



MUNICIPALITY OF SKAGWAY SKAGWAY SCHOOL DISTRICT

VOCATIONAL EDUCATION BUILDING

Statement of Qualifications | December 6, 2016



Contact: Garrett Burtner or Michael Carlson

McCOOL CARLSON GREEN
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McCOOL CARLSON GREEN

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ABOVE: TRAINING AND EDUCATIONAL SPACE WITHIN UAA KENAI PENINSULA COLLEGE CAREER AND TECHNICAL CENTER.

BELOW: OVERHEAD DOORS IN THE MAT-SU CAREER AND TECHNICAL HIGH SCHOOL ALLOW FOR MAXIMUM FLEXIBILITY. EXPOSED DUCTWORK AND ELECTRICAL WORK ENCOURAGE PASSIVE LEARNING OPPORTUNITIES.



EXTERIORS OF THE MAT-SU SCHOOL ARE INSPIRED BY THE BRAIDED RIVER BED OF THE MATANUSKA RIVER.



December 6, 2016

Municipality of Skagway
PO Box 415
Skagway, Alaska 99840

RE: Skagway School District Vocational Education Building
Statement of Qualifications for Professional Design Services

Selection Committee Members:

The Skagway School District Vocational Educational Building will provide essential educational training opportunities for the Skagway community, as well as serve as an emergency shelter. For Alaska communities like Skagway, facilities that offer flexibility in use, provide durable and sustainable building construction, and encapsulate the most features as budgets will allow, are not only sensible, but are the responsible response to a community's need. McCool Carlson Green is skilled in designing project of these types and look forward to an opportunity to assist Skagway in bringing this project to successful fruition.

MCG is an Anchorage-based architecture, planning, and interior design firm with more than 40 years of award-winning Alaska design experience. Our collective team offers Skagway a solid track-record of effective management, quality design, and cost effective project delivery. Key strengths of our team are outlined in our project understanding and approach and include: **commitment to education, client centered approach, continuous improvement, long-term solutions, national design recognition, regional experience, and context sensitive approach.**

Our multi-discipline team includes the following firms:

Architecture, Planning, & Interior Design: MCG Architects (Anchorage)
Geotechnical, Civil, Structural, Mechanical, & Electrical Engineering, Fire Protection, Land Surveying: PDC Engineers (Juneau, Anchorage)
Environmental Engineering: Dahlberg Design (Juneau)
Cost Estimating: Estimations (Anchorage)

Thank you for reviewing our statement of qualifications.

Best Regards,



Michael P. Carlson
Principal in Charge
McCool Carlson Green
907.563.8474 | carlson@mcgalaska.com

A. PROJECT UNDERSTANDING AND APPROACH

PROJECT UNDERSTANDING AND APPROACH

MCG's creative partnership with Alaska School Districts are some of our most valued professional relationships. Together, we have visualized and built some of the most innovative and inspiring schools in the state, always focused on the big picture: providing great educational experiences for Alaska's students. Delivering superior education is a complex endeavor that begins with quality educators and an engaged community. Good school facilities play an important supportive role by eliminating barriers, expanding teaching opportunities, and creating motivating environments that inspire students to learn. Exploring the link between great learning and thoughtful school design is a lifelong passion for MCG's principals and a strong focus for our entire staff.

This project will provide training critical educational opportunities for the Skagway community, as well as serve as an emergency shelter. We understand that you envision a facility with a modern automotive shop, welding stations, classrooms and storage. We will work with you to develop these spaces, and incorporate desired features such as an overhead vehicle lift, waste oil heat system and energy efficient features, as well as code required features such as exhaust and fire suppression systems and proper storage for hazardous and flammable materials. Community needs change over time and we will propose creative solutions that will allow you the flexibility to introduce new programming as the need for different job skills emerge to serve growing industries in Southeast Alaska. Budget, as always, is a critical constraint and we will work collaboratively with you to maximize the education value within available funding.

MCG'S STRENGTHS

MCG has a long history of providing design services for technical and career education facilities. MCG has Alaska's strongest portfolio of career and technical education projects, including projects for secondary schools as well as institutions of higher education. With this knowledge we will quickly understand your program's special requirements and present creative ways of resolving challenges and capitalizing on opportunities.

- **Commitment to Education:** We care about educational design and have delivered more than 50 school and training projects that connect learning and hands-on training to facilities. Our focus is on your needs and creating high quality learning environments for Alaskan students.
- **Client Centered:** Your goals are our priorities. We will create a Vocational Educational Building that works for you with a design that is appropriate to the character of the community of Skagway. We listen first and then tailor the planning and design to meet your specific needs.
- **Continuous Improvement:** Our staff continuously pursues professional development through national and international

conferences, as well as professional organizations. We bring practical and innovative ideas with the latest thinking on learning environments, furniture, and technology to the table for exploration and consideration with your steering committee.

