



Submitted to:
Department of Administration
Purchasing Division, Building 15
2019 Washington Street East
Charleston, WV 25305 - 0130
Attn: Frank M. Whittaker

Submitted by:
GAI Consultants, Inc.
500 Summers St., 3rd Floor
Charleston, WV 25301
304.926.8100
gaiconsultants.com

Expression of Interest **Blennerhassett Island Improvements to Marine Landing Facilities**

October 18, 2011

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WV PURCHASING
DIVISION

...transforming ideas into reality

...transforming i

October 18, 2011

Department of Administration
Purchasing Division, Building 15
2019 Washington Street East
Charleston, West Virginia 25305 – 0130

Attn: Frank M. Whittaker

**RE: Request for Qualifications
Engineering Services for Design, Construction, and/or Specify Improvements to
Marine Landing Facilities at Blennerhassett Island State Park
Parkersburg, West Virginia**

Dear Mr. Whittaker:

GAI Consultants, Inc. along with C.L. Pifer & Associates, LLC and Jobes Henderson and Associates, Inc. are excited about the opportunity to present our experience and qualifications with regard to your Request for Quotation concerning the improvements to marine landing facilities at the Blennerhassett Island State Park. It will become evident as you read our qualifications that GAI Team has vast experience in all aspects of recreational planning and riverfront development ranging from master planning to construction documentation and administration.

As the prime consultant for Haddad Riverfront Park, GAI has recently collaborated with the City of Charleston to develop a conceptual design, master plan and construction drawings to improve this underutilized asset. A key component of that project involved the design of a much needed ADA compliant boat dock and ramp that unites the entire park into a cohesive facility while upgrading its facilities to current ADA standards. Once an unattractive, isolated space, Haddad Riverfront Park is now the "front porch" of the city, where residents congregate, recreate, and communicate. We invite you to call Mr. David Molgaard, City Manager, at 304.348.8014 to learn more about this successful venture.

The GAI Consultants team brings an intimate understanding of the complexities of project design and management with an emphasis on ADA design compliance, environmental sensitivity and sustainable design practices. GAI Consultants is an 800 person, multi-discipline engineering and environmental consulting firm located in Charleston, West Virginia as well as offices across the Northeast, Southeast, and Midwest United States. Our team has been involved on a variety of riverfront projects as illustrated by our body of work.

We look forward to partnering with Division of Natural Resources to help achieve your goals of creating most effective and economical improvements to the marine landing facilities, but is contextually sensitive to the historical surroundings that make up our beautiful State Park. We invite you to read on to learn how our individualized approach can provide the Division of Natural Resources with a marine landing facility that they can be proud of.

Sincerely,
GAI Consultants, Inc.



David Gilmore, RLA
Land Development Services Manager
Corporate Practice Leader: Landscape Architectural Services



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

DNR212041

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

FRANK WHITTAKER
304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

GAI Consultants, Inc.
500 Summers Street, 3rd Floor
Charleston, WV 25301

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
09/09/2011				

BID OPENING DATE:

10/18/2011

BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST (EOI) FOR ENGINEERING SERVICES AND OTHER RELATED SERVICES TO DESIGN, CONSTRUCT, AND/OR SPECIFY IMPROVEMENTS TO MARINE FACILITIES OPERATED BY THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES PER THE ATTACHED SPECIFICATIONS.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO 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 09/28/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>David G. G...</i>	304.926.8100	October 18, 2011
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Land Development Services Manager	25-1260999	

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

DNR212041

PAGE

2

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FRANK WHITTAKER
304-558-2316

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GAI Consultants, Inc.
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PARKS & RECREATION SECTION

324 4TH AVENUE
SOUTH CHARLESTON, WV
25303-1228 304-558-3397

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09/09/2011				
BID OPENING DATE: 10/18/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				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.:				DNR212041		
BID OPENING DATE:				10/18/2011		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

CONTACT PERSON (PLEASE PRINT CLEARLY):						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Dan G...</i>	304.926.8100	October 18, 2011
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Land Development Services Manager	25-1260999	

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

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 owned 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 exceeds 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 SIGNATUREVendor's Name: GAI Consultants, Inc.Authorized Signature: *David G. Galt* Date: October 18, 2011State of West VirginiaCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 18 day of October, 2011.My Commission expires October 28, 2012.**AFFIX SEAL HERE**

NOTARY PUBLIC

*Carol A. Moore*



gai consultants

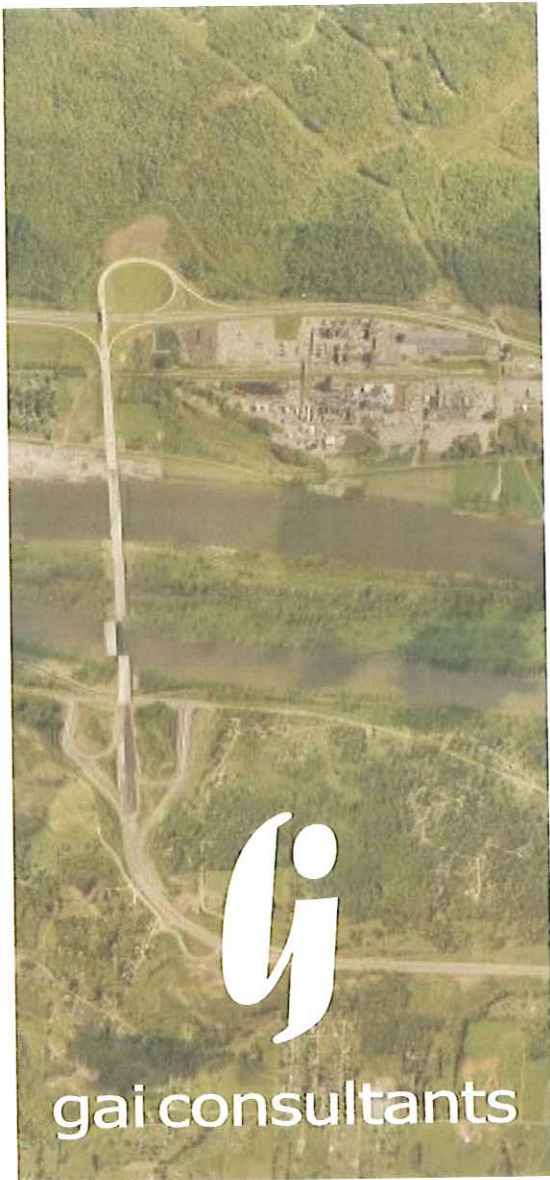
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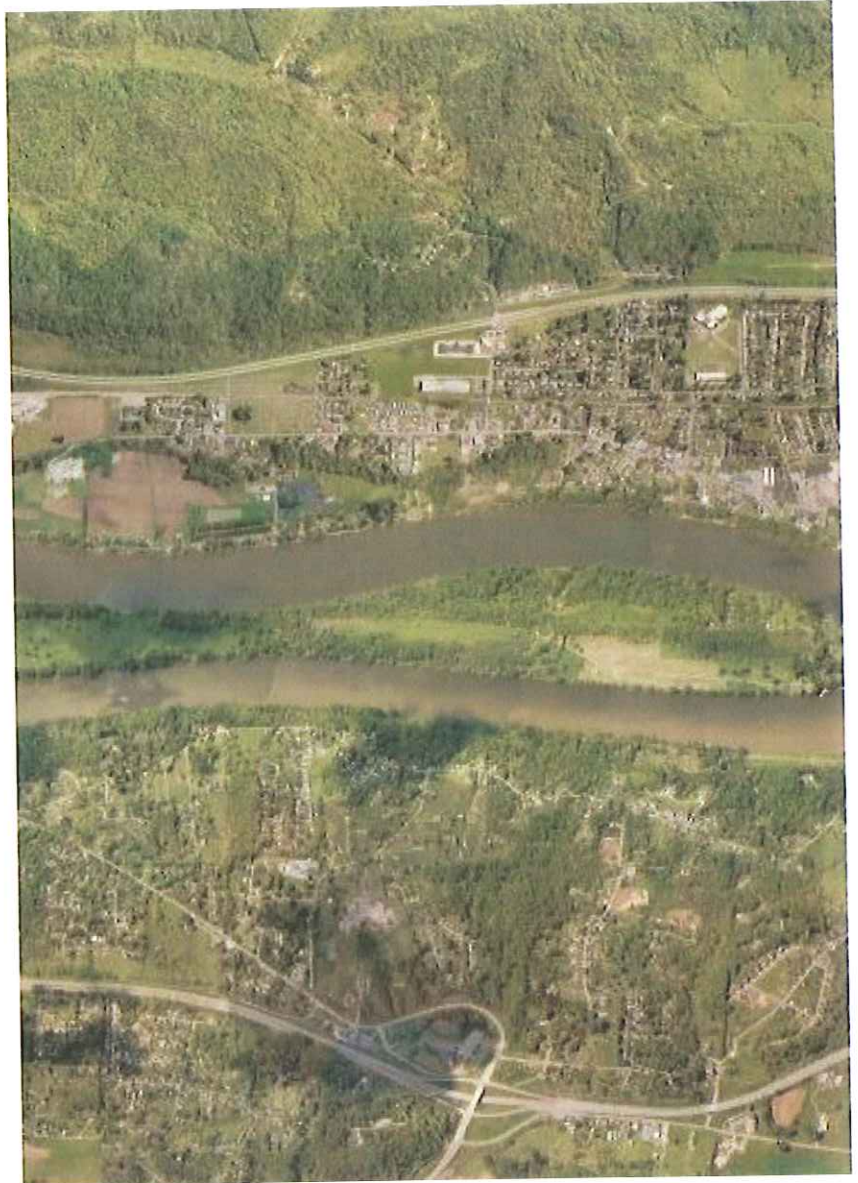


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gai consultants



Concept

Concept



Concept

What sets GAI apart?

At GAI Consultants, Inc. (GAI) our goal is to deliver for you –a project that draws award winning reviews and provides the highest quality experience for our clients and their key stakeholders.

The key to Successful project development and outcome requires passion, commitment, and innovation. It also requires attention to detail, due diligence, and organization.

By avoiding costly delays and frustrating glitches, we are better able to assist our clients in the development process and support project buy-in from financial partners, local governments, and involved communities. Whether developing former brownfield sites, urban in-fills, or raw land, our experienced professionals are known for smoothly navigating the compliance and development process. We respect our clients' time, money, and resources as if they were our own. With this philosophy, we increase value in every project we do.

A Unique Opportunity Realized

As development and sprawl continues to rage out of control and our greenspace and recreational areas continue to disappear in our downtowns and along our riverfronts, the quality and relationship of the spaces where people live, work and play have taken on an increased role of importance over the last decade. These issues, when coupled with emerging trends such as place making and sustainable design practices, make selecting the right consultant team even more important. We feel that the planning team that we have assembled will be unmatched in experience and talent, and will ensure the success of the Blennerhassett Marine facilities improvement project.



The GAI Planning Team's philosophy process begins as an exercise in problem definition. Identifying constraints and opportunities evolves from a variety of physical and nonphysical conditions, and most importantly...the needs of the Client. The ability to creatively combine these factors is the key to the project's success. Of utmost importance to the success of your project is the ability to engage the Division of Natural Resources and its representatives at every stage of the design process. The GAI planning team will accomplish this by establishing an open and transparent dialog from the outset of the project to the drafting of the construction plan. This active dialog ensures that as the design effort progresses, the Client is able to respond to the concepts and ideas presented before the process moves forward.

Our Team brings an intimate understanding of the complexities of project design and construction management. We have worked with a number of government agencies across the United States in many different capacities from master planning and public involvement illustrated by the Martinsburg Comprehensive Study to construction documentation and administration implemented on the Caperton Trail. GAI also has an intimate understanding of permitting issues illustrated by multiple WVDOT projects, and right-of-way issues as part of the Westmoreland Heritage Trail. Our experience also includes parks and recreation design, streetscape engineering and urban revitalization which were an important element of new Haddad Riverfront Park, now a focal point and pedestrian hub for downtown Charleston, West Virginia.



Experience Matters

When approaching a project of this magnitude, you want a team of professionals that are experienced and can assess the project with a holistic approach. Our Team has an extensive master planning, construction documentation and administration background, and looks forward to applying our current knowledge and expertise to the design of the marine improvements for Division of Natural Resources. In addition to project design experience, the GAI team has an extensive knowledge in construction administration that helps create a practical approach to anything we design. We are confident that the design team that we have assembled will be unmatched in experience, talent, and drive to fulfill the State of West Virginia's vision for success.

We have accomplished many goals most people would not have thought possible. GAI met the challenge.

-Columbia Gas

The GAI design team's philosophy is that the design process begins as an exercise in problem definition. Identifying constraints and opportunities evolves from a variety of physical and nonphysical conditions, and most importantly...***the needs of the Division of Natural Resources for Blennerhassett Island.*** The ability to creatively combine these factors is the key to the plan's success. Of utmost importance to the success of the design is the ability to engage the client and its users at ***every*** stage of the design process. The GAI Planning team will accomplish this by establishing an open and transparent dialog from the outset of the project through construction administration. This active dialog ensures that as the planning effort progresses, the Client is able to respond to the concepts and ideas presented before the process moves forward.



Components for Success

One of several things that make GAI's team the right choice for this assignment is the broad range of service types that our team can offer. To ensure a successful project outcome, we must first identify the constraints and opportunities that are presented by the project. Whether they are physical constraints or related to permitting, our team has the luxury of being able to draw insight from recognized experts in the fields of vehicular and pedestrian circulation, cultural resources, landscape architecture, biology, ecology, and site utilities. The principal design team members assigned to manage this project has extensive experience with regard to projects of this type, providing an insight, knowledge and design ability that no other team can match.

- **David Gilmore**, RLA, ASLA 22 years. Mr. Gilmore will serve as the overall project manager, overseeing scheduling, personnel, design and client communication. The central focus of his practice is on the continued development of the firm's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all of GAI's offices and clients.
- **James Hemme**, PE, LRS, 20 years. Mr. Hemme specializes in site engineering, planning, permitting and stormwater management, with emphasis on parks and recreation areas and infrastructure. He brings a multi-disciplinary background to projects that enables him to see the "big picture" of what will be needed to take a project from start to finish.
- **Clinton L. Pifer**, ASLA 18 years. Mr. Pifer has extensive experience on a wide range of projects including park master planning and development, institutional development, commercial/retail development, campus planning, campus housing, residential developments, and athletic facilities. Different phases of the design



process include inventory and analysis, site reconnaissance, schematic development, conceptual design, master planning, construction documentation, and construction administration.

- **Jared Tuck**, M.A., 12 years. Mr. Tuck specializes in historic architectural surveys, National Register nominations, Section 106 compliance-related surveys, and historic preservation planning. He has been involved with efforts to identify, evaluate, and preserve historic buildings, districts, and sites, and is a skilled architectural historian specializing in 19th- and early 20th-century architecture.
- **Mark Shawl**, RLA, LEED AP, 15 Years. Mr. Shawl specializes in all aspects of landscape architectural design. His experience includes, but is not limited to construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land-use planning (parks, recreational, residential, institutional, commercial), streetscape and municipality improvements, greenway trail design, and graphic presentation drawings.
- **Joseph Prine**, P.E. 9 years. Mr. Prine has a wide variety of experience in environmental engineering, civil engineering, site development, streetscape, and planning projects while at GAI. He has worked with private developers, architects, municipalities and governmental agencies. He has also contributed to planning and design in several community improvement and streetscape projects.
- **Ryan A. Seacrist**, 3 years. Mr. Seacrist has a wide variety of experience in hardscape design, planting design, residential landscape master planning, material and cost estimate, graphic presentation production, construction oversight, project manual preparation, environmental restoration and environmental assessment.

Our team's goal is to meet the needs of the State of West Virginia Department of Administration while keeping construction costs low and remaining sensitive to the surrounding environment. In addition to economics and practicality, the projects should create a connection to the surrounding natural environment.

Full Service Capabilities

We are a One Stop Shop. Our multi-disciplined capabilities mean clients can form a single partnership to shepherd their entire project to completion. GAI is one of the few engineering and environmental consulting firms nationwide with an in-house cultural resources team. This strong background in historic preservation better equips GAI with the tools to address any client concern.



We take a proactive approach to every project, working to identify issues and find solutions before they become costly problems. We also approach our work from the contractor's perspective, finding as many ways to assist them in the building process as possible. As a result, our work is highly constructable, efficient, and cost-effective. Our clients are highly valued partners – our goal is to make working with us the easiest and smoothest process that you've gone through with an engineering firm.



Office Briefs



Engineering Solutions
Client Care
Environmental Stewardship
Community Enhancement
Safety & Sustainability

GAI-Charleston Office Brief

GAI-Charleston

The City of Charleston, located at the confluence of the Elk and Kanawha Rivers, is West Virginia's largest city and state capital. Three major interstates converge in the city's center, placing Charleston within a day's drive of 60 percent of the U.S. population. Downtown and riverfront improvement projects attract visitors to the Capitol Complex, the Kanawha State Forest, and other educational and recreational areas.

Since 1985, GAI-Charleston has provided award-winning consulting services in mine land reclamation and mine drainage engineering. We continue to deliver innovative engineering solutions in transportation, land development, and energy markets, with a particular specialization in landscape architecture and LEED design. GAI-Charleston's premier teams of professionals serve a wide range of clients, including local developers, state government agencies, and large corporations.

General Services

- + Environmental Engineering, Permitting and Mitigation
- + Transportation and Traffic Engineering, Planning & Design
- + Geotechnical and Structural Engineering
- + Mechanical and Electrical Engineering
- + Water/Wastewater Engineering/Utility Management
- + Land Development, Landscape Architecture and Planning
- + Cultural Resources Management
- + Surveying/Geographic Information Systems (GIS)
- + CEI/CMS/Materials Testing
- + Utility Coordination/Eminent Domain
- + LEED Design and Greenhouse Gas Consulting

Specialty Services

- + Grant-writing, Asset Management & Valuation Studies
- + Computer Programming & Web Site Development
- + Graphic Design, Video Production, & Public Outreach

Transforming ideas into reality for over 50 years, GAI is a 700-person, employee-owned, multi-discipline engineering and environmental consulting firm, serving our clients worldwide in the energy, transportation, real estate, water, municipal, government, institutional, and industrial markets from offices throughout the Northeast, Midwest, and Southeastern United States.

GAI Consultants, Inc.
500 Summers Street, 3rd Floor
Charleston, WV 25301
404.926.8100

*For more information on GAI Consultants, Inc.,
please visit www.gaiconsultants.com.*

Firm Overview

C. L. Pifer & Associates, LLC is a design firm focused on our Clients. We invest the necessary time and resources to understand the Clients' latest developments, regulatory issues, trends, drivers, challenges and success factors. It is our business to meet the needs of --

Government

Infrastructure Design and Engineering; Stormwater Management; Regulatory Compliance; Financing; Construction Administration.

Land Development

Planning; Zoning; Site Development with Preliminary and Final Design; Site Utilities; Transportation and Access Management; Landscape Architecture; Master Planning; Survey and Construction Staking.

Institutional Development

Master Planning for New and Existing Campuses; New Building Sites; Utilities, Traffic and Parking; Pedestrian spaces and Walkways; Amphitheaters; Playgrounds; Athletic Fields; Landscaping; Site Lighting; Signage.

Parks, Trails and Greenways

Entry Features (Signage); Passive and Active Park Design; Master Planning; Streetscapes; Trail and Greenway Systems; Wetland and Stream Preservation and Restoration.

Survey Services (sub-consultant)

GPS; Utility Mapping; Boundary; Right of Way; Topographic; ALTA; Platting.

WHO WE ARE

C. L. Pifer & Associates, LLC is a design firm with the mission to serve our clients needs while keeping our clients budget in mind. We have over eleven years of experience of serving our clients in the state of West Virginia. We have been in the state since the firm inception and take pride in our local community development.

WHERE WE ARE

We are located in Parkersburg, West Virginia. We are available by phone, internet and car to be available for the WVNDP's needs at all times. Being a smaller firm, we are there for all issues and have the ability to focus our attention for our clients needs.

SOLUTIONS

We deliver superior client service. Others can say this, but C. L. Pifer delivers practical, innovative, executable plans and solutions. We measure our success through *Client Relationships, Project Delivery, Funding Assistance and Innovative Technical Expertise*. We also base our success on our long line of repeat clientele who continue to use our services due to project successes.



Firm Profile

Introduction

At Jobes Henderson and Associates, Inc. (JHA), we specialize in Civil Engineering and Land Surveying for over 45 years. Our focus is on providing personal, high quality civil engineering design and land surveying services to all our clients, and we're ODNR and ODOT prequalified and State of Ohio EDGE certified.

Clientele

We provide planning and design services to clients throughout the state. Our clients include people like you: the Ohio Department of Natural Resources, Ohio Department of Transportation (ODOT), Ohio Office of Information technology, The Ohio State University, counties, municipalities, public entities, private developers, commercial developers, corporate businesses, and nonprofit organizations.

Personnel

Your projects are performed by our technical team of 27 highly skilled professionals and trained technicians, each hand-picked for their experience and specializations. This team includes 9 registered engineers, 3 surveyors, and trained, experienced technicians. And rest assured our staff is large enough to supplement your project team as needed with additional qualified professionals.

Location

Our corporate headquarters are centrally located in Newark, Ohio. This allows us to respond to your needs on very short notice. We can be anywhere within the state in two hours or less.

Experience

JHA has served Ohio and the surrounding states since 1965. We have built a reputation for being a quality-oriented, dependable, and client-focused firm. Our services are provided by trained personnel with excellent management skills and the required technical knowledge to complete your projects efficiently and accurately, and our principals are actively involved with each project in management, quality control, site visitations and client relations.

JHA's Ownership	
James G. Roberts, President	
27 years of experience	
Professional Engineer- OH, WV IN Professional Surveyor- WV Bachelor of Science, Ohio State University	
Kenneth B. Stewart, Sr. Vice President	
23 years of experience	
Professional Engineer - OH, KY, PA, MI, FL, LA Bachelor of Science, Ohio State University	
Steven Crist, Senior Crew Chief, Resident Representative	
21 years of experience	
Professional Surveyor- Kentucky	
Jeremy Van Ostran, Sr. Vice President	
14 years of experience	
Professional Surveyor - Ohio Bachelor of Science, Ohio State University	



Service Briefs



Land Development Service Brief

Overview

Land development involves the integration of a variety of activities that include: Economic Feasibility, Master Planning, Engineering and Environmental Analysis, Legal Issues, Financing, and Marketing.

Without effective guidelines and long-term planning, development becomes haphazard and risky, reactive only to short-term needs. Success is largely dependent upon early planning and engineering studies that provide insight into the best possible use, reuse, or development of properties.

Project Experience

Since 1958, GAI Consultants, Inc. (GAI) has worked extensively with developers, private industry, and government agencies on planning and developing projects for the commercial, residential, industrial, and recreational markets.

- Regional shopping malls
- Industrial parks
- Commercial office sites
- Recreational parks
- Residential subdivisions
- Recreational and resort communities
- Marinas
- Higher Education
- Healthcare
- Airports

In the present economic climate, our clients are faced with escalating project costs due to rising real estate value, diminishing availability of desirable sites, growing environmental concern and increasing construction cost. All of these factors along with changes in real estate tax laws make obtaining financing for a development project an almost insurmountable task. However, GAI's development professionals are experts who keep abreast of changes in regulations. Also, we can analyze project/site feasibility to provide cost-effective strategies for many kinds of projects, even major projects involving infrastructure that must be completed under time-sensitive schedules.





Landscape Architecture Service Brief

Overview

GAI Consultants, Inc. (GAI) performs various landscape architecture services for a wide range of project types in order to assist our clients, and provide them with individual design solutions that exceed their expectations.

GAI's team of professional landscape architects work on a wide range of project types to achieve a balance between the constructed and natural environment. Projects range from the site design for a small, urban park to a regional study of native ecosystems. Landscape architects often work as an integral part of a comprehensive GAI design team with other disciplines. This comprehensive approach is used in: land development, highway corridor studies, recreational and resort communities, municipal and comprehensive planning studies, environmental studies and mitigation design, urban design and neighborhood beautification plans.

