



Statement of Interest

West Virginia State Capitol Campus Security Design

State of West Virginia
Kanawha County, West Virginia

February 9, 2012



Submitted to:

Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

Prepared by:

GAI Consultants, Inc.
500 Summers Street, 3rd Floor
Charleston, WV 25301
304.926.8100 | gaiconsultants.com

In Association with:

msi | kkg
Professional Systems Engineering, LLC



msi | kkg



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WV PURCHASING
DIVISION

February 9, 2012

Ms. Krista Ferrell
Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

Re: West Virginia State Capitol Campus Security Design
RFQ No.: GSD 126428

Dear Ms. Ferrell:

The West Virginia Capitol Campus requires site security that is sensitive to its rich cultural and architectural heritage. Maintaining an open, accessible campus with a welcoming, park-like quality is a high priority for this project while not sacrificing security measures. GAI Consultants, Inc. and our strategic partners MSI | KKG and Professional Systems Engineering, LLC (PSE) are extraordinarily well-prepared to provide this combination of services on this project.

GAI Associates and MSI | KKG are currently engaged with the City of Charleston, WV to provide an updated city-wide Comprehensive Plan and an action oriented Redevelopment Plan for Downtown with the ultimate goal to create a thriving, vibrant city that supports and encourages residential and commercial investment in a live-work-play environment.

Our team brings a strong understanding of Charleston's historic context and the importance of the Capitol Campus to the urban fabric. Our team will bring this understanding in developing the appropriate design solutions for the campus.

PSE has extensive experience developing security systems for buildings and campuses with rich cultural, historical, and architectural traditions. They are well-equipped to design security elements that fit the campus landscape, become "contributing" elements to that landscape, and are visually non-invasive to the extent possible.

We would like to meet with you to discuss our concept and approach to the Capitol Campus Security Project. In the meantime, please feel free to contact me at 304.926.8100 or d.gilmore@gaiconsultants.com. We feel this project is a great fit based on our skills and previous experience, and we look forward to the opportunity to make this project successful.

Sincerely,
GAI Consultants, Inc.



David Gilmore, RLA, ASLA
Corporate Practice Area Leader for Landscape Architecture

DG/mlk



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

Request for Quotation

RFQ NUMBER
GSD126428

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**KRISTA FERRELL
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

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

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317

DATE PRINTED 01/09/2012	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 02/09/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>A&E SERVICES CAPITOL CAMPUS SECURITY PROJECT</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR CAMPUS PERIMETER SECURITY MEASURES LOCATED ON THE WEST VIRGINIA STATE CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4225 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV.</p> <p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/25/2012 AT THE CLOSE OF BUSINESS.</p> <p>ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN ADDENDUM TO BE ISSUED AFTER THE DEADLINE HAS LAPSED.</p> <p>VERBAL COMMUNICATION: ANY VERBAL COMMUNICATION BETWEEN THE VENDOR AND ANY STATE PERSONNEL IS NOT BINDING. ONLY INFORMATION ISSUED IN WRITING AND ADDED TO THE EOI BY FORMAL WRITTEN ADDENDUM BY PURCHASING IS BINDING.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304.926.8100	DATE February 7, 2012
TITLE Corporate Practice Area Leader Landscape Architecture	FEIN 25-1260999	ADDRESS CHANGES TO BE NOTED ABOVE

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



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<p>NO CONTACT BETWEEN THE VENDOR AND THE AGENCY IS PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STATE BUYER. VIOLATION MAY RESULT IN THE REJECTION OF THE BID. THE STATE BUYER NAMED ABOVE IS THE SOLE CONTACT FOR ANY AND ALL INQUIRIES AFTER THIS EOI HAS BEEN RELEASED.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 Received February 2, 2012</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE</p>						

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<p>INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"><i>[Signature]</i> SIGNATURE</p> <p style="text-align: center;">GAI Consultants, Inc. COMPANY</p> <p style="text-align: center;">February 7, 2012 DATE</p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE EOI.</p> <p>REV. 09/21/2009</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>ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERE TO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED EOI MUST BE SUBMITTED TO:</p>						

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SIGNATURE <i>[Signature]</i>	TELEPHONE 304.926.8100	DATE February 7, 2012
TITLE Corporate Practice Area Leader Landscape Architecture	FEIN 25-1260999	ADDRESS CHANGES TO BE NOTED ABOVE

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GAI Consultants, Inc.
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 Charleston, WV 25301

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				DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130		
				THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED: SEALED EOI		
				BUYER: KRISTA FERRELL-FILE 21		
				EOI. NO.: GSD126428		
				EOI OPENING DATE: 02/09/2012		
				EOI OPENING TIME: 1:30 PM		
				PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: 304.926.8180		
				CONTACT PERSON (PLEASE PRINT CLEARLY): David Gilmore, RLA, ASLA, Corporate Practice Area Leader for Landscape Architecture		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE 304.926.8100	DATE February 7, 2012
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TITLE Corporate Practice Area Leader Landscape Architecture	FEIN 25-1260999	ADDRESS CHANGES TO BE NOTED ABOVE
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LINE	QUANTITY	UOP	QAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				TO ADD ATTACHMENT A TO THE ORIGINAL EXPRESSION OF INTEREST (GSD126428) WHICH WAS UNINTENTIONALLY OMITTED FROM THE ORIGINAL SOLICITATION.		
				ALSO, TO CLARIFY THE BID OPENING DATE AND TIME IN SECTION 1.16 SCHEDULE OF EVENTS		
				EXPRESSIONS OF INTEREST OPENING DATE IS FEBRUARY 9, 2012 AT 1:30 PM.		
				***** END ADDENDUM NO. 1 *****		
001	1	LS		906-07		
				A&E SERVICES CAPITOL CAMPUS SECURITY PROJECT		
				***** THIS IS THE END OF RFQ GSD126428 ***** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE TELEPHONE 304.926.8100 DATE February 7, 2012

TITLE Corporate Practice Area Leader Landanna Architecture FEIN 25-1260999 ADDRESS CHANGES TO BE NOTED ABOVE

GSD126428

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: GAI Consultants, Inc.

Authorized Signature: *Charles Shaley* Date: February 9, 2012

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 9 day of February, 2012.

My Commission expires October 28, 2012.

AFFIX SEAL HERE

NOTARY PUBLIC

Carol A Moore

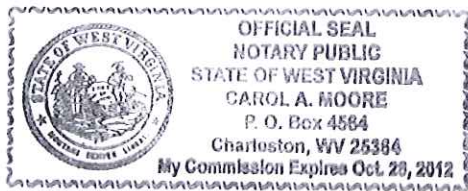


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A. Concept

Project Understanding

It is our understanding that the stated intent of the project is to provide enhanced levels of security on the West Virginia Capitol Campus while maintaining and architectural and aesthetic continuum with the strong participation of the WV National Guard and thorough research into the "best practices" of security devises/applications used elsewhere. Both perimeter and interior areas of the campus require degrees of security/protection. This very necessary protection is to be accomplished while enhancing the "park-like" qualities of the campus and ensuring the campus is inviting to the pedestrian.

This charge requires the establishment of a design language for the overall campus environment that speaks to the architectural and cultural heritage of this beautiful campus. Plantings, buildings, memorials, furniture/site elements and views to/from the surrounding community all constitute that current setting. Security devices need be designed to fit that language while performing their intended function. Security features need not be unsightly!! They must fit the campus landscape, become "contributing" elements to that landscape and be visually non-invasive to the extent possible.

In conjunction with the other team members, Professional Systems Engineering, LLC (PSE), our security design consultant, will begin the project by clearly confirming the scope of the project with the Project Team. A security assessment will be provided to compliment ongoing Master Planning. The main focus will be on establishing best practice security requirements from IASCP, ASIS, SERC, as well as other State and Local requirements for this project with additional input from the General Services Division, Protective Services Division, Division of Homeland Security, and the National Guard. PSE will detail in a report the impact these changes would have on Capitol Campus and how we will lessen the impact utilizing natural security barriers and enforcements allowing the Capitol Campus to retain its existing green presence.

