pendleton County

- Mile Branch Bridge, Project S324-80/2-0.02, McDowell County
- Couch to Coast Guard Station, Project U327-35-14.07 00, Mason County
- Pope Properties at Cross Lanes Development
- Water Distribution System, Kanawha County
- Pope Properties at Cross Lanes Development
- Waste Water Collection System, Kanawha County

Geotechnical Engineering (Typical Examples)

- Fisher-Mill Creek Bank Stabilization (10-04), Jackson County
- *Survey, Design, and Construction Inspection*
- Hendrickson Subsidence Investigation
- *AML Project*
- Laurel Lake Sediment Removal Project, Mingo County
- *Survey, Design, and Construction Inspection*
- Nixon Run, Harrison County *AML Project*
- North fork Hughes River-Stream Bank Stabilization, Cairo, Ritchie County, West Virginia
- Old Bridgeport Hill Mine Drainage, Phase II Plans Modification, Harrison County, West Virginia
- *Harrison County-Near Bridgeport, Clarksburg – Design AML Project, P. O. #12373A*
- Sauls Run Strip and Landslide Project (7-2004), Lewis County, West Virginia
- Weaver Portals and Mine Drainage, Randolph and Barbour Counties
- *AML Project, P. O. #DEP12578, Survey, Design*

- Parchment Creek Stream Bank Stabilization
- Rt. 30/5, Jackson County
- Summit Park Waterline Feasibility Study
- Tunnelton (Dillsworth) Landslide, Preston County

Survey Team Engineer (Typical Examples)

- Earling to Rich Creek, Project S323-10-8.61 05, Logan County
- Rita Bridge to Midway, Project S323-10-8.61 07, Logan County
- King Coal Highway Project, Nicewonder Contracting, Inc. , Mingo County
- Joe Pope Parcel 10.1 Development, Kanawha County

Construction Administration Services (Typical Examples)

- Alaska DOT
- Marshall County Airport Authority
- Transportation Research Board*

WV DOH

- Corridor H, Project X316-H-100.40 07, Hardy County
- Construction Inspection and as-needed Surveying
- Davis Creek I64. Project U320-64-49.73 04, Kanawha County
- Construction Inspection
- Culloden Overpass, Project S340-60.03, Cabell County
- Construction Inspection
- District 10, Bridge, Roadway, and Building Projects, District Wide as needed
- Construction Inspection
- Soil Inspector, Engineering Division (1955-1957)*
- Assistant to Chief Soils Engineer/Assistant Chief Soils Engineer (1957-1961)*
- Materials Engineering/Testing
- Chief Engineer of Materials and Tests (1961-1962)*
- Assistant Director, Materials Control, Soil and Testing Division (1962-1965)*
- Director, Materials Control, Soil and Testing Division (1965-1977)*

- Chief Engineer-Operations (1977-1981), WVDOH*
- Construction, Maintenance and Materials Engineer (1981-1985), WVDOH*
- Engineering and special Studies Advisor (1985-1988), WVDOH*
- Strategic Highway Research Program (SHRP)*
- Oil and Gas Field Exploration, Production and Storage Operations (1946 -1955)*
- West Virginia State Road Commission (1945 -1946)*

PUBLICATIONS

"Statistical Considerations in Sampling and Testing".

"Asphalt Concrete Synthetic Reference Sample Program and the LTPP Asphalt Concrete Core Proficiency Sample Program".

"Round I Hot Mix Asphalt Laboratory Molded Proficiency Sample Program

"Round I Type I Unbound "

Type II Unbound Cohesive Subgrade Soil Synthetic Reference Sample Program".

"Type I Unbound Granular Base Synthetic Reference Sample Program".

"Round I Type II Unbound Cohesive Subgrade Soil Proficiency Sample Program".

"Portland Cement Concrete Core Proficiency Sample Program".

"A Dynamic Committee in a Century of Change".

"Roads-Keystone of the Infrastructure".

"Quality Assurance - A System In Practice". *Annual Meeting of the Transportation Research Board*, 1981.

"Development of Practical Performance-Type Specifications". *Tenth Quality Assurance Workshop*, 1977.

"Materials Data Handling Systems (Quality Assurance Systems and Their Development)". *62nd Annual Meeting, AASHTO*, 1976.

* *denotes projects completed with other firms*

Bruce M. Erickson, AICP
Project Planner

Mr. Bruce Erickson brings over 28 years of international resort and tourism planning experience to resort and tourism planning efforts. Over the course of his work, he has been responsible for the design, management, approvals, and environmental requirements for more than 100 resorts and large-scale development projects. Mr. Erickson is currently involved in creating master plans for municipalities and winter resorts in both the United States and Europe, as well as managing the development of ski resorts in Utah, Nevada, California and Montana. His work involved the preparation of NEPA documents under the direction of the US Forest Service. He was the project manager for the land planning of the Utah Winter Sports Park, and planning and environmental consultant to the ski areas for the 2002 Olympic Winter Games. He was also the project manager and lead planner for the Whistler Sliding Centre, bobsled and luge venue for 2010 Olympic Winter Games, Vancouver, Canada. His work also includes the formation of a joint recreation district and Recreation Master Plan for Summit County and Park City, Utah.

EDUCATION

BS, Geography/Urban Planning, St. Cloud State University, St. Cloud, Minnesota, 1978

REGISTRATIONS

Certified Planner, American Institute of Certified Planners

PROFESSIONAL ASSOCIATIONS

Board of Directors, Utah Ski and Snowboard Association

Completed four terms (three as Chair), Park City Planning Commission

Member of the Design Review Committee (DRC), The Canyons Resort Village Management Association

PROJECT EXPERIENCE

Forestry Services
Forest Plan Consulting - Park City Mountain Resort, Park City, Utah (Lead Mountain Planner / Project Manager)

Stantec

Master Drainage Planning
Park City Mountain Resort (PCMR) Master Drainage, Park City, Utah (Project Manager)

Master Planning
Davis Ranch Community Master Plan, Salem, Utah (Senior Planner)

Big Piney Master Plan, Summit County, Utah (Project Manager)

Multi-Unit / Family Residential
The Preserve Phase Three, Summit County, Utah (Project Manager / Lead Master Planner)

Recreation Master Planning
Development Agreement Consultations - Park City Mountain Resort, Park City, Utah (Lead Master Planner)

Resort Development
The Canyons Resort – Iron Mountain Expansion, Summit County, Utah (Lead Mountain Planner / Project Manager)

Silver Star Access Lift, Park City, Utah (Project Manager / Lead Mountain Planner)

Las Vegas Ski and Snowboard Resort Pond 2, Clark County, Nevada (Project Manager)

Motherload Meadows Ski Consultant, Park City, Utah (Lead Mountain Planner)

Garibaldi at Squamish - Project Assessment, Squamish - Province of British Columbia, Ministry of Tourism, Sports and Arts, British Columbia, CANADA (Lead Master Planner / Project Manager)

Alyeska Resort Master Plan, Girdwood, Alaska (Project Manager, Planner)

Park City General Plan Update, Park City, Utah (Project Manager)

Morgan County Planning Assistance, Morgan County, Utah (Project Manager)

Alpine Meadows Resort, Tahoe City, California (Project Manager/Lead Master Planner)

Big Mountain Resort, Whitefish, Montana (Project Manager/Lead Master Planner)

US National Park Service - Technical Reporting*, Marin County, California (Planner)

Telemark Strategic Development Plans*, Norway (Planner)

Snowmass Village Center - Feasibility Plan and Costs*, Snowmass, Colorado (Planner)

Norefjell Resort Master Plan Expansion*, Norway (Planner)

Lost Trail Ski Area*, Conner, Montana (Planner)

Hafjell Alpinsenter*, Lillehammer, Norway (Project Manager/Lead Master Planner)

Deer Valley Resort - Mountain Planning, Park City, Utah (Project Manager/Lead Master Planner)

Bridger Bowl - Master Plan and EIS, Bozeman, Montana (Project Manager/Lead Master Planner)

Utah Winter Sports Park*, Park City, Utah (Project Manager/Lead Master Planner)

Mountain High Ski Area*, Wrightwood, California (Project Manager/Lead Master Planner)

Yabuli*, Northwest China (Project Manager/Lead Master Planner)

Hemavan – Tärnby Ski Areas*, Sweden (Project Manager/Lead Master Planner)

Riksgränsen Resort Village*, Sweden (Project Manager/Lead Master Planner)

Snowbird Ski Resort*, Snowbird, Utah (Project Manager/Lead Master Planner)

Las Vegas Ski and Snowboard Resort, Clark County, Nevada (Project Manager/Lead Master Planner)

The Canyons Resort, Park City, Utah (Project Manager/Lead Master Planner)

Park City Resort Mountain Planning, Park City, Utah (Planner)

Roadways
Southwest Marin County Alternative Transportation Study*, Marin County, Utah (Project Manager)

Sports, Recreation & Leisure
Whistler Sliding Centre, Whistler, British Columbia (Planner)

Middle Kyle Canyon Framework – Utilities Feasibility Studies, Spring Mountains National Recreation Area, Nevada (Project Manager and Lead Planner)

Utah Olympic Park Redevelopment Plan, Summit County, Utah (Project Manager/Project Manager)

The Canyons Lift 22 - Dreamcatcher Visual Simulation, Park City, Utah (Project Manager/Lead Designer)

Transit
Snowmass Center Aerial Lift Analysis*, Snowmass Village, Colorado (Project Manager)

Mt. Ogden Tram Feasibility Study*, Huntsville, Utah (Project Manager and Planner)

PUBLICATIONS

"Carving the Turns". *Urban Land, (Co-author)*, 2009.

Resort Planning Models for Complicated Economic Times. *Intermountain Ski Areas Association (Presented Lecture)*, 2009.

Applications of Forestry Techniques to Glade Skiing Development. *Intermountain Ski Areas Association (Presented Lecture)*, 2008.

"Stormwater Management Solutions for Challenging Alpine Environments". *NSAA Journal, (Co-author)*, 2003.

"Mountain Design Practices for Sustainability". *Utah Department of Environmental Quality, Salt Lake City, Utah, (Presented Lecture)*, 2003.

"A New Community Planning Model for Mountain Resorts." and "Where in the World will the New Mountain Resort be Built?". *Mountain Resort Planning in an Era of Globalization, International Conference, Steamboat, CO; (Presented Lectures)*, 2002.

"Recommendations for Improving Profitability and Sustainability for Norwegian Ski Centers." with MIMIR, AS.. *Norwegian Development Bank – SND, Buskarud, Norway; (Presented Lecture)*, 2001.

Stephen D. Hall

Ecological Services

Mr. Hall is a senior environmental biologist with a specialization in ecological characterizations and environmental permitting. From 1994-1998, Mr. Hall worked for the Indiana Department of Environmental Management and served as the supervisor of the Watershed Assessment Group where he was responsible for the design and implementation of statewide and site-specific strategies for ecological characterizations for water quality and aquatic life in impacted rivers, lakes and other special aquatic sites. From 1998 to 2000, he worked for the City of Indianapolis as the watershed program manager responsible coordinating watershed-scale characterizations of the White River and its tributaries following a chemical spill and NRDA settlement with Guide Corporation after one of the largest documented fish kills in the eastern US. From 2000 to 2004, Mr. Hall served as vice president of Goode & Associates Environmental Consulting, where he was responsible for developing multiple watershed-scale characterizations of rivers throughout the midwest. Since 2004 Mr. Hall has served as a Stantec project manager and lead biologist responsible for ecological characterizations and environmental permitting for coal manufacturing and coal-fired power plant projects.

EDUCATION

BS, Environmental Biology, Taylor University, Fort Wayne, Indiana, 1993

Wildland Hydrology, Applied Fluvial Geomorphology, Shepherdstown, West Virginia, 2008

REGISTRATIONS

Certified Wildlife Biologist #TE152002-0, United States Fish and Wildlife Service

PROFESSIONAL ASSOCIATIONS

Member, Society of Wetland Scientists

Member, North American Benthological Society

Member, American Fisheries Society

AWARDS

1998 Exceptional Service Award, Indiana Department of Environmental Management

PROJECT EXPERIENCE

Ecosystem Restoration

Hellbranch Watershed Environmental Resource Inventory and Restoration Plan, Franklin County, Ohio (Project Biologist)

Environmental Management

Ratt's Station Ash Pond Expansion Permitting, St. Petersburg, Indiana (Project Manager)

Wolf Creek Stream Restoration and Enhancement, Inez, Kentucky (Lead Biologist)

Lower Coldwater Fork Stream Restoration, Inez, Kentucky (Lead Biologist)

E.W. Brown Power Generation Station, Auxiliary Ash Pond Ecological Characterization, and Fish Tissue Analysis, Mercer County, Kentucky (Project Manager/Lead Biologist)

Section 9 - US 460 Water Quality Certification, Eastern Kentucky, Virginia

Georgetown Exempted Village Local School District Water Quality Certification*, West Chester, Ohio

Kentucky 979 Relocation - Tackett Branch Restoration, Floyd County, Kentucky (Project Manager)

Kentucky 1274 Highway Relocation - Ecological Assessment, Menifee County, Kentucky (Project Manager)

US 460, Section 1 Interchange - Assessment, Pike County, Kentucky (Project Manager)

Kentucky 7 Highway Relocation, Perry County, Kentucky (Project Manager)

Kentucky 90 Highway Relocation, Cumberland County, Kentucky (Project Manager)

Upper Coldwater Fork Stream Mitigation Monitoring, Inez, Kentucky (Lead Biologist)

E.W. Brown Generating Station Auxiliary Flyash Landfill, Mercer County, Kentucky (Project Manager)

Tennessee River Ledbetter Bridge Replacement - Endangered Mussel Survey and Relocation, McCracken County, Kentucky (Project Manager/Biologist)

US 460 Highway Relocation Flood Control Project, Assessment of Hollow Fill Impacts on Etheostoma variatum, Buchannan County, Virginia (Project Manager/biologist)

Whalen D. Coleman Terminal - Habitat Assessment, Owensboro, Kentucky (Project Manager/Biologist)

Englewood Low Head Dam Removal Biological Assessment, Hamilton County, Ohio (Project Manager.Biologist)

Environmental Mitigation and Monitoring
Black Island Wetland Restoration Project, Butler County, Missouri (Project Biologist/Technical Advisor)

Tanner's Creek Ash Pond Expansion, Lawrenceburg, Indiana (Project Manager)

E.W. Brown Power Generation Station, Auxiliary Ash Pond, Mercer County, Kentucky (Project Manager/Lead Biologist)

J.K. Smith Generating Station, Trapp, Kentucky (Project Manager)

Fish Habitat Services
August A Busch Memorial Conservation Area - Lake 35 Fish Barrier Concept Development, St. Charles, Missouri (Project Biologist)

Stormwater Management
Hobart Stormwater Phase II Program Management, Hobart, Indiana

Southern Indiana Stormwater Phase II Program

Watershed Planning
Deep River/Turkey Creek Watershed Management Plan*, Hobart, Indiana (Employee)

White River Watershed Initiative*, Morgan County, Indiana (Employee)

White River Watershed Assessment*, Morgan County, Indiana (Project Biologist)

Deep River Watershed Management Plan*, Hobart, Indiana (Watershed Coordinator)

PUBLICATIONS

FWS File 60338; NYSDOT PIN 7804.26. *Indiana Bat Biological Assessment: Fort Drum Connector Project (Route 4)*, 2008.

Presentation: Considerations for Successful Watershed Planning: The Benefits of Community-Based Planning. *Kentucky-Tennessee Water Environment Association (WEA)*, 2008.

Presentation: An Introduction to Natural Channel Design. *Indiana Rivers Rally*, 2007.

Presentation: A Comparison of Restoration Approaches: Two-Stage Ditches vs. Natural Channel Design. *Newton County Soil and Water Conservation District, NW Indiana Regional Workshop*, 2007.

Presentation: Stream Ecology 103: An Introduction to Natural Channel Design. *Indiana Watershed Leadership Program*, 2007.

Presentation: Stream Ecology 102: An Introduction to Stream Geomorphology and Channel Evolution. *Indiana Watershed Leadership Program*, 2007.

Presentation: Stream Ecology 101: An Introduction to Stream Hydrology. *Indiana Watershed Leadership Program*, 2007.

Presentation: Permitting for Project Managers. *FMSM Engineers, Leadership Training Program*, 2005.

Probabilistic Monitoring Program Assessment of the East Fork White River and the Whitewater River Basins. *Indiana Department of Environmental Management, Office of Water Management, Assessment Branch, Surveys Section*, 1997.

Water Body Assessments of the East Fork White River and Whitewater River Basins. *Indiana Department of Environmental Management, Office of Water Management, Assessment Branch, Surveys Section*, 1997.

Probabilistic Monitoring Program Assessment of the East Fork White River and the Whitewater River Basins. *IDEM Assessment Branch, Surveys Section 032/02/012/1998*, 1997.