- **Long Term Solutions:** MCG is committed, firm-wide, to the implementation of sustainable green building practices in Alaska's challenging environment for more than three decades. We have more green certified schools in Alaska than all other Alaska firms combined. Our knowledgeable and practical approach creates school facilities that reduce energy consumption through durable, long-term systems that lower operation costs.
- **National Recognition:** MCG's innovative school designs have won numerous national and international awards. Our educational planner, Michael Carlson, was named Planner of the Year in 2012 by the Association for Learning Environments (formerly CEFPI). We will bring you proven solutions that are innovative and practical.
- **Regional Experience:** Our team brings a wealth of knowledge about building systems and their maintenance in a northern, maritime environment. MCG has designed buildings in many areas of Alaska, and has recently completed several buildings in Sitka. Our project architect recently moved to Anchorage after working as an architect in Juneau for 18 years. PDC's staff of engineers are based in Juneau and have decades of experience designing projects in southeast Alaska.
- **Context Sensitive:** We are familiar with the Historic District Guidelines and review process required for any site that is in the Historic District. We understand that is important that new and newly renovated structures be appropriately proportioned and detailed to become part of the fabric of Historic Skagway. Our office is located in an historic building, and we know how to design for a modern world while respecting older building traditions.

MCG APPROACH

The design and construction of school facilities is a creative process that fuses the aspirations and practical realities of the School District with the imagination and experience of the design team. **Good listening and communication skills are essential to forming great partnerships.** Our approach focuses on engaging a broad range of stakeholders, leveraging their knowledge and wisdom to visualize inspiring learning environments. Many of our most rewarding professional experiences have come from interaction with your teachers, students, administrators, and maintenance staff. **We are very proud of the innovative and practical schools that have resulted from this creative partnership.**

We love designing schools, especially seeing old schools made new. Our creative and inclusive methods will guide the Skagway Vocational Education Building and yield a quality, long-lasting, and flexible school. We have extensive experience with planning, new building and renewal projects of this type and are committed to supporting Skagway's mission by creating engaging learning environments.

Our unwavering focus is to find innovative ways to connect learning to facilities. Our step-by-step sequence of activities will move the project forward thoughtfully and allow important input from the School District and the Skagway community to optimize the facility design.

We will organize our work around hands on work sessions with the Steering Committee and other stakeholders in the community. Each time we visit Skagway we will stay several days and schedule a series of meetings on consecutive days. We have found this to be an efficient and cost effective way to make decisions and complete the design process. We envision a three phase process for completing the scope outlined in the RFP.

INFORMATION GATHERING & ASSESSMENT

This first phase focuses on learning more about you, your goals for the program as well as collecting information about each of the proposed sites. We will develop an architectural space program that will identify sizes, adjacencies and unique characteristics for each of the proposed spaces, and we will work with you to create a matrix for comparing the pros and cons of each site option and test fit the program on each site. The matrix will allow you to score the suitability of different sites to achieve your program goals and meet your budget.

We anticipate this exercise will eliminate some of the potential sites with a goal of narrowing the choices to no more than three options.

Work Session I: Kick off meeting to confirm schedule, expectations, and set project goals and priorities. Associated tasks include interviews with stakeholders and steering committee for space program, walk through proposed sites and preliminary conditions assessment of each potential site. We will also begin working with the committee to infuse the school with the unique character of the community through a process of exploration we call Learning Signature. This activity helps the school identify and strengthen their 'Brand' within the school district and community.

Work Session II: Review space program and siting matrix. Present and refine program test fits on site. Choose maximum of three options for moving forward.

Deliverables: Space program listing space sizes, site matrix, written narrative recommending moving forward with no more than three potential sites.

CONCEPT DESIGN

For each of the proposed three sites we will develop conceptual floor plans and basic massing models. We will work with our engineering team to propose systems that are cost effective, energy efficient and appropriate for each site or existing building. We will develop preliminary cost estimates for each of the three sites and present them to you. The goal of concept design will be to choose one direction prior to moving forward with Schematic Design.

Work Session IIIA: Presentation of one solution for each of the three sites and discussions on pros and cons of each as well as recommendations for changes.

Work Session IIIB: The design team will work for a day to refine our designs based on the comments from Work session IIIA and present them with the goal of choosing one viable option for moving forward.

Deliverables: Site plan, conceptual floor plans and a massing model for one site, a written report will include a review of required permits and applicable codes, narratives describing building systems and materials as well as proposed sustainable and energy efficient features, cost estimate for construction, budget that outlines all project costs, timeline for design and construction.

Additional Service: At this stage we can provide fund raising documentation and renderings for an additional fee. We can also make a formal presentation to the Municipality of Skagway Assembly.