As the overall plan is formulated, it must guide the future development of the campus security as enhancement to the landscape as it is implemented incrementally over time. This plan will identify opportunities to enhance the long-term environmental and sustainability qualities of the campus and will seek to maximize those opportunities. This plan is also to include a compendium of agreed-to site development/security standards to insure consistency and minimum level of quality as this plan is implemented through time

As a point of beginning for this planning endeavor, this Design Team will build upon the past plans relative to campus systems and key facilities/places to take full advantage of resources already expended.

Our end result will be the development of a set of specialized security, public safety, and communication systems construction documents for bidding. It is clear that a high priority of the Capitol Campus is to establish a secure campus without impeding the natural "park like" atmosphere for all who visit the Capitol Campus. PSE will use our extensive experience to determine options and recommended solutions to solve this important security issue.

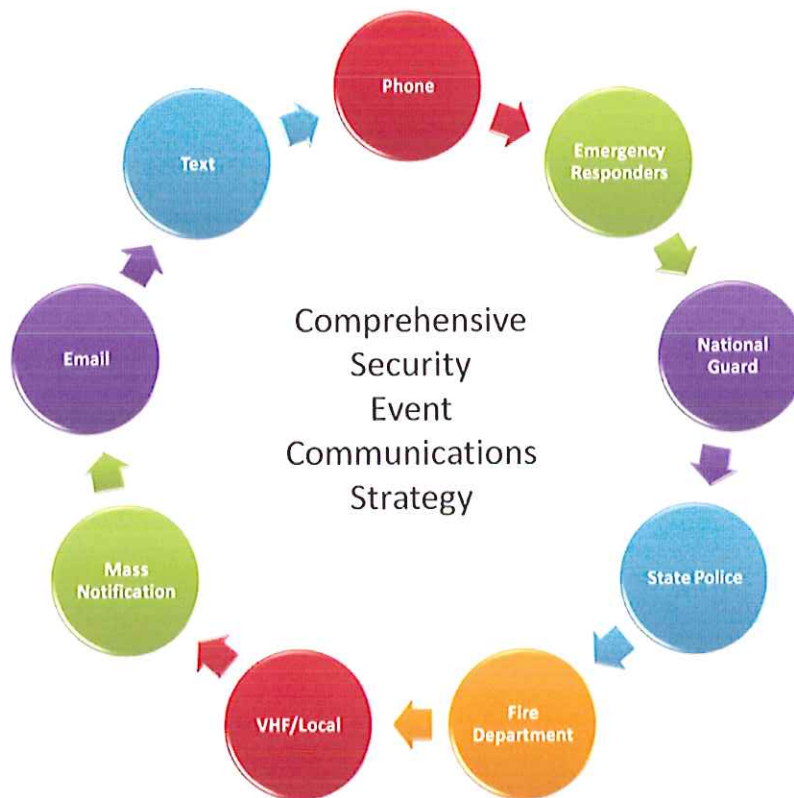
Security consulting efforts for the Capitol Campus Security Project will include but not be limited to the following:

- + Existing Conditions – examine existing campus conditions for utilization into new security planning and design documents. This shall take into consideration future plans, landscaping, buildings, walkways, access points, roadways, waterfront access, and vehicle and pedestrian traffic patterns.
- + Security Zoning – define the multiple layers of physical and electronic security used to monitor the campus and assist in controlling public safety for day-to-day operations and special events. PSE shall define vehicle and pedestrian site access and security features for natural barriers, detection systems, lighting,



surveillance, to ensure overall campus security paying close attention entrances at roadways and parking lots. This work shall entail close coordination with the Capital Campus and other agencies representing the Capitol as defined in the RFQ.

- + Architectural Security – review and evaluate risks and impediments which prevent and deny safe occupancy, movement, and overall site safety. We shall investigate security improvements for walls, barriers, waterway approaches, and gates utilizing physical and electronic security measures that do not impede upon the “park like” atmosphere of the Capitol Campus.
- + Control Centers – define requirements for Central and Localized Capitol Campus Security Control Stations for monitoring and controlling of Campus security by Campus Police Forces, Guard Operations, and Public Safety and Emergency Responders as required.
- + Security Electronic Systems – define general requirements for all electronic security systems including access control, security intercom/paging, video surveillance, watch tour systems, and public safety communications that will aid in the overall effectiveness of the Capitol Campus Public Safety.
- + Security Network – define security systems Ethernet network requirements utilizing hard-wired or mesh systems for integrated security systems enhancements that will not disrupt the existing or future landscaping of the Capitol Campus.
- + Communications – examine current methods of communications between Campus Police, local, state, and federal law enforcement personnel and make recommendations for increased efficiency and operational effectiveness. Provide additional coverage as required to meet the needs of Emergency Responders, National Guard, and other incident management teams as required while meeting the requirements of Mass Notification for the Capitol Campus.



- + Policies and Procedures - review and assess existing policies, procedures, and post orders to evaluate the integrity of mission and amplify needed improvements as it pertains to Public Safety.
- + Special Operational Security Requirements – review existing operational procedures for planned events, day-to-day activities, political gatherings, flash mobs, festivals, and permitted demonstrations and make recommendations based on standards of practice and new perimeter and site security additions to be defined in the construction documents.

SCOPE OF SERVICES

We propose the following Scope of Services:

1. Start-up

- a. Conduct Meeting with Client and National Guard representative to discuss the approach, schedule of production, preliminary design thoughts, clarify the issues/goals for the project and establish Project Committee, with representation from the Capitol Building Commission. Meeting to also include maintenance/operations directors and others as deemed germane to the long-term function and upkeep of the campus.
- b. Review past plans and information provided by Client.
- c. Create current conditions base plan to act as the basis for moving forward with future conditions planning.
- d. Establish goals and objectives to guide the development of this plan.

Deliverables

Base campus plan, interview meeting minutes, Goals & Objective statements

2. Inventory & Analysis

- a. Conduct general assessment of existing site conditions, perform limited photography and identify issues/problem areas, opportunities and constraints. Assessment will focus on key campus systems including:
 - + Building arrangements and enclosed spaces
 - + Vehicular Circulation, access and service areas
 - + Parking
 - + Lighting and security camera systems
 - + Major Open Spaces, Amenities and Natural Features
 - + Pedestrian and Bicycle Circulation
 - + Sustainability Opportunities
 - + Campus Edges / Visibility
 - + Campus Entries and Destinations
 - + Regional and community Issues / Opportunities
- b. Assess the overall Campus Organization as including architectural massing, building edges and the outdoor spaces they form and their contribution to campus character.
- c. Assess apparent security deficiencies and areas of concern.
- d. Prepare graphic materials to communicate assessment results.
- e. Conduct work session with Project Committee to discuss the findings of above and solicit input.

Deliverables

Issues & Opportunities assessment with plans, photo images, Campus Organization analysis in plan form, presented in PowerPoint format with hardcopies made available.



3. Framework

- a. Identify circulation (vehicular and pedestrian) systems hierarchy by prominence, function, volume and articulation through and to the campus and security devices/practices needed by each. Considerations given to sustainable features, significant landscape features, signs and amenities. These routes to include but not limited to streetscapes, parkways, service drives/courts, promenades, connecting walks and gateways.
- b. Develop/identify exterior space security devices/practices needed by type/location.
- c. Craft preliminary security device, landscape materials and architectural feature design criteria for these above areas/systems.
- d. Develop comprehensive Framework Plan depicting the above.
- e. Conduct working session with Project Committee, National Guard representative and Capitol Building Commission (as a whole) to discuss the findings of above and solicit input.

Deliverables

Framework Systems plans, presented in PowerPoint format with hardcopies made available

4. Security

On any complex electronic and physical security project, there are six (6) particular phases which align themselves to cover every aspect of the scope. These include operations, consulting, engineering, bid/construction administration, testing, and commissioning/acceptance. Each of these phases is presented in their entirety to resolve our ability to capture the project in a successful way using this particular project approach.

a. Operations

The first and foremost character of a consultant is to address the operational issues that are current with the client. Whatever is written, whatever is discussed, whatever is presented, it is no match for a one-on-one, face-to-face, table top exercise with the Chief of Police and Public Safety staff to uncover the most critical aspects of the use, expectations and needs of the electronic and physical security systems. Likewise, incorporating maintenance staff into the discussions is just as important since public safety and maintaining existing systems and grounds is an element which must be accounted for.