Robert D. Fuller, PE

Geotechnical Engineer

Stantec

Mr. Fuller has 26 years of experience in the civil engineering design of municipal, commercial, industrial, and institutional projects specializing in the field of advanced instrumentation and engineering applications. His ground instrumentation experience consists of using slope inclinometers, magnetic extensiometers, and various types of piezometers. Mr. Fuller has installed and monitored instrumentation such as pneumatic piezometers, settlement transducers, slope inclinometers, magnetic extensiometers, Casagrande piezometers and groundwater monitoring wells in accordance to state regulations at various landfill, dam and landslide projects. Monitoring of slope inclinometers consisted of cumulative displacement, spiral and magnetic deviation surveys. In addition to his instrumentation experience, Mr. Fuller serves as Project Technical Leader for a wide variety of geotechnical and civil engineering projects ranging from major oil refinery infrastructure improvements to site development for educational, commercial and industrial developments. Mr. Fuller has project experience ranging from preparation of technical specifications for land development and new construction to design and management of large multi-discipline construction projects.

EDUCATION

BS, Mathematics, Centre College, Danville, Kentucky, 1989

40-Hour Hazardous Waste Site Training, OSHA, Lexington, Kentucky, 2009

8-Hour Supervisor Training, OSHA, Lexington, Kentucky, 2009

Basic Orientation Plus Safety Training Certified, Catlettsburg, Kentucky, 2009

Transportation Worker Identification Credential (TWIC), TSA, Catlettsburg, Kentucky, 2009

BS, Civil Engineering, University of Kentucky, Lexington, Kentucky, 1991

REGISTRATIONS

Professional Engineer #19598, Commonwealth of Kentucky

PROFESSIONAL ASSOCIATIONS

Member, National Society of Professional Engineers

Member, American Society of Civil Engineers

Member, Kentucky Society of Professional Engineers

PROJECT EXPERIENCE

Bridges

Pomeroy-Mason Bridge, Pomeroy, Ohio (Senior Geotechnical Engineer)

Dams & Levees

Dover Dam Instrumentation, Tuscarawas County, Ohio (Senior Geotechnical Engineer)

Mississinewa Lake Dam, Wabash, Indiana (Senior Geotechnical Engineer)
Big Sandy River Levee Upgrades/Flood Protection System Evaluation, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Oil & Gas

Marathon Petroleum's Catlettsburg Refinery Crude Oil Dock Pipe Rack Settlement and River Bank Stability, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Campbell's Branch Residual Landfill, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Reduced Crude Converter (RCC) Unit Highwall Stabilization Project, Rock-Anchored Earth Retaining Wall, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Temporary Raw Water Supply System Project, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Fluid Catalytic Cracking (FCC) Unit Regenerator Head Turn-Around Project, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Proposed H-Coal Dock, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Heavy Oil Dock Landslide Remediation Project Terminal, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum Catlettsburg Refinery Crude Oil Dock Upgrades, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

Marathon Petroleum's Catlettsburg Refinery Route 3 Landfill Environmental Regulatory Compliance Project, Catlettsburg, Kentucky (Senior Geotechnical Engineer)

** denotes projects completed with other firms*

Joseph E. Looby ASLS

Stante

Mr. Looby has been applying his talents to projects for over 20 years, serving as a registered landscape architect, and the last 10 years as a project manager. During this time he has played many roles on a variety of projects however he is most effective when he manages multi-disciplined design teams. His experience in combining the creativity of landscape architecture with the technical knowledge of civil, traffic and transportation engineering makes him ideally suited to lead a team of professionals in a variety of planning efforts. This combination has been very effective in designing community parks, urban spaces, streetscapes, residential and commercial sites as well as large-site master planning, campus planning and community identity studies.

EDUCATION

BS, Landscape Architecture, The Ohio State University, Columbus, OH, 1990

REGISTRATIONS

Landscape Architect #260, State of West Virginia

Landscape Architect #1516, State of Michigan

Landscape Architect #728, Kentucky State Board of Licensure for Professional Engineers and Land Surveyors

Landscape Architect #LA20800094, State of Indiana

Landscape Architect #856, State of Ohio

PROFESSIONAL ASSOCIATIONS

Nursey and Landscape Association, State of Ohio

Member, American Society of Landscape Architects

PROJECT EXPERIENCE

Bicycle and Pedestrian Paths

Lakewood Trails, Putnam Township

Education

Waverly Schools Campus, Waverly, Ohio (Project Manager)

Land Planning

Downtown Planning Study, Bowling Green, OH

Landscape Architecture

Henderson Riverwalk Development, Henderson, KY

Riparian Restoration, Shelby, OH

Reservoir Pollution Reduction, Columbus, OH

Britton Parkway Extension, Hilliard, OH

Genoa Township Park Master Plan, OH

West Virginia Wesleyan College, Buckhannon, WV

Holzer Clinic, Athens, OH

9th Street Revitalization, Huntington, WV
Waverly Schools Master Plan, Waverly, OH

Otterbein Retirement Community Master Plan, Lebanon, OH - Raccoon Valley

Fuller and Olson Park Renovations, Ann Arbor, MI

Historic District Enhancements, Obetz, OH

Pittsfield Preserve, Pittsfield Township, MI

5th Street Master Plan, Village of Beverly, OH

Recreation Master Planning

Cypress Weslyan Church Park, Columbus, Ohio (Project Manager)

Waterford Park, (Formally the Lucent Site), Columbus, OH (Project Manager)

Regional and Neighborhood Parks

Riverview Park, Miami Township, Clermont County, Ohio

Sycamore Creek Park, Pickerington, OH

Veterans Park, Ann Arbor, MI

Bridlewood Park, Obetz, Ohio (Project Manager)

Looby Resume – Page 2

Waterford Park, (Formally the Lucent Site), Columbus, OH (Project Manager)

Regional and Neighborhood Parks

Riverview Park, Miami Township, Clermont County, Ohio

Sycamore Creek Park, Pickerington, OH

Veterans Park, Ann Arbor, MI

Bridlewood Park, Obetz, Ohio (Project Manager)

McNamara Park, Genoa Township, Delaware County, Ohio (Project Manager)

Grace Brethren Church Park, Centerville, Ohio (Project Manager)

Vinmar Park (Project Manager)

Carson Farms Park, Delaware, Ohio (Project Manager)

Sports, Recreation & Leisure

Columbus Crew Training Facility, Village of Obetz, Ohio

Streetscapes

Jeffersontown Bluegrass Industrial Park, Jeffersontown, OH

West Main Street Enhancement, Xenia, OH
Recommendations for a Pedestrian Friendly Campus, West Virginia University, WV

Galena Street, Toledo, Ohio (Project Manager).
Groveport Road Streetscape Improvements, Obetz, Ohio (Project Manager)

Southwest Traffic Calming Plan, Dublin, Ohio (Project Manager, LA Team)

9th Street Renovations, Huntington, West Virginia (Project Manager, Streetscape Team)

3rd Avenue Improvements, Huntington, West Virginia (Project Manager, Streetscape Team)

Traffic Calming

SW Dublin Traffic Calming, Dublin, OH

Urban Parks

Maumee River Park, Napoleon, Ohio (Project Manager)

Kishore Warrier

Director of Commissioning and Compliance

Stantec

Mr. Warrier has over a decade of experience related to commissioning, qualification, and GMP documentation/compliance activities. He has led and managed numerous projects in oral solid dosage, sterile facility, and potent compound areas in the pharmaceutical industry.

Mr. Warrier is experienced in developing commissioning and qualification documentation, from master plans to individual commissioning and qualification protocols, and has led teams to execute the various commissioning and qualification protocols at multiple client sites.

He has extensive knowledge of the coordination required for the commissioning/validation process of a project, and has worked extensively with various client's engineering, technical services, and quality departments.

EDUCATION

Commissioning/Qualification Baseline Guide, ISPE Training Seminar, Princeton, New Jersey, 2000

GMP Fundamentals for Pharmaceuticals, ISPE Training Seminar, Chicago, Illinois, 2005

Beyond GMP Fundamentals for Pharmaceuticals, ISPE Training Seminar, Chicago, Illinois, 2005

Bachelor of Arts in Liberal Arts/Sciences, Minor in Economics, University of Illinois, Urbana-Champaign, Illinois, 1994

PROFESSIONAL ASSOCIATIONS

Certification for Commissioning and Qualification Continuing Education, International Society for Pharmaceutical Engineering

Member, International Society for Pharmaceutical Engineering

PROJECT EXPERIENCE

Covidien - Oral Solid Dosage Facility, Hobart, New York (Commissioning and Qualification Project Manager)
Assisted client QA and Validation team with review of Master Validation Plan and with the planning for the Commissioning and Equipment Qualification activities. Responsible for managing Stantec commissioning and qualification team in the development of facility and utility related commissioning and qualification protocols for a small scale oral solid dosage facility expansion.

Oversaw Stantec team which developed and assisted with the execution of Commissioning and/or IOQ documents HVAC unit for GMP spaces, HVAC related utilties, BMS system, nitrogen, compressed air, and electrical distribution systems.

Wyeth Research - GMP Warehouse and Secondary Packaging Facility, Confidential Location (Project Manager)
Served as Stantec project manager for internal team in development of project Commissioning protocols of facility equipment and systems. Responsible for development of requalification protocols for Walk-In Cold Rooms and GMP Warehouse.

Served as project manager for on-site Stantec personnel to execute commissioning and requalification protocols and for final report development. Assisted with the coordination of final approvals of qualification effort with Wyeth QA and User Groups.

Confidential Client - New Sterile Greenfield Facility, Confidential Location (Project Manager)
Served as project manager for commissioning and qualification process. Responsible for assisting owner with the development of Quality Systems, as well as review of Validation Plans, SOP's, and Calibration Program.

Served as Stantec project manager for internal team to develop FAT, Commissioning, and IOQ protocols for Facility, Critical Utility, and selected process systems. Worked with Stantec design team to review design drawings and specifications to streamline the commissioning and qualification phases for the project.

Confidential Client - Liquid Processing API, Office, and Lab Addition, Confidential Location (Co-Commissioning Leader / Project Manager)
Managed Stantec's commissioning team for the development of non-GMP and GMP related commissioning documents and associated acceptance criteria.

Responsible for developing the Commissioning Plan for the project.

Coordinated approvals of documents with client stakeholders, specifically GMP related documents which were leveraged by the validation team.

Managed Stantec's on-site commissioning engineers.

Coordinated the execution of major process equipment, (filter dryer, reactors, solve delivery system, isolator), vendor FAT and SAT, as well as the execution of all commissioning protocols on-site.

Helped client to develop, track, and manage commissioning and validation schedule, punchlist item development, and resolution from the construction team.

Reviewed and approved final commissioning reports and assisted client stakeholders in approvals of commissioning reports and turnover of systems to client Engineering, Validation, Laboratory, and QA groups.

Genentech - Office/Laboratory Commissioning, San Francisco, California (Commissioning Team Leader)
Commissioning of two office/laboratory buildings. Scope included development and field execution of functional test protocols for office/lab for HVAC units, HVAC utilties, lab hoods, walk-in coolers, building automation systems, cooling tower water systems, lab gases (nitrogen, vacuum, air), lab water systems.

Confidential Client - Oral Solid Dosage Potent Compound Facility, California (Project Manager)
Managed commissioning and qualification of Sampling and Dispensing Isolator. Provided integrated commissioning and qualification services from witnessing and documenting reports for Factory and Site Acceptance Tests. Managed team which developed and executed commissioning, IQ and OQ protocols, and associated final reports.

Confidential Client - Sterile Manufacturing Facility Expansion (Commissioning/ Project Manager)
Management of commissioning team in the development of master project plans, commissioning protocols for project HVAC, qualified and non-qualified utility systems, facility systems, and building automation system.

Wyeth Pharmaceuticals - QA/QC Laboratory Expansion, Guayama, Puerto Rico (Commissioning / Validation Project Manager)
Managed commissioning and validation team in development of master project plans, commissioning protocols for project HVAC, qualified and non-qualified utility systems, facility systems and project autoclaves, glove box isolator, glass washers, and facility qualification protocol.

Managed team during the execution of these commissioning and qualification protocols and in the development of required final technical reports. Responisble for managing project scope and budget, and worked with client and construction team to meet required project commissioning and qualification completion dates.

Confidential Client - Potent Compounds Manufacturing Addition, Fort Lauderdale, Florida (Commissioning/Validation Project Manager) *Managed commissioning and validation team in development and execution of project commissioning and qualification protocols for HVAC, small portable blenders, portable tanks, and in writing and reviewing final qualification technical reports.*

IVAX Pharmaceuticals Caribe Inc. - Building C-1 Warehouse Expansion Project, Cidra, Puerto Rico (Validation/Commissioning Manager)
Managed commissioning team in development of commissioning documentation deliverables for project. Stantec field project manager for commissioning process. Generated project Commissioning Plan with project field staff. Managed qualification team in development of HVAC IOQ and Room FQ protocol deliverables for project.

Timothy Howe, LEED AP

Mechanical Designer

Stantec

Mr. Howe holds a masters degree in mechanical engineering and has provided design in HVAC, plumbing and fire protection for both high-rise and/or low-rise buildings. Working with higher education, industrial, commercial, and K-12 clients, he has designed office space, labs, industrial process, and support spaces for new construction and renovation projects.

Recently he has been focusing on energy modeling and performance engineering and is providing assistance within the US and Canada on projects requiring this specialty. Mr. Howe has been working as a NYSERDA technical assistant facilitating energy efficient designs for A/E firms through the New Construction Program. This program includes energy studies of buildings through whole building analysis and custom measures.

EDUCATION

BS Mechanical Engineering, University at Buffalo, Buffalo, New York, 2004

MS Mechanical Engineering, University at Buffalo, Buffalo, New York, 2006

PROJECT EXPERIENCE

250 Schermerhorn Street, Brooklyn, New York

Clarkson University Student Center, Potsdam, New York

Provided commissioning assistance through the NYSERDA new construction program.

Clarkson University TAC Building, Potsdam, New York

Connection Technologies, Rochester, New York (Energy Modeler)

Sitterly Associates, Halfmoon, New York (Energy Modeler)

Global Crossings, Rochester, New York (Energy Modeler)

Tyco Electronics, Rochester, New York (Energy Modeler)

Clarkson University Math & Science Building, Potsdam, New York

Clinical Translational Sciences Building, Rochester, New York (Energy Modeler)

Maplewood, Canton, New York (Energy Modeler)

NYSERDA Technical Assistance, New York (Energy Modeler)

Cornell Grape Research Laboratory, Portland, New York (Mechanical Designer and Energy Modeler)

Christopher Carknard

Stantec

Mechanical Engineer

Mr. Carknard has almost five experience in the HVAC, plumbing, and fire protection design field. As a mechanical engineer he provides technical support for the development of various aspects of a pharmaceutical, laboratory, manufacturing and production facility design. He also has past experience in construction administration.

EDUCATION

Bachelor of Science, Mechanical Engineering Technology, State University of New York College of Technology Utica/Rome, New York, 2002

PROFESSIONAL ASSOCIATIONS

Member, American Society of Heating, Refrigerating & Air-Conditioning Engineers

PROJECT EXPERIENCE

Confidential Pharmaceutical Process Project,
Confidential Location, Canada
(Mechanical Engineer/Commissioning)
Executed Commissioning protocols to document the installation and functional testing results for a chiller and heat exchanger/tank jacket systems.

Executed Commissioning protocol to document additions to existing building utility systems including the chilled water and process water systems.

Covidien (formerly Tyco Healthcare / Mallinckrodt) - High Volume Manufacturing Addition, Hobart, New York (Mechanical Engineer/Commissioning)
Performed Commissioning and Validation document development and execution for a new Oral Solid Dosage (OSD) production addition to an existing facility. Commissioning and Validation efforts focused on major mechanical equipment including a new steam boiler and distribution system, domestic hot water generation, utility hot water generation and distribution, facility and secure storage air handling units, process chilled water generation, and HVAC chilled water generation and distribution.

Additionally, Commissioning and Validation services were performed on the additions to the site Building Automation System (BAS) serving the new addition, as well as building utility services including a new compressed air generation and distribution system, bulk nitrogen storage and distribution system, and the electrical distribution system.

Ben Venue Laboratories Inc. - Sterile Manufacturing Phase IV Conversion, Bedford, Ohio (Mechanical Engineer/Commissioning)
As a member of the Commissioning team, documented the installation of major mechanical equipment including air handling units, chilled water generators, electrical distribution systems, as well as all associated instruments, utilities, and components in a new addition to an existing pharmaceutical facility.

Performed installation and operational verification of production room construction finishes, room components including temperature and humidity monitoring equipment, as well as operator life safety notification devices.

Confidential Pharmaceutical Process Project, Confidential Location, Canada (Mechanical Engineer/Commissioning)
Worked on the Commissioning and Validation team to document the installation of the major mechanical systems including HVAC, chilled water, and heating hot water; as well as process related systems such as purified water and all associated instruments, equipment, and utility connections for a new addition to a pharmaceutical production facility.

Performed functional testing on the HVAC systems.