Benefits of Landscape Architecture Services

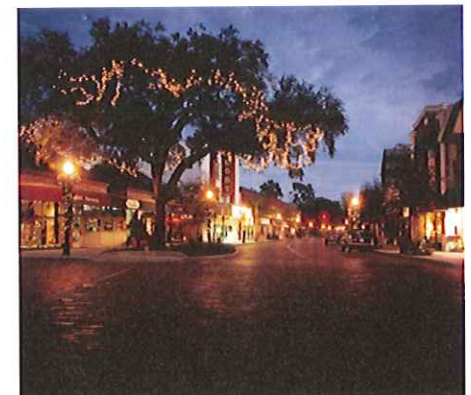
For both public and private sector projects, landscape architecture design provides tangible benefits to the client. These advantages include:

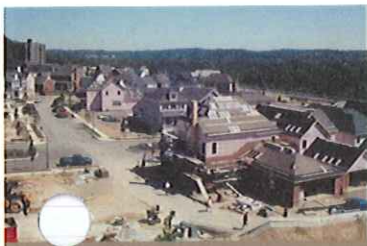
- A more aesthetic project and a greater return on investment through site amenity design features
- Lower site development costs through site analysis and site-sensitive design

GAI creates unique, individual design solutions for the client, which can help a project achieve a higher profile and stand out among the competition. Our team of land planners and landscape architects promote both site-appropriate and sustainable design through the use of innovative techniques such as GIS mapping of natural systems, the use of Traditional Neighborhood Development (TND) concepts, and the use and promotion of native plant materials.

Our Landscape Architecture Designers contrive the themes and the guides for the creation of active and passive landscape spaces. First, we begin by attaining a comprehensive understanding of our client's needs, goals and specific site opportunities. Then, armed with this insight and our internal resources, we achieve the "conceptual intent" of the landscape space. Lastly, we redefine the concept and transform it into Landscape Design.

Communicating and presenting concepts and themes are essential tasks which, as a result, lead to making interaction with our clients and other project related disciplines the most indispensable step towards the final creation of the Landscape Design Construction Documents. Through maintaining contact and understanding the project goals, we stay on task and on budget.





Planning and Site Design Service Brief

Overview

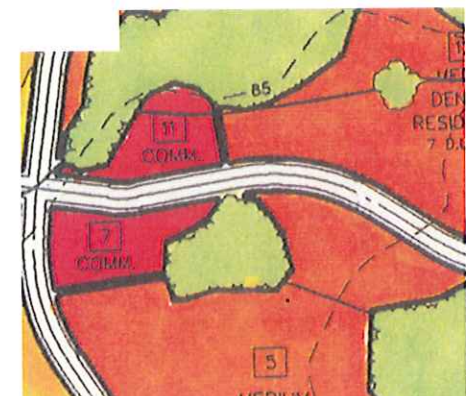
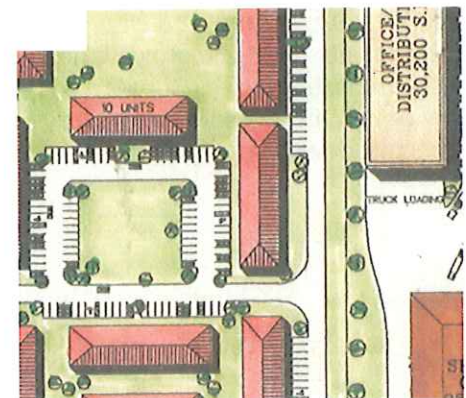
GAI Consultants, Inc. (GAI) provides a full complement of comprehensive urban and site planning and design services. We have a solid core of professional planning personnel with expertise in a wide range of planning and growth management applications, grantsmanship, and plan implementation processes.

Our corporate culture fosters a stable, talented and service-oriented staff to provide integrated strategies and solutions to meet project-specific needs and to help solve neighborhood, community and regional development issues, and to provide a strong sense of community.

Our Planning Services Include:

- Comprehensive planning and urban design
- Community planning and redevelopment
- Land use and development regulations
- Due diligence and land use entitlements
- Master plan and site selection studies
- Corridor alternatives analyses
- Developments of regional impact
- Project development and environmental studies
- Historic architecture analysis and community
- Design standards
- Public participation, visioning and consensus building

We provide our clients with a comprehensive understanding and efficient approach to their program with our in-house civil, landscape architecture, transportation, structural, survey, and CEI capabilities.





Site Development Service Brief

Overview

Critical to a project's viability, public resistance, environmental issues, local zoning issues, site topography and regulatory hurdles cause Land Development to be a challenging industry. From environmental impacts and public review to a variety of technical constraints, permitting and plan approval can hinge on any number of preliminary planning and design considerations. Furthermore, failure to anticipate problems can result in substantial and even insurmountable delays in a project's timetable and its economic viability.

GAI Consultants, Inc. (GAI)'s primary focus is producing superior projects on time and on budget. Our experience includes dozens of land development and redevelopment projects on residential, commercial, industrial and mixed-use properties. From conceptual site design through final construction, we not only know the process, we possess the needed experience to help you succeed. Through the interaction of our various engineering disciplines, we are able to provide comprehensive services for every phase of each project. These include:

- Land surveying
- Feasibility studies
- Facilities planning and design
- Land use studies
- Master planning
- Landscape architecture
- Permit acquisition
- Impact fee studies
- Traffic impact assessments
- Site design
- Stormwater management systems
- Streetscape design
- Subdivision design
- Roadway and infrastructure design
- Construction layout surveying
- Utilities assessments, rehabilitation and design
- Water and sewer design
- Construction documentation and monitoring

We base our understanding and appreciation of land development potential on the knowledge of the local development climate and work experience in the area.

To help you achieve your goals, GAI employs professional engineers, environmental scientists, planners, registered land surveyors and field technicians who are all supported by expert technicians and state-of-the-art CADD systems. GAI makes meeting your needs our top priority.



Environmental Service Brief

Overview

Since the advent of NEPA, RCRA, CWA, and other environmental laws passed in the 1960s and 1970s, GAI Consultants, Inc. (GAI) has worked closely with its clients to provide practical, cost-effective solutions to environmental challenges.

Our diverse range of engineering, planning, environmental, and construction services include environmental site assessments, transmission line permits, abandoned mine abatement, brownfield site development, environmental compliance, safe disposal of hazardous materials, wetland delineation, assessment of threatened and endangered species, application of computer technology and state-of-the-art environmental analysis and management techniques using GIS.

Environmental Studies

- Wetlands determination & delineation
- Wetland mitigation
- Natural stream restoration
- Environmental inspection
- Rare, threatened, & endangered species surveys
- Air & noise studies
- FEMA floodplain map revisions
- Watershed management
- Environmental impact statement
- Environmental assessment

Utilities Management

- Gas/electric transmission line permit applications
- Route evaluation/selection
- FERC compliance
- Tower line feasibility study

Brownfield Site Development

- Environmental site assessment
- Comprehensive planning
- Site planning/development
- Transportation access evaluation

- Industrial site re-use using voluntary action plan

Permitting & Compliance

- Water quality permit
- NPDES permit
- Groundwater and surface water modeling
- Wastewater treatment
- Oil spill modeling/SPCC plans
- Air quality modeling
- Stormwater management plan
- Erosion & sedimentation control
- FERC permit
- 404/401 permitting
- State power siting board certification

Environmental Site Assessment

- Phase I & II assessments
- UST/AST investigations
- Soil & groundwater remediation design/oversight
- Hazardous waste management
- Remediation investigation & feasibility study





GAI's Project Delivery System for Design Projects

Overview

GAI is structured to demonstrate quality and professionalism in all that we do. Through strategic hiring and by promoting from within, project management positions are assigned to individuals who are knowledgeable technically, and who understand the importance of providing our clients with quality services and delivering project documents on time and within budget. GAI is committed to empowering our Project Managers to "think outside of the box" in their project management efforts and be responsive to our client's needs.

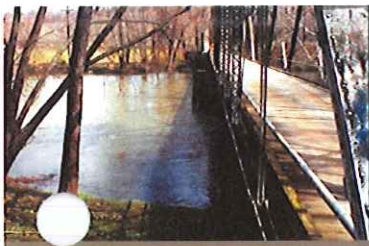
GAI makes a significant investment in management and leadership programs, and offers GAI University courses designed to help promising individuals reach their fullest potential. The Management and Leadership Skills Class coaches potential leaders in developing problem-solving and conflict-resolution techniques. GAI's Project Management Workshop and Advanced Project Management Training programs provide a comprehensive, in-depth study of project management at GAI.

A successful planning process for design projects begins with the most critical decision: Identifying the Team. Assembling a solid design team to support the needs of the project and to meet or exceed the client's expectations is the foundation for quality engineering and timely project delivery. Every GAI team comprises the following professionals:

- **Accomplished Project Manager:** GAI assigns seasoned project managers, who remain with their assignments to completion, and who have the ability to provide substantial technical knowledge to the project. Their contribution to the project also includes a proven reputation for providing effective leadership, motivation, and encouragement to the staff. This is the backbone of a successful project.
- **Competent Task Managers:** The project manager is a project leader and team builder, and understands the need to select the appropriate staff to manage specialty tasks associated with the project. Qualified task managers are appointed by the project manager to guide specialty teams and strengthen the core management structure.
- **Quality Sub-Consultants.** GAI teams with competent and skilled sub-consultants, when appropriate, to fill key project roles and assist GAI's in-house staff. GAI uses firms that meet or exceed GAI and client expectations, and this facilitates development of a strong project team. Many of our sub-consultants have partnered with GAI before, providing a seamless complement to the team.

Immediately upon receiving authorization to proceed, the project team follows GAI procedures for project development, as described below. These activities identify and establish administrative procedures for managing and executing the project.

1. **Project Work Plan:** The Project Manager prepares a work plan that identifies the sequence of major project activities from project inception through completion for design and construction.
2. **Project QA/QC Plan:** The Project Manager selects a QA/QC level for the project that considers the complexity of the project, and any risks or uncertainties identified with the project. GAI's benchmark for ascribing an appropriate level of quality control ranges from project reviews, internally and with the client at specific stages, to preparation of a Project Specific Quality Assurance Plan (PSQAP).
3. **Project Kick-Off Meeting.** The Project Manager holds a project kick-off meeting with the design team and the client. The most critical of all meetings, it is the Project Manager's opportunity to promote confidence in the project team by exhibiting a well-organized plan for project execution and discussing the client's expectations. The project schedule is developed, the work plan and quality control procedures are



Historic Preservation Service Brief

Overview

As required by the National Historic Preservation Act, historic resources such as above-ground historic buildings, structures, sites, districts and objects, must be considered during the planning stages of federal undertakings. Other regulations protecting historic resources include the National Environmental Policy Act, and Section 4(f) of the Department of Transportation Act.

GAI Consultants, Inc. (GAI) assists our clients by providing historic resources identification services for public and privately funded projects. GAI's project expertise ranges from large-scale architectural surveys, resource evaluations and effects criteria for large transportation projects to small-scale surveys of buildings and districts for small towns with CLG grants.

Experienced Personnel

GAI's professional staff comprises a highly professional and accomplished full-service team with advanced degrees in architectural history, history and historical archaeology. Our qualifications exceed the professional standards in 36 CFR 61, Appendix A.

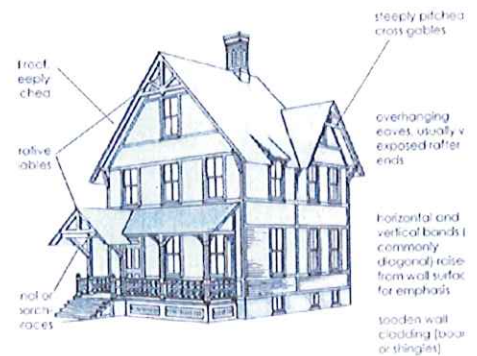
GAI's professionals are experts in conducting historic resources studies through contracts with various state and federal agencies throughout the eastern United States. At GAI, we conduct documentary research, National Register nominations and surveys consistent with the procedures and quality established by the United States Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation, 48 CFR 44716.

Our preservation services are supported by database management software, CADD facilities, a photographic darkroom and a large-format camera for stringent HABS/HAER processing requirements.

Historic Preservation Services

GAI's cultural resources group provides historic resources and preservation services in the following areas:

- Historic context development
- Primary and secondary archival research/deed research
- Architectural reconnaissance surveys
- Historic district and landscape surveys
- National register evaluations
- National register nominations
- Effects determinations and 4(F)
- HABS/HAER recordation
- Mitigation measures
- Agreement documents (MOA, PA)
- Preservation plans



Geotechnical Service Brief

Overview

Since 1958, GAI Consultants, Inc. (GAI) has provided geotechnical engineering services. Using the principles of engineering geology, soil and rock mechanics, and foundation engineering enhanced by practical experience, our engineers and geologists assist clients with projects that involve managing the earth's materials and geologic processes.

Project Capabilities

Geotechnical investigations are necessary preludes to the sound, economical planning, and design of:

- Buildings
- Industrial plants
- Community and recreational developments
- Dams
- Highway and bridges
- Tunnels
- Soil and rock slopes
- Retaining structures
- Commercial developments
- Waste disposal areas
- Facility additions
- Transmission lines
- Environmental site remediation

Geotechnical Engineering Services

GAI's geotechnical engineering services include:

- Geologic studies and reconnaissance
- Subsurface explorations
- Foundation recommendations, design, and research
- Subsidence studies and remediation
- Slope stability analysis and design
- Earthfill and rockfill dam evaluation and design
- Geosynthetic materials design
- Tunnel analysis and design
- Earth and rock retaining structure design
- Mine fire abatement
- Mining engineering
- Instrumentation and monitoring
- Foundation research
- Materials testing





Surveying Service Brief

Overview

GAI Consultants, Inc. (GAI) offers a full range of surveying services to meet the land documentation needs of public and private land owners, developers, and government agencies. Our surveying services are comprehensive, covering almost all surveying applications.

Boundary Surveys

Boundary surveys are developed for a wide range of uses. These include: land title/ownership purposes; real estate financing; as-built delineations; insurance purposes; real estate appraisal and sales; encroachment delineation; boundary line dispute resolutions; subdivision plats; condominium plats; and rezoning/variance purposes.



Construction Surveys

Construction surveys can save valuable time and cost in the field. Surveys conducted on site during the initial stages of construction preparation are critical to establish location (horizontal) and elevation (vertical) placement of designed improvements. Our survey teams have saved our construction/contracting clients thousands of dollars in potentially damaging lost time and litigation liability.



Control Surveys

Control surveys employ a series of grid lines and points to accurately pinpoint physical features. The process consists of establishing horizontal and vertical control points to develop a series of independent triangulation measurements. This network is then verified and compared to develop reliable and accurate control grids.

Design Surveys

Design surveys provide the foundation upon which all design for manmade improvements must rely on for design development. Boundary lines' location, topography, site physical features (rock outcroppings, trees, etc.), as well as any on-site buildings, utilities, encroachments, and easements are recorded. From this foundation design plans can be effectively produced. The GAI surveying team has developed design surveys for all types of design assignments including bridges, highways, buildings (residential, commercial, industrial, institutional), utilities (electric power, gas, water, sewer, cable TV, phone) and transportation facilities (airports, railroad, truck and bus facilities).





Cultural Resources

Service Brief

Overview

Since 1974, GAI Consultants, Inc. (GAI) has been a leading provider of cultural resources services. The qualifications of our professional staff exceed the federal standards for cultural resource management studies. Our archaeologists have doctoral and master's degrees in historic archaeology, prehistoric archaeology, urban archaeology, and soil science, and extensive training in historic preservation and federal law. Many are certified by the Society of Professional Archaeologists. Because we maintain a large staff, we can conduct several archaeological investigations simultaneously and respond to our clients' needs quickly. GAI conducts similar studies for historical resources.

GAI's Cultural Resources Group is a full-service division, offering both architectural history and archaeological services.



Cultural Resources Group capabilities include:

- Phase I archaeology surveys
- Public outreach products/programs/education
- Quantitative analysis and statistics
- Site formation studies
- Phase II site evaluations
- Historical archival and deed research
- Database design and management/ GIS/GPS
- Phase III data recovery, treatment and mitigation plans
- HABS/HAER
- Prehistoric and historic pottery analysis
- Historic architectural surveys
- Assessment studies
- NEPA, FERC, NHPA/SECTION 106
- Geomorphology/pedology/ petrography

Cultural Resource Management Services

The National Historic Preservation Act requires completion of the Section 106 Compliance Review Process for any project that has federal assistance. This process involves locating, evaluating, and mitigating significant archaeological sites and historic resources that may be impacted by a proposed project. Most states also have such regulations for state-funded or licensed projects.

GAI provides a full range of cultural resource services for federal, state, and local government agencies; state departments of transportation; mining companies; electric utilities; gas utilities; private land developers; and to other engineering firms.





Construction Engineering and Inspection Service Brief

Overview

The Construction Engineering and Inspection (CEI) industry is based on client service, construction integrity, and on-time/on-budget project completion. Without reliable CEI services, the client is without protection. GAI Consultants, Inc. (GAI) is dedicated to providing our clients with the reliable and quality services that are required to ensure a successful project.

GAI's construction engineering and inspection team consists of highly skilled construction engineers, resident engineers and construction technicians with experience inspecting large, multi-phased construction projects. Our expertise in large, multiphased construction projects ranges from major bridge replacements to roadway widening projects. For new construction and enhancement projects, GAI's CEI team has the experience to provide client protection throughout the construction process.

Our services are divided into five distinct work areas

- Pre-construction services
- Pre-construction conference implementation
- Construction engineering and inspection services
- Project management/contract administration
- Post-Construction services

Pre-Construction Services

Pre-construction services primarily involves mobilizing staff, equipment, and resources. It involves a careful evaluation of the project's specialized needs, and the selection of staff and resources to keep costs at a minimum, yet provide for a high quality product.

Pre-Construction Conference Implementation

Pre-construction conference implementation involves developing a comprehensive, well orchestrated meeting. This meeting includes: the owner/client, the selected contractor and his subcontractors, local utility companies, governmental units, GAI and, the owner/client representative. This meeting is important to effectively create a team.





gai consultants

Firm Qualifications

Firm Qua



Firm Qualifications

GAI is an 800-person, employee-owned, multi-discipline engineering and environmental consulting firm, serving our clients worldwide in the energy, transportation, real estate, water, municipal, government, and industrial markets from offices throughout the Northeast, Midwest, and Southeast United States. This section provides further information regarding the firm and presents our overall landscape design capabilities.

Services Offered:

Environmental Engineering and Studies; Civil Engineering; Land Development; Transportation Engineering and studies; Geotechnical Engineering; Structural Engineering; Cultural Resources; Construction Engineering & Inspection; Surveying; GIS; Landscape Architecture; Electrical Engineering; Mechanical Engineering; Water Resources Management.

Markets Served:

Energy, Transportation, Real Estate, Water, Municipal, Government, Institutional, and Industrial.

Founded:

October 1958, Pittsburgh, PA; consolidated in 2003

Staff:

Over 800 employees corporate-wide

Revenue:

Over \$70 million annually

Ownership:

100 percent Employee-owned (ESOP) firm with a 7-member board

Vision:

The Company of Choice... Transforming Ideas into Reality©

Mission:

To Continue Growing as an Integrated Consulting Firm, Creating Value for Our Clients and Employees

Core Values:

- + Honest, Fair, and Ethical Behavior
- + Quality Work Culture
- + Company Loyalty and Support
- + Equal Employee Opportunities
- + Mutual Employee Respect

Awards (www.gaiconsultants.com/awards):

- + 56 Engineering Excellence Awards
- + Top 500 Design Firms - Engineering News-Record (ENR) Magazine: 2006, 2007, 2008, and 2009
- + Top 200 Environmental Firms - Engineering News-Record (ENR) Magazine: 2008

Website www.gaiconsultants.com



GAI Professional and Staff Resources

Archaeologist		25
Architectural Historian	✦	9
Biologist		7
CADD Technician	✦	54
Civil Engineer	✦	55
Construction Inspector	✦	41
Construction Manager		22
Electrical Engineer		7
Environmental Engineer	✦	33
Environmental Scientist		32
Foundation/Geotechnical Engineer	✦	14
GIS Specialist		11
Geologist		7
Land Surveyor		23
Landscape Architect	✦	6
Mechanical Engineer		10
Planner: Urban/Regional		3
Structural Engineer		36
Technician / Analyst		157
Transportation Engineer		21
Water Resources Engineer		9
Other Employees		224
Total		806



✦ Staff Resources expected to be used for the Marine Facilities Improvement project

GAI Team Member	Project Role
David Gilmore, RLA, ASLA	Project Manager / Landscape Architectural Services Manager
James Hemme, PE., LRS	Senior Engineering Manager
Mark Shawl, RLA	Lead Landscape Architect
Joseph Prine, PE	Engineering Support
Shannon C. Shank	GIS Specialist
Ryan A. Seacrist	Land Development Specialist



Scope of Services

Phase I: Project Initiation

The following Scope of Work is based upon our years of experience in working with clients to provide comprehensive design, landscape architecture and engineering services.

This scope of services is based on the preparing construction drawings for a marine facilities improvement project at Blennerhassett Island. It is understood that after a thorough review of the project scope, adjustments will be made to accommodate the Owner's schedule etc.

Task 01: Pre Planning Meeting / Initial Site Visit / Establish Goals and Objectives

Initial Stakeholder Meetings:

GAI CONSULTANTS will facilitate an initial programming meeting to introduce our firm to the core team and project representatives. This meeting will serve to establish regular monthly meeting dates or as required, review the scope of work, review the design objectives, discuss issues in a preliminary fashion to develop a sense of steering committee familiarity with study area, design issues and concepts, and finalize any logistics in the preparation of the design.

Initial core team meetings will be conducted to solicit input. Suggested core team group could include, but not limited to:

- Representatives of GAI project management team
- Representatives of Division of Natural Resources
- Representatives of Parks and Recreation Section
- Representatives of the design team
- Representatives of Blennerhassett Island

Initial Site Visit:

The GAI CONSULTANTS Team will undertake an initial site visit with the Core Team. The purpose of the visit is to broaden the team's understanding of the project and the issues which are unique to the project site. This initial walk - through will improve the team's understanding of the project site and the issues surrounding the development of the marine improvements and will enable the design team to better communicate with the Core Team and other interested parties.

Following the site visit, the GAI CONSULTANTS Team will conduct a kick-off meeting with the Core Team. The intent of this meeting will be to:

- Gain an in depth understanding of project mission and short and long-term goals for the marine improvements
- Define the project schedule, including:
 - Milestone dates
 - Core Team meeting dates
- Begin to assemble and evaluate existing available data for the full range of planning issues and identify any significant lack in key data requirements
- Confirm and identify roles of the team members
- Establish the framework and general strategy regarding methods of presenting the research and other efforts of the GAI CONSULTANTS Team to the Division of Natural Resources
- Establish the decision making approval process for the project



Phase II: Due Diligence / Programming

Task 02: Programming

Prior to beginning in-depth analysis, the GAI CONSULTANTS Team proposes to conduct one (1) Vision Session with Core Team. This facilitated work session is structured to be a highly participative meeting in which various representatives can explore critical aspects of the design.

The purpose of this meeting is to:

- Review goals, objectives, and elements of the Division of Natural Resources for this project.
- Review all available mapping and pertinent studies from the Owner in digital format.
- Identify unique cultural considerations
- Identify opportunities: constraints and issues
- Build consensus

This phase of work will establish the framework for developing physical planning concepts. We go to great lengths to avoid preconceptions, challenge our own assumptions, and look with a fresh and inquisitive eye at each individual project. **We take nothing for granted**, making each planning effort a search for appropriate guidelines that accurately reflects the current and future trail needs of the facility.

During the first weeks of the study, GAI CONSULTANTS shall review and analyze all available data, including the information gathered during the kickoff meeting. This information will include review of any additional planning objectives identified in the vision session.