This is a particular reason why after the bid and before finalizing shop drawings, we require a complete review with the Campus and all necessary agencies alongside the designers and installers to confirm all barriers, surveillance systems, access control, communication systems are 100% functional and are matched to the operational needs of the Capitol Campus.

b. Consulting

After operations, consulting is the strategic planning and methodology that is required of the project. This is where the consultant needs to match the operational requirements with the available technologies and its implementation to complement current operations while avoiding interruption during construction. Thus, it is not only the innovation that is important but its success in implementation, being phased while not downgrading or preventing other operations on the Campus for extended periods of time.

Our consultants are experts in their fields. Mr. Forstater has over 20 years of security experience. Jason Delp, over 10 years. Tom Pilson, our Director of Public Safety Services, over 15 years, with 12 being an administrator with Delaware County's Justice System. These critical and key consultants will be available, monitoring and active on the Capitol Campus Security project for the duration. Each of these individuals brings particular talents and expertise to strategizing operational needs and engineering requirements in the



most creative and innovative fashion, while managing cost and phasing of the systems to match the needs of the Campus and its agencies.

c. Engineering

PSE's engineering expertise and documentation is second to none. PSE is dedicated to continuous advancement of the quality of our engineering services throughout each project. Our philosophy of continuing support and education allows us to provide the latest innovations and capabilities available for each project. Our mission is to deliver an end result that is user friendly, state-of-the-art, and maintains a high standard of safety and security for all involved. PSE has had zero claims in its 25-year history.

We have renovated counties, courthouses, and large complexes with highly integrated electronic and physical security systems, provided uninterrupted upgrades and renovations to fire/life safety systems, and provided enhanced communication systems. These provide a formidable tool for public safety staff in creating a safer atmosphere for staff, visitors, and protecting the community at large with the highest level of public safety. Our on-site experience in testing, managing, specifying, and commissioning integrated electronic and physical security systems extends from San Francisco to Montana; to Austin, Texas; to New Hampshire; and down to North Carolina.

d. Bid/Construction Administration

Bidding and Construction Administration support is where "the rubber meets the road." Today's volatile bidding environment requires an engineering and consulting firm that can verify, identify, dissect, and read between the lines when it comes to verifying the capability of teams and enforcing requirements of the specifications. Every single project in PSE's experience has been a success, even correcting projects of our competitors due to their inability to finish or meet the needs of the Owner.

e. Testing

Testing requires our field personnel to have capabilities that blend an engineer with a field technician. Many of our staff have actually worked inside the boxes of PLC's, done software programming, maintained physical barriers, installed cameras and have had years of experience in field investigation and survey. In this Capitol Campus environment, this is particularly helpful since the operation is not like that of any other institution.

f. Commissioning/Acceptance

Commissioning/Acceptance can be done in several different ways. They can be as (1) an Add Scope to engineering services, (2) done entirely by the contractor without third party certification, or (3) done by the agency, the latter two options having the expectation that limited knowledge may compromise elements of commissioning. But "true commissioning" must be accomplished after the contractor's testing by a "third eye," a "third party" (outside the owner/agency or contractor) on top of the contractor and in compliance with the engineer's specification documents. Once the commissioning occurs, comprising every gate, every control, every device, and every critical element in the line including communications, intercom, telephone and backbones, acceptance must be given by the Owner. This acceptance must indicate any deviation from what is expected during the operational phase and the consulting phase with the systems completely intact and warranty ready to go. As an option, PSE has identified available services for this phase.

5. Final Plan

- a. Develop site plans and specific design criteria for campus sub-areas
- b. Identify priority areas of the landscapes and develop specific design criteria for their security/aesthetic development with prescriptive design graphics for communication.
- c. Prepare draft campus-wide plan, color rendered for presentation.



Deliverables

Campus-wide plan, sub-area plans, design criteria for each, presented in PowerPoint format with hardcopies made available

6. Recommendations

- d. Develop specific design criteria for a wide range of Campus-wide security devices and systems
 - i. Lighting fixture/pole/lamp for varying applications throughout campus
 - ii. Surveillance equipment/locations
 - iii. Barriers, fences and gates
 - iv. Drainage & utility infrastructure
 - v. Parking
 - vi. Accessibility and safety
 - vii. Furniture & materials
 - viii. Plants
- e. Policies & procedures
 - i. Maintenance practices
 - ii. Implementation and landscape design reviews
- f. Conduct working session with Project Committee to discuss the findings of above and solicit input.

Deliverables

Specific design criteria for each recommendation category, policies & procedures statements, presented in PowerPoint format with hardcopies made available

7. Implementation Strategy

- g. Develop a listing of development projects ranging from relatively small, simple improvements to more complex. Prioritize the projects and determine a general phasing for use by the Client in the capital budgeting process.
- h. Define project scopes for these projects including general budget development for each.
- i. Conduct working session with Project Committee to discuss the implementation and phasing strategy and determine any desired modifications.

Deliverables

Development project listing, in some chronological order of implementation with general project scope and budget estimate,

8. Document Production

- j. Prepare draft of above documents and distribute to committee members for review and comments.
- k. Conduct working session with Project Committee, National Guard representative and Capitol Building Commission (as a whole) to discuss the findings of above and solicit input.
- l. Prepare final documents in print and electronic form.

Deliverables

Comprehensive Master Plan in bound form and in digital format with source files (PDF).



B. Firm/Team Qualifications

A. Contact Information

Provide the name address, phone number, email address and signature of the firm's contact person responsible for the project and having full authority to execute a binding contract on behalf of the firm submitting the proposal.

Contact: Mr. David Gilmore, RLA, ASLA
Corporate Practice Area Leader for Landscape Architecture
500 Summers Street, 3rd Floor
Charleston, WV 25301
Phone: 304.926.8100
Email: d.gilmore@gaiconsultants.com

B. Key Staff

Provide the names, function and resume of individuals within the lead firm's organization who will be assigned to this project

Mr. David Gilmore, RLA, ASLA will serve as Project Manager and main point-of-contact for the State Capitol Campus Security Project. Mr. Gilmore has worked extensively with the City of Charleston. Mr. Gilmore, along with the GAI and MSI | KKG team, is currently working with the City of Charleston to develop its Comprehensive Plan. He is intimately familiar with the community, the city, and the needs of this project. In fact, the entire GAI team is based in GAI's Charleston office, and have lived and worked in the Charleston community for a majority of their careers. The team is supplemented by the talented personnel at PSE, homeland security specialists, who will provide engineering, planning, design, and construction for security, safety, communications, protection, fire systems, and related infrastructure.

The following table outlines the function of each key staff person. Resumes for each key staff can be found at the end of this section.

Key Staff	Function
David Gilmore, RLA, ASLA	Project Manager
James A. Hemme, PE, LRS	Director of Engineering
Mark D. Shawl, RLA, LEED AP	Landscape Architecture
Ryan A. Seacrist	Land Development
Joseph A. Prine, EIT	Civil Engineering
Terry W. Queen	Construction Engineering and Inspection
Brian Kinzelman RLA, ASLA, AICP, LEED AP	Landscape Architecture and Master Planning
Andrew Knight, RLA	Landscape Architecture and Master Planning
Jeffrey Pongonis RLA, ASLA	Landscape Architecture and Master Planning
Casey Elmer, ASLA	Landscape Architecture and Master Planning
Gerald Forstater, PE, CSI, CBIE, PSE	Security Engineering
Thomas H. Pilson, IV	Security Engineering and Public Safety
Jason M. Delp, EIT	Security Engineering



C. Project Team

The project team must have expertise in the A/E areas previously mentioned and required to complete this project. Provide information on all other project consultants, sub-consultants, and firms proposed to be employed by the lead firm for this project.