SCHEMATIC DESIGN

Depending on the type of construction, whether it is new or a renovation, we will kick off the schematic design phase with geotechnical testing and a report for new construction and a full condition assessment for renovation work. We will follow up with a review of possible mechanical, structural, civil and structural systems as well as evaluations of proposed building materials and finishes. We will determine how these systems and materials are best integrated into the design.

Work Session IV: Focus on building systems such as heating, ventilation, life safety, network and power grid, and the building frame. This is particularly important for emergency shelters and for determining the most cost effective method to achieve energy efficiency.

Work Session V: Presentation and comments on draft schematic design. Recommend holding a public open house in conjunction with the site visit for this work session.

Deliverables: Civil and architectural site plans, floor plans, elevations, building section, typical wall sections, line drawings depicting structural, mechanical and electrical systems, narratives listing design criteria, outline specification of proposed materials and equipment for major systems and finishes, construction cost estimate, updated project budget.

B. PROPOSED PROJECT MANAGER



GARRETT BURTNER, AIA PROJECT ARCHITECT MCCOOL CARLSON GREEN

PROFESSIONAL BACKGROUND & PROJECT ROLE

Garrett Burtner has designed and managed a wide variety of projects including schools, health clinics, community centers, offices, and more. As a project manager Garrett has honed his group leadership, creative teamwork, and mediation skills on complex projects requiring a variety of specialty consultants. He's a natural listener, strengthening his collaboration with clients and building users during design. He is dedicated to understanding the particular needs and ideas of each client so their building can be a reflection of their vision, mission, and values. Garrett will lead the project design team and guide the architectural design. He will organize and track the project schedule, maintain project goals while balancing scope and budget, and plan and moderate design meetings with the owner, users, and design team.

During his ten years with MCG, Garrett has helped evolve MCG into Alaska's premiere educational design firm. He has worked on over 15 educational projects and seen several award-winning educational projects from design through construction. As a multi-use building, the Skagway Vocational Education Building will likely have a great variety of activities that require closely coordinated planning of the various functions. Garrett is skilled at orchestrating various functions while developing welcoming and supportive architecture with a unified identity that supports the project's mission.

RECENT EXPERIENCE:

PACIFIC HIGH SCHOOL RENEWAL, SITKA

As Project Manager and Project Architect for this small public high school, Garrett worked closely with the school staff, superintendent, students, parents, and community members to transform a failing 1960s facility. He assisted the school in writing an educational program to support their expeditionary learning curriculum. The facility underwent an assessment to find the best solution: building life extension, renewal, or replacement. The assessment revealed that a full replacement was found to give the City and School District the best value for their project. Working with the local school district, Garrett provided necessary documentation to secure funding through the Alaska Department of Education for new construction. The initial project had been funded as a renovation and permission from the State for new construction came with stringent requirements: the new facility had to match the footprint of the original building and the total cost could not exceed the funding already allocated for the project. The new school features a flexible group of classrooms that can be combined to form a "super-classroom" where the students can present their projects to teachers, family, and the community each quarter. A special elliptical-shaped room in the heart of the school serves for all-school circle discussions. The design and documents were completed on a tight budget through a successful bid process and construction was completed in 2013.

YEARS OF EXPERIENCE

- 10 Years

REGISTRATION

- Registered Architect, State of Alaska, A-12683

EDUCATION

- Master of Architecture, University of Oregon, 2005
- Bachelor of Art in Studio Art, Drury University, 1999

PROFESSIONAL AFFILIATIONS

- Council of Educational Facility Planners International, *Member, 9 years*
- Cascadia Green Building Council, *Member, 7 years*
- Alaska Design Forum, *Treasurer of the Board, 7 Years*
- International Gallery of Contemporary Art, *Board Member, 5 Years*

REFERENCES

- Edie Knapp, Anchorage School District, 907.348.5207
- Becky Breeding, US Army Corps of Engineers, 907.753.2752
- Kelli Cropper, City & Borough of Sitka, 907.747.1888



GARRETT BURTNER RELEVANT EXPERIENCE

HARRIGAN CENTENNIAL HALL RENEWAL, SITKA

Garrett was the Project Manager and Architect for this large renewal and renovation project. Harrigan Centennial Hall (HCH) is a focal point of community life and visitor activity in Sitka. The community supported the renewal design of the largest and most fully-featured hall the budget would allow. For the 18,000 SF facility. MCG worked with the community in identifying priorities and providing documentation for multiple grants to support the construction budget. Situated on a point on the downtown waterfront, the renovated building has a double-sided visitor lobby to address townside and harborside arrivals. HCH includes the galleries of the Sitka History Museum, Sitka Assembly chambers, flexible meeting and event spaces, and an auditorium that hosts hundreds of events each year. The new architecture balances maritime, Tlingit, and Russian Alaskan languages in a sheltering timber structure.