The following major program elements will be identified:

- Identification and location of major vehicular circulation patterns and entrance nodes / conflicts.
- Identification and location of major pedestrian circulation patterns and entrance nodes / conflicts.
- Identification and location of major utility conflicts.
- Identification and location of specimen trees and vegetation to remain undisturbed.
- Identification and general location of major facility types, interesting natural features, cultural and historic attributes, and other unique opportunities.
- Identification and view corridors and visual blight

Task 03: Data Collection and Evaluation

GAI Consultants will obtain available mapping (aerial photography, city topography, USGS topographic mapping, etc.) and previous planning studies/documents from Division of Natural Resources. We will contact various utility companies and authorities in the area to obtain information concerning existing utility infrastructure and general right of way issues as needed. We will analyze obtained data, mapping, and interview relevant utility personnel.

For purposes of this scope, we assume that will be working from an Owner supplied base map and no additional surveying will be required. If additional surveying is required to finalize the base mapping, GAI CONSULTANTS offers complete surveying services.

Review of Relevant Reports:

The GAI Team will review all relevant previous planning studies that have been conducted by the Division of Natural Resources including but not limited to:

- Blennerhassett Island Master Plan
- Current development proposals
- Development Guidelines for the project area



Phase III: Site Analysis

Task 04: Site Analysis

The GAI CONSULTANTS team will perform the necessary analysis of the base map data collected and shall determine the appropriate location for the proposed use areas included in the project scope. Our analysis will include a review of the provided base mapping and a site visit and walkover by team members, including the Project Manager. Additional information provided by the Owner will also be reviewed if applicable for the preparation of the design development drawings.

GAI CONSULTANTS anticipates the following as necessary elements to be researched and analyzed for the subject property:

Physical Attributes:

- Hydrology
- Floodplain
- Topography & Slope Aspect
- Soils
- Geology

Biological Attributes:

- Wildlife
- Vegetation
- Wetlands

Cultural Attributes:

- Adjacent & Intrinsic Land Use
- Land Use Regulation (Federal, State, Local)
- Infrastructure and Utilities
- Perceptual Qualities: Visibility, Views, and Noise
- Historical Quality
- Existing Structures

Phase IV: Design

Task 05: Design Package

Schematic Design Concepts:

Working with the stakeholders and their representatives, GAI CONSULTANTS will evaluate the desired scope of development for the site to identify specific design requirements that may be required to complete the master plan and presentation drawings. This will require several scope development meetings to identify and refine all the elements in the scope of work.

We anticipate developing several scenarios to address the requirements of the project scope. We will work with your described vision of the site and suggest creative and aesthetic options to enhance the property image while still being functional.



Preliminary Design/ Design Development:

After the provided and collected data has been analyzed in Task 1 and 2 and the appropriate elements for the project have been determined, GAI CONSULTANTS team shall develop a working design for the marine landing facilities that shall address the primary goals of the scope of work. This working design shall be presented to you for review and consideration. The working design will incorporate your comments from the initial programming meeting and will be presented to the Owner for review.

Final Design:

After the Owner and various stakeholders have reviewed and commented on the preliminary design, it will be modified accordingly to produce a final site plan. We understand that during the design development stage this will be a fluid process and we have assumed one significant round of comments to the working plan and two minor rounds of comments during this stage of the design.

GAI CONSULTANTS team will prepare the final design and presentation drawings which will convey the team's objectives in a clear and imaginative manner. A color rendered final master plan as well as digital files will be presented and become the property of the Division of Natural Resources.

Preliminary Cost Opinion Preparation:

A preliminary cost opinion in a spread sheet format reflecting quantities and unit rates derived from the final design shall be submitted for review and discussion.

Task 06: Construction Package

Construction Drawings

GAI CONSULTANTS team shall prepare a construction package for the above referenced project. The construction package shall reflect and refine the design elements arrived at design development stage. We anticipate the following drawings to be included in the package:

- Cover Sheet
- Erosion and Sediment Control Plan
- Existing Conditions Plan
- Demolition Plan
 - Corridor Clearing
 - Vegetation Protection Zones
 - Soil Protection Zones
 - Limits of Disturbance
- Proposed Site Grading and Drainage Plan
- Dimension & Layout Plan
- Landscape Plan / Plant Schedule / Planting Details
- Site Related Details
- Ramp Construction Details and Typical Cross Sections
- Special Storm Water Management Details

Project Specifications and Maintenance Guidelines:

GAI CONSULTANTS team shall provide the Client with the appropriate technical specifications and maintenance guidelines in Masterspec format and front end documents in AIA format to complete the work.



Task 07: Final Cost Opinion Preparation

A final engineers cost opinion reflecting phasing, quantities and unit rates derived from the construction plans shall be submitted. This can be used for comparison purposes by the Owner in reviewing bids received.

Task 08: Permitting & Environmental Review

GAI CONSULTANTS team shall prepare and submit required permit applications to applicable regulatory agencies based upon the research conducted in Task 1 and final design generated in Task 5. For purposes of this proposal we have assumed this will include erosion and sediment control plan and a general NPDES Construction storm water permit submittal to the West Virginia Department of Environmental Protection. Improvements within the ordinary high water mark of the Ohio River will require nationwide permitting with the Corps of Engineers. We also anticipate a submittal to the City of Parkersburg for a site work building permit. If additional submittals are determined or if an individual permit application to the Corps is required we will immediately notify the Owner and update this task accordingly. Normal regulatory comments are considered incidental to this task and will be handled under this scope.

Task 09: Construction Administration

GAI CONSULTANTS team can perform construction administrative duties for the project elements with regard to:

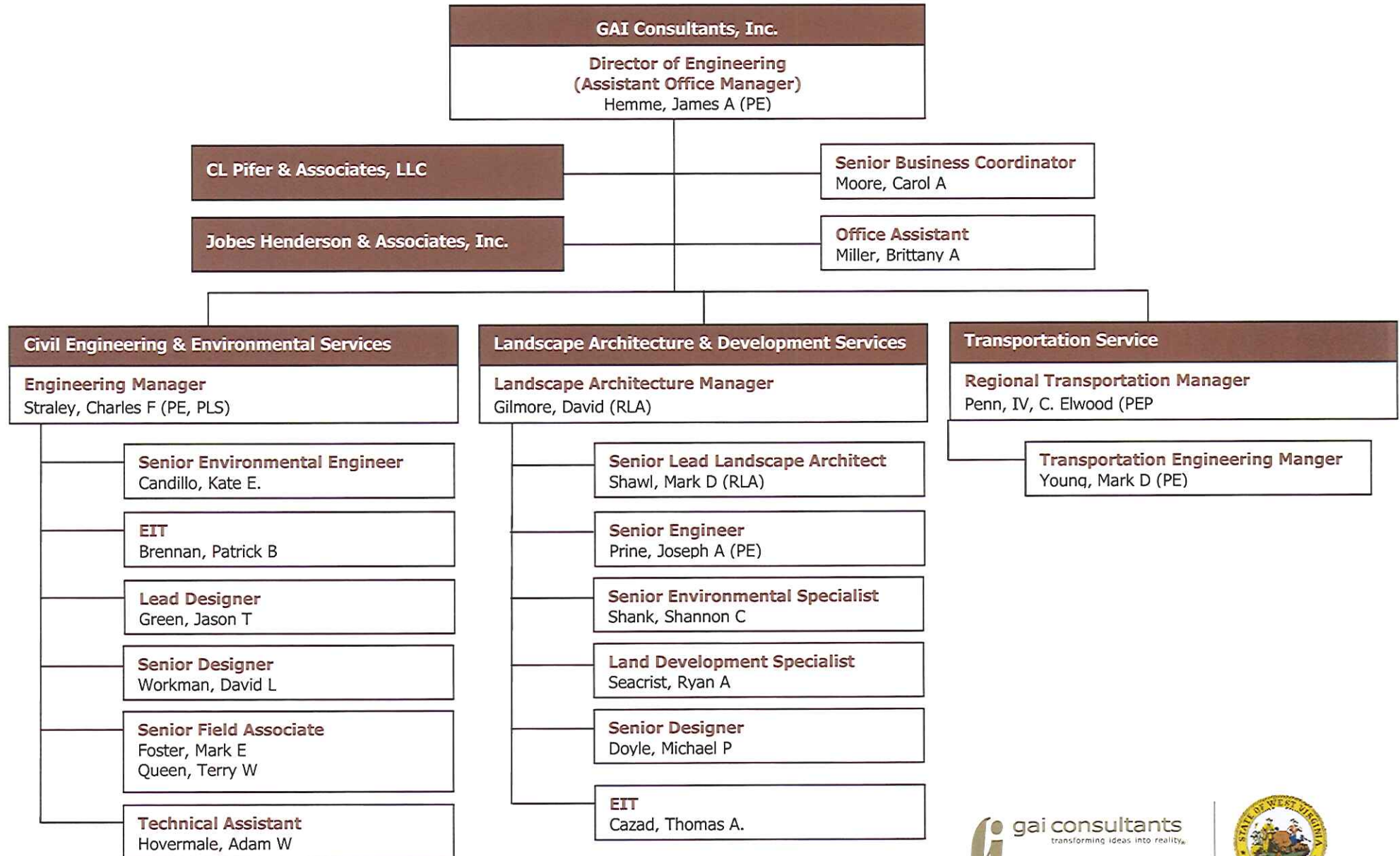
- Performing a pre-construction meeting with the selected contractor.
- Review and approval of shop drawings.
- Perform weekly site visits and bi-weekly progress meetings during construction to confirm progress and compliance with construction documents and specifications.
- Preparation of meeting minutes.
- Pay request review and approval.
- Change order preparation.
- Final site inspection / punch list development.
- Project close-out.

Task 10: Construction Monitoring

GAI CONSULTANTS team can provide full or part time construction monitoring services consisting of soil compaction testing, concrete sampling and testing, aggregate sampling and testing and other services on an as requested basis. For purposes of this proposal we have assumed that the contractor will be responsible for hiring their own third party testing agent for daily testing. GAI CONSULTANTS team will perform periodic "checks" of the contractor's results should any be in question and for determining consistency.



Organizational Chart





Key Leadership



David Gilmore, RLA, ASLA

Corporate Practice Area Leader – Landscape Architecture Services

Mr. Gilmore joined GAI Consultants in 2005 to manage the firm's land development and landscape architectural services. The central focus of his practice is on the continued development of the firm's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all of GAI's offices and clients. He will serve as the overall project manager for the project overseeing scheduling, personnel, design and client

communication.

Prior to joining GAI Consultants, Mr. Gilmore worked for a multi-disciplinary A&E firm in Charleston, South Carolina, providing architectural, engineering, landscape architectural design services. While working in South Carolina, Mr. Gilmore was involved with campus master designs for many colleges and universities, large downtown streetscapes and subdivision layout and design. Mr. Gilmore later worked with a landscape architectural and design firm in Charlottesville Virginia, where he continued his professional development working on a wide range of projects for both the public and private sector. After returning to West Virginia in 1991, Mr. Gilmore has been in private practice specializing in site design, land planning, streetscapes and parks and recreational design for numerous public and private clients in West Virginia and Eastern United States.

Mr. Gilmore currently serves as the Corporate Practice Area Leader for Landscape Architecture services for GAI Consultants. In this role, he coordinates projects and marketing activities for all of GAI's offices throughout the region. He maintains professional registrations in West Virginia, Pennsylvania, Ohio, Indiana, Maryland, North Carolina, Virginia and Kentucky. In this capacity, Mr. Gilmore brings 22 years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector. Mr. Gilmore's experience includes but is not limited to public outreach and programming, construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (riverfronts, resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing.

Mr. Gilmore was recently honored by being 1 of 16 people chosen to be included in the inaugural class of GAI's "Leader's to Watch" program. He has also completed the companies Harvard Leadership Training program as well as GAI Universities Advanced Project Manager Training. Mr. Gilmore is also very active in the Landscape Architecture community, having served as the past president of the West Virginia Chapter of the American Society of Landscape Architects (WVASLA) and the State Licensing Board from 2000-2003. Mr. Gilmore also remains active with the WVU School of Landscape Architecture and has won multiple awards from the West Virginia Chapter of the American Society of Landscape Architects for his work.



James Hemme, PE, LRS

Senior Engineering Manager

Mr. Hemme specializes in site engineering, planning, permitting and stormwater management, with emphasis on parks and recreation areas and infrastructure. He brings a multi-disciplinary background to projects that enable him to see the "big picture" of what will be needed to take a project from start to finish. Mr. Hemme is competent in general civil engineering, geotechnical engineering, environmental disciplines including NEPA compliance, and transportation services. He has worked extensively with private developers, architects, municipalities and government agencies.

Mr. Hemme volunteered his time and knowledge to assist with preparation of the Greater Charleston Greenway Initiative by the West Virginia Land Trust Company in Charleston, West Virginia. Mr. Hemme is a current volunteer with the Riverside South Committee promoting riverfront improvements along the south side of the Kanawha River.

Relevant recent experience includes: engineering manager and engineer of record for the Charleston Riverfront Improvements; site engineer for the National Youth Center for Science Education master plan development, a proposed 110 acre sustainable education development endeavor on the banks of the Blackwater River; and project manager for the award winning Kanawha Trestle Rail Trail Master Plan.



Mark D. Shawl, RLA, LEED AP

Lead Landscape Architect

Mr. Shawl has 16 years of experience on a diverse range of projects encompassing all aspects of landscape architectural design in both the public and private sector. Experience includes, but is not limited to: project management, construction document and technical specification preparation, site analysis, schematic design, construction administration, master & land-use planning (parks, recreational, residential, institutional, commercial), streetscape and municipality improvements, landscape and hardscape design, graphic presentation drawing. He is also knowledgeable with low-impact development with respect to stormwater and site construction.



Joseph A. Prine, PE

Senior Engineer

Mr. Prine has a wide variety of experience in environmental engineering, civil engineering, site development, streetscape, and planning projects while at GAI and through previous employments. He has worked with private developers, architects, municipalities and governmental agencies. He has substantial experience in site engineering, and storm water management. He has worked on various construction project sites including landfills, abandoned mines, and industrial and commercial facilities. Some of his environmental engineering projects include; Phase 1 reports, environmental monitoring, permitting, and design. Some of his civil engineering/site design projects include; design of storm water management systems, earth work estimating, water and sewer line extensions, design of both large and small sites ranging in size 1 to 40 plus acres, assisting in the preparation of design/construction plans, reports, and



cost estimates for projects, and highway/roadway design. He has also contributed to planning and design in several community improvement and streetscape projects.



Shannon C. Shank
Senior Environmental Specialist

Mr. Shank has a wide variety of experience in GIS analysis and mapping, environmental permitting, site development, streetscape, and planning projects while at GAI and through previous employments. He has worked with architects, municipalities and governmental agencies. He has worked on various construction project sites including abandoned mines. Some of his site design projects include; digital terrain, cross-sections, vertical profiles, site detailing, earthwork estimating, the preparation of design/construction plans, reports, and cost estimates for projects. He has also contributed to planning and design in community improvement master plans and streetscape projects.



Ryan A. Seacrist
Land Development Specialist

Mr. Seacrist specializes in a broad range of skills within the practice of landscape architectural design, from landscape design to land development. His experience includes, but is not limited to: hardscape design, planting design, landscape master planning, material and cost estimate, graphic presentation production, construction oversight, project manual preparation, environmental restoration and environmental assessment.



Preliminary Schedule *(based on starting 11.01.11)*

Task 1:	Pre-planning meeting / Initial Site Visit:	11.01.11 – 11.10.11
Task 2:	Programming:	11.10.11 – 11.20.11
Task 3:	Data Collection and Evaluation:	11.20.11 – 11.31.11
Task 4:	Site Analysis:	12.01.11 – 12.30.11
Task 5:	Design Package:	12.16.11 – 12.30.11
Task 6:	Construction Package:	01.01.12 – 01.31.12
Task 7:	Final Cost Opinion Preparation:	01.01.12 – 01.31.12
Task 8:	Permitting and Environmental Review:	01.01.12 – 01.31.12
Task 9:	Construction Administration:	02.01.12 – close of project
Task 10:	Construction Monitoring:	02.01.12 – close of project



Resumes

David Gilmore, RLA, CLARB

Land Development Services Manager

Education

BSLA, College of Agriculture & Forestry, 1988 West Virginia University

Professional Affiliations

American Society of Landscape Architects, ASLA
WV Chapter of American Society of Landscape Architects
Council of Landscape Architectural Review Board, CLARB

Professional Development

WVASLA State Licensing Board Member, 2003-2006
Past President, WVASLA
Executive Committee Member, WVASLA
Chairman, WVASLA Licensing and Sunset Review Committee
Judge, Senior Design Awards, West Virginia University

Registrations

American Society of Landscape Architects
Council of Landscape Architectural Registration Board Certified
West Virginia Professional Landscape Architect No. 247
Indiana Professional Landscape Architect No. LA 20700137
Pennsylvania Professional Landscape Architect No. LA 002737
Ohio Professional Landscape Architect No. LA 0801200
Kentucky Professional Landscape Architect No. LA 768

Previous Employment

2003 to 2006 Triad Engineering, Inc. – Senior Landscape Architect
2000 to 2003 Environmental Design Group, Inc. – Senior Landscape Architect/Associate
1993 to 2000 LANDesign Associates – President
1988 to 1993 Valley Gardens, Inc. – Land Planner / Design Department Manager
1987 to 1988 Gifford, Nielson & Riesburg – Land Planner (internship)

Awards

- Merit Award (WVASLA): 'Hyper' Employee Plaza, Main Entrance Improvements
Client: Dupont Company
- Merit Award (WVASLA): Florida Street Revitalization Master Plan
Client: West Side Neighborhood Association

Professional Experience

Mr. Gilmore joined GAI Consultants in 2005 to manage the firm's land development and landscape architectural services. The central focus of his practice is on the continued development of the firm's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all of GAI's offices and clients. He will serve as the overall project manager for the project overseeing scheduling, personnel, design and client communication.

Prior to joining GAI Consultants, Mr. Gilmore worked for a multi-disciplinary A&E firm in Charleston, South Carolina, providing architectural, engineering, landscape architectural design services. While working in South Carolina, Mr. Gilmore was involved with campus master designs for many colleges and universities, large downtown streetscapes and subdivision layout and design. Mr. Gilmore later worked with a landscape architectural and design firm in Charlottesville Virginia, where he continued his

professional development working on a wide range of projects for both the public and private sector. After returning to West Virginia in 1991, Mr. Gilmore has specialized in site design, land planning, streetscapes and parks and recreational design for numerous public and private clients in West Virginia and Eastern United States.

Mr. Gilmore currently serves as Land Development Services Manager and Landscape Architectural Services Manager for the Charleston branch of GAI Consultants. In this capacity, Mr. Gilmore brings twenty two years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector. Mr. Gilmore's experience includes but is not limited to construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing.

Mr. Gilmore is also very active in the Landscape Architecture community, having served as the past president of the West Virginia Chapter of the American Society of Landscape Architects (WVASLA) and the State Licensing Board from 2000-2003. Mr. Gilmore also remains active with the WVU School of Landscape Architecture and has won multiple awards from the West Virginia Chapter of the American Society of Landscape Architects for his work.

Streetscape / Urban Revitalization:

- Charleston Riverfront Park, Charleston, WV
- Kanawha Boulevard Streetscape, Charleston, WV
- Court Street Overlook, Charleston, WV
- Pennsylvania Street, Carmel, IN
- St. Albans Master Plan, St. Albans, WV.
- St Albans Phase I, St. Albans, WV.
- St. Albans Phase II, St. Albans, WV.
- Pennsylvania Avenue Gateway, Charleston, WV
- Florida Street Revitalization Master Plan, Charleston, WV.
- Williamson Master Plan, Williamson, WV.
- MacCorkle Avenue Greenspace Improvements, Kanawha City, WV.
- Kanawha Valley Rapid Transit Shelter/Plaza Design, Charleston, WV

Parks & Recreation:

- Charleston Riverfront Park, Charleston, WV.
- Court Street Overlook, Charleston, WV.
- Shoenbaum Performance Stage, Charleston, WV.
- Stonewall Jackson State Park Master plan, Roanoke, WV.
- Berry Hills Country Club Master Plan, Charleston, WV.
- Twin Falls State Park, Twin Falls, WV.
- Dow Heritage Park, Charleston, WV.
- Charleston Area Medical Center General Division Employee Park, Charleston, WV.
- Dupont 'Hyper' Plaza, Belle, WV.
- Ohio to Erie Trail, Multiple Counties, OH.
- Coonskin Park, Charleston, WV.

Hospitals / Institutional / Campus Planning:

- Dow South Charleston Plant, WV.
- Beckley Federal Courthouse Security Upgrades, Beckley, WV.
- Charleston Area Medical Center Memorial Park, WV.
- King's Daughters Medical Center, Ashland, KY.
- WVU Gateway Study, Morgantown, WV.

- Morgan County Courthouse, Berkeley Springs, WV.
- Raleigh County Courthouse, Beckley, WV.
- Town of Fayetteville Cemetery Master Plan, Fayetteville, WV.
- Trinity Lutheran Church Columbarium Master Plan, WV.
- First Presbyterian Church Columbarium Master Plan, WV.
- Elkview Baptist Church, Elkview, WV.
- St. Tomothy Lutheran Church, Charleston, WV.
- St. John's Baptist Church, Spencer, WV.
- Yeager Airport Master Plan, WV
- The Church of Jesus Christ of Latter-Day Saints, Multiple Projects / Multiple States
- Marshall University Dormitory / Alumni Center
- West Virginia University Dormitory, Evansdale Campus, WV.
- West Virginia University Dormitory, Downtown Campus, WV.
- Potomac State Dormitory
- West Virginia State Student Housing, Institute, WV.

Development / Site Planning:

- Cheat Landing Office Park, Morgantown, WV.
- The Villages at Cheat Landing, Morgantown, WV.
- Morgan County Courthouse, Berkeley Springs, WV.
- Raleigh County Courthouse, Beckley, WV.
- The Pines Country Club, Morgantown, WV.
- Stonegate at Cranberry, Cranberry Township, PA
- Bloomingdale Land-use Study, Hurricane, WV.
- Chesapeake Energy Regional Headquarters, Charleston, WV. (LEED Project)
- Chesapeake Energy Field Office, Jane Lew, WV.
- Chesapeake Energy Field Office, Mount Morris, PA.
- Chesapeake Energy Field Office, Honey Branch, KY.
- Ridge Run @ North Camp, Wisp Ski Resort, Deep Creek, MD.
- Cambridge Place Office Park, Bridgeport, WV.
- Stonewall Jackson State Park Masterplan, Roanoke, WV.
- Land-use Study / Development Alternatives, Aspen Corporation, Lewisburg, WV.
- Commerce Park Mixed-use Development Masterplan, Huntington, WV.
- Fort Boreman Mixed-use Development Masterplan, Parkersburg, WV.
- Wilkerson Dental Office, Charleston, WV.
- Ocean Isle Beach Resort Masterplan, Ocean Isle, SC.
- 5/3 Bank, Cross Lanes, WV.
- Banc One, Teays Valley, WV.

Residential Planning & Landscape Design:

- < 500 Projects

James A. Hemme, P.E., L.R.S.

Senior Project Manager

Education

B.S. Civil Engineering 1989, West Virginia University Institute of Technology
Marshall University Graduate College, Environmental Engineering Coursework

Registrations/Certifications

West Virginia Professional Engineer No. 12195
Kentucky Professional Engineer No. 25437
Ohio Professional Engineer No. 72851
Indiana Professional Engineer No. 10809277
Pennsylvania Professional Engineer No. 75494
New York Professional Engineer No. 85794
West Virginia Licensed Remediation Specialist No. 003

Relevant Training/Courses

OSHA 40 hour Hazwoper Training
NICET 1 Geosynthetics Installation Inspection (expired)
Nuclear Density Gage Training, DOT and NRC (expired)
MSHA Safety Training (expired)

Summary

Mr. Hemme specializes in site engineering, including planning, permitting and stormwater management, with emphasis on parks and recreation areas and streetscapes. He brings a multi-disciplinary background to projects and this enables him to see the "big picture" of what will be needed to take a project from start to finish. Mr. Hemme is also competent in geotechnical engineering, environmental disciplines including NEPA compliance, and transportation services. He has worked extensively with private developers, architects, municipalities and government agencies.