GAI Firm Overview

Transforming ideas into reality for over 50 years, GAI is an employee-owned, multidiscipline 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 - Charleston
 500 Summers Street, 3rd Floor
 Charleston, WV 25301
 P: 304.926.8100
 F: 304.926.8180
www.gaiconsultants.com

Services Offered:

Environmental Engineering and Studies; Civil Engineering; Land Development; Transportation Engineering and Studies; Geotechnical Engineering; Structural Engineering; Cultural Resources; Construction Engineering and 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

Staff:

Over 800 employees corporate-wide

Revenue:

Over \$70 million annually

Ownership:

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



Northeast

- + Pittsburgh, PA
- + Murrysville, PA
- + Cranberry, PA
- + Altoona, PA
- + Du Bois, PA
- + Philadelphia, PA
- + Canonsburg, PA (Southpointe)
- + Mt. Laurel, NJ
- + Richmond, VA
- + Charleston, WV

Midwest

- + Cincinnati, OH
- + Columbus, OH
- + Erlanger, KY
- + Fort Wayne, IN
- + Indianapolis, IN
- + Valparaiso, IN
- + Scottsburg, IN
- + Green Bay, WI
- + Mayville, WI

Southeast

- + Charlotte, NC
- + Jacksonville, FL
- + Orlando, FL
- + Boca Raton, FL



MSI | KKG Firm Overview

MSI | KKG has made an impact on the design and planning fields with creative solutions to a diversity of design challenges. A combination of creative problem solving and technical expertise has resulted in hundreds of built projects on the landscape of Central Ohio and beyond. With a studio of gifted professionals and a guiding principle of design excellence, MSI | KKG strives to raise the standard of landscape architecture, land planning, and urban design services. The success of MSI | KKG is based on a team of design and planning professionals driven to push each project to a higher level of quality. With backgrounds in landscape architecture, planning, urban design and architecture the staff brings a broad range of skills, creativity and experience to each project. From concept to construction detailing, an emphasis on innovation is the hallmark of our design studios. With offices in Columbus, Ohio; Covington, Kentucky; Indianapolis, Indiana and Pasadena, California, we house a wealth of practical experience and are able to provide a complete range of planning, urban design and landscape architectural services and consulting. The diversity of projects and the consistent high-quality design expertise has created a growing sphere of recognition and respect for MSI | KKG in the industry. From city parks to theme parks, and from communities to campuses, the work of MSI | KKG has generated a network of satisfied clients and users throughout the region, the country and abroad. With the goal of meeting new design challenges with fresh ideas, MSI | KKG is at the forefront of the profession, leaving as a legacy the beauty of its craft on the landscape.

Campus Planning and Design

Our campus planning professionals have chosen to focus their careers on institutional projects. For each campus we strive to bring new ideas and creative ways of thinking about familiar and unique issues. We develop plans and ideas that provide a thoughtful, logical and solid yet flexible path to the future. Our design professionals bring a comprehensive understanding based on extensive experience with both planning and built projects at a wide range of public and private institutions. Our goal is to produce the highest level of design and service within our clients' budgets, schedule and constraints, resulting in quality built spaces.

PSE Firm Overview

Professional Systems Engineering, LLC (PSE) provides engineering, planning, design, and construction services for security, safety, communications, protection, fire systems, and related infrastructure to meet critical homeland security protection requirements.

Our consultants, engineers, and designers have provided superior systems for the highest state-of-the-art facilities in their class. These include airports, chemical, pharmaceutical, transportation, corporate energy, utility, ports, justice and correctional facilities, and emergency 9-1-1 centers. PSE is familiar with enterprise and newer digital systems and infrastructure through intensive education and training, as-well-as hundreds of projects.



PSE is a nationally recognized firm with many honors and distinctions for innovative design. Showcasing PSE as a world leader in security design, National Geographic recently featured one of our projects on *MegaStructures*, a program about the world's most incredible engineering feats and greatest structures ever created.

Comprehensive Assessment Capabilities

Working collaboratively with clients, architects, design professionals, and the entire project team, PSE facilitates project planning with the goal of overall systems' quality. Our comprehensive services range from a single study, report, or schematic design, on through to comprehensive services with complete documentation and construction management.



The PSE team provides risk assessment services using our own site facility assessment guides for program management of access systems; analysis of management and security activities such as visitor and cargo/truck processing, parking, and other areas. Our team members are familiar with regulatory standards and requirements of the American Chemical Manufacturers Association, DOD, DOE, DHHS, DOI, Department of Treasury, EPA, and DHS - Office of Infrastructure Protection, TSA, ICE, and U.S. Border Patrol.

Homeland Security

The Department of Homeland Security necessitates the use of performance based standards as found in the Code of Federal Regulations to prevent and protect against attacks, safeguard continued operation, and comply with federal requirements. PSE covers sectors such as Energy, Chemical, Pharmaceutical, Transportation, Healthcare and Agriculture.

Our ability to meet the demands required by the Department of Homeland Security and the Code of Federal Regulations are a testament to the capabilities we provide. By meeting the best practices and performance based standards required in each sector, PSE is capable of providing specific recommendations, operations, and designs.

Following DHS regulations and screenings, understanding and dissecting the Code of Federal Regulations, our services ensure new and existing sites are prepared for terrorist activities, sabotage, natural disasters, and crisis recovery.

Facility Hardening

Facility Hardening requires the evaluation of the risks and threats making a facility vulnerable to internal and external threats. Catastrophic events are reviewed, both natural and man-made, intentional and unintentional, as well from insiders and outsiders.

D. Ability to Complete Project

Provide a statement of the firm's ability to handle the project in its entirety.

GAI has the staff and resources required to handle this project in its entirety. The key GAI staff members on this project are all located in GAI's Charleston office, and have the capacity to begin this project immediately, upon receipt of an executed contract from the State of West Virginia. With more than 800 engineers, planners, scientists, landscape architects, GIS specialists, and technicians corporate-wide, GAI is equipped to provide extra support staff, should the need arise.

GAI and MSI | KKG have worked together on numerous projects across West Virginia, Ohio, and Pennsylvania, including the City of Charleston Comprehensive Plan, and are fully equipped to team on this important effort. PSE's specialists are committed to this project, and have the capacity and resources to provide security consulting to the team throughout the project.

E. Work Product Ownership

Provide a statement of the firm's acceptance and full understanding that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.

GAI understands and accepts that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate. GAI will retain copies of all work produced as a result of the contract for its records.



F. Litigation or Arbitration

Provide a description of any litigation or arbitration proceedings, including vendor complaints filed with the State's Purchasing Division, disputes with other Agencies of the State of West Virginia that involved legal representation by either party relating to the firm's delivery of design services, if applicable. Also, any disputes with other Agencies of the State of West Virginia that involved legal representation by either party.

GAI has not been involved in any litigation or arbitration proceedings with the State's Purchasing Division or other Agencies of the State of West Virginia.



Resumes

David Gilmore, RLA, ASLA

Corporate Practice Area Leader – Landscape Architecture

Education

B.S. Landscape Architecture 1988, West Virginia University

Registrations/Certifications

Council of Landscape Architectural Registration Board Certified

Professional Landscape Architect

West Virginia No. 247

Indiana No. LA 20700137

Pennsylvania No. LA 002737

Ohio No. LA 0801200

Kentucky No. LA 768

Maryland No. 3574

North Carolina No. 1632

Relevant Training/Courses

Harvard Leadership Training

GAI Leaders to Watch

GAI University Advanced Project Management Training

Affiliations

American Society of Landscape Architects, ASLA, West Virginia Chapter

Council of Landscape Architectural Review Board

WVASLA State Licensing Board Member

Past President, WVASLA

Executive Committee Member, WVASLA

Chairman, WVASLA Licensing and Sunset Review Committee

Judge, Senior Design Awards, West Virginia University

Professional Summary

Mr. Gilmore specializes in land development and landscape architectural services. The central focus of his practice is on the continued development of GAI's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all offices and clients. He has served as project manager on various jobs, overseeing scheduling, personnel, design and client communication.

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 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.

Professional Experience

Development / Site Planning:

- + Moses Residence
- + Chesapeake Energy Regional Headquarters, Charleston, WV (LEED Project)
- + Chesapeake Energy Field Office, Mount Morris, PA
- + 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 Offices, WV.
- + 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.

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.
- + MacCorkle Avenue Greenspace Improvements, Kanawha City, 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.

Hospitals / Institutional / Campus Planning:

- + National Youth Science Camp , Davis, WV.
- + 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.