ALASKA NATIVE TRIBAL HEALTH CONSORTIUM (ANTHC) EDUCATION AND TRAINING CENTER, ANCHORAGE

Garrett is the Project Manager/Architect for the ANTHC Education and Training Center, currently in construction. This is a three-story, 50,000 SF building on the Alaska Native Medical Campus. MCG's design team collaborated with the Owner, stakeholders, staff, and users through a series of interactive workshops to identify and integrate the building design with the culture of learning and service. The project will provide training and instruction to support statewide, national, and international health care programs for remote and rural communities. The project will house multiple education services including a child care center, wellness center, dental health aid training, behavioral health aid training, community health aid program, distance learning, and statewide services.

AIRPORT HEIGHTS ELEMENTARY, ANCHORAGE

Garrett was project architect for a master plan report and resulting renewal design project that was completed for Airport Heights Elementary. The school was built in the mid 1950s and was lacking key spaces. Airport Heights planning involved a series of plan iterations to resolve tricky issues regarding parking and student drop-off, building additions, and entry supervision while preserving the park-like grounds.

FRED & SARA MACHETANZ ELEMENTARY SCHOOL, WASILLA

Garrett was the Co-designer and Project Manager for this Mat-Su Valley school project. This school received local and national design awards for educational planning and was the first LEED certified school in Alaska. The design was inspired by the "four winds" prevalent in the Valley. Windbreak walls at the entries, colorful banners and a giant fan in the Commons respond to and reference the local environment.

CLARK MIDDLE SCHOOL RENEWAL, ANCHORAGE

Garrett was the Designer and On-Site Representative for this large educational renovation and facility renewal project. The Clark Middle School Renewal revitalized Anchorage's oldest middle school, bringing the facility up to date in terms of educational delivery and technology. The initial design phase employed a number of intense rounds of design diagramming including classroom groupings, building form, and site design. Various options for renovation and addition were studied by the design team in order to meet the school district's needs in the most economical fashion. The comprehensive analysis revealed that replacement of the school was more cost effective than a renovation and addition.



LEFT: EDUCATIONAL SHOP AREA FROM MAT-SU CAREER & TECHNICAL HIGH SCHOOL. ABOVE: ALASKA NATIVE TRIBAL HEALTH CONSORTIUM EDUCATION AND TRAINING CENTER IS A NEW FACILITY SUPPORTING MULTIPLE EDUCATION/TRAINING PROGRAMS.

C. PROPOSED PROJECT TEAM

The Skagway Vocational Education Building project requires the highest caliber educational facility designers. Architectural experts that are familiar with facility evaluations, planning processes, current 21st century design solutions, materials, and products. MCG offers this team: Garrett Burtner, Evelyn Rousso, and Michael Carlson are some of the most skilled educational architects in the State. They bring the most up-to-date local experience, as well as advanced national know-how. The MCG team is passionate about educational design and the future of Alaska's schools. Alaska communities often demand facilities that can provide multiple users for the community. We are especially skilled at designing flexible facilities that provide multiple uses.

The following staff is our design team and their roles for the Skagway project. Abbreviated resumes are provided.

PROJECT TEAM

Garrett Burtner will be the project manager leading the process of the project and responsible for meeting all project deliverables and schedules. Garrett is an important key to an efficient, effective, and collaborative process. He'll also be the primary point-of-contact for all subconsultants, assuring good communication and coordination between disciplines. He will be actively involved in all stages of the planning, design, and construction administration processes.

Evelyn Rousso Evelyn Rousso will be the project architect. She will be responsible for ensuring the specifics of the design and all technical details meet your stated needs and goals. Evelyn takes a collaborative approach, working directly with owners, users, and stakeholders. She is as a hands on project architect, leading design teams in providing innovative solutions to serve the individual needs of each client.

Michael Carlson will be the educational facility planner. He brings a wealth of experience in school renewal design, programming and planning to the project. Through thoughtful analysis of each facility's existing and potential attributes, he will develop lasting solutions for the school by working closely with stakeholders and leading design workshops. Michael will be responsible for developing the program and master plan concepts.

PROJECT MANAGEMENT

Garrett Burtner, AIA, LEED AP, Alaska Architect A-12683. McCool Carlson Green.

Garrett will act as the Project Manager for this project and he is a Principal at MCG. His detailed experience is provided in *Section B. Proposed Project Manager.*

ARCHITECTURE

Evelyn Rousso, AIA, LEED AP, Alaska Architect A-11472. McCool Carlson Green.

Evelyn has focused her career on strengthening and building communities, with an emphasis on educational planning and design. She takes a collaborative approach, working directly with owners, users, and stakeholders to develop creative solutions. For over 18 years, she has worked in Juneau, giving her the expertise and local knowledge for projects in Southeast Alaska. Additionally, Evelyn has worked with the southeast design team members which will facilitate an efficient team.