Norwich Pharmaceuticals Inc. - Solvent Coating and Granulation Upgrade, Norwich, New York
(Mechanical Engineer)
Evaluated a portion of an existing facility and its corresponding HVAC and fire protection systems for the safe handling, dispensing, and storage of solvent materials with respect to cGMP and current local code requirements.

Performed a system analysis on the existing HVAC equipment installations addressing client concerns regarding system wide performance. Assisted in writing a report and corresponding cost opinion analysis for modifications and updates to bring the facility into compliance.

State of New York University Construction Fund - Empire State College, Saratoga Springs, New York
(Mechanical Designer)
Assisted in the design and layout of mechanical systems including heating load and friction loss calculations. Systems served private office and conference room spaces in a rehabilitation of an historic landmark structure working with difficult existing special constraints.

Sized and selected major HVAC equipment including baseboard radiant fin tube, air cooled chiller, boilers, pumps, and fans. Redesigned systems per client changes and field conditions as well as performed multiple on-site system reviews to address construction issues.

Eric Smith Associates - Windham Enclave*, Windham, New York (Mechanical Designer)
Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served large meeting rooms, commercial style kitchen areas, mechanical equipment rooms, and private condominium style residences.

Sized and selected major HVAC equipment including air handling units, water source heat pumps, fan coil units, heat exchangers, pumps, fans, chillers, split systems, walkway snow melt system (including zone manifolds and pumps), and boilers.

Revised individual condominium layouts per final tenant request and reviewed submitted mechanical equipment during project construction phase as well as performing on-site final punch list.

Dormitory Authority of the State of New York - Samaritan Village, Ellenville, New York (Mechanical Designer)
Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served new dormitories, new recreational building, new dining hall (including office spaces and large meeting rooms), and rehabilitation of an existing classroom building.

Sized and selected major HVAC equipment including air handling units, VAV boxes, fan coil units, heat exchangers, pumps, fans, chillers, split systems, and boilers. Reviewed submitted mechanical equipment during project construction phase.

New York State Office of General Services - Alfred E. Smith Building Rehabilitation and Modernization, Albany, New York
(Mechanical Designer)
Assisted in the design and layout of HVAC systems including heating load and friction loss calculations. Systems served private offices, open floor plan office spaces, conference rooms, print shops, cafeteria and kitchen areas, and testing rooms. Project team redesigned and repurposed areas and systems to suit tenant needs.

Performed multiple on-site evaluations of construction and site conformance issues. Worked with the client and other construction and design professionals to achieve a solution in a timely manner.

Coordinated routing of vital mechanical systems, including HVAC plumbing and sprinkler systems, along side other trades and within the constraints of the existing structure while maintaining the integrity and historical value of the building.

Jeri A. Pickett, PE, LEED AP

Stantec

Engineering Manager/Electrical Engineer

Mr. Pickett brings more than 20 years of diverse experience to Stantec. He has leadership and project management experience, electrical engineering design, cost estimating, and construction experience and consulting experience for private, commercial, government, institutional, and industrial clients. Mr. Picketts's experience as both a consultant and as an owner provides a unique and useful perspective.

EDUCATION

- Bachelor of Science, Clarkson University, Potsdam, New York, 1989

REGISTRATIONS

- Professional Engineer #073671, State of New York

PROFESSIONAL ASSOCIATIONS

- LEED Accredited Professional, U.S. Green Building Council
- Member, Building Industry Consulting Service International
- Member, Association for Facilities Engineering

PROJECT EXPERIENCE

- 250 Schermerhorn Street, Brooklyn, New York
  Commissioning Agent responsible for commissioning component of a six=story, 88,000 sf office building

- Clarkson University Student Center, Potsdam, New York
  Commissioning Agent responsible for commissioning component of a three-story, 45,000 sf new Student Center.

- Clarkson University TAC Building, Potsdam, New York
  Commissioning Agent responsible for commissioning component of a two-story, 18,000 sf addition to connect the Science Center to the existing 12,000 sf Shuler ERC.

- University of Buffalo Dormitory, Amherst, New York
  Commissioning Agent for construction of a new four-story, 192,000 sf mixed-use dormitory building with three six story wings.

- Cherry Hill Fire Station, Cherry Hill, New Jersey (Electrical Engineering)

- WestJet Corporate Offices, Calgary, Alberta

- Tyco Electronics, Rochester, New York
  Provided NYSERDA Technical Assistance through custom measure energy analysis of a 45,000ft² new construction office/manufacturing /warehouse building.

- Global Crossings, Rochester, New York
  Provided NYSERDA Technical Assistance through whole building energy analysis of a 87,000ft² new construction office building.

- Sitterly Associates, Halfmoon, New York
  Provided NYSERDA Technical Assistance through whole building energy analysis of a 42,000ft² new construction office building.

- Connection Technologies, Rochester, New York
  Provided NYSERDA Technical Assistance through whole building energy analysis of a 30,000ft² new construction office/manufacturing building.

- WestJet Campus Office Building, Calgary, Alberta
  Electrical & Systems Design for 6 story, 258,000 s.f. office building

- Cornell University CALS Bruckner Laboratory, Fernow Hall and Rice Hall, Ithaca, New York

- Clinical Translational Science Building, Rochester, New York (MEP Project Manager)

- NYSERDA Technical Assistance, New Binghamton University Science & Engineering Research Facility, Binghamton, New York (Electrical Engineer)

- Center for Bioscience Education and Technology, Rochester, New York (Electrical Engineer)

Herbert L. Parsons III, PE, LS

Project Engineer

Stantec

Mr. Parsons has more than 13 years experience and has participated as a project manager on a wide variety of survey projects, including GPS, aerial mapping and control, ALTA, boundary, construction stakeout, design, topographic and wetlands surveys. His responsibilities include project proposals, research and review, client and crew coordination, data reduction and calculations, boundary resolutions, and legal descriptions. As a license surveyor in the Commonwealth of Virginia, Mr. Parsons is proficient with current technologies and traditional methods of field and office surveying. Mr. Parsons has responsible charge for all Virginia based survey operations and reviews and approves all required signature documents. Additionally as a licensed engineer he brings a unique perspective to Stantec's survey department and projects.

EDUCATION

B.Sc., Civil Engineering, Virginia Military Institute, Lexington, Virginia, 1994

Designated Plans Examiner #176, Engineers and Surveyors Institute, Fairfax County, Virginia, 1998

Designated Plans Examiner, Engineers and Surveyors Institute, Loudoun County #063, Virginia 2002

REGISTRATIONS

Professional Engineer #015279, State of West Virginia

Professional Engineer #PE070521E, Commonwealth of Pennsylvania

Registered Land Surveyor #2895, Commonwealth of Virginia

Professional Engineer #033680, Commonwealth of Virginia

PROFESSIONAL ASSOCIATIONS

Member, West Virginia Society of Professional Surveyors

Member, National Society of Professional Engineers

Member, American Society of Civil Engineers

Member, Engineers and Surveyors Institute

PROJECT EXPERIENCE

Sports, Recreation & Leisure

Elco Park Recreation Improvements, Elco, PA

Ida Lee Tennis Center, Leesburg, VA

Arthurdale Trail, Arthurdale, WV

Raspberry Falls Golf and Hunt Club Conference and Training Center, Loudoun County, VA

Attractions, Arts & Entertainment

Carmike Cinemas Site Plan, Morgantown, WV

Site Development

Holly Meadows, Leesburg, VA

Henderson Property, Loudoun County, VA

Evergreen Meadows, Loudoun County, VA

Falling Water Subdivision, Cheat Lake, WV

Urban Land Engineering

Holly Meadows, Leesburg, VA

Boundary Surveys

Theismann Properties, Loundoun County, VA Johnson Property, Rockingham County, VA

Kelly Properties, Monongalia County, WV

Theismann Properties, Loudoun County, VA

Floodplain Management

Lawson Drainage Study, Morgantown, WV

Partridge Subdivision (Floodplain Study), Loudoun County, VA

Multi-Unit / Family Residential

Round Hill Rural Estates, Upper Lakes

Greenwood Commons, Loudon County, VA

Roadways

Raspberry Falls Rt 1170 Street Design, Leesburg, VA

Red Cedar Rt 621 Improvements, Leesburg, VA

Rebecca Gorges, PE

Stantec

Process Engineer

Ms. Gorges has been involved in many aspects of chemical and process engineering design. She provides technical support for the development of P&ID's and PFD's, material balance, thermodynamic and reaction kinetics calculations, equipment and instrument specifications, design reports including user requirements specifications, scope of work, process description, and preparation of commissioning and qualification documentation.

EDUCATION

Bachelor of Science, Chemical Engineering and Economics, Rensselaer Polytechnic Institute, Troy, New York, 2004

REGISTRATIONS

Professional Engineer #087187, State of New York

PROFESSIONAL ASSOCIATIONS

Member, American Institute of Chemical Engineers

PROJECT EXPERIENCE

Becton Dickinson - Greenfield Sterile Pharmaceutical Facility, Wilson, North Carolina
Stantec provided engineering design and commissioning services including civil, structural, architectural, mechanical, process, electrical, and instrumentation and controls for a new 115,000 square foot two-story pre-filled syringe sterile manufacturing facility. One of the most important aspects was the critical utilities system, which includes USP Purified Water, USP Water for Injection (WFI), Pure Steam, Clean Steam, CIP, Nitrogen and Sterile Compressed Air.

Stantec worked closely with the owner's engineering and operations staff to size the systems for average and peak usage, redundancy requirements, and equipment and operating preferences. Close coordination with the design team was required to provide adequate supporting utilities, electrical power, and GMP facilities.

Prepared User Requirements Specifications and pre-purchase specifications for critical utilities (clean steam, WFI, clean compressed air, nitrogen) and process systems to provide the guidelines from which the commissioning documents were prepared. In addition, assisted with preparation of Commissioning and Qualification protocols.

Pfizer - Blender Module Upgrade, Brooklyn, New York (Process Engineer)
Provided process engineering support for the detailed design of the upgrade of a blender module to a solids-liquids processor including utility assessment, coordination with equipment vendors, and preparation of commissioning and qualification documentation.

Confidential Pharmaceutical Client - Powder Handling Equipment, Confidential Location, Canada
Performed FAT on powder handling equipment as client's representative.

Performed on-site commissioning of new powder handling suite including processing equipment, HVAC upgrades, and associated MEP upgrades.

Covidien (formerly Tyco Healthcare / Mallinckrodt) - High Volume Manufacturing Addition,
Hobart, New York
Performed Commissioning and Validation document development and execution for a new Oral Solid Dosage (OSD) production addition to an existing facility. Commissioning and Validation efforts focused on major mechanical equipment including a new steam boiler and distribution system, domestic hot water generation, utility hot water generation and distribution, facility and secure storage air handling units, process chilled water generation, and HVAC chilled water generation and distribution.

Additionally, Commissioning and Validation services were performed on the additions to the site Building Automation System (BAS) serving the new addition, as well as building utility services including a new compressed air generation and distribution system, bulk nitrogen storage and distribution system, and the electrical distribution system.

As a member of the Commissioning team, executed commissioning protocols for a series of modular processing suites. Systems commissioned include GMP rooms with room air HEPA filtration systems, compressed air, nitrogen, and Building Management System (BMS).

Confidential Pharmaceutical Client - Cold Glycol Chiller System, Confidential Location, Canada
Design of cold glycol chiller system and associated heat exchangers for processing equipment. Executed commissioning protocols for the chiller and heat exchanger/tank jacket systems.

Confidential Pharmaceutical Client - Plant Expansion, Confidential Location, Canada (Lead Process Engineer)
Transfer production of an Active Pharmaceutical Ingredient (API) to a new facility. Performed commissioning of process glycol and HVAC glycol chillers, utility water, BMS, process equipment, and process controls systems. Assisted with validation activities.

Confidential Pharmaceutical Client - Commissioning Facility Upgrades, Confidential Location, Canada
Led commissioning effort including the installation of a new Purified Water Generation System and Distribution Loop along with the associated utilities required for that system.

Prepared Commissioning and Qualification Plan and both static and dynamic commissioning protocols. Worked on-site to execute the protocols, working closely with the client's team and the construction manager to ensure we met critical project deadlines.

Pfizer - HVAC System and Process Equipment Upgrade, Brooklyn, New York (Process Engineer)
Provided process engineering support for upgrades to the HVAC system and process equipment in an existing packaging area to allow for the packaging of products containing potent compounds.

Developed P&ID, commissioning, and qualification documents including user requirement specifications, system impact assessment, and the project commissioning and qualification plan.

Becton Dickinson - Greenfield Sterile Pharmaceutical Facility, Wilson, North Carolina (Process Engineer)
Worked as part of a multidiscipline project team for the detailed design of a new sterile pharmaceutical manufacturing facility..

Worked closely with mechanical and electrical engineers to ensure the required utilities for this process equipment were provided.

The Pennsylvania State University - Central Biological Laboratory (CBL), University Park, Pennsylvania (Process Engineer)
Stantec conducted a $5-million phased HVAC/electrical service replacement and miscellaneous renovation on a thirty-year old, 35,000-ft² animal test laboratory.

The complete phased HVAC and electrical renovation of the animal holding areas (Vivarium) included replacement of five (5) separate systems along with construction of new marmoset rooms. The project also required the design of a 10,000-ft² temporary animal holding area adjacent to the main facility.

Peter E. Avetta NCARB, AIA, LEED®AP

Principal, Architecture

Stantec

Mr. Avetta's diverse background makes him a valuable asset to any project. His wide variety of experience allows him to provide clear guidance and positive team leadership to successfully navigate our clients through the entire design and construction process.

Pete has specialized in the Distribution Center Project type for several Fortune 500 companies. Pete has designed and observed the construction of 4.1 million square feet of building space including 150,000-ft² of office space. The majority of these projects used the fast-track, design-building delivery methodology. The construction documents were developed as a specific bid package that facilitated an early construction start and design continuity throughout the project's design and construction.

EDUCATION

Bachelor of Architecture, Kent State University, Kent, Ohio, 1973
Asbestos Abatement Project Designer, Accreditation, North Carolina, North Carolina, 1988
US Green Building Council LEED Professional, Accreditation, United States, North Carolina, 2003

REGISTRATIONS

Registered Architect #4761, State of Alabama
Registered Architect #43964, State of Arizona
Registered Architect #11222, State of Connecticut
Registered Architect #16719, State of Florida
Registered Architect #9330, State of Georgia
Registered Architect #001-019401, State of Illinois
Registered Architect #9500014, State of Indiana
Registered Architect #5385, State of Kentucky
Registered Architect #3597, State of Maryland
Registered Architect #30353, State of Massachusetts
Registered Architect #4808, State of Nevada
Registered Architect #AI 01660000, State of New Jersey
Registered Architect #4214, State of North Carolina
Registered Architect #11912, State of Ohio
Registered Architect #RA 007367-X, State of Pennsylvania
Registered Architect #3410, State of Rhode Island
Registered Architect #2515, State of South Carolina
Registered Architect #101595, State of Tennessee
Registered Architect #16183, State of Texas
Registered Architect #7089, State of Virginia
Registered Architect #9019, State of Washington

PROFESSIONAL ASSOCIATIONS

Member, American Institute of Architects
Board Member, Construction Professionals Network of North Carolina, Inc.
Member, National Council of Architectural Registration Boards
Affiliate Member, North Carolina Airports Association
LEED® AP, U.S. Green Building Council

AWARDS

2006 Southeast Construction Best of 2006 - Merit Award, The Port Marina

PROJECT EXPERIENCE

Corporate / Office

Aon Risk Services, Winston-Salem, North Carolina
Cambridge Partners, Inc., Charlotte, North Carolina (Architect)
New Class "A" Commercial Office Building (63,000 sf)
CentrePort II Office Building (Architect)
Class A Commercial Office Building
Greensboro, NC (48,000 sf)
Polo Ralph Lauren Corp, High Point, North Carolina (Architect)

Community Institutional

Black Mountain Center (Architect)
Alzhiemer's Unit Renovations
ICF/MR Renovations
Black Mountain, NC
Points West, Inc. (Architect)
Wakefield Day Care Center
Raleigh, NC
Vogler & Sons Funeral Home (Architect)
Funeral Home Expansion
Winston-Salem, NC

Government

Forsyth County Department of Social Services Office Complex, Winston-Salem, North Carolina (Architect)
Adaptive reuse/renovation of former Reynolds Health Center for county offices.

Locust Grove Police Station and Courthouse, Locust Grove, Georgia (Architect)
New 17,460 sf facility

Marine & Port Facilities

The Port Marina, Ft. Lauderdale, Florida (Architect)
Boat Storage Facility

Mixed-Use

Antiquity Town Center Master Plan, Cornelius, North Carolina

Airports & Aviation

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Title IA and IB Services for squad facilities 2201, 2208, 4535,
and 4538.

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Construct addition to fuel laboratory. Repair petroleum operations building.

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Construct addition to communications facility, Building 3200.