Mr. Hemme has worked on landfills, quarries, mines, industrial, and commercial sites and facilities. He has performed numerous Phase 1 Environmental Site Assessments (ESAs) providing solid waste, industrial waste, and Erosion and Sediment (E&S) control permitting. Mr. Hemme designs storm water management systems, site developments ranging from 1 acre to over 60 acres in size, and wetland mitigation areas. He prepares geotechnical reports, flood plain modeling, highway and roadway designs, right-of-way plans, detailed construction plans, and cost estimates for projects ranging from \$10,000 to over \$2 million in construction cost.

Mr. Hemme volunteered his time and knowledge to assist with preparation of the Greater Charleston Greenway Initiative by the West Virginia Land Trust Company in Charleston, West Virginia. He authored the analysis section of the report and peer-reviewed the entire document. Mr. Hemme is a current volunteer with the Riverside South Committee, which is working with the Charleston Land Trust to beautify and possibly promote pedestrian access on the south side of the Kanawha River. He has developed schematic plans and reviewed narratives for inclusion into several progress updates to the Land Trust.

Professional Experience

Civil Engineering and Permitting

- Site Design for over 100 different projects throughout West Virginia, Ohio, Kentucky and Pennsylvania. NEPA compliance for wetlands, streams, cultural resources, and endangered species. Phase 1 Environmental Site Assessments for a wide range of facilities.
- Designed over 50 stormwater management systems including run-on and run-off control utilizing ditches, berms, sumps, sediment ditches, storm sewers, culverts, drop structures, ponds, energy dissipaters, etc.

Work included technical specifications, cross sections, profiles, site grading detail development and hydrologic and hydraulic modeling.

- Prepared over 50 detailed Erosion and Sediment (E&S) Control Plans for various sites throughout West Virginia, including coal mines, quarries, highways, landfills and site developments. Work included technical specifications, re-vegetation plans, temporary control details and sequencing plans.
- Prepared numerous National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit Applications for sites throughout West Virginia and Ohio.
- Prepared a complete set of construction plans and specifications consisting of a detailed grading plan, a storm sewer system consisting of 34 drop inlets and over 3,800 feet of piping, and parking lot layout.
- West Virginia State College. Design of a revised stormwater system around the student union to help alleviate basement flooding issues.
- Town of Buffalo. Phase I storm sewer design and construction administration for over 2,000 ft. of storm sewer with discharge to the Kanawha River, that included permitting work with the Corps of Engineers.
- Analyzed various culvert scenarios consisting of modeling existing culverts and potential new corrugated metal pipe, steel pipe, concrete pipe and concrete box culverts to prevent upstream flooding from fill placement for Marietta Industrial Enterprises, Parkersburg, West Virginia.
- Designed an extensive stormwater management system consisting of several thousand feet of ditch and storm sewers, and two sediment ponds designed to limit inflow to pre-existing conditions for the 2-, 10-, 50-, and 100-year storm events for Hanover County Sanitary Landfill, Virginia.
- Melinda Street Stormwater Improvements. Underground stormwater detention system and storm sewer improvements design for the City of Parkersburg, West Virginia.

Site Development and Planning

- Coldwater Creek Distribution Center in Parkersburg, West Virginia. Wetland mitigation for a 7.5-acre area that required a detailed planting plan, pavement design and an engineers' cost estimate.
- Ft. Boreman Development in Parkersburg, West Virginia. Utility master planning, site preparation, roadway design, permitting, and stormwater management for the proposed 170-acre Fort Boreman mixed-use development near Martown Road interchange off U.S. Route 50 in Parkersburg.
- Chesapeake Energy Regional Headquarters in Charleston, West Virginia (LEED Project). Chesapeake Energy Field Offices in Jane Lew, West Virginia; Mount Morris, Pennsylvania; and Honey Branch, Kentucky.
- The Pines Country Club in Morgantown, West Virginia.
- Dow Chemical South Charleston Plant Entrance, Parking and Pedestrian Improvements in West Virginia.
- Tamarack Phase 2 Expansion in Beckley, West Virginia.
- Morgan County Courthouse Replacement in Berkeley Springs, West Virginia. Greenbrier County Courthouse Annex and Expansion in Lewisburg, West Virginia.
- Marshall University Clinical Outreach and Education Center, Huntington, West Virginia.
- Cheat Landing Office Park in Morgantown, West Virginia. The Villages at Cheat Landing in Morgantown, West Virginia
- Almost Heaven Habitat for Humanity, South Fork Crossing Subdivision, Pendleton County, West Virginia.
- Stonegate at Cranberry Development in Cranberry Township, Pennsylvania.

Parks and Recreation Areas

- April Dawn Sprayground and Park in Huntington, West Virginia. Lead Engineer for the continued development of the park consisting of an in-ground computer controlled fountain covered by suspended concrete pavers, a unique "Teays Valley Monster" concrete dragon over 8'-tall integrated into the design with slide and cool steam nostrils and a special soft surface design. The project won awards from the West Virginia Sections of the American Society of Landscape Architects and the American Consulting Engineers Council.
- Rotary Park Improvements Project in Huntington, West Virginia. Lead Engineer responsible for new parking areas, unique picnic shelter, utilities, and a new entrance that blended with existing facilities.

- Golf Club House and Lodge Site Development at Stonewall Jackson State Park in West Virginia. Project Manager for infrastructure including site design of the 100+-room lodge, parking, sewage lift station, extensive landscaping, and all aspects of construction administration.
- Cedar Creek State Park Camp Ground Expansion, Glenville, West Virginia. Dow Heritage Park in Charleston, West Virginia. Fort Boreman Historic Park in Parkersburg, West Virginia.

Streetscape and Trails

- Kanawha Trestle and Rail Trail Master Plan. Project Manager and Lead Engineer responsible for development. The plan covered the existing CSX trestle crossing the Kanawha River in Charleston and approximately 2 miles of Norfolk and Southern rail corridor through the West Side of Charleston.
- Project Manager or Design Engineer on multiple streetscape projects throughout West Virginia including Phase 1 Florida Street Streetscape, and Washington Street East Phase 2 and Pennsylvania Avenue streetscapes in Charleston, West Virginia.
- North Bend Rail Trail. Prepared construction documents to repair flood damage to almost 50 miles of trail.
- Florida Street Master Plan for the City of Charleston, West Side Neighborhood Association.
- City of Richwood, West Virginia Streetscape Master Plan and Phase 1 Construction.
- City of Charleston East End Design Cheret and "Think Tank" Design Cheret.

Waste Water and Potable Water Design

- National Radio Astronomy Observatory. Designed unique, non-mechanical, award-winning treatment system that uses no electricity and treats the entire campus wastewater load.
- Manufactured Housing Development Waterline Replacement. Designed over 5 miles of water line within an existing 1000+-unit manufactured housing development.
- Huttonsville Correctional Facility. Provided retrofit design for temperature, grease and trash issues.
- Anthony Correctional Center. Designed package water treatment plant for correctional facility.
- St. Mary's Correctional Facility. Retrofit design to address trash and grease issues.
- Pocahontas County Landfill. Modular trickling sand filters with aeration pond and polishing wetland.
- Multiple Landfills. Pre-treatment system design to remove high BOD levels prior to WWTP.
- Storage Tank Design. Multiple bolted or welded steel tanks primarily for leachate storage.

Abandoned Mine Land (AML) Reclamation and Acid Mine Drainage (AMD) Treatment

- Richard Mine Acid Mine Drainage. Treatment Alternatives Report, Monongalia County, West Virginia.
- Richard Mine Flow Monitoring Study. Design, installation, full time flow monitoring and reporting for a 1 year period on drainage from a substantial AMD discharge.
- East Branch Raccoon Creek Acid Mine Drainage (AMD) Treatment Design for the Ohio Department of Natural Resources.
- Vens Run Landslide Reclamation No. 2 Design and Permitting in Harrison County, West Virginia.
- Whites Run Reclamation Permitting in Randolph County, West Virginia.

Project Awards

National Radio Astronomy Observatory (NRAO) Wastewater Treatment Plant Design, West Virginia ACEC Gold Award, Project Manager

Florida Street Streetscape Masterplan, West Virginia ASLA Honor Award, Senior Engineer

Dupont Hyper Plaza Design, West Virginia ASLA Honor Award, Senior Engineer

Kanawha Trestle Rail Trail Masterplan, West Virginia ASLA Merit Award and West Virginia ACEC Silver Award, Project Manager

April Dawn Park Sprayground "Teays Valley Monster," West Virginia ASLA Honor Award and West Virginia ACEC Gold Award, Senior Engineer

Coldwater Creek Distribution Center Site Preparation, West Virginia ACEC Gold Award, Project Manager

CLINTON L. PIFER, ASLA
Principal



C. L. PIFER & ASSOCIATES LLC
LANDSCAPE ARCHITECTURE • LAND PLANNING

TECHNICAL SKILLS

- Project Management
- Inventory & Analysis
- Site Development
- Schematic Design
- Conceptual Design
- Master Planning
- Construction Documentation
- Construction Administration

REGISTRATION

- Landscape Architect – West Virginia

EDUCATION

B.S. in Landscape Architecture (Magna cum laude), 1997
West Virginia University

HONORS AND AWARDS

West Virginia Chapter Area Honor Award

- Blennerhassett Island Historical State Park

West Virginia Chapter ASLA Merit Award

- Clay Center for the Arts and Sciences
- Aleece Gresham Gardens, Bethany College

PROFESSIONAL AFFILIATIONS

American Society of Landscape Architects (ASLA)

West Virginia Chapter of ASLA
Mid-Ohio Valley Homebuilders Association

Wood County Relay for Life

Mr. Pifer has extensive experience on a wide range of projects including park master planning and development, institutional development, commercial/retail development, campus planning, campus housing, residential developments, and athletic facilities. Different phases of the design process include inventory and analysis, site reconnaissance, schematic development, conceptual design, master planning, construction documentation, and construction administration.

Mr. Pifer utilizes a team approach in project development and project management. Communication between the Owner and Design Team facilitates aesthetically pleasing solutions within the project budget. Furthermore, this approach aides the flow of the project during the construction administration phase of project management.

Prior to starting C. L. Pifer & Associates, LLC, he worked for/administered a Landscape Architecture/Land Planning/Civil Engineering (Floyd Browne Group, R.J. Ankrom Associates and Environmental Design Group) firm in Vienna (Parkersburg), West Virginia.

SELECTED PROJECT EXPERIENCE

Fort Boreman Historical Park, Wood County, WV

Complete design services from inception to construction for a Civil War Fort and park design. Amenities included Fort restoration, restroom facility, shelters, overlook, walking trails, parking and infrastructure improvements.

Bridgeport Parks Masterplan, Bridgeport, WV

Project included assessing all park facilities in City Park system and providing a report to serve park needs for the next five to ten years. The report involved pedestrian and vehicular circulation, available amenities, facility improvements, funding issues and public involvement meetings and coordination.

Blennerhassett Island Park Projects, Wood County, WV

This project involved a comprehensive Master Plan for the Blennerhassett Island and currently working with archeologists to develop the Ornamental Blennerhassett Gardens adjacent to the mansion.

Greater Huntington Parks and Recreation District, Huntington, WV

Park projects include design and construction of facilities at Ritter Park, Altizer Park, April Dawn Park, Rotary Park and the park system as a whole.

Additional Park Projects Include:

Buckeye Park, Marietta, OH

BOPARC masterplanning Phase I and II, Morgantown, WV

City Park Pool Assessment, Wirt County, WV

Morgantown Riverfront Park, Morgantown, WV

C. Elwood Penn, IV, P.E.

Engineering Manager

Education

B.S. Civil Engineering 1985, Virginia Polytechnic Institute and State University

Registrations/Certifications

Professional Engineer, WV, VA, MD, AR, NC, OH, KY

Affiliations

National Society of Professional Engineers (NSPE), Member

American Society of Civil Engineers (ASCE), Member

West Virginia Qualification Based Selection (QBS) Council, Member

International Right of Way Association, Member

American Society of Highway Engineers (ASHE), Member

Summary

Mr. Penn specializes in project management and administration in the areas of highways, land development, and utilities. He is experienced in developing environmental impact statements and assessments in accordance with National Environmental Policy Act (NEPA) regulations. Mr. Penn has been responsible for environmental assessments, site investigations, location studies, and preliminary and final designs for numerous transportation, infrastructure and land development projects in Virginia and West Virginia.

Mr. Penn has been the responsible Engineer for the review of over 4,000 Spill Prevention, Control and Countermeasure (SPCC) plans for gas well and tank sites in West Virginia, Virginia, and Kentucky for Equitable Gas. He has also provided design services for numerous landfills in Virginia.

Professional Experience

Highway

- U.S. Route 60, Shrewsbury to Cedar Grove, Kanawha County, West Virginia. Project Manager for the preparation of an Environmental Assessment and Design Report, for 3.2 miles of U.S. Route 60 in Kanawha County, West Virginia. The project consisted of studying alternative alignments for upgrade of existing two-lane roadway to four lanes and design speed to a minimum 60 m.p.h. The environmental analysis for the project consisted of the management, coordination, data collection, and technical studies necessary to conform the applicable sections of the Federal Highway Administration Guideline (23 CFR 771) and FHWA Technical Advisory T-6640.8A; FHWA Guidelines on noise (23 CFR 772) and air quality (23 CFR 770); Section 106 of the National Historic Preservation Act; Section 404 of the Clean Water Act; and the policies and procedures of the State of West Virginia, and the Department of Transportation, Division of Highways. The design report studied three alternative alignments. A high cut, railroad, the Kanawha River, and numerous commercial and residential structures close to the existing alignment bound the proposed corridor. The scope of services provided included coordination with local Economic Development organizations, public meetings, drainage design, and access studies to properties. The estimated construction cost of the studied alternatives ranged from \$60-\$90 million.
- Rivesville – I-79 Connector, Marion County, West Virginia. Project Manager for the preparation of an Environmental Assessment and Design Report for 3.5 miles of four-lane partially controlled access highway on new alignment. The project included a major bridge over the Monongalia River, improvements to the existing Fort Pricketts I-79 Interchange, and a bike trail. Other features of the project included an interchange with U.S. 119 in the Rivesville vicinity, the need to give design consideration to the possibility of connecting the roadway to a western bypass of Fairmont, West Virginia in the future, and A "Media Tour", in which television and newspaper reporters were given a tour of the proposed alignment. The environmental analysis for the project consisted of the management, coordination, data collection, and technical studies necessary to conform the applicable sections of the Federal Highway Administration Guideline (23 CFR 771) and FHWA

Technical Advisory T-6640.8A; FHWA Guidelines on noise (23 CFR 772) and air quality (23 CFR 770); Section 106 of the National Historic Preservation Act; Section 404 of the Clean Water Act; and the policies and procedures of the State of West Virginia, and the Department of Transportation (WVDOT), Division of Highways. The Environmental Assessment also included a Phase II Cultural Resource study and a Primary Roosting Tree Study for the Indiana Bat. This project was approximately 90% completed when WVDOT put it on hold.

- Monongahela River Bridge and Approaches, Marion County, West Virginia. Project Manager for the preparation of construction plans and right of way plans for 1.1 miles of four-lane partially controlled access highway on new alignment. The projects included a major river crossing of the Monongahela River and a modified cloverleaf interchange with U.S. Route 19. This project was approximately 60% completed when WVDOT put it on hold.
- Route 219, Monroe and Greenbrier Counties, West Virginia. Project Engineer for the preparation of a Design Report for the upgrade of 45 miles of a two-lane rural roadway from Lewisburg, West Virginia to Peterstown, West Virginia. Responsibilities included development of alternative alignments including improvements to existing alignment (included vertical and horizontal alignment improvements as well as pavement widening), relocations and bypasses around towns and communities, and for the geometric layout of over 135 miles of alternatives alignments using In-Roads software. Also participated in preparation of engineering and environmental inventories, a purpose and needs document, and license plate surveys and traffic forecasts for Lewisburg, Fairlea, Ronceverte, Peterstown and Rich Creek.
- Charles Town Bypass, Jefferson County, West Virginia. Staff Engineer for 7 miles of limited access roadway. Responsibilities included geometric design, interchange design, right-of-way plans, and estimates. Contract called for the construction of two lanes with design made for future widening to four lanes.
- Corridor G, Boone County, West Virginia. Staff Engineer for 2 miles of 4-lane roadway. Responsibilities included geometric design, right-of-way plans, and estimates.
- Loudenville - Cameron E. B. Route 25, Marshall County, West Virginia. Staff Engineer for 0.5 miles of 2-lane roadway. Responsible for complete civil design including geometric calculations, intersection layout, right-of-way plans, maintenance of traffic plans, and estimates.
- Variform Access Road, Berkeley County, West Virginia. Staff Engineer for access road to manufacturing facility. Responsible for complete civil design including geometric calculations, railroad crossings, and estimates.
- East Hardy High School Access Road, Hardy County, West Virginia. Staff Engineer for roadway relocation necessitated by building of new high school responsible for geometric design.
- Route I-64, Raleigh County, West Virginia. Staff Engineer for new interstate project. Responsibilities included joint layout.
- Route I-64, I-70, I-77, numerous counties in West Virginia. Staff Engineer for the design of crack and seat with overlay interstate rehabilitation plans. Responsible for site evaluation and complete contract plans.
- Flood Relief Work, numerous counties in West Virginia. Staff Engineer for the design for rehabilitation projects after flood in winter 1985. Responsible for site evaluation and complete contract plans.

Utilities

- Rivanna Water Study, Albemarle County, Virginia. Project Engineer for a location study for 7 miles of 30-24 inch water main. Three alternatives were evaluated. All alternatives were evaluated on the basis of cost, right-of-way required, impact to traffic during construction, and impact to existing utilities and wetlands. The pipeline had to meet requirements of five separate agencies. These five agencies were The Rivanna Water and Sewer Authority, who was building the pipeline; Albemarle County, who was to be served by the pipeline; The City of Charlottesville, who governed two parks and several streets that were to be impacted; The University of Virginia, for possible easements across their property; and The Virginia Department of Transportation, for coordination with future roadway projects, required easements, and possible roadway impacts.
- Chesterfield Water Study, Chesterfield County, Virginia. Project Engineer for a location study for 10 miles of 36-16 inch water main. Five alternatives were evaluated for 7 miles of the pipeline. All alternatives were evaluated on the basis of cost, right-of-way required, impact to traffic during construction and impact to existing utilities and wetlands. The pipeline had to meet requirements of Chesterfield County and the Virginia Department of Transportation.

- Hopkins Road Water, Chesterfield County, Virginia. Project Engineer for the design of 3 miles of 24-16 inch water main. Responsible for complete civil design including horizontal and vertical alignment, easement plats, details, and specifications. Also was responsible for preparing monthly progress reports.
- Prince George Water Study, Prince George County, Virginia. Staff Engineer for the study of necessary water improvements. Responsibilities included projecting population growth and water demands.

Land Development

- Sinclair Broadcast Tower, Putnam County, West Virginia. Project Manager for the site investigation and layout plans for the construction of an approximately 1000' television broadcast tower for WCHS-TV. Responsibilities included managing surveying, geotechnical, and site development efforts, coordination with tower designer, and investigation of potential conflicts with existing utilities. Investigations of the preliminary site chosen by client determined that it would be too costly to provide the necessary access therefore the tower was built at an existing tower site.
- Oak Lake Business Center, Chesterfield County, Virginia. Project Engineer for the design of a 200-acre business development. Responsibilities included design of 1 mile of 4-lane access road, drainage design, and storm water management including pond design. Also responsible for correspondence with Chesterfield County and Virginia Department of Transportation officials.
- Wella Manufacturing Facility, Henrico County, Virginia. Project Engineer for the design of manufacturing facility. Responsible for complete site plans which included a parking lot, drainage structures, and storm water management pond.
- Staunton Knights Inn, Augusta County, Virginia. Project Engineer for design of motel site. Responsible for complete design of site plans which included an access roadway, parking lot, drainage structures, storm water management pond, utilities, and erosion and sediment control devices.
- Lexington Arbogate Inn, Rockbridge County, Virginia. Project Engineer for design of motel site. Responsible for complete design of site plans which included a parking lot, drainage structures, utilities, and erosion and sediment control devices.
- Greystone Apartments, Richmond, Virginia. Project Engineer for the design of apartment development. Responsible for revising plans to comply with H.U.D. regulations. Responsible for revising grading plans, drainage design, and erosion and sediment control devices.
- Hunters Green Subdivision, Chesterfield County, Virginia. Project Engineer for the design of residential subdivision. Responsible for roadway design, drainage design, and erosion and sediment control plans.
- Timbercrest Subdivision, Henrico County, Virginia. Project Engineer for the design of residential subdivision. Responsible for roadway design, drainage design, and erosion and sediment control plans.
- Foxfield Town Houses, Henrico County, Virginia. Project Engineer for the design of residential town house development. Responsible for complete design of site plans which included a roadway, parking lot, drainage structures, and erosion and sediment control devices.
- Waldon Pond, Lynchburg, Virginia. Project Engineer for the design of an apartment development. Responsible for site plans which included a parking lot, drainage structures, utilities, and erosion and sediment control devices.
- E.R. Carpenter, Richmond, Virginia. Project Engineer for the design of an expansion to existing facilities. Responsible for design of site plans which included a roadway, parking lot, drainage structures, and erosion and sediment control devices.
- Beaufont Oaks Apartments, Chesterfield County, Virginia. Staff Engineer for study to determine need and cost for additional storm water management facilities if existing apartment development were to expand.
- Monumental Floral, Henrico County, Virginia. Staff Engineer for design of drainage improvement project was responsible for drainage calculations.
- Millboro, Bath County, Virginia. Staff Engineer for flood plain study for development project. Responsible for determining flood plain after proposed development occurred.
- Hopewell Plaza, Hopewell, Virginia. Project Engineer for preparing a feasibility study and design of park area. Feasibility study responsibilities included determining impact of development on existing utilities. Responsible for design of utility relocation plans.

Mark D. Young, P.E.

Transportation Services Manager

Education

B.S. Civil Engineering 1998, West Virginia University Institute of Technology

Registrations/Certifications

Professional Engineer, West Virginia, Kentucky, Indiana, Ohio, Pennsylvania

Relevant Training/Courses

Advanced Project Management Training

National Environmental Protection Act (NEPA) Training

National Highway Institute (NHI) Course No. 130055, Safety Inspection of In-Service Bridges

ASFE Fundamentals of Professional Practice

Right of Way Training

Hydraulics I and II: Hydraulics and Hydrology, Hydraulics III: Computer Applications

Advanced Inroads

Right of Way Plans: Courthouse to Statehouse

Affiliations

American Council of Engineering Companies (ACEC) West Virginia, Transportation Committee Director

American Society of Civil Engineers (ASCE), West Virginia Younger Members Forum, Vice President

American Society of Highway Engineers

Transportation and Development Institute

Society of American Military Engineers

Mountain Mission Incorporated (Non-Profit), Board Member

Summary

Mr. Young specializes in preparing preliminary and final contract plans and documents, including right-of-way plans, horizontal and vertical geometry, traffic control, permitting, drainage, erosion control, and specifications and bid documents for highways, bridges, abandoned mine lands, and site development.

Professional Experience

Transportation

- Eramet Bridge Rehabilitation, Manager for project development, temporary traffic control and construction contract documents for Eramet Marietta, Marietta, Ohio.
- King Coal Highway, Lead Engineer/Engineering Manager for highway layout and design, drainage, resource coordination. Joint Public/Private endeavor for development of Area. Mingo County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- Lincoln County Road Relocation, Project Manager for development of roadway relocation plans, right of way exchange plans, and West Virginia Department of Transportation, Division of Highways permit for construction, Columbia Natural Resources, Lincoln County, West Virginia.
- Lincoln County Road Widening, Project Manager for obtaining the appropriate permits from the West Virginia Department of Transportation, Division of Highways to allow road widening of an existing roadway for the purpose of delivering equipment for a compressor station, Columbia Natural Resources, Lincoln County, West Virginia.
- Pennsylvania Street, Lead Engineer, Task Manager for urban multilane roundabout design for two intersections of an urban roadway upgrade project, City of Carmel, Indiana.