Residential Planning & Landscape Design:

- + Over 500 Projects

Project Awards

Merit Award (WVASLA): 'Hyper' Employee Plaza, Main Entrance Improvements

Merit Award (WVASLA): Florida Street Revitalization Master Plan



James A. Hemme, PE, LRS

Director of Engineering

Education

M.B.A. Point Park University, Currently Enrolled

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

Registrations/Certifications

Professional Engineer: WV, No. 12195; KY, No. 25437; OH, No. 72851; IN, No. 10809277; PA, No. 75494; NY, No. 85794
Licensed Remediation Specialist, WV, No. 003

Relevant Training/Courses

Harvard Leadership Development Training, GAI Consultants, Inc., 2010
Advanced Project Management Training, GAI Consultants, Inc., 2009
Leaders to Watch Program, GAI Consultants, Inc., 2008
OSHA 40 hour HAZWOPER Training
NICET 1 Geosynthetics Installation Inspection (expired)
Nuclear Density Gage Training, DOT and NRC (expired)
MSHA Safety Training (expired)

Professional Employment History

Environmental Design Group, 2000-2006
Potesta and Associates, 1997-2000
Terradon Corporation, 1995-1997
Joyce Engineering, 1990-1995
Dewberry and Davis, 1989-1990

Professional Experience**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, WV.
- + 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.
- + Reviewed multiple playground components for compliance with the "Handbook for Public Playground Safety" published by the U.S. Consumer Product Safety Commission.
- + Assisted with designing ballfields, park facilities, and a large parking lot incorporating Bio-Retention/Treatment swales for treatment of stormwater in Stark County, Ohio.
- + 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.
- + Dupont 'Hyper' Plaza in Belle, West Virginia.

Civil Engineering and Permitting

- + Site design for 100+ 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 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.
- + Developed detailed designs for 100+ ponds at multiple sites throughout West Virginia and other states, including sediment ponds, treatment ponds, leachate storage ponds, and stormwater detention ponds. Work included hydrologic and hydraulic routing calculations, volume estimates, embankment design, treatment efficiency, dewatering calculations, etc.
- + 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.

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



Mark D. Shawl, RLA, LEED AP

Senior Project Landscape Architect

Education

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

Registrations/Certifications

Professional Landscape Architect, West Virginia No. 316

Professional Landscape Architect, North Carolina No. 1051

LEED Accredited Professional (United States Green Building Council)

Affiliations

American Society of Landscape Architects, ASLA

WV Chapter of American Society of Landscape Architects

Professional Employment History

Terradon, Inc., 2004-2006

Woolpert, 2001-2004

W. K. Dickson, 1998-2001

Concord Engineering and Surveying, Inc., 1996-1998

Greenscape, Inc., 1994-1996

Professional Summary

Mr. Shawl specializes in all aspects of landscape architectural design in both the public and private sector. His 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.

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:

- + Haddad Riverfront Park Improvements, Charleston, West Virginia
- + 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
- + Hospitals / Institutional / Campus Planning:
 - + North Carolina Arboretum Baker Exhibit Center, Asheville, North Carolina (LEED Project)
 - + Western Carolina University Tennis and Softball Center, Cullowhee, North Carolina



- + 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
- + Friendship Baptist Church Phase 2, Charlotte, North Carolina
- + Duke University Central Water Plant, Site Design, Durham, North Carolina
- + Bible Center Church Master Plan, Charleston, West Virginia
- + Bible Center Church Phase 1, Charleston, West Virginia
- + Tazewell Community Hospital Master Plan, Tazewell, Virginia
- + Four Seasons Wellness Center, Tazewell, Virginia
- + 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
- + Cabell County EMS Facility, Huntington, West Virginia
- + National Youth Science Camp Master Plan, Davis, West Virginia

Development / Site Planning:

- + Cheat Landing Office Park, Morgantown, West Virginia
- + The Villages at Cheat Landing, Morgantown, West Virginia
- + The Pines Country Club, Morgantown, West Virginia
- + Stonegate at Cranberry, Cranberry Township, Pennsylvania
- + Chesapeake Energy Regional Headquarters, Charleston, West Virginia (LEED Project)
- + Chesapeake Energy Field Office, Jane Lew, West Virginia
- + Chesapeake Energy Field Office, Mount Morris, Pennsylvania
- + Chesapeake Energy Field Office, Honey Branch, Kentucky
- + Chesapeake Energy Field Office, Mansfield, Pennsylvania
- + Shawnee Point Mixed-Use Residential Master Plan, Lake of Egypt, Illinois
- + Cleveland County Industrial Park, Cleveland County, North Carolina
- + Whitehall Retail Development, Charlotte, North Carolina
- + Stonecrest Retail Development, Charlotte, North Carolina

Residential Planning & Landscape Design:

- + < 50 Projects



Ryan A. Seacrist

Land Specialist

Education

B.S. Landscape Architecture, minor in
Philosophy 2010, West Virginia University

Relevant Training/Courses

36 Hour Richard Chin Army Corps of
Engineers Wetland Training Course

Affiliations

American Society of Landscape Architects,
West Virginia Chapter

Professional Employment History

Tim's Landscaping – Landscape Designer,
2009-2010

Professional Summary

Mr. Seacrist specializes in a broad range of skills within the practice of landscape architectural design, from residential landscape design to land development. His experience includes, but is not limited to: 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.

Mr. Seacrist is proficient in numerous computer programs, including Adobe Photoshop, InDesign and Illustrator, Google SketchUp, AutoCAD, ESRI ArcMap, and Microsoft Office. He also has experience in digital and physical modeling, technical drawings, such as grading and road alignment, and hand drawing.

Professional Experience**Institutional / Campus Planning**

- + Huntington East Middle School, Huntington, WV

Document Preparation

- + Assisted in editing the City of Charleston Stormwater Management Guidance Manual v1.0, Charleston, WV
- + Preparation of the National Center for Youth Science Education Project Resource Manual, Davis, WV

Streetscape Revitalization

- + City of Lewisburg Sidewalk Addition, Greenbrier County, WV. Assisted in construction document preparation.

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

Environmental

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

Permitting

- + Mary Ingles Trailhead Parking Lots, Winfield, WV



Joseph A. Prine, EI

Project Engineer

Education

B.S. Engineering Technology, Civil
Emphasis 2001, West Virginia University
Institute of Technology

A.S. Drafting and Design 2001, West
Virginia University Institute of Technology

A.S. Civil Engineering Technology 2001,
West Virginia University Institute of
Technology

Engineering Management Coursework,
Marshall University

Registrations/Certifications

Engineering Intern No. 8334

NICET Certified, Engineering Technology,
No. 103538

Military Awards

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

Relevant Training/Courses

Advanced Project Management Training,
GAI Consultants, Inc., 2009

OSHA 40 hour HAZWOPER Training

OSHA 10 hour Construction Industry
Training Program

Professional Employment History

Shaw Environmental & Infrastructure,
2006-2007

Environmental Design Group (now Floyd
Browne Group), 2001-2006

Professional Summary

Mr. Prine specializes in civil engineering and site development including streetscape design and planning. He has worked with private developers, architects, municipalities and government agencies. Mr. Prine has contributed to planning and design efforts for several community improvement and streetscape projects. He provides designs for large and small sites ranging in size 1 to 40+ acres, and highways and roadways, and assists in the preparation of design and construction plans, reports and cost estimates.

Mr. Prine specializes in environmental engineering including Phase 1 reports, environmental monitoring, permitting, and design. His civil engineering/site design experience includes stormwater management system design, earthwork estimating, and water and sewer line extensions. Mr. Prine 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.

Professional Experience**Environmental Engineering**

- + Anthony Correctional Center. Design of package water treatment plant for correctional facility.
- + Richard Mine AMD Flow Monitoring Study in Morgantown, West Virginia.
- + Spill Prevention Control and Containment (SPCC) Plans, CSX Railroad National Contract.
- + Facility Response Plans (FRP) Plans, CSX Railroad National Contract.
- + Rockport Terminal Tampa, Florida 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 Waste Water Treatment Plant in Clifton Forge, Virginia.
- + Environmental Emergency Responder to Train Derailment in Handley, West Virginia.
- + Site Monitoring and Cap Design for Remediation Site in Huntington, West Virginia.
- + QA/QC for Installation of New Groundwater Monitoring Wells in Scary Creek, West Virginia.