Warehouse / Light Industrial

AMP Incoporated (Architect)
North Carolina Distribution Center II
High Point, NC

AMP Incoporated (Architect)
Master Planning
Greensboro, NC

AMP Incoporated (Architect)
DNS Electronic Materials Facilities Assessment Study

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Construct religious education facility.

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Construct Addition to POL Building 3425.

Seymour Johnson Air Force Base, Goldsboro, North Carolina
Construct operations building at Dare County, North Carolina

Research Triangle Park, NC

AMP Incorporated, Cole Road Manufacturing Facility (Architect)
3900 Reidsville Plant Line
Gumtree Road Plant
Winston-Salem, NC

Arrow International Warehouse Expansion/Distribution Center, Asheboro, North Carolina
Arrow International, Inc. - Asheboro, NC (Architect)
Facility Expansion

Candle Corporation of America (Architect)
Class Market Distribution Facility
Elkin, North Carolina

Education

East Carolina University - Slay and Umstead Dormitory,
Greenville, North Carolina (Architect)

Elliott University Center (Architect)
UNC-Greensboro
Greensboro, NC

Goddard School, North Aurora, Illinois

Goddard School, Mooresville, North Carolina

North Carolina A&T State University - Graham Hall, Greensboro, NC (Architect)
Renovation and addition project.

UNC Chapel Hill (Architect)
ACM Removal

UNC Chapel Hill - 440 West Franklin Street Renovation,
Chapel Hill, North Carolina (Architect)
Complete renovation of the facility to house the University's administrative information services department.

UNC-Greensboro, Greensboro, North Carolina (Architect)
ACM Removal from 27 Houses

Winston-Salem State University, Winston-Salem, North Carolina (Architect)

Aaron Tonkery, PE

Stantec

Mr. Tonkery is a Project Engineer with training and experience in civil site design, transportation engineering, and environmental permitting. Prior to joining the firm, Mr. Tonkery served as a Highway Engineer Trainee for the West Virginia Division of Highways (WVDOH).

EDUCATION

B.S., Civil Engineering Technology, 2000
Fairmont State College,
Fairmont, West Virginia

REGISTRATIONS

Professional Engineer - # 18237
State of West Virginia

PROJECT EXPERIENCE

Greenland Gap Wind Energy Project

M.A. Mortenson Co. – Grant County, WV

Appalachian Corridor H

WVDOH – Grant / Tucker County, WV

U.S. Route 35

Upper Tract Bridge Replacement

WVDOH – Pendleton County, WV

Mile Branch Bridge Replacement

WVDOH – McDowell County, WV

Weatherford Fracturing Facility Access Road Upshur County – West Virginia

Glady Fork Coal Company

WVDEP – Buckhannon, WV

Spencer Hydrologic & Hydraulic Study

WVCA – Spencer, WV

Parsons First Baptist Church H&H Study

Krout Creek H&H Investigation

WVCA – Wayne County, WV

Laurel Lake Sediment Removal Project

WVCA – Mingo County, WV

Danehart Acid Mine Drainage (AMD) Project ODNR – Yorkville, OH

Nutter Tipple Reclamation Project

ODNR – Logan, OH

Flint Run AMD Project

ODNR – Jackson County, OH

Murray City AMD and Art Project

ODNR – Hocking County, OH

Old Bridgeport Hill Mine Drainage Project WVDEP – Clarksburg, WV

Texas Roadhouse

Greenberg Farrow – Parkersburg, WV

Northeast Mud Services Company Project

NEMS Co. – Harrison County, WV

Philippi Shop-N-Save

Craig Phillips – Barbour County, WV

Institute for Software Research

Central Contracting Co. – Fairmont, WV

Tucker / Randolph County – West Virginia

West Virginia State College

WVSC – Institute, WV

NPDES Permit-Stormwater/Construction

WVSC – Institute, WV

Dennis Miller, PS
Surveys/Geomatics

Mr. Miller has over 22 years of consulting experience and serves as the Manager of the Buckhannon, WV office, which provided support for the Transportation, Abandoned Mine Land, Surveying, Construction Observation – Construction Inspection, and Mitigation and Emergency Planning groups. Mr. Miller has worked on governmental, commercial, and industrial projects and has noteworthy experience in the policies and procedures within FEMA, EPA, AASHTO, WVDOT, WVDEP along with local and state EMA and EOC, and has completed EMI IS-700" entitled "National Incident Management System (NIMS), "IS-00546" entitled "Continuity of Operations (COOP).

Mr. Miller organized the development of a 15 person construction observation and AMRL certified materials testing lab. This group was selected as the Independent Testing Laboratory for two Federal Prison projects and provid testing and inspection services for public agencies and private sector clients. Mr. Miller organized a team of professionals with experience in Abandoned Mine Land and Acid Mine Drainage. This team provides services to the West Virginia Division of Environmental Protection Office of Abandoned Mine Lands and Office of Special Reclamation, Ohio Department of Natural Resources and the West Virginia Conservation Agency.

EDUCATION

A.S., Surveying, Glenville State College, Glenville, West Virginia, 1989

Civil Engineering courses, Fairmont State College, Fairmont, West Virginia, 1991

REGISTRATIONS

Professional Land Surveyor #27570, State of South Carolina

Professional Land Surveyor #991, State of West Virginia

PROJECT EXPERIENCE

Airports & Aviation

Woodsfield Airport, Woodsfield, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Runway Extension and Obstruction project on this airport in Woodsfield.

Barnesville Airport, Barnesville, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Access Road Improvements, and Storm Drain Improvements project on this airport in Barnesville.

Green County Airport, Green County, OH

Mr. Miller was the task manager responsible for supervising the surveying on the Runway Extension and County Route relocation efforts at the airport in Green County Ohio.

Buckhannon Upshur Airport, Buckhannon, WV

Mr. Miller was the party chief and project manager responsible for field surveying and construction layout efforts on this airport project in Buckhannon.

Bridges

Mile Branch Truss Bridge, McDowell County, WV

Mr. Miller was the Office manager responsible for surveys for the 180-foot, 22-foot wide steel bridge crossing the Dry Fork River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 370' of new two-lane roadway design.

Upper Tract Bridge, Pocahontas County, WV

Office manager responsible for surveys for the 346-foot long, 30-foot wide curved steel bridge crossing the South Branch of the Potomac River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 740' of new two-lane roadway.

Appalachian Corridor H - Davis to Bismark, Tucker and Grant Counties, WV,

Office Manager responsible for surveys for the 1.61 mile section of four-lane divided highway near Davis, WV.

Power

Consol Energy; Blacksville #2 Power Line (Principal In Charge)

Consol Energy; Campbell's Run to 11D Shaft (Principal In Charge)

Shell Energy, Grant County, West Virginia

TrAlLco, Central Contracting, West Virginia (Principal In Charge)

Roadways

West Virginia Power Center Coal Haul Road Survey and Layout, Mt. Storm, West Virginia

Mr. Miller was in charge of the re-survey of 4.2 miles of coal

haul access roads for Virginia Power at Mt. Storm. The scope of this project was to construct the coal haul access roads within a specific period of time because the new fuel preparation/coal transfer station was opening and a new coal supplier had been put under contract.

US Route 35, Mason County, West Virginia

Mr. Miller served as the Office Manager responsible for

surveys for the 1.85 mile section of four-lane divided highway. The section of highway also includes dual 400' bridges over Three Mile Creek and dual 92' bridges over Two Mile Creek.

Surveys / Geomatics

West Virginia Department of Environmental Protection

West Virginia Department of Transportation

(Independent Payment Verification)

Mr. Miller is the Program Coordinator/Project Manager and served as a field crew member for the past two years on the independent payment verification for the King Coal highway

Red Jacket Section. Stantec was ask to perform an Independent Payment Verification Reconciliation Report as required by WVDOT and the FHA on 11.37 miles of four lane divided highway which is a active coal mining & construction site.

Project Impact Randolph Tucker Partnership

Mr. Miller was the Office Manager and served as Project Manager on the planning, development and implementation of the work plan to successfully install and Blue Book sixty-five (65) new USGS Bench Mark Monuments within Randolph and Tucker Counties in West Virginia. This Project was completed in forty-five (45) days to comply with the funding mechanism and involved three offices and over fifteen employees.

Source Water Assessment Program

Mr. Miller was responsible for the overall project management of the Source Water Assessment and Protection Program (SWAP).

Mark Cvechko

Inspector – Level II

Stantec

Education

A.S. Land Surveying; Glenville State College, Glenville, West Virginia (1977)
West Virginia State Police Academy, Institute, WV (1978)

Certifications & Affiliations

Portland Cement Concrete Inspector
WV Contractors Association
WV Association of Land Surveyors
Upshur County Chamber of Commerce
Board of Directors, Buckhannon Country Club

Compaction Inspector

Aggregate Sampler

Experience and Qualifications

Mr. Cvechko has a diverse background in Heavy/Highway Construction, as well as Civil-Environmental Surveying and Design. Mr. Cvechko has over 20 years of management experience in the Heavy/Highway/Building/Water and Sewer industry. Mr. Cvechko has worked as senior estimator and project manager on projects ranging from one to ten million dollars. Mr. Cvechko has also performed plan review on design projects for constructability. Mr. Cvechko also has field experience as a superintendent, which attributes a key element in the design process.

Mr. Cvechko currently manages the Construction Services Department in the Buckhannon office of Stantec Consulting Services Inc., which includes Geotechnical Investigation, Construction Observation, and Quality Control Testing.

Project Experience Profile

Mr. Cvechko has managed and worked on numerous large heavy/highway projects. Some projects include:

- Sampling & testing of materials at source of supply under MCS&T Contract
- Corhart Manufacturing Press Building-High Point Construction
- Glady Fork Mine treatment Plant –WVDEP
- 4 Mile Overland Beltline – Consol Energy, Robert and Shaffer, Ground Breakers
- St. Joseph Hospital Addition – St. Joseph's Hospital
- Bluestone Dam Rehabilitations – National Engineering
- Hazelton Federal Prison - P. J. Dick Corporation
- Glenville Federal Prison – Bell Justice Facilities
- Statewide Traffic Study – PA Department of Transportation
- Route 50 By-Pass – WV Department of Transportation
- Oil Creek Road – WV Department of Environmental Protection
- Masontown AML – WV Department of Environmental Protection
- Broaddus Hospital – Private
- Spruce Fork Face up – anchor Energy
- Route 60 Slide – WV Department of Transportation
- Mussleman High School – School Building Authority
- Calhoun County High School – School Building Authority
- Snowshoe Site and Utilities – Private

Donald Barger

Inspector, Level II

Education

Fairmont State University, A.A.S., 2005; Fairmont, WV

Air Police Academy Graduate (Class 14120), 1961

U. S. Air Force Technical Training School, Lackland Air Force Base, San Antonio, TX

Law Enforcement Supervisor Course (116 Hrs.), 1990

U. S. Air Force Technical Training School, Lackland Air Force Base, San Antonio, TX,

Certifications and Registrations

Transportation Engineering Technician #1239, Level III

WVDOH Compaction Inspector #243

WVDOH Concrete Technician #9454

WVDOH Aggregate Inspector #9454

WVDOH Portland Cement Concrete Technician #9454

WVDOH Hot Mix Asphalt Technician #9454

National Institute of Engineering Technicians Certificate #69968

Alexandria, VA - 1986

Certified Lumber Grader – National Hardwood Lumber Inspection School, Memphis, TN ,1969

Professional Auctioneer (WV License #1495) – Walton School of Auctioneering, Medina, OH, 2000

Experience and

Qualifications

Stantec – Buckhannon, WV-
Field Technician –Consultant – March 2008 - Present

Shuck Steel Fabricators, LLC–Shuck Construction Company, LLD-Fairmont, WV
Quality Control Testing and field Inspections – 2006-2008

WVDOH Construction , Charleston, WV
Assistant State Enforcement Officer, 1996-2006
Regional Supervisor, 1990-1996
Road Supervisor, 1969-1990

WVDOH Construction, Elkins, WV
Field Testing Coordinator, 1983-1989

English Construction Company, Altavista, VA
Quality Control Engineer, 1981-1983

WVDNR, French Creek, WV
Forest Ranger, 1981

WVDOH Construction, Elkins, WV
Field Inspector, 1973-1981

WV Air National Guard, Charleston, WV
Retired Master Sergeant

USAF, Active Duty, 1960-1966

Edward G. Haynes

Inspector – Level III

Stantec

Education

Concord College, Athens, WV

Princeton High School, Princeton, WV

Certifications

National Institute for certification in Engineering Technologies Level IV Highway Construction #61636
ACI Concrete Field Testing Technician – Grade I (ID#01025343)
PCI Certification – Level I (Registration # 11823) & Level II (Registration #21319)

Fairmont State University
Transportation Engineering Technician Sr., Construction Specialization #1026

Experience

Stantec Consulting Services, Inc.
Sept. 1, 2004 to Present
Lead Inspector, Prestressed Concrete Plant

WV Department of Highways (July 1978 – June 2004)
Princeton, West Virginia
Project Supervisor Inspector

Experience includes over 20 bridges, many roadway and paving projects , other miscellaneous highway construction projects, and pavement marking projects

SECTION IV

Relevant Project Briefs

Past Performance with respect to cost control, quality of work and compliance with schedules.

Each of the firms on our Team shares similar philosophies that are based on strong project management programs and quality management techniques. In order to maintain our reputations and attract new work, our Team members are extremely sensitive to cost control, quality of work, and compliance with performance schedules.

There are three components that ensure the cost-effective and efficient completion of any task that may be assigned under a task order contract: communication, expertise and accountability.

Communication:

Communication is a vital element to the project in order to ensure that all participants have a clear and concise understanding of the individual task's goals and objectives, scope, team member roles and final deliverables. Lines of communication from the Client to Project Manager as well as from the Project Manager to the rest of the Project Team are established early in the project with provisions made to ensure continued updates as needed.

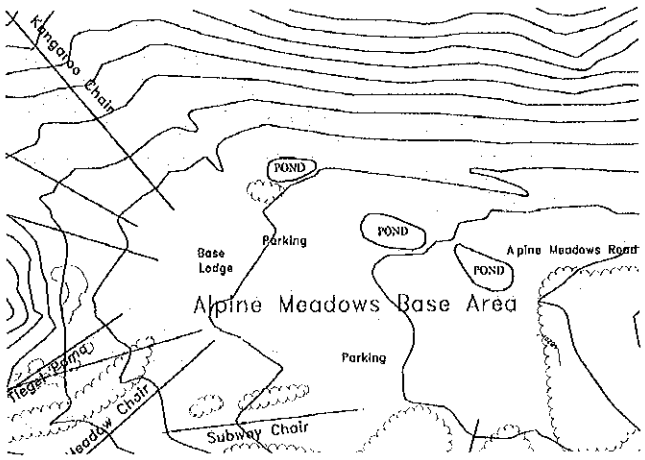
Expertise:

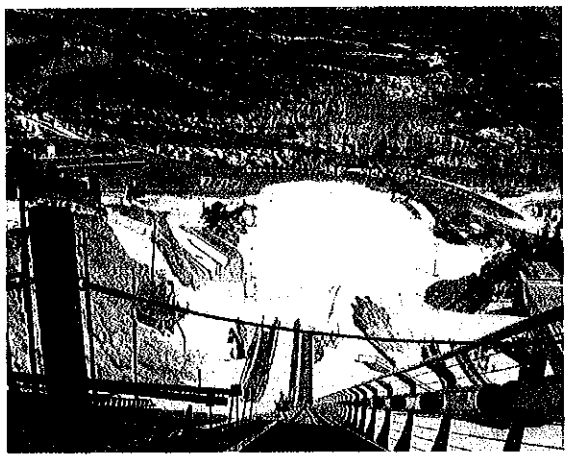
Our professionals, covering a variety of disciplines, are committed to a life-long learning environment. Training and educational advancement is achieved through professional associations, continuing education programs, seminars, professional development courses, as well as State and local agency training and certifications.

Accountability:

The Project Team is committed to ensuring that the individual projects are managed according to stringent quality requirements. QA/QC is provided throughout the life of a project. Management information support system provides project management the ability to assess progress, and promptly re-direct resources as required.

Mountain and Resort Planning





Alpine Meadows

Mountain and Resort Planning

Planning for ski areas and resorts requires a careful combination of vision and commitment, backed by significant relevant experience. The following examples of recent work typify the knowledge and experience of Stantec staff in a variety of terrains, markets, and environments.

Stantec creates a singular program and design for every project, tailoring the design for each individual resort to its unique market and environment. We consider national market conditions and statistics to be design measures, not design goals.