Among her educational projects, Evelyn has completed Campus Planning for the University of Alaska Southeast at the campuses in Juneau and Sitka and masterplanning for Mt. Edgecumbe High School in Sitka. She was responsible for the design of UAS Sitka's Career and Technical Education Center which featured a renewable energy lab as well as other flexible teaching spaces. She was the project architect and manager for the Northwestern Alaska Career and technical Center (NACTEC).providing planning and design services. This project included shops for automotive repair, metal working (including welding) and carpentry.

EDUCATIONAL PLANNER

Michael P. Carlson, AIA, Alaska Architect A-6113. McCool Carlson Green.

Michael is a longtime Alaska resident, with over 40 years of experience at MCG. Michael's forte is in public facility design, with a special emphasis on educational facilities. He takes a collaborative approach in his designs, involving user groups that range from facility managers to students. Michael was honored in 2012 for his educational planning work as the 2012 CEFPI (now Association for Learning Environments) Pacific Northwest Planner of the Year. Michael's public projects are characterized by thoughtful design, attention to detail and a respect for the unique challenges of building in Alaska.

In addition to his excellent design skills, Michael is a patient listener and outstanding communicator. He knows how to work with diverse groups and individuals and fashion win-win situations from the most disparate viewpoints. His educational projects range from small projects like a CTE renovation at North Pole High School, to major campus facilities like UAA's Alaska Airlines Center. He enjoys transforming educational concepts into vibrant 21st Century learning environments and has organized and facilitated all of the planning workshops for MCG's award-winning schools.

CIVIL ENGINEERING

Mark Pusich, PE. Alaska Civil Engineer CE-8152. PDC Engineers.

Mark will be responsible for PDC's performance on this project, ensuring contractual issues are addressed. He will also serve as the Lead Civil Engineer providing oversight in the preparation of the schematic design, initial site/soils review and making recommendations from a site/utility/soils perspective. Mark will offer guidance on the schematic site layout in this phase of the project and ultimately provide preliminary civil design plans for the chosen site. He will provide preliminary site layout including coordinating with Skagway Public Works Department and utility companies. He also reviews traffic impacts and driveway design while ensuring that requirements are met for pedestrians and vehicles. Mark will assist in sustainable design through appropriate stormwater management and snow storage accommodations.

Mark has over 31 years of local southeast civil engineering design experience with a strong background in site development. He was R&M's representative as the Skagway Municipal contract engineer from 2001-2006. He is familiar with the Municipality of Skagway's requests and has a proven track record of project designs for the Municipality. Mark was the civil engineer in charge of Skagway Public Facility site/utility design, REC Center Addition topographic survey, Pullen Creek Stream Walk topographic survey, Taiya Inlet Subdivision Roadway Design, Dyea Subdivision Civil Design, E.A. and Jenny Rasmussen Community Health Center, Skagway Rifle Range design and permitting, Skagway Recreation Center Climbing Wall structural design, and the Skagway Recreation Center Aerobics Room design plans.

STRUCTURAL ENGINEERING

Chris Poulsen, PE. Alaska Civil Engineer CE-14500. PDC Engineers.

Chris will participate in the review of the existing possible structure and substructure. He will provide recommendations as to whether to renovate or go with a new facility. He will assess the condition of the existing buildings. If a new building or addition is to be used, Chris will provide the schematic level design for the addition or pre-engineered metal building specifications.

Chris joined PDC (then known as R&M Engineering) in 2013 and has provided structural design and special inspection services for a number of public sector projects including many for the City and Borough of Juneau. His experience includes coordination with the design team; working on CM/GC projects; and value engineering. Relevant projects include his work on the Fourth Avenue and State Street Hotel and Restaurant in Skagway, as well as the Alaska Court Plaza Building and the Tyler Rental New Building and Renovation.

MECHANICAL ENGINEERING

Doug Murray, PE, Alaska Mechanical Engineer ME-7870. PDC Engineers

Doug will be the Mechanical Engineer of Record. He will provide initial conceptual and facility assessment to determine needs and capabilities of the mechanical system. He will also oversee the mechanical engineering input for the project design from concept through construction. Doug will use his experience with alternative energy mechanical systems in Southeast Alaska for the design of energy efficient mechanical systems with a low-level of maintenance.

Doug has 32 years of experience as a mechanical engineer. He was Principal of Murray & Associates in Juneau which has now joined PDC. Doug has a strong background in adjusting, troubleshooting, and commissioning mechanical systems which help the owner see a complete picture of the mechanical systems choices including initial costs, servicing and operation, and life expectancy. Doug is well-versed in energy systems including geothermal and air source heat pump systems, wood, propane and electric boilers, waste oil heating systems, waste heat supplements such as from adjacent Power Generation, as well as traditional oil-fired burner heating plants. Relevant project experience includes the Haines Schools Vocational Educational mechanical and electrical renovation project; the UAS Sitka Career and Technical Educational Facility; the Prince of Wales Vocational Technical Facility; as well as the Ketchikan Indian Corporation Academic and Training Facility.