- + Brownfield Way Ground Water Monitoring Reports in South Charleston, West Virginia.
- + Nicholas County Landfill Design and Permitting: New Landfill Cells and General Site Engineering.

Land Development / Site Planning

- + Chesapeake Energy Regional Headquarters in Charleston, West Virginia, Leadership in Energy and Environmental Design (LEED) Project.
- + Chesapeake Energy Field Offices in Mount Morris, Pennsylvania, and Honey Branch, Kentucky
- + Detailed Site Design Aspen Village in Davis, West Virginia.
- + Ft. Boreman Development Master Plan Site Preparation and Roadway Design in Parkersburg, West Virginia.
- + Golf Club House and Lodge Site Development in Stonewall Jackson State Park, West Virginia.
- + Family Carpet Plaza-Site Design and Permitting in Parkersburg, West Virginia.
- + Storm Water Detention System, Melinda St. in Parkersburg, West Virginia.
- + Site Design for Schools Hannan, Wahama, New Haven, and Pt. Pleasant in Mason County, West Virginia.
- + Design of Storm Water Management System, Western Management in Parkersburg, West Virginia.
- + Preparation of Detailed Erosion and Sediment Control Plans.
- + Preparation of NPDES Construction Stormwater Permit Applications.

Streetscape and Trails

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



Terry W. Queen

Senior Technician

Education

B.S. Civil Engineering 2004, West Virginia University Institute of Technology
 Drafting and Design 1992, West Virginia Institute of Technology
 Math & Physical Education 1986, West Virginia Northern Community College

Registrations/Certifications

Troxler Nuclear Densometer Certified
 WVDOH Portland Cement Concrete Inspector
 WVDOH Compaction Inspector

Relevant Training/Courses

40-Hour Health and Safety Trained

Professional Employment History

Ultrasonic Specialists, Inc., 1994-1995
 Dan Hill Construction Company, 1989-1992
 D.E. Leonard & Associates, 1987-1988
 WACO, 1986-1987
 W&W Fabrication, 1984-1985
 Consolidated Coal Company, 1976-1984
 ESMER & Associates, 1974-1976

Professional Summary

Mr. Queen specializes in construction monitoring for impoundment, site closure, infrastructure and municipal projects. He provides drafting for site planning, earthwork detailing, and pre-mining and pre-blast surveys. Mr. Queen develops preliminary and final designs for mine reclamation sites and mining permits, and site development, and prepares construction drawings for highway and bridge projects. He compiles engineering data from a variety of sources; processes data using well-defined methods and presents data in prescribed formats.

Professional Experience**Construction Monitoring**

- + Monitored construction of 600,000 cubic yard rock buttress for a failed coal slurry impoundment. Work included monitoring of activities, troubleshooting, preparing daily logs and construction administration coordination for the West Virginia Department of Environmental Protection.
- + Monitored construction of municipal storm sewer project. Work included monitoring activities, troubleshooting, preparing daily logs and construction administration coordination for the Town of Gauley Bridge.
- + Monitored construction of approximately 30 miles of waterline. Work included monitoring installation activities, troubleshooting, preparing daily logs and approving pay item quantities for the West Virginia-American Water Company.
- + Construction monitoring for closure of municipal solid waste landfills. Work included monitoring construction activities, preparing daily reports and trouble shooting in Fayette, Kanawha, Mingo, and Braxton County, West Virginia for the West Virginia Division of Environmental Protection, Office of Waste Management. Closure activities included waste regrading, leachate collection and soil caps.
- + Construction monitoring for closure of the municipal solid waste Berkeley County Landfill in Berkeley County, West Virginia. Closure activities included regrading waste, intermediate cover, gas management, leachate collection and 125,000 square yards of HDPE geomembrane. Construction was completed over a two-year construction period.
- + Construction monitoring for closure of the municipal solid waste Mingo County Landfill in Mingo County, West Virginia. Closure activities included re-grading waste, intermediate cover, gas management, leachate collection, and 41,500 square yards of HDPE geomembrane.



- + Construction monitoring for cell expansion of a municipal solid waste and C&D landfill at S&S Landfill in Harrison County, West Virginia. Construction included earthwork, leachate detection and collection, clay liner, and geomembrane liners.
- + Construction monitoring for reclamation of a failed coal slurry impoundment. Construction included earthwork, rock buttress, and drainage channels.
- + Construction oversight for a landslide reclamation project of a valley fill in Fayette County, West Virginia. Construction included collecting drainage in rock drains, rock buttress, earthwork, and drainage channels.
- + Monitored construction of approximately 13 miles of waterline. Work included monitoring installation activities, troubleshooting, preparing daily logs and approval of pay item quantities for the Shortline Public Service District.
- + Kanawha Western Landfill. Construction monitoring for closure of municipal solid waste landfill. Closure consisted of West Virginia Subtitle "D" Closure Cap with leachate collection system. Monitoring included construction activities, preparation of daily reports, troubleshooting, approval of pay item quantities, and construction administration coordination for the West Virginia Division of Environmental Protection, Office of Waste Management.
- + Fayette County Landfill. Construction monitoring for closure of municipal solid waste landfill. Closure consisted of West Virginia Subtitle "D" Closure Cap with leachate collection system. Monitoring included construction activities, preparation of daily activity logs, troubleshooting, approval of pay item quantities, and construction administration coordination for the West Virginia Division of Environmental Protection, Office of Waste Management.

Civil Engineering

- + Assisted with preparation of air emission calculations as required by the Form R – Toxic Chemical Release Inventory Reporting Form (Year 2003) for AC&S, Inc.
- + Assisted with preparation of hydraulic/hydrology calculations, supporting documentation for engineering construction cost estimate, USACOE 404 applications, and grading of regarding of exposed refuse spoil piles for three projects in southern West Virginia for the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands.
- + Assisted with preparation of National Pollutant Discharge Elimination System (NPDES) Stormwater construction permits and erosion and sediment control plans for three natural gas transmission pipeline projects in eastern Pennsylvania and southern West Virginia for Columbia Gas Transmission Corporation.
- + Drafted preliminary roadway alignment, drainage structures, right-of-way, cut/fill lines to WVDOH standards for the South Side Bridge Ramp Replacement Project for the City of Charleston.
- + Preliminary and final site planning design of Abandoned Mine Lands (AML) sites for the West Virginia Division of Environmental Protection. Surveying, design drafting, site grading, haul roads, and drainage design.
- + Prepared construction documents for the Mill Creek Regional Water Supply Extension Project, Logan County, West Virginia. Project included design of water treatment plant, two water tanks, three booster stations, two master meter assemblies, and approximately 34 miles of waterline; and preparation of drawings. Drawings included 51 plan drawings using aerial photography as base mapping.
- + Prepared construction documents for the Cow Creek - Sarah Ann Water Supply Extension project in Logan County, West Virginia. Project included design of three water tanks, three booster stations, one master meter assembly, and approximately 19 miles of waterline; and preparation of drawings. Drawings included 38 plan drawings using aerial photography as base mapping.
- + Prepared construction documents of a 10-mile waterline in the Olive/Marshville/Catfish Hollow communities in Harrison County, West Virginia including surveying, subsurface investigation, and preparation of drawings, technical specifications, permit applications, construction quantities, and a cost estimate.





Experience

As Co-founder and Senior Principal of MSI | KKG, Brian has more than 34 years experience in landscape architecture and planning with principal leadership and project management on hundreds of projects. His professional background includes extensive experience in large scale land use planning, campus planning, urban design and mixed use development, development guidelines and streetscape enhancement/corridor planning. His projects have been recognized with numerous awards by local chapters of the American Society of Landscape Architects.