- Willowood Bridge Replacement, Lead Engineer for highway layout and design, right-of-way layout and descriptions, drainage, resource coordination, and permits. Summers County, West Virginia for the West Virginia Department of Transportation, Division of Highways
- Romney Bridge Replacement, Lead Engineer for highway layout and design, right-of-way layout and descriptions, drainage, resource coordination, and permits. Hampshire County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- Bellepoint Bridge Replacement, Senior Engineer for roadway design, utility coordination, plan preparation. Summers County, West Virginia for the West Virginia Department of Transportation, Division of Highways
- Veteran's Memorial Bridge at Bellepointe, Senior Engineer for Roadway design, plan preparation and presentation. Summers County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- Martinsburg Bypass/Raleigh Street Connector Design Study, Lead Engineer, alignment layout study, estimate and report preparation, Berkeley County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- West Virginia Route 9, Project Engineer, highway layout and design, R/W layout and descriptions, quantities and cost estimates, drainage, resource coordination, and NPDES application. Berkeley County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- T.A. Shuman Bridge, West Virginia Route 7, Engineer for highway layout and design, bridge design, R/W layout, quantities, cost estimates, drainage, and resource coordination. Wetzel County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- US 35 EIS Wetland and stream delineation for US 35. Public meetings participant for the West Virginia Department of Transportation, Division of Highways.
- Nimmo Parkway, Drainage design for 1.5 miles of urban four-lane roadway for the town of Chesapeake, Chesapeake, Virginia.
- Checked and revised right-of-way plans, cemetery verification for West Virginia Department of Transportation, Division of Highways.

Inspection, Bridge / Structural

- Silver Memorial Bridge Inspection, Lead Inspector and Inspection team member for six-year bridge inspection program. Mason County, West Virginia for West Virginia Department of Transportation, Division of Highways.
- Williamstown-Marietta Bridge Inspection, Lead Inspector and Inspection team member for six-year bridge inspection program. Wood County, West Virginia for West Virginia Department of Transportation, Division of Highways.
- Brookfield Power – Hawks Nest Surge Basin, inspected surge basin for settling, Fayette County, West Virginia
- Eramet Bridge, visual and in-depth inspection of Eramet Railroad/Vehicular Bridge crossing four-lane divided Ohio Route 7 for Eramet, Marietta, Ohio.
- Kopperston Coal Conveyor, inspected coal conveyor system over public roads, Boone and Lincoln Counties, West Virginia for Norfolk Southern Corporation.

Site Development

- Hampshire County Courthouse, storm water layout and design for annex renovation for Silling Associates, Hampshire County, West Virginia.
- Marion County Visitors Center, site development layout review and revisions including contract documents, Marion County, West Virginia for the West Virginia Department of Transportation, Division of Highways.
- Mountain Mission Incorporated, site layout and storm water management, Charleston, West Virginia.
- Charleston Mountain Mission Church, developed two parking lot designs and provided storm water management control, Charleston, West Virginia.
- Eastover Medical Park, Site development engineering including layout, grading and drainage, erosion and sediment control, and utilities, Charlotte, North Carolina.
- New South East Elementary School. Site development engineering including layout, grading and drainage, erosion and sediment control, stormwater ponding, and utilities, Matthews, North Carolina.

- Celebrate Virginia, Drainage design for 3.5 mile of rural four-lane highway for commercial and Industrial Development, Fredericksburg, Virginia.
- Sam's Service Center, site development engineering, layout and design, Vienna, West Virginia.
- Bridgeway Technology Center, site layout, grading and drainage, erosion and sediment control, sedimentation pond, utility coordination, City approval and permitting, Suffolk, Virginia.
- Wal-Mart Supercenter, stormwater management plan including watershed delineation, preliminary stormwater design, Best Management Practice (BMP) detention pond, and quantity and quality design guides. Site design including lot layout, grading and drainage, and utility layout and coordination, Tabb, Virginia.
- Volvo Business Park, task manager for engineering, erosion and sediment control, grading and drainage, and site layouts, Chesapeake, Virginia.

Abandoned Mine Lands (AML)

- Route 60 Drainage, reclamation and control of outflow from abandoned mines including upgrade of storm system to carry flow, Fayette County, West Virginia for the West Virginia Department of Environmental Protection, Abandoned Mine Lands.
- Richard Mine Acid Mine Drainage, report and recommendations, quality control/quality assurance for report and development of alternatives for Monongalia Conservation District and Natural Resources Conservation Service, Monongalia County, West Virginia.
- Heizer Creek, quality control/quality assurance for construction documents and permit applications for work within West Virginia Division of Highways right-of-way for the West Virginia Department of Environmental Protection, Abandoned Mine Lands.
- Wolfpen, quality control/quality assurance for construction documents for the West Virginia Department of Environmental Protection, Abandoned Mine Lands.
- Allen Creek – Slab Fork, limited coal evaluation for West Virginia Division of Highways proposed West Virginia Route 121 project for Trumbull Corporation, Raleigh County, West Virginia.

Industrial / Chemical

- Project Coordinator for small projects for The Dow Chemical Company facilities in West Virginia. The work included job starts and closures, resources coordination, engineering estimates, job tracking, client coordination meetings, planning and forecasting for the chemical plants.

Mark D. Shawl, RLA, LEED® AP

Lead Landscape Architect

Education

B.S. Landscape Architecture 1994, College of Agriculture and Forestry, West Virginia University

Registrations/Certifications

Professional Landscape Architect, West Virginia No. 316, North Carolina No. 1051, South Carolina No. 812
Leadership in Energy and Environmental Design (LEED) 2.0 Accredited Professional, U.S. Green Building Council

Affiliations

American Society of Landscape Architects, ASLA
WV Chapter of American Society of Landscape Architects

Previous Employment

Terradon, Inc., 2005-2006
Woolpert, 2001-2005
W.K. Dickson, 1998-2001
Concord Engineering and Surveying, Inc., 1996-1998
Greenscape, Inc., 1994-1996

Summary

Mr. Shawl specializes in all aspects of landscape architectural design with 14 years experience working on a diverse range of projects in both the public and private sectors. His experience includes, but is not limited to, project management, construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land-use planning (parks, recreational, residential, institutional, commercial), streetscape and municipality improvements, landscape and hardscape designs, and graphic presentation drawings. Mr. Shawl has provided residential planning and landscape design services for over 50 projects.

Professional Experience

Streetscape / Urban Revitalization

- Richland County Gateway Revitalization, Columbia, South Carolina
- Tuckaseegee Road Streetscape, Charlotte, North Carolina
- Troutman Pedestrian Corridor Study, Troutman, North Carolina
- Little Sugar Creek Greenway, Charlotte, North Carolina

Parks & Recreation

- Burke County Regional Park, Burke County, North Carolina
- Manchester Soccer Complex, Rock Hill, South Carolina
- Cane Creek Park Phase 2, Union County, North Carolina
- Jessie Helms Park, Union County, North Carolina
- Triad Park Phase 5 and 7, Guilford County, North Carolina
- Gayle Community Park, Chester County, South Carolina
- U.S. Fish and Wildlife Service – Waccamaw National Wildlife Refuge, Georgetown, S.C.
- Paramount Parks Master Planning, NC, VA, OH, CA

- Paramount Parks Carowinds, Animation Station, Charlotte, North Carolina
- Paramount Parks Carowinds, Stealth Coaster, Charlotte, North Carolina
- Salisbury Community Park Greenway, Salisbury, North Carolina
- Jack D. Hughes Park Master Plan/Phase 1, Pineville, North Carolina

Institutions

Hospitals

- Friendship Baptist Church Phase 2, Charlotte, North Carolina
- Bible Center Church Master Plan and Bible Center Church Phase 1, Charleston, West Virginia
- Trinity Lutheran Church Columbarium Master Plan
- First Presbyterian Church Columbarium Master Plan
- The Church of Jesus Christ of Latter-Day Saints, Multiple Projects

Schools and Universities

- North Carolina Arboretum Baker Exhibit Center, Asheville, North Carolina
- Western Carolina University Tennis and Softball Center, and Western Carolina University Infrastructure Improvements, Cullowhee, North Carolina
- Winston-Salem State University Central Quad, Winston-Salem, North Carolina
- North Carolina Central University Pearson Cafeteria, Durham, North Carolina
- Duke University Central Water Plant, Site Design, Durham, North Carolina
- Fairmont State University Inner Campus Renovations, Fairmont, West Virginia
- Capitol High School Athletic Facilities Improvements, Charleston, West Virginia
- University High School, Morgantown, West Virginia
- Moorefield Intermediate School, Moorefield, West Virginia
- Mountain State University Health Sciences Center, Beckley, West Virginia
- Marshall University Dormitory / Alumni Center
- West Virginia University Dormitory, Evansdale Campus
- West Virginia University Dormitory, Downtown Campus
- Potomac State Dormitory
- West Virginia State Student Housing, Institute, West Virginia

Hospitals

- Tazewell Community Hospital Master Plan, Tazewell, Virginia
- Four Seasons Wellness Center, Tazewell, Virginia
- Cabell County EMS Facility, Huntington, West Virginia

Development / Site Planning

- Yeager Airport Master Plan
- Cheat Landing Office Park and The Villages at Cheat Landing in Morgantown, West Virginia
- The Pines Country Club, Morgantown, West Virginia
- Stonegate at Cranberry, Cranberry Township, Pennsylvania
- Chesapeake Energy Regional Headquarters in Charleston, West Virginia and Field Offices in Jane Lew, West Virginia; Mount Morris, Pennsylvania; and Honey Branch, Kentucky
- Shawnee Point Mixed-Use Residential Master Plan, Lake of Egypt, Illinois
- Whitehall Retail Development and Stonecrest Development, Charlotte, North Carolina

Joseph A. Prine, PE

Senior Engineer

Education

- A.S. Drafting and Design, 2001 West Virginia University Institute of Technology
- A.S. Civil Engineering Technology, 2001 West Virginia University Institute of Technology
- B.S. Engineering Technology w/ Civil Emphasis, 2001 West Virginia University Institute of Technology
- M.S. Various Courses in Engineering Management, Currently Attending Marshall University

Registrations

E.I. # 8334
NICET Certified, Engineering Technology, #103538

Professional Development

OSHA 40 hour Hazwopper Training
OSHA 10 hour Construction Industry Training Program

Previous Employment

2006 to 2007 Shaw Environmental & Infrastructure - Engineer
2001 to 2006 Environmental Design Group (now Floyd Browne Group) – Engineer

Awards

First Coalition Force Design Team - Commander, Tallil Air Base, Iraq

Professional Experience

Mr. Prine has a wide variety of experience in environmental engineering, civil engineering, site development, streetscape, and planning projects while at GAI and through previous employments. He has worked with private developers, architects, municipalities and governmental agencies. He has substantial experience in site engineering, and stormwater management. He has worked on various construction project sites including landfills, abandoned mines, and industrial and commercial facilities. Some of his environmental engineering projects include; Phase 1 reports, environmental monitoring, permitting, and design. Some of his civil engineering/site design projects include; design of stormwater management systems, earth work estimating, water and sewer line extensions, design of both large and small sites ranging in size 1 to 40 plus acres, assisting in the preparation of design/construction plans, reports, and cost estimates for projects, and highway/roadway design. He has also contributed to planning and design in several community improvement and streetscape projects.

Representative Project Experience:

Environmental Engineering

- WVAML – Wolfpen Landslide, Charleston, WV
- WVAML – Heizer Creek Landslide, Poca, WV
- WVDOC - Anthony Correctional Center – Package Water Treatment Plant, Neola, WV
- WVDOC - Huttonsville Correctional Center – Waste Water Treatment Plant, Huttonsville, WV
- Richard Mine AMD Flow Monitoring Study, Morgantown, WV
- American Electric Power – John Amos FGD Landfill Construction Monitoring, Winfield, WV
- WVDOH – Romney Bridge, Romney, WV
- WVDOH – King Coal Highway (US 52), Logan County, WV
- Spill Prevention Control and Containment (SPCC) Plans, CSX Railroad National Contract
- Facility Response Plans (FRP) Plans, CSX Railroad National Contract
- Rockport Terminal Tampa, FL Storm Water Management Redesign, CSX Railroad

- Oil Discharge Contingency Plans for State of Virginia, CSX Railroad National Contract
- Facilities upgrade design for Homeland Security, CSX Railroad National Contract
- Redesign of CSX Railroad Waster Water Treatment Plant, Clifton Forge, VA
- Environmental Emergency Responder to Train Derailment, Handley, WV
- Site Monitoring and Cap Design for Remediation Site, Huntington, WV
- QA/QC for Installation of New Groundwater Monitoring Wells, Scary Creek, WV
- Brownfield Way Ground Water Monitoring Reports, South Charleston, WV
- Nicholas County Landfill- Design and Permitting New Landfill Cells, and General Site Engineering
- Melinda Street Storm Water Improvements, Parkersburg, WV

Land Development / Site Planning

- Chesapeake Energy Field Office, Mansfield, Pennsylvania
- Huttonsville Work Release Camp – Site Design & Permitting, Huttonsville, WV
- Chesapeake Energy Regional Headquarters, Charleston, West Virginia (**LEED Project**)
- Chesapeake Energy Field Office, Mount Morris, Pennsylvania
- Chesapeake Energy Field Office, Honey Branch, Kentucky
- Detailed Site Design Aspen Village, Davis, WV
- Ft. Boreman Development–Master Plan Site Preparation and Roadway Design, Parkersburg, WV
- Golf Club House and Lodge Site Development, Stonewall Jackson State Park, WV
- Family Carpet Plaza-Site Design & Permitting, Parkersburg, WV
- Storm Water Detention System – Melinda St., Parkersburg, WV
- Site Design for Schools Hannan, Wahama, New Haven, and Pt. Pleasant, Mason County, WV
- Design of Storm Water Management System, Western Management, Parkersburg, WV
- Preparation of Detailed Erosion and Sediment Control Plans
- Preparation of NPDES Construction Stormwater Permit Applications
- Sugar Grove Site Design, Habitat for Humanity, WV
- Starlite Industrial Park, OH
- Great Lakes Truckland Site Improvements, Cross Lanes, WV

Streetscape and Trails

- City of Mount Hope Streetscape, WV
- City of Charleston, East End Design Charrette, WV
- Florida Street Master Plan for the City of Charleston, West Side Neighborhood Association, WV
- City of Richwood, West Virginia Streetscape Master Plan and Phase 1 Construction

Ryan A. Seacrist, Associate ASLA

Land Development Specialist

Education

B.S. Landscape Architecture, *cum laude*, College of Agriculture, Natural Resources and Design, Minor in Philosophy, 2010 West Virginia University

Professional Affiliations

American Society of Landscape Architects, WV Chapter

- Secretary and Public Relations Liaison, 2011

Technical Skills and Abilities

Computer Graphics

Adobe Photoshop, InDesign and Illustrator
AutoCAD
ESRI ArcMap
Google SketchUp
ShaderLight
Microsoft Office

Modeling

Digital and physical

Technical Drawing

Grading
Road Alignment

Hand Drawing

Wetland Delineation

36 Hour Richard Chin Army Corps of Engineers Wetland Training Course

Previous Employment

2009-2010 Tim's Landscaping – Landscape Designer

Professional Experience

Mr. Seacrist has a broad range of experience within the practice of landscape architecture, from residential landscape design to various projects within land development. His experience includes, but is not limited to: hardscape design, planting design, commercial and residential landscape design, master planning, transportation, construction documentation, material and cost estimate, graphic presentation production, construction oversight, written proposals, environmental restoration, and environmental assessment.

Institutional / Campus Planning

- Huntington East Middle School, Huntington, WV
- Edgewood Elementary School, Charleston, WV
- West Virginia State University Convocation Center, Institute, WV

Parks and Recreation

- Ritter Dog Park, Huntington, WV

Ryan A. Seacrist

Land Development Specialist

Transportation

- Citilink Intermodal Transportation Center, Ft. Wayne, IN
- Edgewood Elementary School Access Road, Charleston, WV

Streetscape Revitalization

- City of Lewisburg Sidewalk Addition, Greenbrier County, WV

Master Planning

- Greater Fostoria Community Foundation Park, Fostoria, OH

Residential Landscape Design

- Zoracki Residence Hardscape Design, Morgantown, WV
- Mizener Residence Hardscape Design, Morgantown, WV
- Toffle Residence Hardscape Design, Morgantown, WV
- Cyphert Residence Hardscape Design, Morgantown, WV
- Diamond Ridge Entryway Landscape Design, Morgantown, WV
- Greystone Resident Landscape Design: Following an AML remediation, Morgantown, WV
- Burgess Residence Master Plan, Winfield, WV

Environmental

- Blake Fork Stream Restoration Plan, Wetzel County, WV
- Environmental Assessment of Chesapeake Victory Field Pipelines, Wetzel County and Marshall County, WV
- Environmental Assessment of Chesapeake Rock Cave Field Pipelines, Upshur County, WV
- Wetland Delineation, Chief Gas, Lycoming County, PA

Document Preparation

- City of Charleston Stormwater Management Guidance Manual v1.0, Charleston, WV
- National Center for Youth Science Education Project Resource Manual, Davis, WV

Permitting

- Mary Ingles Trailhead Parking Lots, Winfield, WV

Shannon Shank

Environmental Specialist

Education

B.S. Landscape Architecture, College of Agriculture & Forestry, Minor in Geography/Geographical Information Systems (GIS), 2005 West Virginia University

A.S. Architectural Drafting 2001, West Virginia State College

Registrations/Certifications

American Council of Exercise Personal Trainer, 2005

Relevant Training/Courses

ArcGIS 9 Certified

ArcGIS 9 Spatial Analyst Certified

ArcGIS Schematics Certified

Summary

Mr. Shank has a wide variety of experience in GIS analysis and mapping, environmental permitting, site development, streetscape, and planning projects while at GAI and through previous employments. He has worked with architects, municipalities and governmental agencies. He has worked on various construction project sites including abandoned mines. Some of his site design projects include; digital terrain, cross-sections, vertical profiles, site detailing, earthwork estimating, the preparation of design/construction plans, reports, and cost estimates for projects. He has also contributed to planning and design in community improvement master plans and streetscape projects.

Professional Experience

Water Studies

- Water Feasibility Study, Wallace CR4, 20/3, 6, 5/4, 20/11, 21 Feasibility Study (ID#353) for Shortline Public Service District in Harrison and Wetzel Counties, West Virginia. Work included interviewing local residents; collecting surface and private water supply samples; preparation of drawings representing existing and proposed remedial measures; and assisted in the preparation of the feasibility report. Work was completed on a "fast track" schedule.
- Water Feasibility Study, Wallace Rt. 20 Feasibility Study (ID#354) for Shortline Public Service District in Harrison County, West Virginia. Work included interviewing local residents; collecting surface and private water supply samples; preparation of drawings representing existing and proposed remedial measures; and assisted in the preparation of the feasibility report. Work was completed on a "fast track" schedule.

GIS Analyst

- Analytical processing and creation of GIS data.

Environmental GIS Mapping

- Collaborate with the Environmental Health and Safety department to design various maps.

Gas Pipeline Integrity GIS Mapping

- Collaborated with corrosion engineers to design maps which show the integrity of the pipeline for given areas.

Special GIS Mapping

- Collaborated with diversity of customers within my company of employment to creatively design maps that will be used to solve problems or graphically show areas of interest.

GIS ArcGIS Knowledge Sharing

- Educate people to maximize use of tools and extensions in ArcGIS.

Streetscape / Urban Revitalization

- Charleston Riverfront Park, Kanawha County, West Virginia

Abandon Mine Lands

- Duck Creek (Jenkins) Landslide, Harrison County, West Virginia
- Route 60 Drainage, Fayette County, West Virginia
- Lynch Run Highwall #6, Gilmer County, West Virginia

Residential Planning & Landscape Design

- Moses Residence, Putnam County, West Virginia



PROFESSIONAL EXPERIENCE

Mr. Roberts is a Registered Professional Engineer in Ohio, West Virginia and Indiana and serves as President and CEO of Jobs Henderson & Associates, Inc. (JHA) He oversees all engineering operations of the company. Under his direction, the company emphasizes quality and thoroughness in a timely manner.

Mr. Roberts has over 27 years experience in Civil Engineering. He came to JHA in June 1994, after eight years in the Engineering Division of the City of Newark, the last three serving as City Engineer. Under his direction Newark took giant strides forward in many areas.

EDUCATION

The Ohio State University Bachelor
of Science in Civil Engineering,
1984

PROFESSIONAL REGISTRATION

Ohio Professional Engineer
No. E-52927
Indiana Professional Engineer
No. 19500176
West Virginia Professional
Engineer
No. 12935
West Virginia Professional
Surveyor
No. 1738

PROFESSIONAL AFFILIATIONS

National Society of Professional
Engineers
Ohio Society of Professional
Engineers
American Society of Civil Engineers
American Public Works Association
Chi Epsilon, Civil Engineering
Honorary
American Water Works Association
American Society of Highway
Engineers

Years with JHA: 16
Other: 10

With the City of Newark, Mr. Roberts was responsible for all engineering and capital works in a city with over 200 centerline miles of streets, 79 bridges, and many miles of sanitary sewers, storm sewers, and water lines. He was responsible for an annual capital improvements budget of nearly \$3,000,000.

In both the public and private sectors, Mr. Roberts has proven to be a quality administrator, effective budget handler, creative locator of outside funding sources, and a quality engineer during his professional career.

Since Mr. Roberts took over the Engineering Division of JHA, in 1994, the firm has grown dramatically. An operation that once specialized in private development has expanded that service and added municipal engineering, wetlands/environmental design, transportation, traffic and roadway projects, and many other areas of expertise to become a full service, highly diversified operation. He currently oversees all company operations and provides hands on project oversight ensuring a high level of personal service for all clients.

RELEVANT PROJECT EXPERIENCE

Snug Harbor, Buckeye Lake, Ohio

Project Principal responsible for the quality control for design of all utilities including the design and construction plans for all waterlines as well as site layout plans, drainage, grading plans, stormwater management plans and all other utilities. This project is mixed use with single family homes, condominiums, boat houses, docks and retail areas. Mr. Roberts oversaw the coordination with OEPA, ODNR and local agencies due to environmentally sensitive areas, including wetlands, and the installation of docks.

Mallory Square Condominiums on Buckeye Lake, Hebron, Ohio

Project Principal responsible for the quality control for the design of all utilities including the design and construction plans for all waterlines as well as site layout plans, drainage, grading plans, stormwater management plans and all other utilities. Mr. Roberts oversaw the agency coordination with OEPA, ODNR and local agencies due to environmentally sensitive location and the removal and installation of docks.

Riverside Park Boat Ramp, Zanesville, Ohio

Project principal responsible for quality control for the preparation of plans for a 2 lane boat ramp including launch floats on each side, a separate boarding float, bank stabilization, and a lighted paved parking lot. Mr. Roberts successfully coordinated the project through numerous agencies for review including ODNR. Permits were obtained from the OEPA and ACOE. The project was completed under budget and by the contracted completion date.

JAMES G. ROBERTS, P.E.
PRESIDENT

Darby Creek Trail Prairie Oaks Metro Park, Franklin County, Ohio

Project Principal for extension of the Darby Creek Greenway Trail in Prairie Oaks Metro Park in Madison County. Beginning within the boundaries of the Park on the north side of interstate 70, the trail will extend east over a flood plain of the Big Darby Creek, south under the twin interstate bridges, cross another flood plain and turn west along High Free Pike.

4-H Camp Ohio Wastewater Treatment Wetland System, St. Louisville, Ohio

Mr. Roberts is the Project Principal for this alternative wastewater treatment project. The decision was made to utilize constructed wetlands for the treatment of approximately 14,000 gallons per day of septic tank effluent. The surface flow wetland treatment system provided an economical solution and educational resource for the camp. Jobes Henderson & Associates, Inc performed Surveying and Civil engineering design for Wastewater Treatment Wetland. This project involved intensive coordination with the OEPA and construction administration.