Alpine Meadows
Alpine Meadows, California

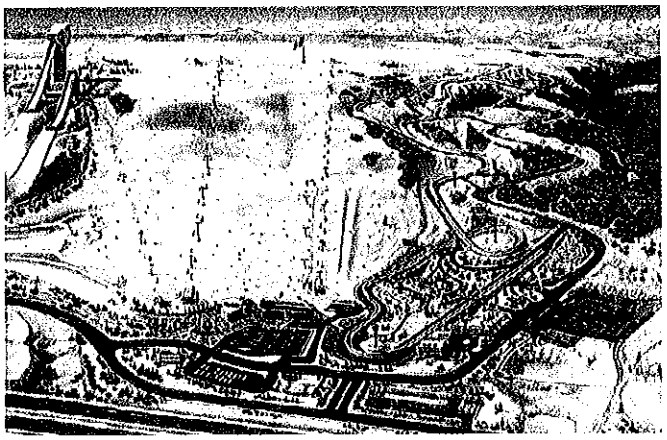
Stantec is providing master planning services to organize mountain redevelopment projects into an achievable systematic program for the resort. The redevelopment projects are designed to emphasis the distinctive characteristics of Alpine Meadows and increase skier service levels. Stantec developed conceptual plans for future lift replacements, additional parking areas, and incorporated plans for lodge redevelopment.

Stantec is coordinating the CEQA and NEPA approval processes and providing specialized environmental consulting for wetlands and water quality, including innovative bioswale provision for control of storm water and snowmelt runoff from the proposed major parking lot expansions. Stantec will also provide site civil design for the parking lot, including geometric layout, drainage, and groundwater dewatering system.

Canada Olympic Park Calgary, Alberta

Stantec prepared an Outline Plan concept and Land Use Redesignation application for the Canadian Centre of Sport Excellence that included the identification of public access requirements, transportation solutions, and locations for proposed site servicing. The application also describes the proposed districts for the development of the facility on the Calgary Olympic Development Association (CODA) lands.

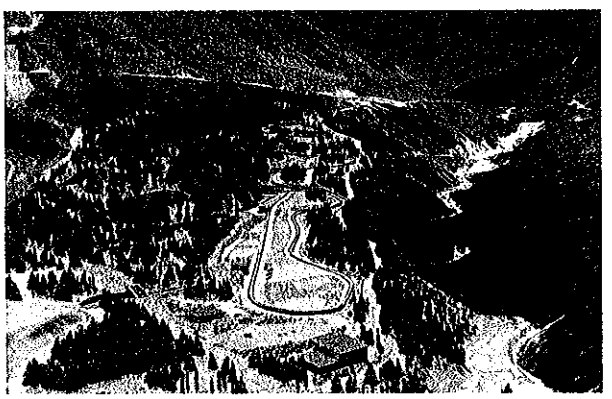
This first Canadian Centre of Sport Excellence will optimize the Olympic legacy facilities throughout Calgary and Bow Corridor. It is anticipated that the Canadian Centre of Sport Excellence will be developed over the next 20 years and will provide training, competition, and education for both Winter and Summer Olympic athletes and community recreation facilities that support health and wellness, as well as a year-round attraction for the city's many tourists and visitors.



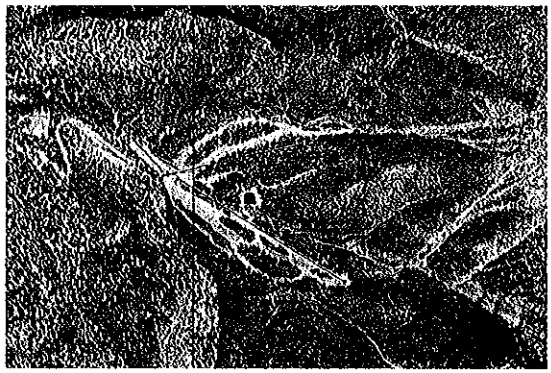
Whistler Sliding Centre, Vancouver 2010 Olympic Games Whistler, British Columbia

In preparation for the 2010 Olympic Games, Stantec is providing architecture, interior design, structural, mechanical, electrical, and civil engineering services for the Whistler Sliding Centre. Stantec is coordinating a team of consultants from within the Stantec organization, as well as external specialists, to support the completion of the detailed design and site master plan for the center. This project is highly specialized, as only 13 such tracks are currently in existence worldwide.

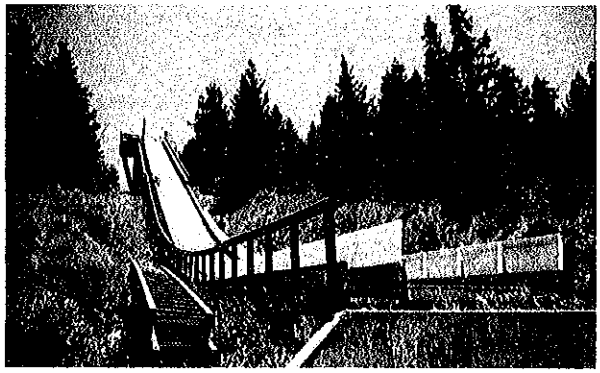
The Master Plan considers pre-games training and operations, temporary Olympic games functions, and long-term legacy operations and uses. Environmental protection and sustainability are design elements of the plan through careful siting of the track, minimizing tree removal, and emphasizing the use of previous site disturbance areas. The plan also includes coordinating the site elements with the adjacent Blackcomb Resort, including the provision of new skier access routes to the village and a new snow cat access road for resort operations.



Mountain and Resort Planning



Las Vegas Ski and Snowboard



Utah Winter Sports Park

Las Vegas Ski and Snowboard Resort
Clark County, Nevada

Forty minutes from downtown Las Vegas, Nevada, Las Vegas Ski and Snowboard Resort is undergoing a complete redevelopment to position the resort for future demands. The resort is located in the Spring Mountains National Recreation Area, adding additional requirements for environmental care and stewardship. Stantec is supporting the resort with master planning, environmental and regulatory planning, and detailed design for infrastructure and lift systems.

Stantec prepared a detailed master plan for the resort, with phasing plans and capital improvement budgets. Lifts and ski runs have been placed to avoid and minimize environmentally sensitive areas and to improve the quality of the ski experience. Stantec has designed the expansion of the parking area, increasing the available parking and reducing site erosion and runoff.

Utah Winter Sports Park
Park City, Utah

As a condition of being designated "America's Choice" by the US Olympic Committee, Salt Lake City and the State of Utah were required to commence construction of a series of winter sports facilities. The largest and most complex of these projects was the Utah Winter Sports Park - the site of bobsled, luge, skeleton, and ski jumping events.

Stantec specialists were selected to head up the Utah Winter Sports Park planning and design team. A joint-venture was established with a local mechanical engineering consultant. Other specialty firms were also incorporated into the team.

The team was responsible for the final site evaluation and prepared the site master plan. This included both the initial facilities and all major anticipated future elements. Phase I facilities included a refrigerated bobsled/luge track, a 1,500-ton refrigeration plant, two competition Nordic ski jumps (K-90, K-65) with summer jumping surfaces, an inverted aerial jump, several training jumps, site infrastructure, and a two-mile access road.

Stantec

Three Sisters Mountain Resort
Canmore, Alberta

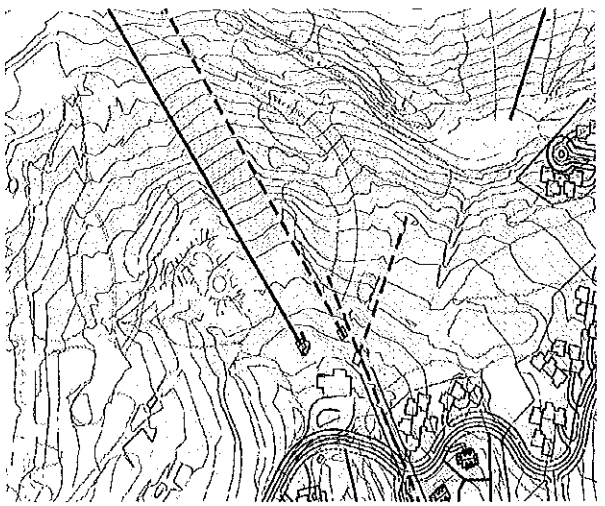
Stantec's Landscape Architects are working closely with other practitioners in the provision of comprehensive consulting services for the 1,800-acre Three Sisters Mountain Village (TSMV) development. This world-class destination resort, set against the backdrop of the Canadian Rockies, includes health and wellness-based recreation, mixed-use, and residential development. The site's integration with the surrounding mountain forest setting, which serves as a significant attraction, also poses particular challenges, including climatic variations, seasonal wildfire risks, wildlife corridors, and unique biophysical characteristics. Within this context, we led a collaborative consulting team to research, author, and publish landscape planning and management documents to guide development. These three handbooks, which include Flowering Landscapes of TSMV, Woody Plants of TSMV, and Vegetation Management Handbook, provide a comprehensive set of references for consultants, contractors, and residents within TSMV.

Three Sisters Mountain Resort

Big Mountain Resort
Whitefish, Montana

Stantec is providing strategic mountain planning services to increase skiing opportunities, better utilize existing service buildings, and integrate future village planning. Stantec planned the creation of a new beginner-teaching park, including up to three new lifts and slopes with specific grading to support progressive teaching. Stantec also re-planned the connection ski lift system between parking areas and upper and lower village areas. In addition, Stantec provided detailed grading plans to relocate existing lifts to increase skier access and minimize lift line interference. Stantec is planning new day-skier parking areas and coordinating the location of lifts and ski trails for future development areas.

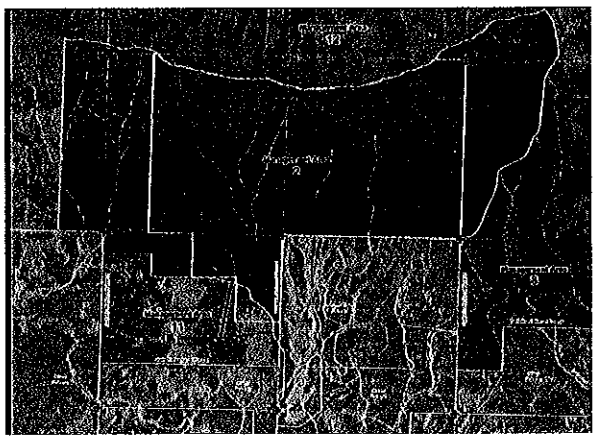
Flexibility to meet our client's needs and expectations.



Big Mountain Resort

Mountain and Resort Planning

Stantec



Bridger Bowl

Deer Valley Resort

Bridger Bowl
Bozeman, Montana

A Stantec team of environmental management and GIS specialists completed the U.S. Forest Service Environmental Impact Statement (EIS) for the Bridger Bowl Master Development Plan. The EIS incorporates the results of intensive wildlife resource studies, Inventoried Roadless Area analysis, and several years of public comments. The approval of the Master Development Plan would allow the expansion of the ski area to an additional 600 acres, adding five new lifts and skiing over the 40-year term of the Special Use Permit.

In the course of creating the final EIS for the project, Stantec coordinated the input of individual Forest Service specialists' reports, a biological evaluation and biological assessment, and external consultants into the document. The GIS team created new maps illustrating the complex management area proposed changes and habitat compartments; they supported the analysis with mapping data. The result of the analyses and coordination is a concise and thorough document for the assessment of impacts of the project proposal and alternatives.

Deer Valley Resort
Park City, Utah

For over 25 years, current Stantec employees have provided design and engineering solutions to Deer Valley Resort. We plan and execute our services with careful attention to meeting Deer Valley Resort's requirements for quality and delivery. Our services have included mountain planning, including run and lift layout; snowmaking system planning and engineering; snowmaking pump station engineering; and civil engineering for master utility systems including culinary and irrigation water booster pump stations and water storage tanks. We provide professional services in support of specialized efforts for watershed protection, erosion control, revegetation, and forest management consulting. Regulatory affairs include project approvals across two counties and the City of Park City, Utah.

Stantec

Park City Mountain Resort
Park City, Utah

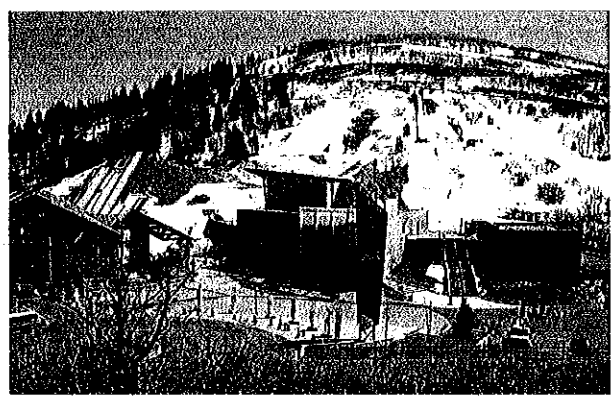
Stantec has been involved with planning and design work at Park City Mountain Resort for the last 20 years. Our work has included drainage control structures; including the Hollow ski run, one of the major collector runs just above the base area facilities; as well as the upper mountain culinary water system, which included the design of two high-pressure booster pumps.

More recently, Stantec has been involved in base area development, including water system, storm drainage, and access roads and parking for the resort's new Legacy Day Lodge and the Marriott Mountainside Resort. That project included the design of a super pressure-reducing valve station that supplies three different pressure zones, including the Marriott's high-rise culinary supply, the Legacy Lodge base area supply, and fire flow for both facilities. Stantec is currently designing on- and off-site wet and dry utilities and site/civil excavation and grading plans.

Utah Olympic Park Redevelopment Plan
Summit County, Utah

After the successful hosting of the 2002 Olympic Winter Games, the Utah Olympic Park was granted legacy funding for the continued operation and maintenance of the bobsled and ski jumps located on the site. The site also hosts a ski museum and a successful summer training facility for ski jumpers and ski aerialists. To support projected long-range capital needs and further the development of the facility for tourism and conference uses, Stantec was retained to create a master plan for the 366-acre site. Planned uses include destination hotel/spa sites, active sport oriented office campus buildings, and an improved arrival experience.

Considerations include long-range competition uses of the site, the location and organization of potential development sites, and a rigorous regulatory process. With the Park in a highly prominent and visible location, sensitivity to the site to minimize visual impacts and form compact areas of development are key elements of the process.



Stantec

Stratton Mountain Resort
Stratton, Vermont

For the last 40 years, Stantec has been working with Stratton Mountain Resort on various developments and improvements, from master planning villages and streetscapes to roadway work and environmental permitting. In fact, Stantec designed the original access road to the mountain in the early 1960s.

More recently, we designed the plans and construction documents for several single- and multi-family housing units, a parking garage, and the streetscape design of the resort's Village Center, which includes lighting, an outdoor café, signage, furnishings, and paved surfaces. Stantec has also designed base lodge renovations, roadway extensions, snowmaking structures, and ski-on/ski-off access routes, among dozens of other projects.

Okemo Mountain Resort
Ludlow, Vermont

When Okemo Resort was purchased by its current owners in the early 1980s, they hired Stantec to work on the master plans for revitalizing the resort. Over the next 20 years, we designed four five-year master plans that included over 1,500 housing units, plans for the main base lodge area, and the initial concept planning for Jackson Gore, a new development on the mountain that includes its own access road, a base facility, a village inn, a restaurant, shops, sport amenities, 16 new trails, and five new lifts.

Stantec has also provided site planning and visual impact assessments for Okemo, as well as master planning, site planning, site details, grading, layout, and planting plans for recreational and residential areas of Solitude Village at the resort.

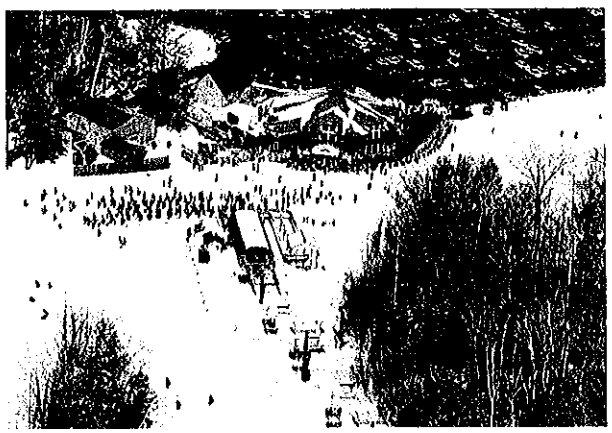
On the pulse of trends and technologies to meet our clients' needs.

Stantec

Mount Sunapee Resort
Newbury, New Hampshire

Stantec was hired by the New Hampshire Department of Resources and Economic Development to prepare a long-range master plan for improvements to this 700-acre summer and winter recreation area. The plan maps out the resort's expansions, improvements, and operations over the next five years.

These plans include new and expanded ski and snowboard trails, summer use trails, lifts, base facilities, a new base lodge location, parking and access improvements, infrastructure improvements, support facilities, and summer recreation facilities. Stantec was careful to pay special consideration in the plans to protecting existing old growth forest, rare plants, shoreline resources, water quality, and other natural resources in and around the resort.



Ascutney Mountain Resort
Brownsville, Vermont

After serving as a small ski resort for over 40 years, Mt. Ascutney Ski Area went bankrupt in the late 1980s, leaving it unused for several years. When new owners purchased the area, they hired Stantec to design the new master plan to bring the resort back to life. After conducting a series of extensive public participation forums, we developed a plan that included a large golf course, a new village, single- and multi-family housing, a 100-unit hotel, and a health and fitness sports center, all of which have since been constructed.