Education

The Ohio State University
Bachelor of Landscape Architecture, 1977

Registration

Registered Landscape Architect, WV, OH, KY, IN, TN, PA, CLARB
Certified Planner, APA
LEED Accredited Professional

Boards & Commissions

Board of Directors, Neighborhood Design Center, Columbus, Ohio
Ohio State University Knowlton School of Architecture Alumni Society, Past Board of Governors

Professional Affiliations

American Society of Landscape Architects, American Institute of Certified Planners, American Planning Association, Ohio Chapter
Urban Land Institute

Honors & Awards

2011 Ohio State University Distinguished Alumni Award for Excellence in Engineering & Architecture

Recent and Current Projects

County/ Municipal Facilities

- Franklin County Government Center
Master Site Plan
Columbus, Ohio
- Franklin County Courthouse
Columbus, Ohio
- Franklin County Pavilion
Columbus, Ohio
- Columbus Municipal Campus
Master Plan
Columbus, Ohio
- Old Police Headquarters Renovation
and Addition (120 West Gay Street)
Columbus, Ohio

Federal Facilities (Personal Experience)

Department of Defense:

- F.E. Warren Air Force Base -
Housing Improvements
Cheyenne, Wyoming
- Dover Air Force Base, Delaware -
Planning & Housing Improvements
- Edwards Air Force Base, California -
Landscape Improvements
- Hanscom Air Force Base -
Housing Improvements &
Bachelor Enlisted Quarters
Boston, Massachusetts
- North Truro Air Force Base -
Housing Improvements
Boston, Massachusetts
- Wright Patterson Air Force Base -
Bachelor Enlisted Quarters
Improvements
Dayton, Ohio
- Tinker Air Force Base - Architectural &
Environmental Standards
Oklahoma City, Oklahoma
- Roosevelt Air Force Base, New York -
Architectural Design Guidelines
- Living Air Force Base, Maine -
Architectural Design Guidelines
- Beale Air Force Base, California -
Architectural & Environmental
Standards
- Guantanamo Bay Naval Base Planning
Guantanamo Bay, Cuba

Department of State:

- US Embassy Improvements
New Delhi, India
- US Information Services Facility
Lahore, Pakistan



Experience

Andrew Knight's strengths lie in a holistic approach to design. His experience with a variety of project types, expresses an integrated process where master planning, wayfinding, landscape architecture, and architecture provide a larger framework for design. Andrew's portfolio ranges from small scale projects to the planning of campuses and cities, reinforcing his belief in the importance of every project contributing to the larger community. He has a passion for successfully realizing high quality design, advocating design excellence through integrated design and close collaboration with clients, users, consultants, contractors, and designers. In addition to his professional experience, Mr. Knight has served as a lecturer and educator in the fields of landscape architecture, urban design, and architecture.

Education

The Ohio State University, Master's of Landscape Architecture, 2002
University of Tennessee, Bachelor's in Landscape Design, 1998

Registration

Registered Landscape Architect, State of Kentucky

Honors & Awards

Knowlton School of Architecture, Honor Award for Excellence in the Study of Landscape Architecture

Recent and Current Projects

Planning & Urban Design

- Karamay, Education and Engineering Campus
Karamay, China
- 2nd Street Streetscape
Louisville, Kentucky
- University of Kentucky Coldestream Campus Master Plan
Lexington, Kentucky
- Nulu District Master Plan
Louisville, Kentucky

Healthcare

- Children's Hospital Expansion and Renovation
Columbus, Ohio
- NOVI / Providence Park Hospital Expansion
Detroit, Michigan

Educational Facilities

- Miami University Psychology Building
Oxford, Ohio
- Riverwoods Environmental Education Center
Whitley County, Kentucky
- University of Louisville Oval Commons
Louisville, Kentucky
- Bowling Green State University Master Plan
Bowling Green, Ohio

Parks / Landscape Architecture

- Fairview Park
Louisville, Kentucky
- McCornell Springs Wetland Park
Lexington, Kentucky
- VA Cemetery
Greene County, Kentucky
- Portland Wharf Park Master Plan
Louisville, Kentucky

Corporate

- Tencent Seatront Headquarters
Shenzhen, China

Public

- Lyric Theatre Renovation
Lexington, Kentucky
- Kentucky Military History Museum
Frankfort, Kentucky
- Edone Center National Guard Army Joint Forces Facility
Frankfort, Kentucky



Experience

As an Associate Principal at MSI | KKG, Jeff is committed to design hinged on the development of honest and timeless space at all sizes and scales. His practice is based upon the principle that meaningful and contemporary infrastructure systems of organized urban spaces, connected pedestrian ways, and substantial green corridors all prove crucial to the creation of a successful, human-scaled urban pattern.

Education

The Ohio State University,
Bachelor of Science Landscape Architecture, 1998

Registration

Registered Landscape Architect, State of Ohio

Boards & Commissions

Brewery District Commission Commissioner
North Market Board of Directors, 2012

Professional Affiliations

American Society of Landscape Architects
Urban Land Institute
1000 Friends of Central Ohio

Teaching

The Ohio State University, Adjunct Professor, 2000-present

Recent and Current Projects

Planning & Urban Design

- Brewers Yard Master Plan
Columbus, Ohio
- Burnham Square
Columbus, Ohio
- Cleveland State University Master Plan
Cleveland, Ohio
- CCAD Master Plan Study
Columbus, Ohio
- Louisville Urban Connectivity Plan
Louisville, Kentucky
- Red Hills - White Fence Farms
Tallahassee, Florida
- River South Master Plan
Columbus, Ohio
- Shaker Square Master Plan
Shaker Heights, Ohio
- The Districts of Zanero
Glendale, Arizona
- The North Shore
Pittsburgh, Pennsylvania
- The Waterfront Town Center
Pittsburgh, Pennsylvania
- The Y District
Cleveland, Ohio
- Village of New Albany Master Plan
New Albany, Ohio

Landscape Architecture

- Allied Insurance Headquarters
Des Moines, Iowa
- Arena Crossing
Columbus, Ohio
- Brewers Yard
Columbus, Ohio
- Burnham Square
Columbus, Ohio
- CCSI Science Park
Columbus, Ohio
- Crouker Park
Westlake, Ohio
- Frestone Alley at The Bugabones
Columbus, Ohio
- Jones-Day Corporate Office
Columbus, Ohio
- Lodiw Alley
Columbus, Ohio
- McFerson Commons
Columbus, Ohio
- North Bank Park
Columbus, Ohio



Experience

Mr. Elmer, a graduate of the Harvard GSD, is a landscape designer and researcher at MSI | KKG who has become aware of the often overlooked importance of the role of infrastructures and systems of energy, ecology and economy in re-establishing the region as the lowest common denominator for solving the major crises we face as we move towards globalization. His professional work and research strives to address the challenges of rising sea-levels, interregional watershed cooperatives, and understanding and improving the systems of energy, food, water, waste and transportation via soft, decentralized infrastructures that respond to the economic, ecological and energy-driven demands of an advancing urban and peri-urban society.

Education

Harvard University, Graduate School of Design, Master of Landscape Architecture, 2011

Purdue University, Bachelor of Landscape Architecture, 2009

Professional Affiliations

American Society of Landscape Architects

Honors & Awards

ASLA Student Honor Award in Analysis and Planning, 2010

ASLA Certificate of Honor, 2008

Donald J. Molnar Award, 2008

Eagle Scout Award, 1996

Recent and Current Projects

Planning & Urban Design

10 West Nationwide Boulevard
Columbus, Ohio

Nationwide Children's Hospital MP
Columbus, Ohio

Lynn / Pearl Street Corridor
Enhancements
Columbus, Ohio

Capitol Square SID Development
Columbus, Ohio

SID Bike Shelter Installations
Columbus, Ohio

Jeffrey Place Development Master Plan
Columbus, Ohio

North Market Expansion
Columbus, Ohio

Health South Development Master Plan
Columbus, Ohio

Columbia Gas Building in Arena District
Columbus, Ohio

Nationwide Corporate Expansion
Raleigh, North Carolina

Parks / Landscape Architecture

Nationwide Children's Hospital Park
Columbus, Ohio

Limited Brands Campus Master Plan
Columbus, Ohio

Research

Dordrecht Regional Energy Data Plan
Dordrecht, Netherlands

Franco Sea Level Rise Energy MP
Fiumicino, Italy

Designing the Ecology of Democracy:
the National Mall and Union Square
Washington, DC

Colorado River Watershed: A Geospatial
Problematic
Southeast, United States

Competitions

Stored Potential 2: Global
Transportation Infrastructures

Mimicking Nebraska's Crops
Omaha, Nebraska



Gerald Forstater, PE, CSI, CBIE

Chief Engineer

Expertise

- *Security Systems*
- *Security Evaluation & Surveys*
- *Security Design & Planning*
- *Security Commissioning*
- *Security Systems Integration & Design*
- *Perimeter Security Counter Measures*
- *Access Control*
- *Digital CCTV Surveillance*
- *Parking Garage Security*
- *Security Safety Programs & Training*
- *Teleconferencing, Audio & Video*
- *Communications and Signaling*
- *Telecom, Intercom & Radio Paging*
- *Network Infrastructure*
- *Technology Selection*
- *Audio & Video Recording Systems*
- *Touchscreen A/V Control*
- *RFP Preparation*
- *Project Scheduling*
- *Cost Estimation of Systems*
- *Master Planning*

Security Clearances

*City of Philadelphia Division of
Aviation Security Badge*

Experience Summary

Mr. Forstater founded PSE in 1986, focusing on design and engineering of communications and protection systems to meet critical requirements in special environments. His specialty is developing technologically advanced, system-wide solutions for justice, courts, police, correctional, and juvenile facilities. Under his leadership, the firm has tackled many "first of its kind," large-scale projects, becoming known for innovation in courts, video arraignment, conferencing, and communications systems with associated network infrastructure and connectivity.