AARON C. VAN OSTRAN, P.E.
DIRECTOR OF ENGINEERING

PROFESSIONAL EXPERIENCE

Aaron C. Van Ostran, P.E. has over 19 years experience in engineering and managing projects and design teams from initial concept through final construction and monitoring. He is an experienced problem identifier and solver able to pinpoint and resolve errors in early stages to avoid time/cost expenditures. An efficient, organized leader with a success in coordinating efforts within internal-external teams Mr. Van Ostran has a veritable track record in the successful completion of civil design for multi-million dollar construction projects through coordinating multiple discipline design team, developing partnerships, and building positive rapport with clients while maintaining costs.

His current responsibilities include the quality assurance and quality control of all engineering projects. He is also responsible for the overall operations of the company ensuring that our training and technical capabilities are exceeding our clients expectations.

His past experience includes managing multiple projects concurrently and several subconsultants. He has been the general manager of a non-profit environmental organization for the past three years managing the design and construction process of wetland and stream restoration projects.

Prior to his experience with the environmental non-profit he served as project manager and department manager of Land Development, Municipal and Transportation engineering projects at Jobes Henderson. During this time he served as the City of Heath Engineer providing plan review and development overview in that capacity.

RELEVANT PROJECT EXPERIENCE

Big Darby Hellbranch Wetland Mitigation Bank, Franklin County, Ohio

Design engineer for approximately 103 acres which were restorative wetlands located in the Darby Creek watershed in western Franklin County. Also served as the construction manager, inspector, and ran equipment constructing 5,625 feet of berms and over 100 acres of wetland and upland habitat restoration.

Pickerington Ponds WRRSP Wetland Mitigation Bank, Franklin County, Ohio

Project Manager and design engineer for this Ohio Wetlands Foundation Mitigation Bank project. Mr. Van Ostran was responsible for the topographic and boundary survey, wetland mitigation bank design and performed a HEC-RAS H&H Analysis for the project.

Pearson Metro Park Wetland Mitigation Bank, Oregon, Ohio

Project Manager for the mitigation site is 306 acres of the 626 acre Pearson Metro Park, which contains remnants of northwest Ohio's historic Great Black Swamp. The mitigation site has restored approximately 150 acres of forested wetlands; 3100 feet of stream; 10 acres of scrub shrub marsh; and over 20 acres restored wet meadow and native prairie. Mr. Van Ostran was responsible for the overall project management, wetland mitigation bank design and performed a HEC-RAS H&H Analysis for the project, construction administration and oversaw the permitting process.

Slate Run Metro Park Wetland Mitigation Bank, Franklin County, Ohio

Project Engineer for design and construction of 158 acres of various wetland and upland habitats, including wet prairie, shallow emergent, deep emergent, open water, cattail marsh, and upland meadow. Responsible for hydrologic/hydraulic calculations, final engineering design of over 26,110 lineal feet of Class IV dams, and project construction. Also provided coordination with ODNR throughout the design process allowed for a design without Class III

EDUCATION

The Ohio State University,
Bachelor of Science in Civil and
Environmental Engineering, 1998

**PROFESSIONAL
REGISTRATION**

State of Ohio Registered
Professional Engineer, 2002
No. E-66706
State of Ohio Certified Surveyor in
Training, 2001

TRAINING

Olentangy River Wetland
Research Park (ORWRP)
Wetland Delineation training
course
ORWRP Ecological Restoration
Training Course
American Society of Civil
Engineers HEC River
Analysis System training

SOFTWARE EXPERIENCE

Autocad Civil 3D
ESRI ArcGIS
ESRI ArcPad
Trimble GPS Post-Processing
Microstation-GEOPAK
Microsoft Project
Adobe Creative Suite Products

PROFESSIONAL AFFILIATIONS

Society of Wetland Scientists
American Society of Civil
Engineers
Natural Areas Association
Professional Associate at The
Wilds

Years with JHA: 16
Other: 3

AARON C. VAN OSTRAN, P.E.

DIRECTOR OF ENGINEERING

structures, eliminating the need for permitting the continual monitoring and inspection for the Metro Parks.

Three Eagles Wetland Mitigation Bank, Sandusky, Ohio

Project Manager for 158 acre Three Eagles Wildlife Area Wetlands Mitigation Bank. Responsible for HEC-RAS H&H analysis of the mitigation bank and its interaction with the adjacent creek. Wetland mitigation bank design included construction plans for 8,650 feet of Class IV dams, principal spillways, and emergency spillways.

Hillview Elementary School Floodplain (HEC-RAS) Study, Newark, Ohio

Perform the detailed study and submit a Letter of Map Revision (LOMR) to FEMA for the Newark City Schools. Using HEC-RAS, JHA created the existing conditions model, prepared public notifications letters informing local residents of the revision, determined the BFE's and submitted the LOMR to FEMA for review.

Sheridan Drive and Hoffman Drive Culverts, Lancaster, Ohio

Project Manager for the replacement of two existing culverts located where Hoffman Drive crosses Lateral B to the Hocking River were drastically undersized and in danger of failing. Existing flows overtopped Hoffman Drive with minor storm events. Mr. Van Ostran obtained the existing effective model and performed the H&H analysis for the proposed culvert design. Construction Cost- \$302,000

State Farm Insurance Spillway Improvements, Newark, Ohio

Project Manager providing analysis and redesign of an existing spillway. The project included analysis and design for spillway improvements to incorporate new parking area and drive improvements for the facility. Mr. Van Ostran provided agency coordination, permitting, study and design, and construction administration.



EDUCATION

Associates Applied Science-
Mechanical Engineering
Technology, 1987
The Ohio State University
Bachelor's in Civil Engineering,
1995

PROFESSIONAL REGISTRATION

Ohio / Professional Engineer / E-
67698/ Civil
Pennsylvania / Professional
Engineer / 074800 / Civil
Kentucky / Professional Engineer /
25565 / Civil
Michigan / Professional Engineer /
6201054768 / Civil
Louisiana / Professional Engineer /
34613 / Civil
Florida / Professional Engineer /
169578 / Civil

SOFTWARE EXPERIENCE

AutoCad
Civil 3D
MicroStation
TR-55
PondPak

Years with JHA: 11
Other: 13

PROFESSIONAL EXPERIENCE

Kenneth B. Stewart, P.E. is an associate and Senior Project manager in the Land Development department for Jobes Henderson & Associates, Inc. He has over 23 years of experience in the Civil Engineering field. Mr. Stewart has varied experience in municipal and private development engineering through his work here and with other firms. He is experienced in waterline design, sanitary and storm sewer design, pump station design as well as the requirements for NPDES Phase II as it is related to storm water.

Mr. Stewart has been involved in several subdivision, condominium and apartment complex designs along with the associated utilities and infrastructures.

RELEVANT PROJECT EXPERIENCE

Snug Harbor, Buckeye Lake, Ohio

Project Manager responsible for the design of all utilities including the design and construction plans for all waterlines as well as site layout plans, drainage, grading plans, stormwater management plans and all other utilities. This project is mixed use with single family homes, condominiums, boat houses, docks and retail areas. This project involved heavy coordination with OEPA, ODNR and local agencies because of the environmentally sensitive areas, including wetlands, and the installation of docks.

Mallory Square Condominiums on Buckeye Lake, Hebron, Ohio

Project Manager responsible for the design of all utilities including the design and construction plans for all waterlines as well as site layout plans, drainage, grading plans, stormwater management plans and all other utilities. This project involved heavy coordination with OEPA, ODNR and local agencies because of the environmentally sensitive location and the removal and installation of docks.

Pearson Metro Park Historical Cabin Site Development, Oregon, Ohio

Project manager responsible for the preparation of a site development plan including access for the relocated historical cabin, utility extensions and drainage plan for park management use in construction.

Diley Road Waterline, Canal Winchester, Ohio and S.R. 256 Waterline- City of Pickerington, Ohio

These projects each consisted of the design of approximately 5,000' of 12" waterline. Design included utility coordination, meter pit, fire hydrant connections, as well as service connections.

Wright Patterson Air Force Base-USACE, Louisville District

Involved in the site development of Civil Engineering Complex 614/615. This project included complete rehabilitation of a 100 vehicle parking lot and the design of a new 100+ vehicle parking lot. Also, new drainage structures were added to both lots while utilities were relocated to accommodate site changes.

Clare Welcome Center - Michigan DOT

Prepared site plans including parking areas, traffic patterns, drainage, utilities and erosion and sediment control plans, details and miscellaneous schedules for this project. All drawings were prepared using AutoCAD. Small scale models were prepared for presentation to the client.



EDUCATION:

The Ohio State University,
Columbus, OH.
B.S. Geomatics Engineering-
March 2002, Specialization in
Land Surveying

**PROFESSIONAL
CERTIFICATION:**

State of Ohio Registered
Professional Surveyor
No. 8283

SOFTWARE EXPERIENCE:

AutoCAD
MicroStation
LDD Survey

Years with JHA: 13
Other: 0

PROFESSIONAL EXPERIENCE

Jeremy Van Ostran P.S. is a licensed Ohio Professional Surveyor and Director of Surveying for Jobes Henderson & Associates, Inc. with 14 years of experience in Land Surveying.

Prior to graduating from Ohio State University, Mr. Van Ostran worked at Jobes Henderson & Associates, Inc. while completing his degree. During this time he served on the field crew and as a field crew chief.

Mr. Van Ostran's combination of strong technical knowledge and many years of practical experience make him an excellent Department Manager. He maintains strong communication with clients while ultimately producing a quality survey. Under Mr. Van Ostran's direction, JHA performs many large scale topographic, boundary and right-of-way surveys per year. He has established a hands-on work environment to ensure that all survey work proceeds in a timely, accurate and efficient manner.

Mr. Van Ostran has thorough knowledge of GPS procedures and calculations and is responsible for managing GPS surveys ranging from aerial photography control to control networks.

Mr. Van Ostran is the main point of contact for all of our surveying work. He has managed the surveying for the following representative projects:

RELEVANT PROJECT EXPERIENCE

Snug Harbor Phase II, Buckeye Lake, Ohio

Mr. Van Ostran was the project Surveyor for this project. He was responsible for the topographic survey and utility location provided for engineering design.

Mallory Square Condominiums on Buckeye Lake, Hebron, Ohio

Mr. Van Ostran prepared all survey documents including the condominium documents and utility easements for this single-family condominium development of Buckeye Lake.

Pearson Metro Park Wetland Mitigation Bank, Oregon, Ohio

Mr. Van Ostran served as Project Surveyor for this project performed for the Toledo Metro Parks which included boundary and topographic survey of 306 acres.

Darby Creek Trail Prairie Oaks Metro Park, Franklin County, Ohio

Project Surveyor for extension of the Darby Creek Greenway Trail in Prairie Oaks Metro Park in Madison County. Total length of the project is approximately 3,200 feet. Big Darby Creek is designated as both State and Nationally Scenic and requires special consideration for construction of the trail. The Boardwalk style structures over the flood plains will be built from the top down to minimize impacts to the ground below. At one location the structure will be widened to accommodate benches for resting and viewing of the creek. Design of the trail will include geometrics and loading for a specific tram vehicle operated by Metro Parks.

Heath Newark and Licking County Port Authority Wetland & Conservation Easements

Responsible for the preparation plat of easements and conservation areas in proposed Industrial Park. The area consisted of approximately 237.84 acres.

JEREMY L. VAN OSTRAN, P.S.
SENIOR VICE PRESIDENT, DIRECTOR OF SURVEYING

Geauga County Wetland Easements

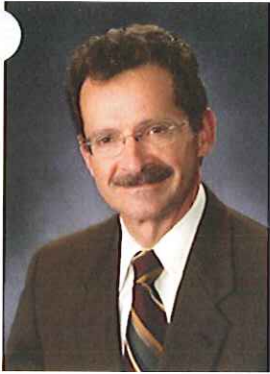
Project Manager for the location of existing WRP easements for approximately 650 acres to transfer to Ohio Wetlands Foundation. Located existing drives for ingress/egress easements. WRP easements consisted of approximately 141 acres.

Office of Information Technology – Ohio MARCS Program – Various Sites in Ohio

Boundary and Topographic survey of 25 radio towers across the State of Ohio. Wrote corrective leases/property splits along with ingress/egress easements for 25 tower sites. Mr. Van Ostran served as the Project Manager and Professional Surveyor for this project. Cost of our work: \$150,000

AMP Ohio ALTA Survey, Meigs County, Ohio

Prepared an ALTA survey of approximately 1500 acres for a proposed power plant. This project involved an extensive control network to ensure quality control. The control network was set up through the use of both GPS and traditional survey practices. Mr. Van Ostran was responsible for project management and quality control. Our project costs were \$168,000.



EDUCATION

The Ohio State University Bachelor
of Science in Civil Engineering,
1978

REGISTRations

State of Ohio Professional
Engineer No. 48187
State of Kentucky Professional
Engineer
No. 14829

SPECIAL TRAINING

'6-Technical Rock Climbing
Training, 1981

ODOT LRFD Bridge Design

General & Loads
Foundations
Concrete

ODOT Training Classes

Project Development Process
Bridge Project Management
Categorical Exclusion, Section
106, Section 4(f)
Ecological and Waterway
Permits

AFFILIATIONS

American Society of Civil
Engineers

Years with JHA: 4
Other: 27

PROFESSIONAL EXPERIENCE

Mr. Mattox has more than 30 years of experience in the areas of Project Management and Transportation Structures. As a Project Manager he has been directly responsible for projects ranging from standard bridge replacements to projects with construction costs in excess of \$40 million dollars, several involving multiple disciplines and as many as 7 Subconsultants. Additionally, Mr. Mattox has successfully executed concurrent Task Order Projects. His task order experience includes General Engineering Services Agreements with ODOT District 2, 5, 6 and 9; and Indefinite Delivery Contracts with US Army Corps of Engineers, Huntington, Pittsburg and Louisville Divisions. Tasks within these projects have included structure inspection, evaluation, analysis and recommendations for improvements, structural design, H&H analysis, roadway design, bridge design, traffic and safety studies, environmental document preparations, project scoping and survey services.

Mr. Mattox has experience managing a staff of up to ten engineers and technicians. In this role he was responsible for coordinating all projects including oversight of schedules and budgets, prioritization of staff and resources, quality control and client communications.

Mr. Mattox's structure experience includes inspection, rehabilitation and design of a wide range of bridge and water resource structures in multiple states. In-depth inspections of major bridges in four states include steel and concrete girder, open spandrel and earth filled concrete arch, steel arch, lift and bascule, through and deck trusses, suspension, and railroad bridges. His experience in bridge rehabilitation includes steel girder, concrete arch, steel truss and timber covered bridges. Many of these rehabilitations were on historic structures requiring special attention to existing structure character, details and construction methods. Mr. Mattox's experience in bridge design includes type studies, standard ODOT design of simple and complex structures, major river crossing trusses and unique and signature structures with major attention to aesthetics. This experience is directly applicable to the tasks required in this contract.

PROJECT EXPERIENCE

West Columbus Local Protection Project IIE, Dodge Park Pump Station, Huntington District, U. S. Army Corps of Engineers

Project Manager for design and plan preparation of the West Columbus Local Protection Project, IIE Dodge Park Pump Station. This pump station was designed to transport water from the dry sides of the line of protect, through high pressure storm lines to a treatment facility. The structure designed was approximately 50 feet by 50 feet and 45 feet deep. A temporary retaining wall was designed to support the adjacent interstate embankment.

West Columbus Local Protection Project IIC, Huntington District, U. S. Army Corps of Engineers

Project Manager for design and plan preparation of the line of protection from I-71, along Frank Road to Whims Ditch. The line of protection included a stop log gate closure structure at Harmon Avenue, controlled fill embankments, I-wall structures and a sluice gate structure at Whims Ditch.

Grundy Local Protection Project, Town of Grundy Virginia, Huntington District, U. S. Army Corps of Engineers

Project Manager for design and plan preparation of the line of protection and modification of Pump Station plans prepared by the Corps of Engineers. The line of protection included a stop log gate closure structure and I-wall along the stream.

Charleroi Locks and Dam Middle Wall Stabilization, Pittsburgh District, U. S. Army Corps of Engineers Project Manager for design and plan preparation for stabilization of the existing lock middle wall during demolition of the existing locks and construction of the new. Services under this project included preparation of a Design Documentation Report that investigated alternatives for supporting the existing middle wall. This investigation studied alternatives for stabilizing the existing concrete monolith walls that are supported on timber piles and experience multiple loading and movement constraints. The stabilization alternatives had to allow for continuing use of existing land chamber. Extensive 2D and 3D analysis was performed on all monoliths under multiple loading conditions at multiple phases of demolition and construction.

Tygart Dam Modifications, Pittsburgh District, U. S. Army Corps of Engineers Project Manager for design and plan preparation for replacement of a sluice gate, addition of catwalks at the crest of the dam and a new bulkhead storage and handling system.

Tygart Dam Safety Assurance Review, Pittsburgh District, U. S. Army Corps of Engineers Project Manager for the quality and safety assurance review of plans prepared by the Corps for increasing the high of the Tygart dam and modification of the appurtenant structures.

Lower Girard Dam Rehabilitation, Pittsburgh District, U. S. Army Corps of Engineers Project Manager for inspection of dam, and preparation plans for rehabilitation and increasing the height of the dam.

Main Street Bridge over the Scioto River, Columbus, Ohio – Franklin County Engineer. Project Director for in-depth inspection and rehabilitation/replacement study of this historic bridge. Inspection included mapping of all deterioration, testing of 116 concrete cores, load rating, and final report. The historic designation required public presentations as part of the rehabilitation/replacement study.

Eagle Viaduct, Cleveland, Ohio

Performed inspection of the Eagle Viaduct, which consists of 65 steel and concrete spans including a vertical, steel through truss, lift span 2,715 ft. long. Led inspection team using rock climbing techniques. Report included load rating analysis and suggested repair and rehabilitation measures with cost estimates.



Relevant Experience

GAI's record of performance is best reflected in our work for repeat clients that comprise approximately 75% of our workload. Our performance on projects mandates that we provide services which consistently meet schedule and budget constraints while providing a high quality end product.

The proposed project team has experience with a number of past municipal projects with respect to urban renewal, roadway enhancement and streetscape experience. In addition to the design of the projects, GAI has also been involved with construction administration as well as construction monitoring. Our experience includes:



- + **Charleston Riverfront Park**, Charleston, West Virginia
- + **Morgantown Riverfront Park**, Morgantown, West Virginia
- + **North Shore Riverfront Park**, Allegheny County, Pennsylvania
- + **PNC Park – River Bulkhead Wall Design**, Pittsburgh, Pennsylvania
- + **PNC Park Baseball Stadium**, Pittsburgh, Pennsylvania
- + **Vilano Beach Streetscape**, Vilano Beach, Florida
- + **Lewisburg Streetscape and ADA Upgrades**, Lewisburg, West Virginia
- + **Uptown Altamonte**, Seminole County, Florida
- + **Hills of Lake Mary**, Lake Mary, Florida
- + **Monongahela River Comprehensive Study**, Marion and Monongalia Counties, West Virginia
- + **David L. Lawrence Convention Center**, Pittsburgh, Pennsylvania



Detailed project descriptions for many of these projects are included at the end of this section. GAI Consultants, Inc.'s experiences with these projects have direct correlation to the services requested by the Town of Barrackville. The projects show the level of professional expertise that is available to GAI's local office to utilize and draw upon as needed.



References

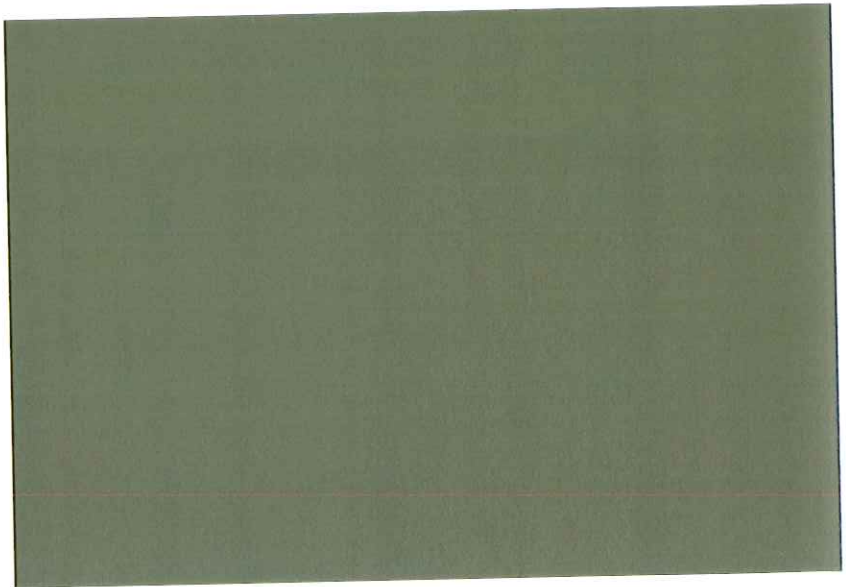
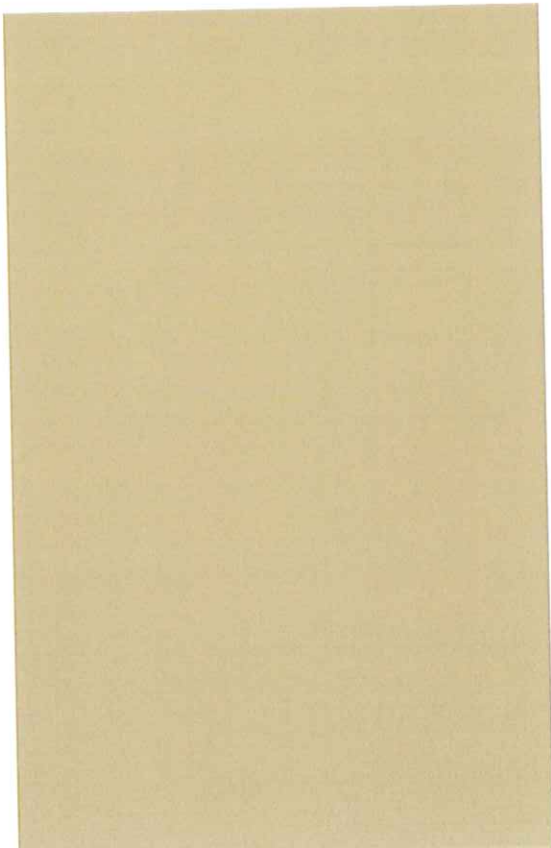
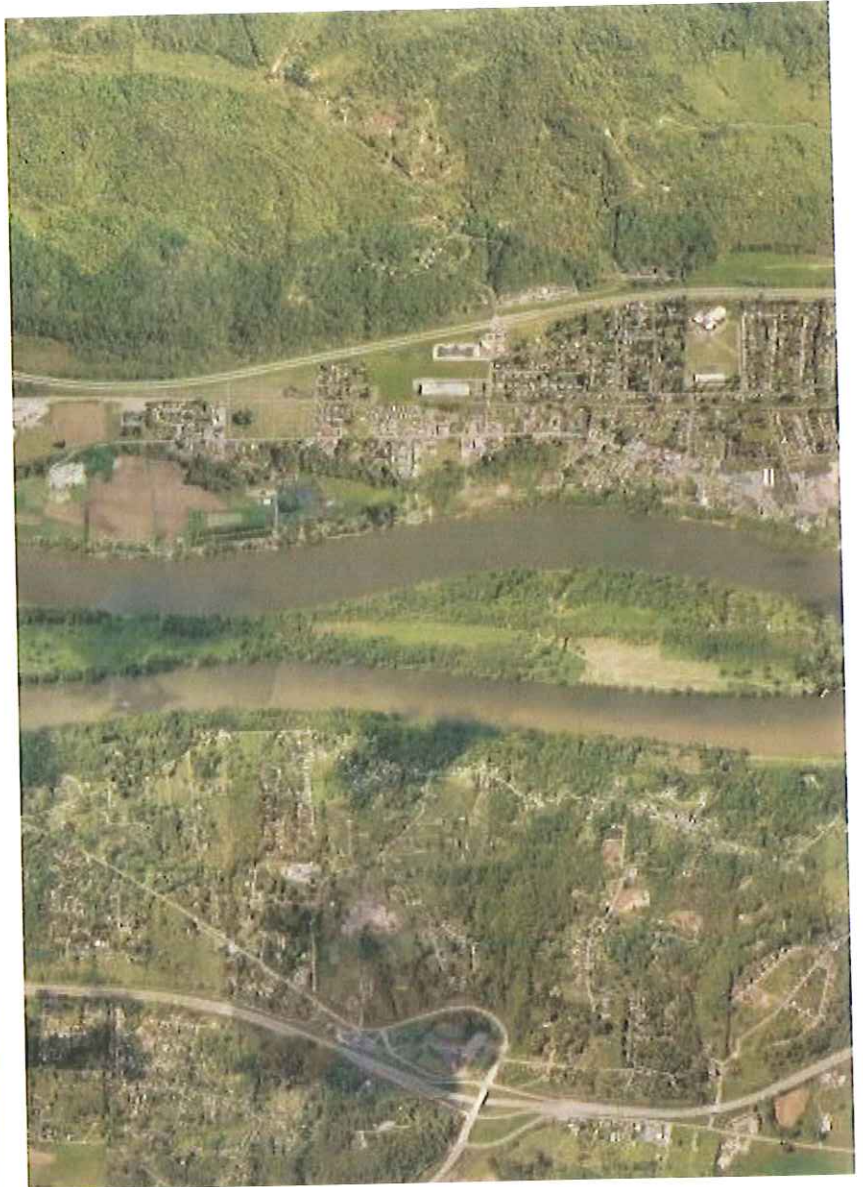
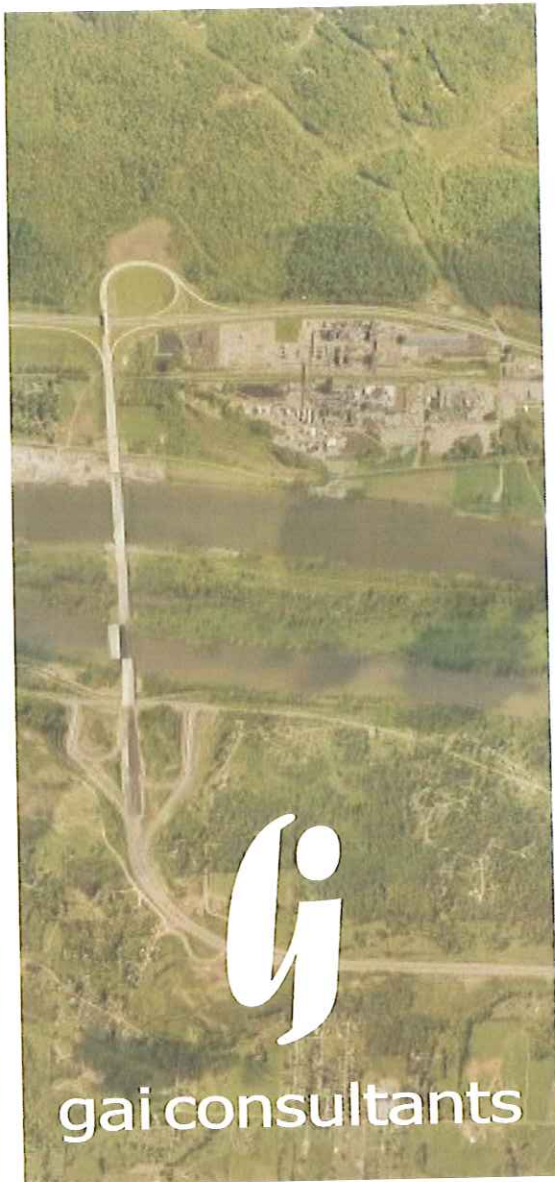
Andrew N. Blackwood, Ed.D, Executive Director
National Youth Science Foundation
P.O. Box 3387
Charleston, West Virginia 25333
304.552.1171