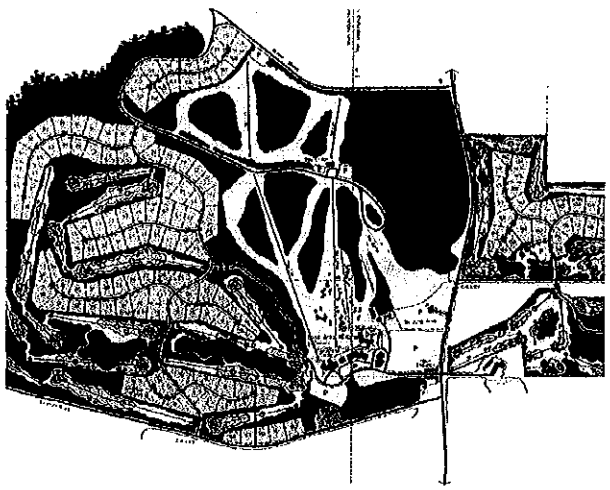
Since that initial plan, Stantec has continued doing work for the mountain, designing the master plans for golf course expansions, snowmaking systems, traffic circulation, and other amenities. Our designs earned the resort an honor award from the Boston Society of Landscape Architects.

Stantec

Pine Mountain Resort
Iron Mountain, Michigan

Originally owned by members of the Pabst Brewing family, Pine Mountain resort is a ski area dedicated to alpine skiing, cross-country skiing, and ski jumping. As the distinctive resort grew in popularity, Stantec was hired to design a new master plan, which added nine holes to an existing nine-hole golf course, new trails to the base lodge, single- and multi-family trailside housing, additional parking, and a golf club house. In addition, Stantec designed the conceptual architectural plans for a new base lodge, which included a 1,200-seat conference center and 27,000 square feet of retail space.

Today, the resort operates year-round offering golf, water sports, hiking, and family recreation activities in the summer and its special selection of skiing and snowboarding in the winter.



Pine Mountain Resort
Shawnee Peak Resort

Shawnee Peak Resort Bridgton, Maine
The longest-running ski area in Maine, Shawnee Peak is noted as a family mountain with a variety of trails, terrain parks, and amenities. Stantec developed the mountain's master plan and the construction plans for renovations to the base lodge, which included the ticketing and drop-off area, as well as a daycare facility. During the planning process, we developed a number of conceptual drawings and sketches for the renovations and created computer simulations of color schemes for the new building.

Mountain and Resort Planning

We understand the specific needs of Mountain Resort facilities.

Stantec

Bromley Mountain Resort
Manchester, Vermont

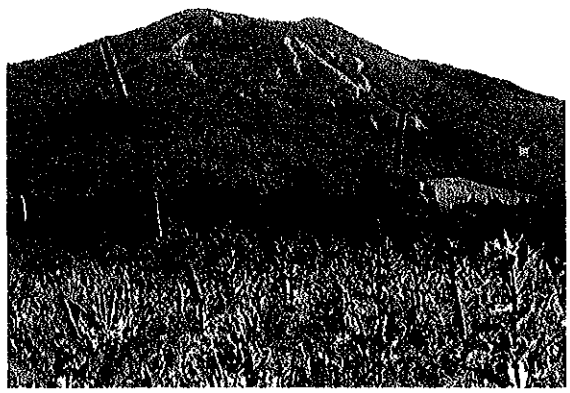
Known as Vermont's "sun" mountain for its bright southern exposure, Bromley Mountain Resort is a favorite of families who love to ski. The mountain hired Stantec to develop a master plan for the base area of the resort, including new signs, lighting, site and landscape improvements, and planting. The project also included site analysis, sketch alternatives, phasing suggestions, cost estimates, and vehicular and pedestrian circulation plans.

In addition to the base area plan, Stantec prepared final designs for the plaza at the main entrance of the resort and a stairway that incorporated heated pavement, lighting, railings, wiring, drainage, and electrical service. Stantec provided the bidding and contract documents for these plans as well.

Burke Mountain East
Burke, Vermont

Burke Mountain is located in the heart of Vermont's Northeast Kingdom, a remote section of northern Vermont, removed from the more populated central and southern areas of the state. Seeing the potential of the mountain to become a premier four-season resort, the new owners of Burke Mountain retained Stantec to design a new master plan and manage the permitting for the improvements to make that vision happen.

Plans for the mountain include single-family home sites, a hotel, a golf course, restaurants, and expanded ski facilities, which will allow the resort to offer activities and amenities year-round. To date, Stantec has completed a wildlife study and begun preliminary design, engineering, and permitting for new mountain and resort expansion and development.



Mountain and Resort

Engineering & Environmental Management

Stantec

Snowbasin Ski Resort
Huntsville, Utah

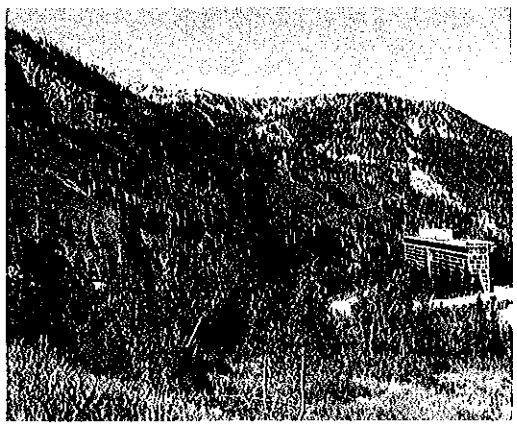
Mountain and Resort Engineering and Environmental Management

Engineering of resort developments is a skill developed from experience. The selection of appropriate sites and materials, and the understanding of the supply demands of water, snowmaking, and wastewater systems, is made more complex by the steep terrain and the sensitive environment in which the operations must take place. Stantec engineers have provided snowmaking storage and distribution, as well as water, culinary water, and wastewater supply to resorts across the Rocky Mountains.

The close working relationships between our in-house engineers and environmental management staff means that consideration of environmental issues is accomplished in a timely manner, as an integral part of the project process.

As part of the expansion of the Snowbasin Ski Resort in preparation for the 2002 Winter Olympic Games, Stantec completed the master planning, design, construction management, and surveying for Phase I infrastructure improvements to this 14,000-acre ski area and community. The expansion was driven both by the Olympics and the desire of owner Earl Holding to develop Snowbasin into a world-class destination. Stantec was involved in developing a long-term sustainable groundwater source to meet snowmaking, potable, and irrigation demands. We also prepared the master plan of the Upper Mountain water supply storage and distribution system. With respect to environmental permitting, Stantec's specialists assisted Snowbasin in obtaining permits and remaining in compliance with the multiple government agencies for stream alteration, dam safety, and UPDES. We provided site surveying, grading, design, and daily construction observation services relative to sewer collection and transportation infrastructure, including two 1,000-car parking lots complete with underdrains, storm drainage collection systems, and stormwater ponds.

Stantec



Snowbird Ski Resort
Snowbird, Utah

Stantec has completed several key projects for Snowbird Ski Resort in recent years, including an expansion/upgrade of Cliff Lodge for which we provided design, plans and specifications, permits, and construction observation services. Stantec designed a diversion dike to divert the stream to the new channel, prepared hydrologic calculations for use in hydraulic design, and designed energy dissipation structures and riprap for stream channel erosion protection. We also successfully designed unique water system improvements, including developing a primary water supply from an existing mine drain tunnel, hydropower plant, and pump station. The system also included the development of a storage reservoir using a high elevation mine tunnel by installing an additional bulkhead and control valve station.

In conjunction with UDOT, Stantec redesigned and upgraded the Alta Bypass Road. Our services included a traffic analysis, relocation of Little Cottonwood Creek, raising of the roadway, construction of a major grade separation, parking access, and a 87-foot span by 35-foot wide bridge.

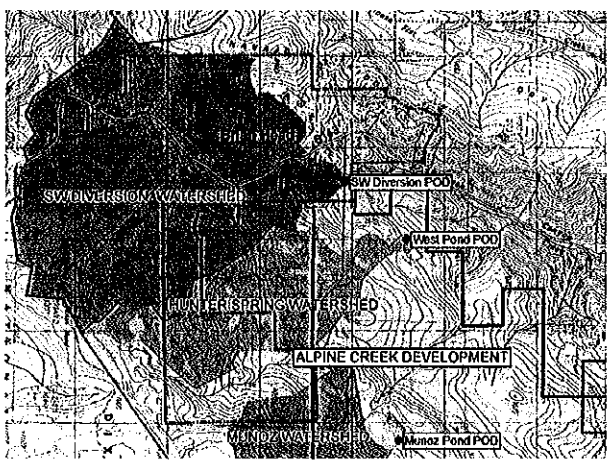
The Canyons Resort
Park City, Utah

Stantec provided the engineering, development, and construction administration support for all of infrastructure improvements associated with the Canyons' proposed 5,300-acre destination resort development, which is expected to take place over the next 15-20 years. Stantec was commissioned to plan and design the resort's major water distribution and sewage collection systems and their connections to the major trunk lines of water and sewer districts. Our team of specialists also provided infrastructure design support for the snow making systems, which includes master planning and water line piping, pumping, and storage systems. Our team was further engaged to complete the design for multiple site/civil development additions to the core facility to accommodate two new hotels, 65 condominiums, and 25 high-end, individual residential lots. Stantec has provided site development services for three members of the Special Planned Area (SPA) within the Resort for a hotel, 24 condominiums, and 13 cabin sites. Our involvement has included surveying, lot layout, roadways, utilities, storm drain systems, ancillary structures, and the connection of these systems into The Canyons infrastructure.

Brianhead Resort
Alpine CreekBrian Head, Utah

Stantec is providing specialized planning and engineering services to this new 16,000-acre development at Brianhead Resort. The Alpine Creek project will ultimately consist of approximately 1,300 resort and second home units with golf course and ski-in/ski-out access.

Stantec is providing all project civil engineering needs, including civil infrastructure, design, platting, master water system, wastewater system engineering, water pumping and storage tank design, and snowmaking storage pond design, as well as geohydrology services for location and construction of all culinary water wells. Stantec planners are coordinating with ski-in and ski-out provisions and providing technical support to the regulatory processes. Of particular note is Stantec's provision of detailed expert witness testimony for water rights hearings and the development of unique wastewater reuse plan for the project.

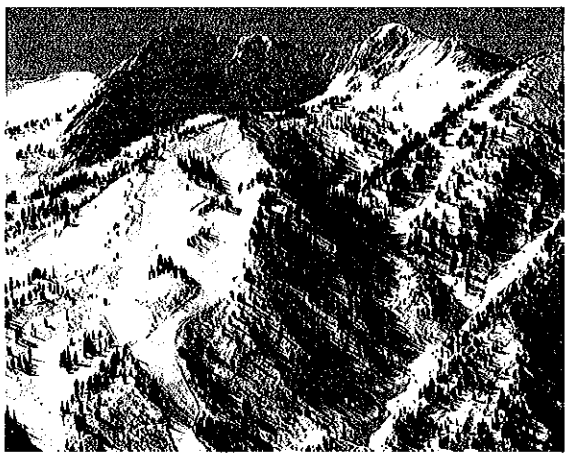


Solitude Mountain Ski Resort
Solitude, Utah

Stantec provided master planning, design, permitting assistance, and construction management services for the water systems to service the future expansion of this resort. The water system expansion consisted of 3.5 miles of waterline, a low-pressure mine bulkhead to store 3.2 million gallons of water, a 250,000-gallon temporary storage bulkhead inside the Alta Drain Tunnel, a pumping station to service the snowmaking system, and a 500,000-gallon buried reinforced concrete tank.

Stantec staff were also responsible for the development and analysis of alternatives for the replacement of base area skier support facilities, the addition of overnight accommodations, and all associated infrastructure and utilities. As part of the resort expansion, Stantec engineers and related specialists assisted Solitude with the protection of stream water quality through a pre-planned run-off and erosion control program. A wetlands delineation and mitigation plan of the area was also completed.

Mountain and Resort Buildings



Mountain and Resort Buildings

At Stantec, we bring innovation to the design of mountain and resort projects, focusing on the unique characteristics inherent in the program, image, budget, operations, and constructability of each facility. Stantec's multidiscipline team offers an array of services, ranging from full facility master planning to project-specific services. By providing services throughout a project's life cycle, we can be involved at project inception and remain as our clients' representative and principal consultant throughout the entire process. In this way, we can enhance the project outcome by helping to shape ideas and direction, ultimately leading to more responsive and cost-effective solutions.

The Stantec projects outlined in the following pages are indicative of the range of knowledge and experience Stantec provides to hotels, lodges, and ski-in/ski-out projects. Our team also brings the hands-on experience related to ski bridges and tunnels required to address resort developments' unique requirements for the integration of ski-in and ski-out trails.

Fairmont Jasper Park Lodge
Jasper National Park, Alberta

Stantec was commissioned by Canadian Pacific Hotels (now Fairmont Hotels & Resorts) to bring together the planning work it and others had undertaken for Jasper Park Lodge and to draft the Jasper Park Lodge Development Plan and Environmental Assessment.

Since its establishment in the 1920s, the Lodge has enjoyed an international reputation as a world-class facility. Accompanied by a large number of maps and other illustrative materials, the Plan presented a systematic statement on the owner's vision for Jasper Park Lodge in the context of the Jasper National Park Management Plan, responses from stakeholders, and a corporate policy contributing to evolution of the Lodge as a heritage tourism hotel. The Plan included a development program for each of several redevelopment, cultural, and special protection districts, and provided detailed information regarding future utilities and infrastructure.

Stantec

Marriott Mountainside Condominiums Park City, Utah

Stantec prepared the utility design, grading, condominium drawings, site and drainage plans, fireflow analysis, and dry utility design for the Marriott MountainSide Condominium project. Our specialized, highly experienced land development team provided unique, comprehensive project solutions designed to fully address the client's needs.

Located slope-side at the heart of Park City Mountain Resort Village and overlooking the 2002 Winter Olympic venues, Marriott Vacation Club International's MountainSide Condominiums offers unparalleled ski-in/ski-out access to the mountain from 182 timeshare villas. Other amenities include an owner's lounge and health club, seven-story atrium grand stair, cascading outdoor spas, and year-round swimming pool.

The Colony Ski-In/Ski-Out Community Summit County, Utah

Stantec provided design services for wells, pump stations, and tanks, as well as over five miles of water and sewermains. The sewermain design curved the pipe around the mountain switchbacks, reducing the number of manholes required and, therefore, cost. Stantec's team of specialists were also actively involved in the planning and design of the roads and bridges at this mountain development. Phase Two of the project included roadway design, as well as 20 bridges that cross roads, ski runs, or creeks. A combination of mechanically stabilized earth retaining structures were used in the design of downhill walls along the roadway allowing for the use of native vegetation to screen the roadway and enhance the visual impact of the development. The scheduling of pre-loading for bridge sites was reviewed and addressed early on so that adequate settling would occur prior to the construction of the roadway or bridges. Stantec provided staff at the site to perform construction administration, weekly construction review, daily field observation of utilities, testing and start-up of water systems, and escrow release reviews.

Stantec

Wending Creek Golf Course Hydrogeological Services

Potter County, Pennsylvania

Stantec provided hydrogeological services in support of the design of a new 18-hole golf course at Wending Creek.

To ascertain whether the site could provide enough water for irrigation, Stantec constructed a computer model that simulated steady state conditions of the local water table surface, which integrated topology, stratigraphy and hydrogeologic data to identify locations for test drilling into the Catskill Formation.

Stantec observed the drilling of five supply wells and analyzed data from step-drawdown testing and 48-hour pumping tests on each well. Four of the five test wells were arranged in two fields approximately 1,500 feet apart demonstrating that the Catskill bedrock aquifer could supply groundwater at a net rate of 250 gallons per minute for irrigation.

Using computer modeling, Stantec was able to develop a proposed water level monitoring program for the operational life of the facility.

Westchester County Firing Range

Valhalla, New York

Stantec performed topographic survey, geotechnical investigation/engineering, and drainage design for the new Westchester County firearms training facility for HLW International LLP and the Westchester County Department of Public Works.

As part of the project team, Stantec performed a field survey and prepared a topographic base map of the project site; oversaw a subsurface investigation and the preparation of a foundation report; and performed a stormwater management design for the new facility.

The firm prepared a Stormwater Management Design & Report in accordance with EPA and NYSDEC regulations for the issuance of SPDES permits for smaller construction sites.

Components of the design included erosion and sediment control, water quality treatment of runoff, and water quantity volume control. Stantec designed a subsurface infiltration/detention facility, which consisted of a parallel pipe system with perforations to store and infiltrate the collected runoff.

Architect: LW International LLP
Client: Westchester County Department of Public Works
Completed: 2007
Cost: $2,500,000

Raspberry Falls Golf Course / Clubhouse

Leesburg, Virginia

In addition to extensive work on the residential portions of the Raspberry Falls development, the firm provided services for improvements to the golf and hunt club and the pool house.