ELECTRICAL ENGINEERING

Brad Jackson, PE, LEED GA. Alaska Electrical Engineer EE-14667. PDC Engineers.

Brad will provide electrical engineering services until the project is successfully completed. He will review existing buildings and provide recommendations. During design he will be responsible for determining major system arrangements, select manufacturers and materials, and assist other designers in documenting all the major elements of project design. Brad is an integral in providing engineering design and specifications.

His experience includes power, lighting, and fire alarm systems for educational, healthcare, and other facilities. Brad has extensive experience in field review and condition assessments. He is especially skilled with lighting and integration of power and controls. Relevant projects include the Galena Interior Learning Academy (GILA) Student Union Remodel and the Alaska Native Medical Center Deep Look Survey. The GILA Student Union remodel included a complete remodel of the existing building, including all new electrical systems. The deep look survey was a comprehensive assessment of the facility to document all building code violations, outstanding and anticipated maintenance and repair projects, and to provide an evaluation of the facility's viability under existing maintenance program strategies.

ENVIRONMENTAL ENGINEERING

Sigrid Dahlberg, PE, LEED GA. Alaska Civil Engineer CE-11030. Dahlberg Design, LLC.

Sigrid is Principal Engineer at Dahlberg Design in Juneau. Her responsibilities include project management, civil design and construction inspection, asbestos and hazardous materials surveys, asbestos and lead-based paint abatement project design, environmental permitting, wetland delineation, preparation of Phase I/II Environmental Assessments, environmental sampling for asbestos, lead, mold, and other hazardous materials, and instruction of 40-hour HAZWOPER courses, Lead Awareness courses, and Asbestos Awareness courses. Her construction inspection background includes water and wastewater systems, reservoirs, pump stations, road and parking lot construction, structural concrete, and building construction. She establishes effective working relationships with contractors and regulators and is an experienced technical report writer. She is a versatile professional, equally at home in the field and in the office.

ESTIMATING

Jay N. Lavoie. Alaska Electrical Engineer EE-14667. PDC Engineer.

Jay will provide cost estimating services for this project. He is a UAF graduate in Civil Engineering and for more than 33 years has been providing construction cost estimating to Alaska design professionals. He has been involved in over 3,300 projects throughout the state, 315 of these involving school construction and renovation. These projects have involved all the various disciplines and have been used for planning and budgeting as well as full design and construction. He experience encompasses a thorough understanding of most cost estimating problems that can be encountered. Jay works with the design team to provide the owner a design that meets the program needs while maximizing the budget available. Jay provides construction costs estimates, value engineering, life cycle costing and general contractor bid reconciliation. He knows construction costs and specifically Alaska's Construction Costs.

D. FIRM RESOURCES AND EXPERIENCE

RESOURCES - MCCOOL CARLSON GREEN

MCG understands that every project has its own individual qualities. Some projects require accelerated schedules, while others require additional time and attention. We have organized our firm structure to be flexible to our client's needs and keep all projects on track. With our moderate workload we have the ability to assign production and project support staff to this project should the need arise. MCG is dedicated to providing Skagway with the resources required through an engaging process of collaboration.

MCG's studio office is designed to provide support capacity and efficiency for professional services for our valued clients. Features include two conference rooms with advanced technology that can accommodate groups of up to 30, a large design studio that accommodates workstations, flex spaces for design team meetings, and a large design library containing materials support. MCG's staff is comprised of 22 individuals with a range of specialties: architecture and planning, master planning, building systems, interior design, computer aided design (BIM), drafting and rendering, specification writing, graphic design, and construction administration.

RESOURCES - PDC

PDC Inc. Engineers (PDC) is a 100-percent employee-owned Alaska firm created from mergers over the years of six Juneau, Anchorage, and Fairbanks firms. In 2016, PDC acquired two prominent Southeast engineering firms: R&M Engineering and

Murray & Associates. Together they are a full-service engineering, planning, and survey company that have proved its effectiveness in the delivery of professional services to their Southeast clients for more than 40 years. Their staff of 111 offers a broad array of services including structural, civil, mechanical, electrical, fire protection, environmental and geotechnical engineering; as well as commissioning, GIS/planning, land survey, materials testing, and special inspection services.

RESOURCES - DAHLBERG DESIGN

Dahlberg Design (DD) is a Juneau-based engineering firm specializing in engineering and environmental services. The firm is run by Sigrid Dahlberg, PE and Hal Geiger, PhD. Dahlberg Design provides a wide range of professional environmental services and has the capacity to accomplish all necessary tasks for this project during the contract period. Sigrid Dahlberg will act as project manager and will perform all inspections and develop all design documents. Hal Geiger will provide technical editing and administrative tasks.