David D. Molgaard, Charleston City Manager
City of Charleston
PO Box 2749
Charleston, West Virginia 25330
304.348.8014

Chris Knox, Charleston City Engineer
City of Charleston
105 McFarland Street
Charleston, West Virginia 25301
304.348.8014

Mary Jean Davis, Charleston City Council
City of Charleston
PO Box 2749
Charleston, West Virginia 25330
304.348.8014

Shawn Casey, Vice President, Land
Triana Energy
500 Virginia Street East
Charleston, West Virginia 25301
304.380.0133



Relevant Projects

Relevant



Project Profiles

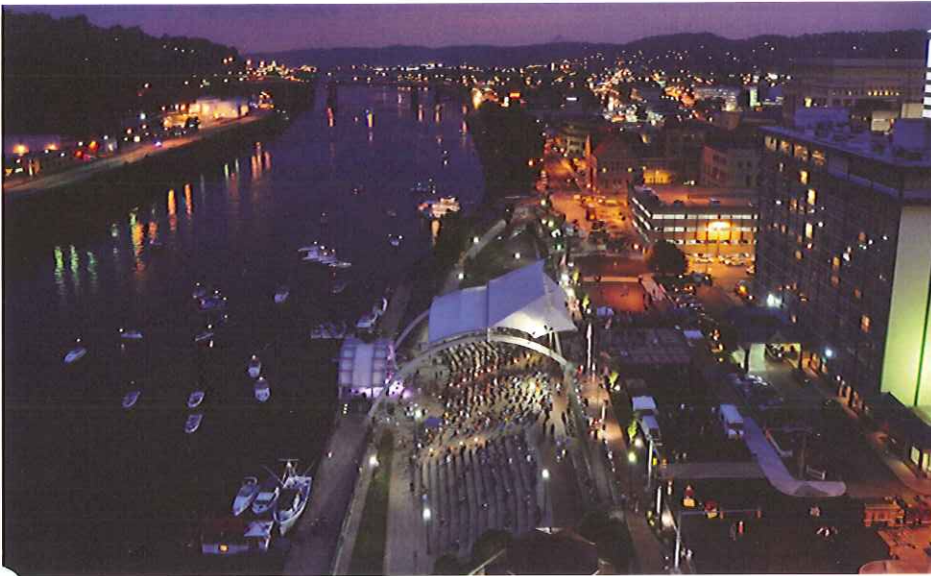
Land Development

Riverfront Park & Streetscape Design



Haddad Riverfront Park

Kanawha County, West Virginia



Brief Project Description

GAI Consultants, Inc. (GAI) was selected to provide master planning, public participation services, design, construction and engineering solutions for the renovation of the Haddad Riverfront Park, which is a popular concert, festival and leisure site in downtown Charleston, West Virginia.

Among the City of Charleston's project requirements were a retractable canopy to provide protection and visual interest, an overlook plaza and pavilion that extends Court Street to the Kanawha River, an extension of the lower wharf area, a new streetscape design along Kanawha Boulevard and an event stage for concerts.

Work Tasks/Services

- Conceptual design and master plans
- Public outreach/information
- Landscape architecture
- Geotechnical engineering
- Structural engineering
- Construction administration

Lasting Benefits

GAI was successful in meeting an aggressive 18 month planning, design, and construction schedule. Change orders during construction amounted to less than .5% of the total cost.

Value Added Innovations

Taking a different approach, GAI presented an initial design encompassing and connecting all four parts of the entire project. The design was highlighted by a grand staircase leading to the proposed amphitheater, which acts to open the park to Kanawha Boulevard, making it an integrated part of downtown Charleston.

GAI Project Manager:
David Gilmore, RLA, CLARB

Project Team:
GAI Consultants, Inc. (Prime)
Silling Associates (Subconsultant)

Client:
The City of Charleston

Client Contact:
David Molgaard, City Manager
304.348.8014

Construction Cost:
\$3,900,000

Completion Date:
Summer 2010

#E080952

Blennerhassett Island Ornamental Gardens



CLIENT:

Blennerhassett Historical Foundation
and WV Department of Natural
Resources

LOCATION:

Parkersburg, West Virginia

The first step in planning the reconstruction of the Ornamental Garden was to conduct an inventory of the project area and research all available information. The information was assembled from existing site information, existing maps of the island, recorded documents and pictures, local knowledge and maps and information derived from archeological investigations and excavations.

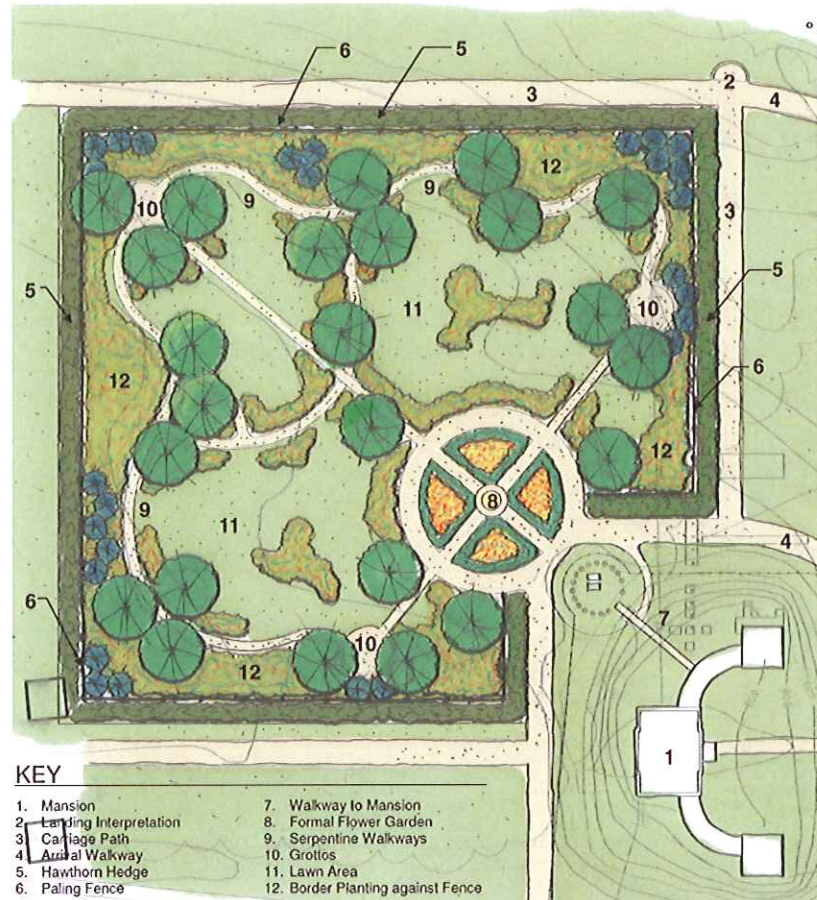
The Ornamental Gardens have been documented to have a surrounding paling fence lined with Hawthorne shrubs, gardens aligned to represent the thirteen colonies, extensive fruit trees, vegetable gardens, ornate gardens, grottos, and much more.

The goal for the project was to assemble all information, coordinate with all agencies (West Virginia State Historic Preservation Office, WVDEP, West Virginia Department of Natural Resources, and the Blennerhassett Historic Foundation), conduct public meeting for input, assemble all information to: protect the land, interpret previous conditions, provide historical interpretation points for learning and teaching areas, and create accessibility for all visitors.

The project has been conducted simultaneously with the site inventory. Dr. Ray Swick was a valuable resource in this endeavor. Written accounts of the Blennerhassett estate have already been researched and recorded. These written accounts, Dr. Swick's input and recorded information from archaeological investigations is providing clues as to the shape and content of the gardens.

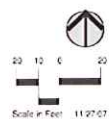
Although this project is still in the master planning process due to continued archeological investigations, the final goal is to produce a master plan that best utilizes the entire site to create the maximum interpretation and learning experience for site visitors. Although the ultimate goal would be a complete site reconstruction, the prevailing goal is to provide enough interpretation while minimizing the impacts to the land. We also needed to consider that the entire site is in the 100 year floodplain.

Once the Master Plan is complete, the construction documentation process shall begin to bring this concept to reality.



Conceptual Design Plan for the Blennerhassett Ornamental Gardens

Blennerhassett Island Historical State Park
Parkersburg, West Virginia
November 27, 2007



Blennerhassett Island Historical State Park



The upper end of Blennerhassett was settled by Harman and Margaret Blennerhassett in 1798. They erected a mansion, which was considered the most beautiful home in the West. Near the house was a flower garden filled with exotic and native flowers and shrubs. Orange, lemon, citron and fig trees grew in hothouses and serpentine gravel paths wound through the garden, which was ornamented with summerhouses. After the Blennerhassetts became entangled in the ill-fated Aaron Burr expedition, Harman and Margaret left the island in 1806 never to return. The mansion accidentally burned to the ground in 1811. The mansion was reconstructed over its original foundations in the mid-1980s.

Knowledge of the current existing physical conditions of the island and the land use during the Blennerhassett period provides a guide for future land use, development and restoration. The location of features such as the formal landing, flower garden, vegetable garden and orchard, slave quarters, ha-ha wall and paling fences, which were reported to have stood during that period, can only be verified through archaeological investigations.

The Blennerhassett Historical Foundation wanted an update to the 1993 master plan conceived for the Blennerhassett Island Historical State Park. The master plan update was conceived for the island's upper (eastern) end and focused on preservation, restoration and reconstruction of the historic landscape. Particular consideration was given to the arrival zone as presented in the 1993 master plan and the feasibility of relocating the future / permanent arrival zone to the Ohio side of the island. The island, which is located on the Ohio River in Wood County, West Virginia, is leased by the state of West Virginia from E.I. DuPont de Nemours and Company and is operated and managed as Blennerhassett Island Historical State Park by the West Virginia Department of Natural Resources.

Key issues that were considered in the Master plan update included:

- An interpretation of the island's historic landscape through preservation, restoration and reconstruction.
- Arrival experience; views of the mansion from the river and views upriver from the mansion.
- Island access.
- Visitor orientation and conveniences.
- Visitor circulation routes on the island.
- The impact of periodic flooding.
- Tree management and shoreline protection.

This project received the West Virginia Chapter of ASLA Honor Award.



Master Plan Update for Historic Zone of Island

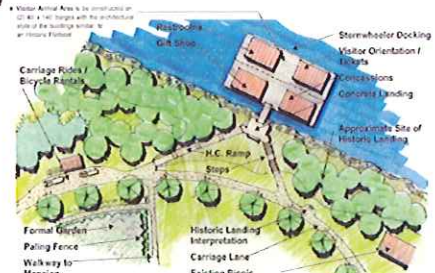


Typical Historic Flatboat



Blennerhassett Mansion

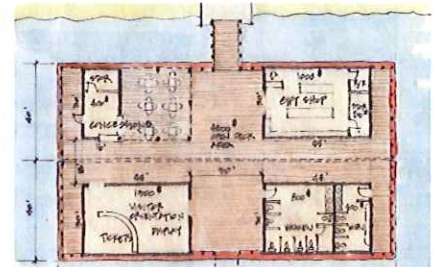
CLIENT:
Blennerhassett Historical Foundation
and WV Department of Natural Resources
LOCATION:
Parkersburg, West Virginia



Visitor Arrival Area - Site Plan



Visitor Arrival Area - Elevation



Visitor Arrival Area - Plan View

Hills of Lake Mary *Lake Mary, Florida*



GAI Project Manager:
Grace G. Harrison, RLA
Project Team:
GAI Consultants
Client:
Seminole County, Florida
Client Contact:
Steve Krug
407.905.3170
Construction Cost:
\$25,000

Completion Date:
2002

A020052.00

Brief Project Description

GAI Consultants, Inc. (GAI) greatly enhanced the two entrances to the Hills of Lake Mary subdivision during the 46A roadway widening project. The concerned homeowners needed an irrigation design and a revised landscaping plan to incorporate new sidewalks featuring handicap accessible ramps. The existing brick fountains set a beautiful image at the end of the brick wall that buffers the community from outside traffic. A palette of yellow and dark green was chosen as a bold contrast against the brick wall. Red and yellow annuals, changed seasonally, were selected to compliment new bromeliads planted under the mature oaked canopy with variegated ginger accenting the corners of each fountain pool.

Work Tasks/Services

- Landscape architecture
- Irrigation design
- Lighting design
- Visioning and consensus building

Major Accomplishments

The county engineer stated he had received more positive calls on this project than he had in 10 years of service.

Lasting Benefits

After several discussions with homeowners and County staff, the vision for the entrance was themed "WOW."



In summary, the development of the master plan was based upon a thorough analysis of existing facilities, a comparison to accepted recreation standards, and an interpretation of community needs.



Uptown Altamonte *Seminole County, Florida*



Brief Project Description

GAI Consultants, Inc. (GAI) completed a major landscape architectural design project for the picturesque community of Altamonte Springs, Florida, located just north of Orlando. The \$25 million project was the largest and most innovative landscape design project to date for GAI.

GAI provided design development and construction plans for this imaginative town center project, which borders beautiful Crane's Roost Lake. The thirty-seven acre lake includes one mile of continuous boardwalk and sidewalk. GAI designed the streetscapes, park amenities, amphitheater improvements, and event venues that totaled \$16M in construction.

Working closely with Wharton-Smith Construction Company for more than 24 months, GAI also provided utility coordination, traffic, structural and civil engineering, and irrigation plans for the new development. With GAI at the design helm and Wharton Smith implementing construction, the project faced many site challenges both for construction and to meet city and state ADA requirements. Together the team transformed the vision of Uptown Altamonte into an award-winning recreational urban hub for the city of Altamonte Springs and its visitors.

GAI Project Manager:
Grace Harrison, RLA

Project Team:
GAI Consultants (Prime)
Ibarra - Architects (Subconsultant)

Client:
Altamonte Springs

Client Contact:
Frank Martz
407.571.8178

Completion Date:
July 2006

#A040250.00

Work Tasks/Services

- Landscape architecture
- Civil engineering
- Traffic engineering
- Structural engineering
- Survey

Value-Added Innovations

Design/Build concept was chosen as the most cost-effective option.

Lasting Benefits

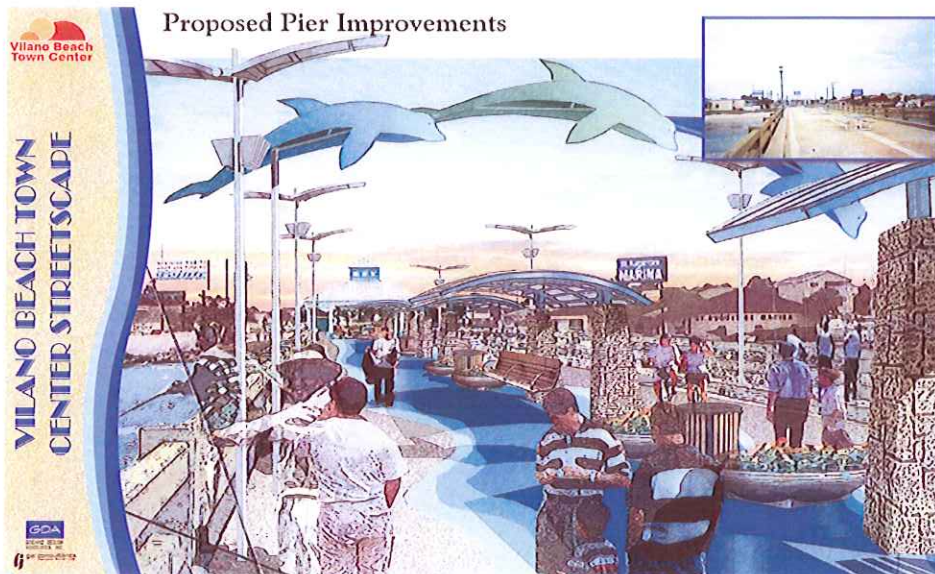
Recreational urban hub for the City of Altamonte Springs and their visitors.

Major Accomplishments

Southeast Construction Magazine awarded the project a "Best of 2006" in the Best Parks/Recreational category. Only 24 projects received a "Best of" award by the McGraw Hill Construction publication.

Vilano Beach Streetscape

Vilano Beach, Florida



GAI Task Manager:
Ron Hoogland, P.E.
Grace Harrison, RLA (Task Manager)

Project Team:
GAI Consultants, Inc. (Prime)

Client:
St. Johns County

Client Contact:
Greg Caldwell
904.209.0587

Completion Date:
October 2004

#B040408.91

Brief Project Description

GAI Consultants, Inc. (GAI) assisted in the development of the Vilano Beach streetscape and enhancement project. Historic Vilano Beach is positioned beautifully between the Atlantic Ocean and St. Johns River just outside of St. Augustine, Florida. The community wanted to keep their unique flavor and improve their streetscape to encourage commercial development. GAI assisted in creating three concepts to capture the fun, family-oriented Florida character of this town. The "overhead dolphins" are planned to be shade structures for walkers on the pier. The whimsical sea life will identify the entrance to this walkable shopping district for boaters and vehicular traffic.

Work Tasks/Services

- Public involvement
- Streetscape
- Landscape architecture

Major Accomplishments

This project enabled the community to come together to develop this central streetscape. It provided on street parking in a narrow right of way that is shaded and convenient for Vilano Beach visitors.

Lasting Benefits

The beautification of this festive community now has a united identity and support facilities to promote economic development of tourism.

North Shore Riverfront Park *Allegheny County, Pennsylvania*



Brief Project Description

North Shore Riverfront Park (also known as Clemente Park) sits on a 4,000 l.f. parcel of land stretching from the West End Bridge to the Fort Wayne Railroad Bridge in the City of Pittsburgh. Development took place in three phases, Esplanade West and Great Lawn (Phases I and II), and Belvedere (Phase III). A Vietnam Veterans Memorial and a memorial to law enforcement were erected during the first two phases. Phase III included design and construction of an ornamental overlook situated on an existing pier. It was designed to have an "old steel town" theme. Boat docks, lawns, gardens, piers and watersteps accent the park.

GAI Consultants, Inc. (GAI) was retained to provide civil engineering and permitting services for Phases I, II, and III of this North Shore project. Each phase required walkways, lighting, utilities, and permitting. GAI's services were again requested when structural engineering services were required for a later phase of the project. Phase IV involved designing a causeway at the park, and GAI developed a half-moon shaped pedestrian structure that extends into the river.

GAI Project Manager:
Contact: Patrick M. Gallagher

Project Team:
GAI Consultants, Inc. (Prime)

Client:
EDAW Inc.

Client Contact:
Leslie Bartnik
703.836.1414

Construction Cost:
\$48,000,000

Completion Date:
2000

#C000494

Value Added Innovations

The park links the city's two sports stadiums, Heinz Field and PNC Park, and has improved access to the Fort Duquesne Bridge pedestrian walkway that connects the North Shore area with Point State Park. This and other efforts to develop parks, trails, and open spaces, have made Pittsburgh one of the leading cities in developing greenways for recreation and transportation.

Work Tasks/Services

- Hydrologic and Hydraulic (H&H) river modeling
- Field survey
- Erosion control plans
- Utility design
- Permitting
- Geotechnical engineering
- Structural engineering
- Cost estimating

Monongahela River Comprehensive Study *Marion and Monongalia Counties, West Virginia*



GAI Project Manager:
Robert J. Houston

Project Team:
GAI Consultants, Inc. (Prime)

Client:
U.S. Army Corps of Engineers

Client Contact:

Jack Goga
412.395.7200

Completion Date:
1998

#C940424.05

Brief Project Description

GAI Consultants, Inc. (GAI) conducted a comprehensive study related to the potential for development along 37 miles of the Monongahela River, from Fairmont, West Virginia to the West Virginia-Pennsylvania state line. Conceptual plans ranged from the reuse of abandoned railroad yards and corridors to the expansion of community parks and recreation areas. Sixteen projects were completed under this IDIQ contract with the Pittsburgh District of the U.S. Army Corps of Engineers, with tasks orders ranging from \$14,000 to \$330,000.

Work Tasks/Services

- Studies, analyses, and consequent Riverfront Development Conceptual Plans for eight sites adjacent to the Monongahela River
- Comprehensive inventory of existing and potential waterfront uses
- Natural resources agency coordination
- Public meetings

Value Added Innovations

GAI exceeded the subcontracting goals of the workplan, placing 36 percent with small businesses, including five percent with small disadvantaged businesses.