Stantec provided engineering and surveying services for Raspberry Falls, an 830-acre development of single-family homes and recreational facilities, since 1995. The development is located 15 minutes from Washington Dulles Airport, just three miles north of downtown Leesburg, Virginia.

Stantec prepared construction drawings for site improvements for the Golf & Hunt Club; an upscale, daily fee facility considered one of the most celebrated golf courses in the Northern Virginia/Greater Washington DC region. Site improvements to the clubhouse included a 5,000-square-foot building expansion, the addition of 90 parking spaces with associated travel ways. Construction plan drawings included geometric layout of the site and preparation of grading plans, utility plans and profiles, erosion and sediment control plans and stormwater management.

Stantec also prepared planning and construction drawings for site improvements for the Community Pool House and Tennis Facilities within Raspberry Falls. Site amenities included a 1,000-square-foot pool house, 3,150-square-foot community swimming pool, two tennis courts, sidewalks and trails, and 30 paved parking spaces with associated travel ways. Preparation of construction plans included geometric layout of the site as well as preparation grading plans, utility plans and profiles, landscape plans, erosion and sediment control plans, and stormwater management.

MTD Products Conveyor Bridge

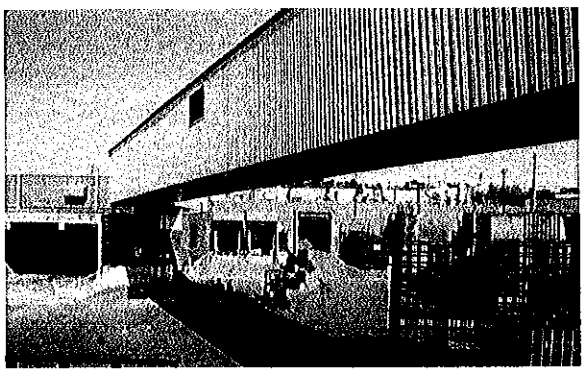
Kitchener, Ontario

Stantec

Stantec met the Owner's needs for additional warehousing space and a solution for transferring product from the manufacturing plant to the warehouse across the street.

When MTD Products required additional warehouse space, Stantec delivered services including envelope design with full code analysis along with site, structural, mechanical and electrical design and contract administration for this 50,000 sq ft warehouse and conveyor bridge addition.

The bridge was designed to transfer product over a city street from the manufacturing plant to the new addition. Services included assisting to obtain the air rights agreement, bridge design, code analysis and envelope design. In conjunction with the bridge, Stantec designed a conveyor penthouse over the new warehouse roof which was constructed at the same time. Because the main electrical substation for the entire building was located in the area of the new warehouse building addition, Stantec designed a new feed around the new building along with a new substation. The new service was activated over a weekend with no lost time to the owner.

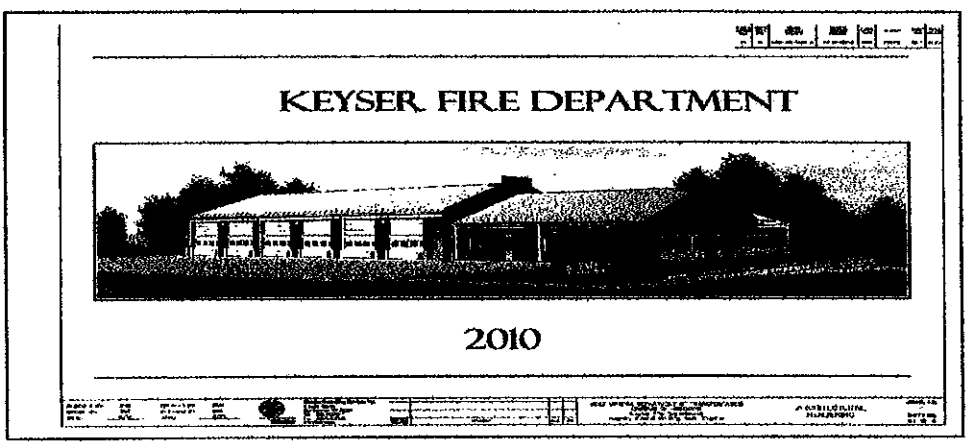


Stantec

Keyser McCool Fire Station Relocation

Keyser, West Virginia

Stantec provided engineering services for the West Virginia Division of Highways including; planning, surveying, site design, permitting, and associated construction documents.



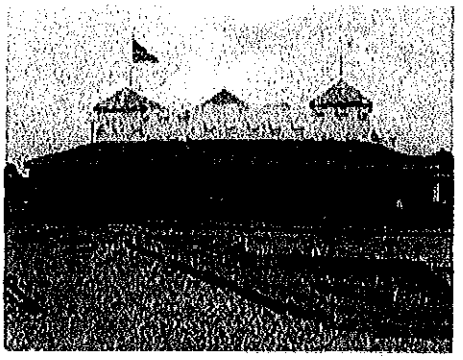
Texas Roadhouse

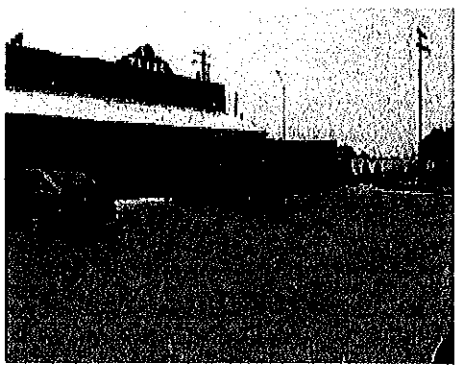
Parkersburg, WV

Stantec

Stantec has provided planning, engineering, surveying and environmental services for this 2.5 acre commercial development.

Stantec prepared construction drawings for site development of this 2.5 acre site in Parkersburg, West Virginia. This site is located between Murdach Avenue and Ohio Avenue along a busy section of Parkersburg. The project consisted of the redevelopment of an existing mixed use commercial and residential property and included services from several disciplines.





The site development included razing several existing buildings and construction of the 42,000 square foot Texas Roadhouse restaurant. The project included 200 new parking spaces, 3 new entrances to public right-of-way, pedestrian access and redeveloped/improved traffic pattern to, from an d within the site. The site included a detailed construction plans, site assessment for zoning and land use, traffic study, storm water management, utility assessment/design and NPDES Environmental Permitting. Additionally full survey services were performed that included field run topography/as-builts with ALTA/ACSM survey and construction stakeout.

SECTION V

References

References

Mr. Jeff Miller
Camp Dawson
Jeff.s.miller@wv.ngb.army.mil
304-791-4389

Mr. Gregg Smith, P.E.
Project Manager
West Virginia Department of Environmental Protection
105 South Railroad Street, Suite 310
Philippi, WV 26416
304-457-3219

Mr. Gene Saurborn
Watershed Management Director
West Virginia Conservation Agency
201 Scott Avenue
Morgantown, WV 26508
304-285-3118

Mr. Darrell Allen, P.E.
Deputy State Highway Engineer/Construction & Development
West Virginia Division of Highways
Building 5 - 1900 Kanawha Boulevard
Charleston, WV 25305
304-558-6266

Mr. David McCoy, Project Manager
West Virginia Department of Environmental Protection
105 South Railroad Street, Suite 310
Philippi, WV 26416
304-457-3219

Mr. Joe Pope
Pope Properties
30-4-768-4978

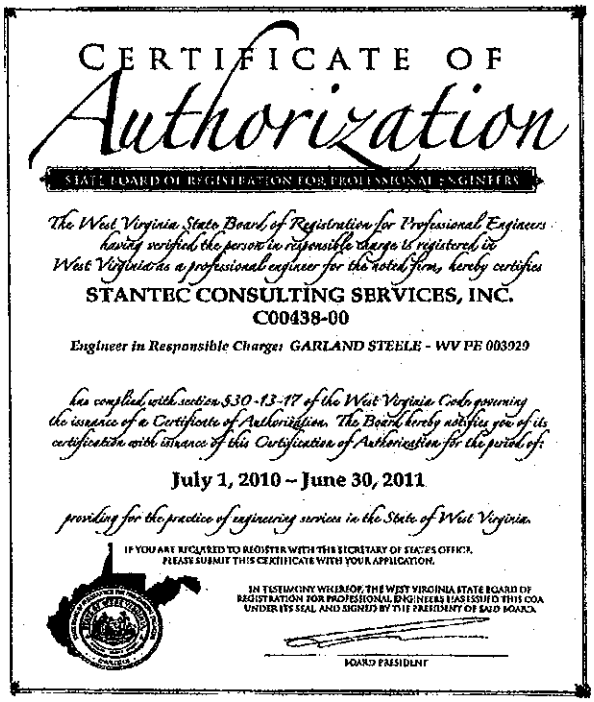
Mr. Gregory L. Bailey, P.E.
Director, Engineering Division – West Virginia Division of Highways
Building Five – Room A317
1900 Kanawha Boulevard, East
Charleston, WV 25305

Ms. Jennifer Belcher
Construction Engineer – District 10 – WVDOH
270 Hardwood Lane
Princeton, WV 24740
304-487-5271
RFQ #DEFK11026

SECTION VI

Certificates of Authorization

CERTIFICATES OF AUTHORIZATION



CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

STANTEC CONSULTING SERVICES, INC.
C00438-00

Engineer in Responsible Charge: GARLAND STEELE - WV PE 003929

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

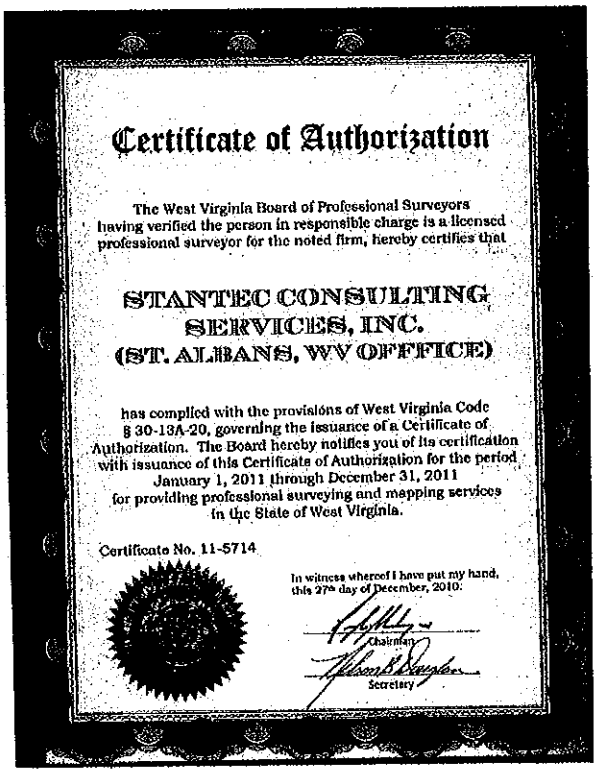
July 1, 2010 – June 30, 2011

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT



Certificate of Authorization

The West Virginia Board of Professional Surveyors having verified the person in responsible charge is a licensed professional surveyor for the noted firm, hereby certifies that

STANTEC CONSULTING SERVICES, INC. (ST. ALBANS, WV OFFICE)

has complied with the provisions of West Virginia Code § 30-13A-20, governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certificate of Authorization for the period January 1, 2011 through December 31, 2011 for providing professional surveying and mapping services in the State of West Virginia.

Certificate No. 11-5714

In witness whereof I have put my hand, this 27th day of December, 2010:

Chairman

Secretary

SECTION VII

Solicitation for Expressions of Interest (including all signed pages)

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER: DNRB11059

PAGE: 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR:
Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon, WV 26201

Stantec

SHIP TO:
DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/07/2011				

BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	********** ADDENDUM NO. 1 **********					
	THIS ADDENDUM IS ISSUED TO PROVIED THE FOLLOWING TECHNICAL QUESTION AND ANSWER.					
	QUESTION: HAS A MASTER DEVELOPMENT PLAN BEEN PREPARED FOR THE SKI AREA AND IS IT AVAILABLE FOR REVIEW?					
	ANSWER: THERE IS NO APPLICABLE MASTER PLAN DEVELOPMENT.					
	********** END ADDENDUM NO. 1 **********					
0001	1	LS		906-00-00-001		
	ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL					
	****** THIS IS THE END OF RFQ DNRB11059 ****** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: [signature] TELEPHONE: 304-472-7140 DATE: March 17, 2011

TITLE: RA/RC Engineer FEIN: 11-2167170 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
DNRB11059	2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR
Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon, WV 26201
Stantec

SHIP TO
DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/16/2011				

BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT

ADDENDUM NO.'S:

NO. 1 .....

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

Barbara K. Stubbs
SIGNATURE

STANTEC CONSULTING SERVICES INC.
COMPANY

MARCH 17, 2011
DATE

NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Barbara K. Stubbs	304-472-7140	March 17, 2011
TITLE: QA/QC Engineer	FEIN: 11-2167170	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER: DNRB11059

PAGE: 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR

Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon, WV 26201

Stantec

SHIP TO

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/16/2011				

BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST
(EOI)

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, IS SOLICITING EXPTRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR SKI AREA IMPROVEMENTS AT CANAAN VALLEY RESORT STATE PARK, TUCKER COUNTY, WV PER THE ATTACHED.

ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING T FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/02/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.

EXHIBIT 10

REQUISITION NO.: .....

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304-472-7140 DATE March 17, 2011

TITLE VP/PC Engineer FEIN 11-2167170

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
DNRB11059	3

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR
Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon, WV 26201
Stantec

SHIP TO
DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/16/2011				

BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

REV. 09/21/2009

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER: 44

RFQ. NO.: DNRB11059

BID OPENING DATE: 03/22/2011

BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304-472-6239

CONTACT PERSON (PLEASE PRINT CLEARLY):

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Bernard W. Stotler TELEPHONE 304-472-7140 DATE March 17, 2011

TITLE E & RC Engineer FEIN 11-2167170

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER: DNRB11059

PAGE: 4

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR
Stantec Consulting Services Inc.
One Moore Avenue
Buckhannon, WV 26201

Stantec

SHIP TO
DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/16/2011				

BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				Garland Steele.		
				****** THIS IS THE END OF RFQ DNRB11059 ****** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: Garland W. Steele TELEPHONE: 304-472-7240 DATE: March 17, 2011

TITLE: RA/RL Engineer FEIN: 11-2167170

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

EXPRESSION OF INTEREST
Canaan Valley Resort State Park
Ski Area and other Improvements
#DNRB11059

Part 1 **GENERAL INFORMATION**

1.1 **Purpose:**
The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for West Virginia Division of Natural Resources, Parks and Recreation Section, "Agency", from qualified firms to provide architectural and engineering services as defined in section two (2) and three (3).

1.2 **Project:**

The mission or purpose of the project described in sections 2.& 3 is to provide professional architectural and engineering services pursuant to the following objectives:

Provide necessary professional architectural, engineering and related services to design and construct improvements to the ski area and other facilities which may include; increasing the potable water supply for the park , repairs to the ski area parking lots, construction of a shooting range, installation of a conveyor type surface lift to move customers from the base facility to the lower ski lift area, renovations or replacement of surface lift components, renovation and extension of the snow making systems and other related improvements further described in section 3.2 of this solicitation. The facility is located in Tucker County, West Virginia.

1.3 **Format: N/A**

1.4 **Inquiries:**
Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Frank Whittaker, Senior Buyer
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

1.5 **Vendor Registration:**
Firms participating in this process should complete and file a ***Vendor Registration and Disclosure Statement*** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful firm must** register and pay the fee prior to the issuance of an actual contract.

1.6 **Oral Statements and Commitments:**
Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm' s representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

1.7 **Economy of Preparation:**
EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI. Emphasis should be placed on completeness and clarity of content.

1.8 **Labeling of the Sections:** The response sections should be labeled for ease of evaluation.

1.9 **Submission:**
1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according

West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

One original plus (3) convenience copies to:
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

The outside of the envelope or package(s) should be clearly marked:

Buyer: Frank Whittaker-44
Req#: DNRB11059
Opening Date: 03/22/2011
Opening Time: 1:30pm

1.10 **Rejection of Expressions:**
The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 **Incurring Costs:**
The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 **Addenda:**
If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 **Independent Price Determination:**
A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 **Price Quotations:** No "price" or "fee" quotation is requested or permitted in

EXPRESSION OF INTEREST
Canaan Valley Resort State Park
Ski Area and other Improvements
#DNRB11059

Part 1 GENERAL INFORMATION

1.1 Purpose:

The Acquisition and Contract Administration Section of the Purchasing Division "State" is soliciting Expression(s) of Interest (EOI) for West Virginia Division of Natural Resources, Parks and Recreation Section, "Agency", from qualified firms to provide architectural and engineering services as defined in section two (2) and three (3).

1.2 Project:

The mission or purpose of the project described in sections 2.& 3 is to provide professional architectural and engineering services pursuant to the following objectives:

Provide necessary professional architectural, engineering and related services to design and construct improvements to the ski area and other facilities which may include; increasing the potable water supply for the park , repairs to the ski area parking lots, construction of a shooting range, installation of a conveyor type surface lift to move customers from the base facility to the lower ski lift area, renovations or replacement of surface lift components, renovation and extension of the snow making systems and other related improvements further described in section 3.2 of this solicitation. The facility is located in Tucker County, West Virginia.