RESOURCES - ESTIMATIONS

Estimations, Inc., an Alaskan small business, specializes in construction and economic cost data. Estimations has served the Alaska industry for over 22 years and have active relationships with specialty vendors, contractors and construction material providers that assist them with project specific costs. They are skilled in developing estimates tailored to the client's need.

D. FIRM RESOURCES AND EXPERIENCE

FIRM EXPERIENCE - MCG

The Skagway Vocational Educational Building will require skilled, multi-faceted designers to provide the necessary services. MCG has over 40 years of Alaska design experience and will provide the necessary expertise in facility and program analysis, facility feasibility studies, master planning, and educational design.

MAT-SU CAREER & TECHNICAL HIGH SCHOOL, WASILLA

The Mat-Su Career and Technical High School is an alternative high school with unique learning and training environments tailored to hands-on learning. Once housed in various facilities throughout the district, the career and technical programs now have their own place and identity at the Mat-Su Career and Technical High School. MCG's Michael Carlson led highly interactive planning workshops that identified key features of the learning process for the facility and developed unique architectural solutions for this flexible, adaptable 75,000 SF comprehensive school. This flexibility in the master planning effort led to a seamless addition of 33,000 SF completed in 2014.

Career pathways were designed with a focus on individual learning, flexible curricula, and adaptability over time. The five major educational pathways include: Architecture/Engineering/Construction; IT/Business/Electronics; Health Sciences/Nursing; Culinary Arts/Hospitality/Tourism; Fitness/Sports Science.

The focused partnership between MCG, project management, and the construction team facilitated an efficient process throughout the project. Together, we were able to quickly respond to the needs of the project, keeping the budget and schedule on track. Of the total change order amount, 80% was added scope requests by the School District and Borough. The contractor conducted a competitive pricing exercise for each change. Pricing was then reviewed by MCG and MSB to ensure accuracy and value.

Awards:

- 2009 Learning By Design, Honorable Mention
- 2008 Project of Distinction, A4LE
- 2008 Committee on Architecture for Education, Citation Award
- 2008 McConnell Award Finalist, A4LE

UAA KPC CAREER & TECHNICAL CENTER, SOLDOTNA

UAA's Kenai Peninsula College has long been Alaska's premier educational institution for training workers to support oil and process technology industries. The new 17,000 SF, \$12 million CTC facility gives this program a dynamic home and is a catalyst for reorganizing the campus into a more pedestrian friendly environment. MCG has worked with KPC for almost a decade, beginning with creation of a master plan vision that transformed the existing linear, auto oriented campus plan into a student-focused campus. The CTC building is organized by the central student commons that connects the two teaching areas: the simulation lab and the classroom, lab, and administrative wing. The central commons area has seating and display areas for the wide variety of interesting process technology equipment that have found a home at KPC. The process technology, instrument and electronics labs have direct data connections to each other and to the simulator control room. This interconnectivity is a significant advantage for programming and controlling the process technology functions available for instructional purposes.

The process technology simulation lab, with unique, high profile simulation equipment, is the signature design feature. The simulation equipment behind the canted glazed curtain wall is made of pipes and tanks that visually represent the oil and gas industry. "Big Blue" presents the image of the industry to the campus with dramatic features that clearly identify the program within a dramatic contemporary architectural statement. Competitive fees were proposed for this small but complex facility, which included specialty consultants for process technology systems. Fees were broken down into building design, lab equipment design, and backfill of existing vacated spaces. Due in part to MCG's complete bid documents, the project bid almost 15% below budget allowing additional funds to be used for lab equipment and backfill.



UAA AVIATION TECHNOLOGY CENTER, ANCHORAGE

This highly technical addition to the existing aviation program at Merrill Field includes instructional labs, offices, and simulator rooms for piloting, air traffic control and radar. The addition totaled 30,000 SF with renovations to the existing structure.

The building design emulates many aspects of the small aircraft that use Merrill Field. The exterior design has clean lines and a restrained pallet of materials. Wing shaped canopies are supported with strut-like structures. The rounded nose of the amphitheater flanks the main entry complementing the canopy wing. Interiors feature simple, practical materials juxtaposed against exposed truss structures. Similar to small aircraft interiors, essential structure is celebrated rather than concealed.

UAA AVIATION TECHNOLOGY MASTER PLAN, ANCHORAGE, ALASKA

In late 2007 UAA and MCG collaborated on a master plan for their Merrill Field Campus. This planning effort was triggered by the acquisition of adjacent property lease previously held by Era Aviation and market forces that included expansion of pilot training programs, increasing student demand, and growth of research programs. Existing facilities were inventoried with special attention to code and safety issues associated with the newly acquired, but ancient Era Hanger. Working with a core planning group that included the CTE, Aviation, Facilities and maintenance staff MCG organized a series of workshops that logically worked through the planning process from goal setting to implementation plans. Multiple options were then developed that knitted the existing and new facilities together into a unified concept. Utilizing the goals and objectives each option was formally evaluated resulting in selection and refinement of the best long term plan for the University.