Cultural Resources

Phase IA and Environmental Assessment



Morgantown Riverfront Park

Morgantown, West Virginia



GAI Project Manager:
Robert J. Houston

Project Team:
GAI Consultants, Inc. (Prime)

Client:
U.S. Army Corps of Engineers

Client Contact:
Jack Goga
412.395.7200

Project Cost:
\$82,900

Completion Date:
1998

#C940424.18

Brief Project Description

GAI Consultants, Inc. (GAI) provided Phase 1A and Environmental Assessment services to the Morgantown River Park project in Morgantown, West Virginia. This included analyses of features associated with the expansion and development of the existing Morgantown Park. New facilities at the park included an accessible parking lot, an ornamental arbor, paved walkways, a restroom/storage facility, an amphitheater, trails, an overlook, and a boat access ramp. The Environmental Assessment (EA) was carried out according to the requirements of the National Environmental Policies Act (NEPA) and state and local resource management regulations. Potential impacts were assessed with regard to land use, socioeconomics, farmlands, air quality, noise, vegetation, wildlife, water resources, wetlands, threatened and endangered species, floodplains, historic and archaeological resources, hazardous waste, groundwater and geology, aesthetics, and secondary and cumulative impacts.

Work Tasks/Services

- Phase I archaeological survey
- Environmental impact studies
- Biological studies
- Report and recommendations

PNC Park Baseball Stadium *Pittsburgh, Pennsylvania*



Brief Project Description

Involvement in the 39,000-seat PNC Park project by GAI Consultants, Inc. (GAI) began with the demolition of the old North Side neighborhood, required to make way for the project, and continued throughout construction. GAI determined detour routes, relocated public utilities, and obtained all necessary permits, including the NPDES Permit for industrial discharge and Joint 105/404 Permit for construction.

During the design development phase, GAI provided site and utilities engineering design of the River Bulkhead Wall, the Sewage Facilities Planning Module, conducted a flood risk assessment including hydrological and hydrogeological studies, coordinated all field surveying activities with the project surveyor, and designed a reliable and cost-effective 1,110-foot-long anchored sheet pile wall to support an attractive riverwalk area between the baseball park and the Allegheny River. The curved alignment of the wall increased design and construction complexity. The tieback system consisted of 142 inclined soil anchors at 8-foot intervals, each with a 42-ton capacity and embedded 51 feet into the soil.

Similar services were provided by GAI during the final design phase, including design modifications to two existing ALCOSAN diversion chambers to accommodate the construction of the new ballpark, and design of the underdrain system and flood control vault.

GAI monitored construction of the Allegheny River bulkhead wall and the abandonment of the existing 120-inch diameter canal sewer through the site.

GAI Project Manager:
Anthony F. Morrocco, P.E.

Project Team:
GAI Consultants, Inc. (Prime)
L.D. Astorino & Associates, Ltd.
(Subconsultant)

Client:
Hellmuth, Obata & Kassabaum, Inc.
(Site Planning)
L. D. Astorino & Associates, Ltd.
(Final Design)
Pittsburgh Pirates (Bulkhead Wall)

Client Contact:
Robert L. Watson (HOK)
816.221.1576
Dennis Astorino (LDA)
816.221.1576

Completion Date:
2001

#C980426 (HOK) #C980491 (LDA) #C990244 (Pirates)

Work Tasks/Services

- Civil site layout
- Flood risk assessment
- Hydrologic and hydraulic studies
- Utility design
- Site design and grading
- Permitting
- Hydrogeologic investigations
- Flood control system
- Regulatory agency coordination
- NPDES Permit for industrial discharge
- Building demolition documents and specifications
- Phase I and II Environmental Assessments
- Complex wall and tieback system design and construction
- Anchor load test monitoring
- Sheet pile wall and anchor construction monitoring

Geotechnical & Structural

Bulkhead Wall Design Services

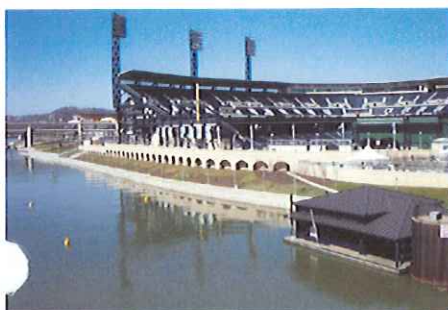


PNC Park - River Bulkhead Wall Design *Pittsburgh, Pennsylvania*



Brief Project Description

GAI Consultants, Inc. (GAI) was retained to provide final design and construction monitoring for a 1,110-foot-long anchored sheet pile wall to support an attractive riverwalk area between the PNC Baseball Park and the Allegheny River. The curved alignment, while aesthetically pleasing, increased design and construction complexity. The tie-back system consisted of 142 inclined soil anchors at eight-foot intervals, each with a 42-ton capacity and embedded 51 feet into the soil.



Work Tasks/Services

- Designed reliable and cost-effective wall and tie-back system
- Monitored construction of sheet pile wall and anchors
- Prepared plans and specifications for wall construction
- Monitored and recorded anchor load testing
- Prepared layout of complex water support system to accommodate the curved-wall alignment
- Specified double corrosion protection system for anchors to enhance useful life of the wall

GAI Project Manager:
Anthony F. Morrocco, P.E.

Project Team:
GAI Consultants, Inc. (Prime)

Client:
L. D. Astorino & Associates, Ltd.

Client Contact:
Christopher R. Haupt
412.765.1700

Completion Date:
1999

#C990244

David L. Lawrence Convention Center *City of Pittsburgh, Pennsylvania*



GAI Project Manager:
Anthony F. Morrocco, P.E.
Project Team:
GAI Consultants, Inc. (Prime)
Client:
DMJM Harris
Client Contact:
John S. Prizner
412.395.8888
Completion Date:
2002

#C990327

Brief Project Description

GAI Consultants, Inc. (GAI) created the site plan utility design for a water supply to the new David L. Lawrence Convention Center (Expansion), to include permit and design of new separate storm and sanitary sewers for the new building and streetscape.

The Fort Duquesne Boulevard roadway infrastructure project at the David L. Lawrence Convention Center required special designs and details with respect to vaults and utility conflicts with proposed water lines, sewer lines, and appurtenances for a new convention center.

Work Tasks/Services

- Civil Engineering and Permitting
- Project management
- Field survey
- Erosion control plans
- Permitting
- Permits processing
- Hydraulic river modeling
- Storm and Sanitary Sewers
 - Utility and water supply design
 - Storm and sanitary sewer separation
 - Erosion and sediment control
 - River wall penetration design
 - Environmental permitting
 - Hydrologic and hydraulic investigations
- Roadway Improvements
 - Preliminary Erosion and Sediment Control Plans and permits
 - Separate water distribution system replacement plan and profile
 - Structural and hydraulic analysis of existing sewer system

Value Added Innovations

Design and permits for separate sewers reduced combined sewer overflows to the Allegheny River.



Belpre Civitan Park Riverfront

CLIENT:
City of Belpre
Army Corps of Engineers
LOCATION:
Belpre, Ohio

The Army Corps of Engineers contracted to have a riverfront schematic and master plan developed for the Belpre Civitan Park.

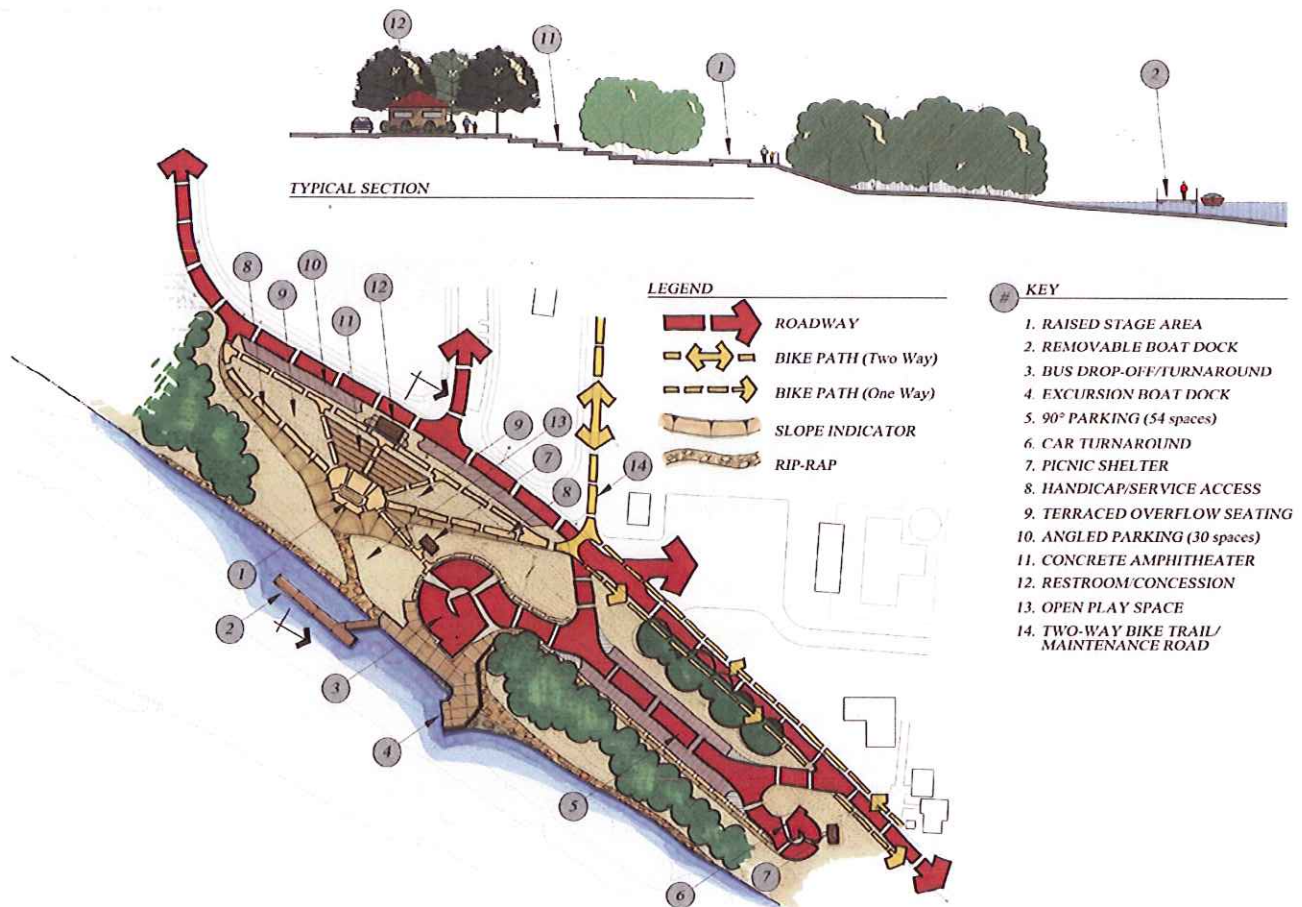
The planning methodology used to complete the riverfront development involved several steps:

- Project Programming
- Site Evaluation/Reconnaissance
- Public Meetings
- Schematic Planning
- Master Planning
- Cost Estimates

As with all projects involving different transportation types in the same area, safety and coordination between vehicular, bicycle and pedestrian traffic is a must. This development also looked at connectivity between the riverfront and other areas of the park as well as linking to the City sidewalk system.

Design elements, with ADA compliance, included a raised stage area, amphitheater, removable boat dock, picnic shelter, restroom and concession building, open play space, parking, car and bus turnaround areas, a bicycle trail.

The project involved several different design elements to be incorporated into the riverfront development. The project goal was to incorporate the elements while maximizing the greenspace development as well.





Fort Boreman Historical Fort Project

CLIENT:

Wood County Commission

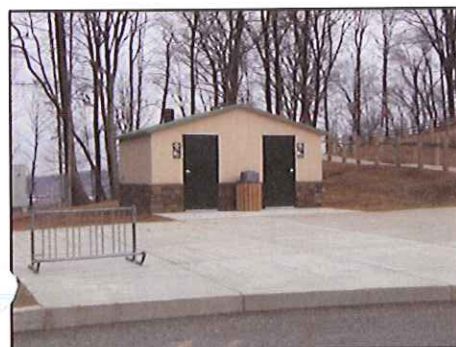
LOCATION:

Wood County, West Virginia

Fort Boreman Historical Park

The Fort Boreman Historic Park project involved developing a county park which would be an interpretive vision and history of an existing Civil War Fort that was on the National Historic Registry. The project involved extensive archeological investigation and coordination with the West Virginia State Historic Preservation Office prior to any construction commencing. The project goal was to minimize the impact on the existing conditions while maximizing the benefits for park users. The project utilized existing roads, gentle topography and minimized vegetation loss.

Site amenities include highlighting the previous Civil War Fort location, new vehicular and bus parking with turnaround, new overlook which views up and down the Ohio River as well as the confluence of the Ohio and Little Kanawha Rivers, two period shelters with heavy timbers to create a more period and rustic feel, highlighted entry signage, prefabricated restroom that initially was a waterless facility that can be converted to water-bourne once infrastructure has been extended to the site, and numerous historical interpretation sites to teach site visitors about the various features of the site and how it was used in the 1860's.





Morgantown Riverfront Park & Trailhead

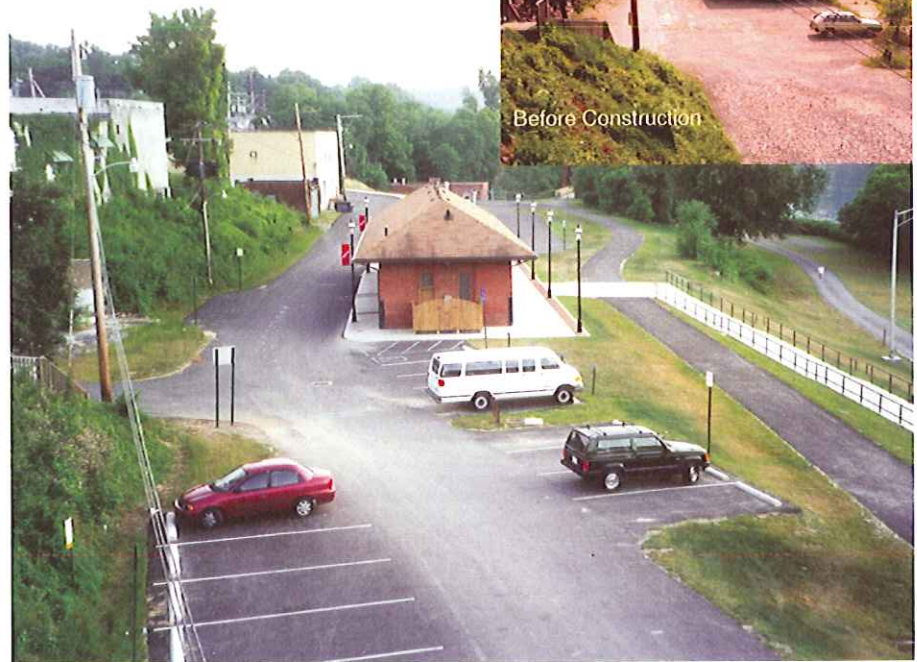
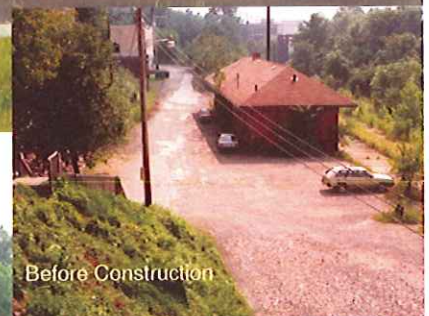
CLIENT:

City of Morgantown, WV

LOCATION:

Morgantown, WV

This project, located along the Monongahela River in Morgantown, WV, was to create a trailhead parking and access point to a rails-to-trails linear park and future riverfront park amphitheater. The project took an abandoned piece of railroad property, which had become an eye-sore and liability and transformed it into a present day community asset. The primary objectives for the project were two-fold: 1) to design a parking facility and accessible pathways to service nearby public structures and facilities in a coordinated manner and 2) to integrate the parking facility as a primary entry point for people with impaired mobility to the city's Riverfront Park and Trail System. The heavy use of this facility as a trailhead access point is testimonial to its popular success.



Relevant Project Experience

Owner

Ohio Department of Natural Resources
Chris Bowers
(614) 265-6977

Size

Approximately 2 Square Miles

Year Completed

Professional Services:

2011

Construction:

Ongoing

Cost

\$2-3 Million In Construction Costs

Relevance to this project

Experience working with DNR, design of marina upland facilities, site utility extensions, parking areas, access roads, site lighting, concessionaire building and accessible restrooms.

Middle Bass Island State Park Facilities Assessment and Improvements

Middle Bass Island, Ohio



SITE PLAN

The Ohio Department of Natural Resources hired a design team for improvements at Middle Bass Island State Park. The project involved helping ODNR plan for the future of the park, a unique place that contains numerous structures including the prominent Lonz Winery, listed on the National Register of Historic Places. The design team is performing planning, concept design, and preparing construction documents for improvements for the park. The first stage of improvements started construction in May 2010, with a second phase planned for 2011. Pending improvements include staff housing, a harbormaster facility to support the new marina, shower/restroom facilities, and other various site improvements.

A detailed architectural, structural, and environmental condition assessment was conducted in 2009 to document the integrity and status of the various structures. This effort included detailed site measurements and creation of AutoCAD floor plans for the winery buildings. The design team analyzed the site of the park and surrounding areas, vehicular and pedestrian circulation, aesthetic concerns, materials, systems and equipment and useable and assignable areas. We also analyzed existing MEP systems, facilities (including kitchen, winery, loading/storage spaces), and handicapped access to determine compliance with codes and LEED compliant energy standards. The design team recommended retention, adaptation or replacement of each of systems and facilities based on a detailed analysis of cost and benefits. Future park development may include camping areas, access roads, hospitality amenities, and a new use for the winery complex. Options for the winery complex are numerous and are not yet determined by the state.

The Harbor Master Facility is a 4,200 sf new office building which includes public restrooms, public showers, retail area, lobby, and pool service area. Along with the public facilities the building also houses the harbor patrol. The facility site development includes access to the new building and off street parking for small cars and golf carts. JHA designed site grading for positive drainage away from the building, provided sanitary sewer service to the building and provided water service to the building. JHA also provided a layout plan for new pedestrian walkways and a new entry drive. All utilities to this area are private so ODNR was the reviewing agency. The project was constructed in two phases with the rough grading being done this fall and the final construction being finished in the spring.

Relevant Project Experience

Owner

City of Zanesville
Michael Sims
401 Market St.
Zanesville, OH 43701

Completion Date

2006

Assignment

Civil Engineering
Land Surveying
Environmental Clearance
Construction Administration

Relevance to this project

Experience working with DNR, design of boat ramp and dock facilities, USACOE permitting, parking areas, access roads, site lighting.

Riverside Park Boat Ramp

Zanesville, Ohio

JHA prepared construction plans for a 2 lane boat ramp with launch floats on either side, a separate boarding float, bank stabilization, and a lighted paved parking lot.

JHA successfully coordinated the project through numerous agencies for review including ODNR. Permits were obtained from the OEPA and ACOE. JHA coordinated with an environmental consultant to provide a mussel survey required by Ohio Fish and Wildlife in order to obtain the necessary OEPA permits. Even with the additional expense of the mussel survey and report the project was completed within budget and on schedule.

During construction JHA provided construction administration in which we prepared and ran a preconstruction meeting, reviewed shop drawings and coordinated with ODNR, provided site visits during construction, review pay requests and assisted in processing change orders brought about by field conditions.

Relevant Project Experience

Client

Hartman Engineering
Doyle Hartman, P.E.
740-548-4702

Owner

ODNR

Completion Date

2009

Relevance to this project

Experience working with DNR, survey of boat ramp and dock facilities, parking areas, access roads, site lighting.

ODNR Alum Creek State Park and Portage Lakes Boat Launch Topographic Surveys

Alum Creek State Park and Nimisila Reservoir, Ohio

Jobes Henderson provided the surveying necessary for improvements to several boat launch ramps at Alum Creek State Park and Nimisila Reservoir. The survey work provided included:

Provided aerial mapping with one-foot contours, site utilities for Alum Creek Lake, New Galena Launch Ramp.

Provided field survey and site mapping including utilities for Alum Creek Lake, Howard Road Launch Ramp.

Provided field survey and site mapping for three separate launch ramps (C-1, C-6 and SM-1) at Portage Lakes State Park, Nimisila Reservoir. The limits of these surveys included the area of the approach drive the ramp and ramp itself. Below water data was also collected in the ramp area to a depth about 4 feet below the normal water level. The existing adjacent docks were also located.

Relevant Project Experience



Owner
Mallory Square Development, LLC.

Year Completed
Phase 1- 2006
Phase 2- 2007

Assignment
Planning
Site Design
Utility Design

Cost
\$4,350,000

Relevance to this project
Experience working with DNR, design of dock facilities, ODNR and USACOE permitting, site utility extensions, parking areas, access roads, site lighting land planning, ADA accessible common areas.

Mallory Square Condominiums on Buckeye Lake Hebron, Ohio



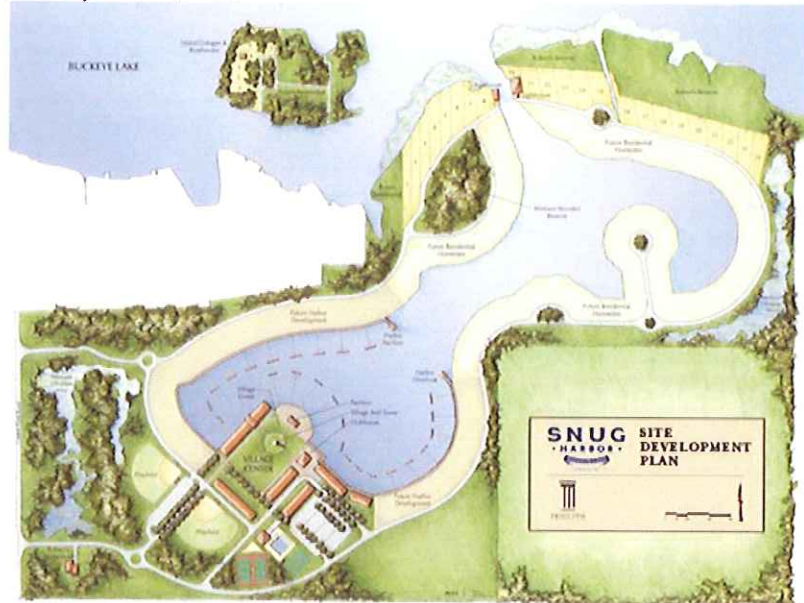
Jobes Henderson performed the planning, development construction document design, and land surveying services for this single-family condominium development in Hebron, Ohio. The first of its kind on Buckeye Lake, this condominium community development included design of docks, garages, landscaping plans, utility extensions and parking facilities. The existing site included the condominium building on the north of the site and the clubhouse and pool. JHA designed and phased the project's construction so that use of these existing facilities was not interrupted.

The water access area includes a boardwalk that extends along the waterfront of the entire site. JHA performed complicated permitting and variances for the development and gained approval from ODNR for removal and relocation of the existing cell tower on the site.

Owner
Private Development Company

Year Completed
Professional Services
2008
Construction
2009

Snug Harbor Phase II *Buckeye Lake, Ohio*



Snug Harbor is a 121.57 acre private mixed-use subdivision located on the south side of Buckeye Lake. The development consists of home sites for lakeside luxury homes, cottages, condos, and boathouses. JHA provided civil engineering and land surveying for this project which consisted of site development, utility extensions, drainage and grading, USACE permitting and wetland delineation location. JHA coordinated with the project architects and environmental subconsultants to meet the owner's specific vision for this development.

The mainland parcel contained numerous wetlands that were to remain as conservation areas during construction and to be delineated as much on the recoded plat. Jobs Henderson & Associates, Inc. prepared plans to extend the low pressure sanitary sewer from the Phase I location of the Snug Harbor Project. JHA designed a roadway along the south leg which was designed with the sanitary sewer line. JHA also created ODNR dock permits for the dock layout sketch plan of Snug Harbor and prepared a final grading plan of the west side of the lake. JHA performed various surveys through the course of this project.