1.3 Format: N/A

1.4 Inquiries:

Additional information inquiries regarding this EOI must be submitted in writing to the State Buyer with the exception of questions regarding proposal submission, which may be oral. The deadline for written inquiries is identified in the Schedule of Events, Section 1.16. All inquiries of specification clarification must be addressed to:

Frank Whittaker, Senior Buyer
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-0130
Fax: (304) 558-4115

The firm, or anyone on the firm's behalf, is not permitted to make any contact whatsoever with any member of the evaluation committee. Violation may result in rejection of the EOI. The State Buyer named above is the sole contact for any and all inquiries after this EOI has been released.

1.5 **Vendor Registration:**
Firms participating in this process should complete and file a ***Vendor Registration and Disclosure Statement*** (Form WV-1) and remit the registration fee. Firm is not required to be a registered vendor in order to submit an EOI, but the **successful firm must** register and pay the fee prior to the issuance of an actual contract.

1.6 **Oral Statements and Commitments:**
Firm must clearly understand that any verbal representations made or assumed to be made during any oral discussions held between firm' s representatives and any State personnel are **not** binding. Only the information issued in writing and added to the Expression of Interest specifications file by an official written addendum is binding.

1.7 **Economy of Preparation:**
EOI's should be prepared simply and economically, providing a straightforward, concise description of firm's abilities to satisfy the requirements of the EOI. Emphasis should be placed on completeness and clarity of content.

1.8 **Labeling of the Sections:** The response sections should be labeled for ease of evaluation.

1.9 **Submission:**
1.9.1 State law requires that the original expression shall be submitted to the Purchasing Division. All copies to the Purchasing Division must be submitted **prior** to the date and time stipulated as the opening date. All expressions will be date and time stamped on the Purchasing Division official time clock to verify time and date of receipt.

1.9.2 Firms mailing expressions should allow sufficient time for mail delivery to ensure timely arrival. The Purchasing Division **CANNOT** waive or excuse late receipt of an expression which is delayed and late for any reason according

West Virginia State Code §5A-3-11. Any EOI received after the bid opening time and date will be immediately disqualified in accordance with State law and the Legislative Rule 148-CSR-1.

Submit:

One original plus (3) convenience copies to:
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

The outside of the envelope or package(s) should be clearly marked:

Buyer: Frank Whittaker-44
Req#: DNRB11059
Opening Date: 03/22/2011
Opening Time: 1:30pm

1.10 **Rejection of Expressions:**
The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. However, the State reserves the right to accept or reject any or all expressions and to reserve the right to withdraw this Expression of Interest at any time and for any reason. Submission of, or receipt by the State of Expressions confers no rights upon the firm nor obligates the State in any manner.

1.11 **Incurring Costs:**
The State and any of its employees or officers shall not be held liable for any expenses incurred by any firm responding to this EOI for expenses to prepare, deliver, or to attend the short-list interviews.

1.12 **Addenda:**
If it becomes necessary to revise any part of this EOI, an official written addendum will be issued by the State to all potential firms of record.

1.13 **Independent Price Determination:**
A contract will not be considered for award if the negotiated price was not arrived at independently without collusion, consultation, communication, or agreement as to any matter relating to prices with any competitor.

1.14 **Price Quotations:** No "price" or "fee" quotation is requested or permitted in

the response.

1.15 **Public Record:**

1.15.1 *Submissions are Public Record.*
All documents submitted to the State Purchasing Division related to purchase orders/contracts are considered public records. All EOI's submitted by firms shall become public information and are available for inspection during normal official business hours in the Purchasing Division Records and Distribution center after the expressions have been opened.

1.15.2 *Written Release of Information.*
All public information may be released with or without a Freedom of Information request, however, only a written request will be acted upon with duplication fees paid in advance. Duplication fees shall apply to all requests for copies of any document. Currently the fees are $0.50/page, or a minimum of $10.00 per request, which ever is greater.

1.15.3 *Risk of Disclosure.*
The only exemptions to disclosure of information are listed in West Virginia Code §29B-1-4. Primarily, only trade secrets as submitted by a firm are the only exemption to public disclosure. The submission of any information to the State by a firm puts the risk of disclosure on the firm. The submission of any information to the State by a vendor puts the risk of disclosure on the vendor. The State does not guarantee non-disclosure of any information to the public.

1.16 **Schedule of Events:**

Release of the EOI 02/16/2011
Firm's Written Questions Submission Deadline. 03/02/2011
Addendum Issued TBD
Expressions of Interest Opening Date 03/22/2011
Estimated Date for Interviews TBD

1.17 **Mandatory Prebid Conference: Not Applicable**

1.18 **Bond Requirements: Not Applicable**

1.19 **Purchasing Affidavit:**
West Virginia State Code §5A-3-10a (3) (d) requires that all firms submit an Affidavit regarding any debt owed to the State and licensing and confidentiality certifications. The Affidavit **must** be signed and submitted prior to award. It is preferred that the Affidavit be submitted with the EOI.

PART 2 OPERATING ENVIRONMENT

2.1 **Location:** Agency is located at the following address:

West Virginian Division of Natural Resources
Parks and Recreation Section
324 4th Avenue
South Charleston, WV 25305

Facilities where work will be performed:

Canaan Valley Resort State Park
HC 70, Box 320
Davis, WV 26260-9711

2.2 **Background:**

The Division of Natural Resources owns a four season resort facility at Canaan Valley Resort State Park. These facilities were planned and constructed beginning in 1969 and improvements, upgrades and replacement facilities are necessary and desirable in many areas.

PART 3 PROCUREMENT SPECIFICATIONS

3.1 **General Requirements:**

Provide described services in accordance with applicable state code and accepted engineering standards.

3.2 **Project Description:**

Provide professional architectural and engineering services pursuant to the following objectives:

Provide necessary professional architectural, engineering and related services to design, specify and construct improvements to the ski area and other facilities which may include; increasing the potable water supply for the park , repairs to the ski area parking lots, construction of a shooting range, installation of a conveyor type surface lift to move customers from the base facility to the lower ski lift area, renovations or replacement of surface lift components, renovation and extension of the snow making systems and other related improvements as may be desirable and as funding may allow in Tucker County, West Virginia.

Specifically, improvements to the facilities at Canaan Valley Resort State Park may include:

- Construction of a "Magic Carpet" type surface conveyor suitable to move skiers from the base facility to the lower ski lift area in the ski season and or to serve as a "Turtle Slide" in the summer.
- Construction of a Wobble Clay shooting range.
- Construction of one additional Water Well in a different aquifer than that in use at present.
- Repairs to a gravel lot in the ski area and repaving of another.
- Necessary renovations to existing surface lifts and or relocation of one or more of these lifts.
- Renovation expansion and repairs to the snow making capabilities of the facility, including new distribution lines and repairs to snow making ponds.
- Specification of new snow making guns.
- Renovations or expansion of existing buildings intended to serve the ski area complex.
- Construction of a new building to improve the service the park provides to the public near the existing location of C-Lift and the tubing area.
- Phase 2 of an ongoing effort to improve the golf course drainage that will include replacement of sod over drainage lines installed previously.
- Repairs or relocation of some ski trails if necessary to improve the facilities operation and safety.

The professional architectural and engineering services desired include those necessary to effectively plan for the most effective and economical building, necessary design of the building, production of bidding documents and construction contract administration including but not limited to, the evaluation of submittals necessary to ensure compliance with the design parameters, and other necessary and related services as may be determined during the scope and fee

negotiations of this agreement. Additionally, procurement of necessary environmental and other regulatory approvals and permits will be required, including but not limited to the Division of Culture and History, Department of Health and the Division of Environmental Protection.

The successful firms must demonstrate a proven record of success with similar projects including design, construction document preparation, cost estimation, construction contract administration. They must demonstrate procedures to provide timely response to owner issues and have an effective procedure to communicate with the owner's representative for the project. Additionally, funding restrictions on this project dictate that the successful firm must demonstrate that they have effective procedures to go from execution of the contract for design to construction completion on budget in 3 years or less.

3.3 **Special Terms and Conditions:**

3.3.1 *Bid and Performance Bonds*: N/A

3.3.2 *Insurance Requirements*: $1,000,000 General Liability per Occurrence
$2,000,000 Aggregate
$1,000,000 Automobile Liability
$1,000,000 Professional Liability
Workers Compensation Certificate upon award
West Virginia Statutory requirements including
West Virginia Code §23-4-2 (Mandolidis)

3.4 **General Terms and Conditions:**
By signing and submitting the EOI, the successful firm agrees to be bound by all the terms contained in Section Three (3) of this EOI.

3.4.1 *Conflict of Interest*:
Firm affirms that it, its officers or members or employees presently have no interest and shall not acquire any interest, direct or indirect which would conflict or compromise in any manner or degree with the performance or its services hereunder. The firm further covenants that in the performance of the contract, the firm shall periodically inquire of its officers, members and employees concerning such interests. Any such interests discovered shall be promptly presented in detail to the Agency.

3.4.2 *Prohibition Against Gratuities*:
Firm warrants that it has not employed any company or person other than a

bona fide employee working solely for the firm or a company regularly employed as its marketing agent to solicit or secure the contract and that it has not paid or agreed to pay any company or person any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award of the contract. For breach or violation of this warranty, the State shall have the right to annul this contract without liability at its discretion, and/or to pursue any other remedies available under this contract or by law.

3.4.3 *Certifications Related to Lobbying*:
Firm certifies that no federal appropriated funds have been paid or will be paid, by or on behalf of the company or an employee thereof, to any person for purposes of influencing or attempting to influence an officer or employee of any Federal entity, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee or any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the firm shall complete and submit a disclosure form to report the lobbying.

Firm agrees that this language of certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this contract was made and entered into.

3.4.4 *Vendor Relationship*:
The relationship of the firm to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this contract. The firm as an independent contractor is solely liable for the acts and omissions of its employees and agents.

Firm shall be responsible for selecting, supervising and compensating all individuals employed pursuant to the terms of this EOI and resulting contract.

Neither the firm nor any employees or contractors of the firm shall be deemed to be employees of the State for any purposes whatsoever.

The Firm shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred compensation plans, including but not limited to Workers' Compensation and Social Security obligations, and licensing fees, etc. and the filing of all necessary documents, forms and returns pertinent to all of the foregoing.

The Firm shall hold harmless the State, and shall provide the State and Agency with a defense against all claims including but not limited to the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns.

The firm shall not assign, convey, transfer or delegate any of its responsibilities and obligations under this contract to any person, corporation, partnership, association or entity without expressed written consent of the Agency.

3.4.5 *Indemnification:*
The firm agrees to indemnify, defend and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials or supplies in connection with the performance of the contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the firm, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use or disposition of any data used under the contract in a manner not authorized by the contract, or by Federal or State statutes or regulations; (3) Any failure of the firm, its officers, employees or subcontractors to observe State and Federal laws, including but not limited to labor and wage laws.

3.4.6 *Contract Provisions*:
After the most qualified firm is identified, and fee negotiations are concluded, a formal contract document will be executed between the State and the firm. The order of precedence is the contract, the EOI and the firm's response to the EOI.

3.4.7 *Governing Law*:
This contract shall be governed by the laws of the State of West Virginia. The firm further agrees to comply with the Civil Rights Act of 1964 and all other

applicable laws (Federal, State or Local Government) regulations.

3.4.8 *Compliance with Laws and Regulations*:
The firm shall procure all necessary permits and licenses to comply with all applicable laws, Federal, State or municipal, along with all regulations, and ordinances of any regulating body.

The firm shall pay any applicable sales, use, or personal property taxes arising out of this contract and the transactions contemplated thereby. Any other taxes levied upon this contract, the transaction, or the equipment, or services delivered pursuant here to shall be borne by the contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this contract.

3.4.9 *Subcontracts/Joint Ventures*:
The State will consider the firm to be the sole point of contact with regard to all contractual matters. The firm may, with the prior written consent of the State, enter into written subcontracts for performance of work under this contract; however, the firm is totally responsible for payment of all subcontractors.

3.4.10 *Term of Contract*:
This contract will be effective (date set upon award) and shall extend until the scope of work is complete or for one (1) consecutive twelve (12) month period. The contact may be renewed upon mutual consent for two (2) consecutive years one (1) year periods or until such reasonable time as may be necessary to obtain a new contract or to complete work.

3.4.11 *Non-Appropriation of Funds*:
If the Agency is not allotted funds in any succeeding fiscal year for the continued use of the service covered by this contract by the West Virginia Legislature, the Agency may terminate the contract at the end of the affected current fiscal period without further charge or penalty. The Agency shall give the firm written notice of such non-allocation of funds as soon as possible after the Agency receives notice. No penalty shall accrue to the Agency in the event this provision is exercised.

3.4.12 *Contract Termination*:
The State may terminate any contract resulting from this EOI immediately at any time the firm fails to carry out its responsibilities or to make substantial progress under the terms of this EOI and resulting contract. The State shall provide the firm with advance notice of performance conditions, which are endangering the contract's continuation. If after such notice the firm fails to remedy the

conditions contained in the notice, within the time contained in the notice, the State shall issue the firm an order to cease and desist all work immediately.

The State shall be obligated only for services rendered and accepted prior to the date of the notice of termination. The contract may also be terminated upon mutual agreement of the parties with thirty (30) days prior notice.

3.4.13 *Changes*:
If changes to the original contract become necessary, a formal contract change order will be required. Prior to any work being performed, the change must be negotiated and approved by the State, the Agency and the firm. An approved contract change order is defined as one approved by the Purchasing Division and approved as to form by the West Virginia Attorney General' s Office prior to the effective date of such amendment. **NO CHANGE SHALL BE IMPLEMENTED BY THE FIRM UNTIL THE FIRM RECEIVES AN APPROVED WRITTEN CHANGE ORDER.**

3.4.14 *Invoices, Progress Payments, & Retainage*:
The Firm shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments may be made at the option of the Agency based on percentage of work completed if so defined in the final contract. Any provision for progress payments must also include language for a minimum 10% retainage until the final deliverable is accepted.

If progress payments are permitted, firm is required to identify points in the work plan at which compensation would be appropriate. Progress reports must be submitted to Agency with the invoice detailing progress completed or any deliverables identified. Payment will be made only upon approval of acceptable progress or deliverables as documented in the firm's report. Invoices may not be submitted more than once monthly and State law forbids payment of invoices prior to receipt of services.

3.4.15 *Liquidated Damages*:
According to West Virginia State Code §5A-3-4(8), firm agrees that liquidated damages shall be imposed at the rate of $100 per workday, for failure to provide deliverables at the agreed upon date identified in the final contract. This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue to any other additional remedy to which the State or Agency may have legal cause for action including further damages against the firm.

3.4.16 *Record Retention (Access & Confidentiality)*:
Firm shall comply with all applicable Federal and State of West Virginia rules and regulations, and requirements governing the maintenance of documentation to verify any cost of services or commodities rendered under this contract by the firm. The firm shall maintain such records a minimum of five (5) years and make available all records to Agency personnel at firm's location during normal business hours upon written request by Agency within 10 days after receipt of the request.

Firm shall have access to private and confidential data maintained by Agency to the extent required for firm to carry out the duties and responsibilities defined in this contract. Firm agrees to maintain confidentiality and security of the data made available and shall indemnify and hold harmless the State and Agency against any and all claims brought by any party attributed to actions of breech of confidentiality by the firm, subcontractors, or individuals permitted access by the firm.

PART 4 EVALUATION & AWARD

4.1 Evaluation & Award Process:

a) Expressions of Interest will be evaluated and awarded in accordance with **§5G-1-3 "Contracts for architectural and engineering services; selection process where total project costs are estimated to cost two hundred fifth thousand dollars or more."**

"In the procurement of architectural and engineering services for projects estimated to cost two hundred and fifty thousand dollars or more the director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project. All such jobs shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of article three [§59-3-1et seq.] A committee comprised of three to five representatives of the agency initiating the request shall evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service. Interviews with each firm selected shall be conducted and the committee shall conduct discussions regarding anticipated concepts and the proposed

methods of approach to the assignment. The committee shall then rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm for architectural or engineering services or both. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached."

b) The evaluation criteria and assigned point values are as follows:

Scoring Criteria

Category		Points
1.	History and credentials of firm	40
2.	History of completing similar projects	40
3.	Oral Interview	20

RFQ No. DNRB 11059

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (***West Virginia Code*** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: STANTEC CONSULTING SERVICES INC.

Authorized Signature: [signature] Date: 3/17/11

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17 day of March, 2011.

My Commission expires July 7, 2013, 20__.

AFFIX SEAL HERE

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
LISA B. COX
c/o SUSAN L. SHEPARD, ATTY. AT LAW
218 SIXTH AVE.
ST. ALBANS, WV 25177
My commission expires July 7, 2013

NOTARY PUBLIC Lisa B. Cox