SU VALLEY JR/SR HIGH SCHOOL, TALKEETNA, ALASKA

Following the destruction of the old school by fire in June 2007, the Ed Specs and concept design were developed simultaneously through a series of interactive workshops facilitated by MCG. The workshops reviewed current national trends in education delivery and explored how those trends could be utilized to meet the current and long term needs.

Six distinct concept plans were created to explore the potentials of the program and site. The concept is a compact single story facility selected for its flexible grouping of academic functions, excellent activity zoning, good and the collaborative learning community it will foster. Focusing on their unique educational programs and character, the planning team crafted a new school that honors the independent artistic spirit of a community that is grounded in the wild landscape of Alaska.

UAF TANANA VALLEY CAMPUS MASTER PLAN, FAIRBANKS

UAF's Tanana Valley Campus currently offers more than 40 certificate and degree programs and full-service student assistance and advising through a network of nine discrete facilities in the greater Fairbanks area and Delta Junction. MCG examined the current and future facility needs of the Campus in light of current growth trends.

The study was accomplished in four steps:

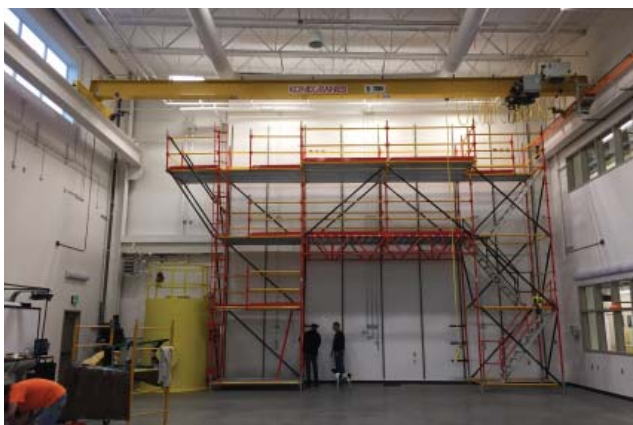
1. Inventory of existing facilities
2. Determination of space needs
3. Development of a Learning Plan
4. Exploration of campus organizational ideas

The planning process involved major stakeholders in the UAF Tanana Valley Campus including students, faculty, staff, and community representatives. The Planning Team used a process called "designing down" and "checking up," through a series of interactive workshops with the planning committee. The design process was used to build a framework of desired learning features to direct the master facilities plan for the Campus. The process culminated in a series of key program and facility recommendations. A Learning Plan was developed that served as the basis for the Master Facilities Plan for the Campus.

A unique challenge for this master planning process was to discover a facility organization scheme that takes advantage of the existing diverse learning settings while providing a coherent, full service educational experience for students. Current facilities were plotted on aerial photos and several prototype organizational schemes were evaluated using the criteria established in the Learning Plan. This process validated TVC's current organizational scheme while suggesting modifications to better serve students, workforce demands and community needs.

A series of recommendations evolved based on the planning committee's work on the learning and organizational plan and are grounded in the analysis of existing facilities and future needs.





Training and educational spaces within UAA Kenai Peninsula College Career and Technical Center; Mat-Su Career and Technical High School; and Valley Pathways School.

E. REFERENCES

MCG Firm References

1. Phil Burdick, Sitka School District, 907.966.1264
2. Kathy Christy, Project Manager, 907.223.2999
3. Edie Knapp, Project Manager, Anchorage School District, 907.348.5207

PDC References

1. Chris Reitan, Galena City School District Superintendent, 907.656.1205 ex 109 (GILA term contract)
2. Kim Mahoney, PE, PM, DOT&PF Public Facilities Branch, 907.269.0822 (AVTEC term contract)
3. Brad Persson, PE, PM, DOT&PF Public Facilities Branch, 907.269.0826 (various DOT shop projects)

Dahlberg Design References

1. Marc Walker, Facilities Director, Bartlett Regional Hospital, 907.796.8900
2. Jason Murdoch, President, Alaska Commercial Contractors, 907.500.9993
3. Richard Ritter, Chief Architect, City & Borough of Juneau, 907.586.0497

Estimations References

1. Glen Kravitz, ARCADIUS. U.S., 907.374.6938
2. Tim Mearig, State Of Alaska, DEED, 907.465.6906
3. John Hansen, University of Alaska, Anchorage, 907.768.4913

F. FEE PROPOSAL

Our fee proposal has been provided in a separate, sealed envelope.