Mr. Forstater is often quoted in national publications, authors technical articles, and provides training to information technology and security professionals. With 30 years of project experience, he has served hundreds of government, institutional, corporate, and industrial clients on projects totaling over \$3 billion in construction costs. Projects typically involve RFP development, master planning, vendor bid selection, phasing and scheduling, technical and personnel resource allocation, costing, master planning, commissioning, and other services. As Chief Engineer, Mr. Forstater ensures quality deliverables and client satisfaction for all PSE projects.

Education

- B.S. with Distinction, Engineering, Worcester Polytechnic Institute, 1982
- Graduate Studies, Engineering, Drexel University
- Government Security/US Law Enforcement/Homeland Security Courses.
- Certificate in Executive Management / Wharton – University of PA

Registration/Certification

- Registered Professional Engineer: PA, OH, KS, NJ, NY, CT, OH, DE, MD, VA, MA, MI, CA, TX.
- National Council of Examiners for Engineering and Surveying (NCEES), Professional Engineering Registration
- National Institute for Certification in Engineering Technologies (NICET), Fire Protection Engineering Technology, Automatic Sprinkler System Layout, and Fire Alarm Systems
- Construction Specifications Institute (CSI)
- Certified Building Inspection Engineer (CBIE)

Awards

Awarded the 2011 Security Innovation Gold Medal Award presented by Security Technology Executive magazine for the Saint Elizabeth Hospital Project, Washington DC at ASIS International 2011.

Outstanding Engineering Achievement Award 2007 from the Pennsylvania Society of Professional Engineers (PSPE) for high-tech security systems at North Branch Correctional Institution super-maximum correctional facility in Maryland

Specialized Training 2008

Advanced Security Training in Israel with emphasis on hospital and mass casualty environments for securing high traffic medical facilities, and reduction of progressive collapse from blast and seismic effects.

Society Memberships

American Society for Industrial Security (ASIS)

American Correctional Association (ACA)

American Institute of Architects, Allied Member (AIA)

Building Officials and Code Administrators (BOCA)

Delaware Valley Acoustical Society of America (DVASA)

Institute of Electrical and Electronics Engineers (IEEE)

National Fire Protection Association (NFPA)

Key Project Experience

- Principal-in-Charge for security system design for Clay Center for the Arts and Sciences of West Virginia.
- Principal-in-Charge of Franklin County Courthouse, Ohio, for engineering and consulting. Critical systems include monitoring and controlled access systems, card access protection, elevator and secure corridor protection, digital television surveillance, weapons detection and screening, interior building security, interior communications, and duress monitoring stations, security intercom system, and monitoring of power supplies (UPS) and fire alarms.
- Principal-in-Charge for a Master Plan Study at the Philadelphia International Airport for security, communications, networks, and infrastructure aspects. Also included is the development of a business model process responsive to multiple emergency / threat scenarios. The outcome of this project is an Emergency Operations Center and a strategic communications plan.
- Principal-in-Charge of extensive electronic renovations to Delaware County Courthouse and associated Government Complex buildings, PA. This included audio, intercom, video, security, card access, parking control, and judges' chamber protection system for 120,000 sq. ft. facility.
- Principal-in-Charge for multiple projects for the historic Philadelphia Zoo including site-wide CCTV Security, Voice Data Backbone replacement, site-wide System Access Control, Fire Alarm and Wireless Public Announcement Systems.
- Principal-in-Charge for CITGO Petroleum – Texas and Louisiana Port Security. Client requirements included homeland security threat assessment and enterprise level security improvements including perimeter enhancements, credentialing requirements, CCTV surveillance, command and control center issues and site physical security.
- Principal-in-Charge of design for renovation of courtroom technology systems, tele/data, and security systems for Kent County Courthouse Complex, Delaware. Courtroom technology design provides video display for each courtroom, evidence presentation systems, video annotation system, court reporting system, courtroom audio recording system, touchscreen A/V control, and a digital matrix audio mixing system. Communications design includes tele/data system, CCTV, and video messaging.
- Principal-in-Charge for fire safety retrofit for Lincoln University, including smoke detection, alarm evaluation, access control, security and fiber loops for the entire campus.



Thomas H. Pilson, IV

Project Manager/Director of Public Safety Services

Homeland Security Projects

- *Comprehensive Security Site Planning*
- *Security Measures for Access Control*
- *Facility Expansion*
- *Security Assessment*
- *Secure Fencing and Detection*
- *Site Security Management*
- *Central Control Operations*
- *Life Safety Improvements*
- *Digital and Analog Communications Systems*

Expertise

- *Incident Command Management*
- *Continuity of Operations*
- *Policies & Procedures*
- *Post Orders and Training*
- *Building & Perimeter Security*
- *Security Operational Procedures*
- *Digital Technology*
- *Master Control and Command*
- *Computer Systems Security*
- *Network Operations*
- *Project Management*
- *Security & Emergency Training*
- *Touch Screen Control Systems*
- *Programmable Logic Controls*
- *Fire Alarm Systems*
- *Intrusion Detection*
- *Secure Locking*
- *Wireless Duress*
- *Digital Video Surveillance*

Experience Summary

Mr. Pilson has 15 years of distinguished service as a facilities practitioner with specialization in policy and procedures, security, and technologies. As Coordinator of Information Systems and Security for a large facility, he was responsible for ensuring that day-to-day operations were not impeded by security related problems. This experience afforded him the opportunity to work closely with government officials, as well as with law enforcement officials at all levels, security professionals, architects, engineers, and policymakers. Mr. Pilson has managed security enhancements for numerous new construction and expansion projects as part of physical building upgrades. His knowledge of physical security, electronic security, detention hardware, access control, CCTV, automation, video recording and control center design is based on 15 years of hands-on experience in management, design, and training. Site expertise includes ultra-high security access control, fencing, perimeter detection, and surveillance.

Education

- Pursuing B.S., Information Technology, University of Massachusetts, projected completion in 2012 with Honors
- Certificate in Security Management & Homeland Security, University of Massachusetts
- Certificate in Information Technology, University of Massachusetts
- Certificates in Continuity of Operations and Incident Command Systems – FEMA

Specialized Coursework

- Incident Command System
- Incident Command System for Single Resources and Initial Action Incidents
- Continuity of Operations (COOP) Awareness Training
- Computer Systems Security

Key Project Experience

- Mr. Pilson is responsible for fire safety and evacuation planning and training at Saint Elizabeths Hospital in Washington, DC – a \$135 million expansion project.
- Responsible for the development of policies and procedures for security operations including security training at Saint Elizabeths Hospital in Washington, DC – a \$135 million expansion project. He is also a member of the commissioning team for physical and electronic security systems.

Certification

- *U.S. Department of Homeland Security – Chemical Terrorism Vulnerability*
- *Continuity of Operations – FEMA*
- *Incident Command Systems - FEMA*

Society Memberships

Treasurer for Juvenile Detention Centers Association of Pennsylvania, Administrative Counsel & Member of Legislative, Automation & Training/Education Committees

Key Project Experience (continued)

- Project Manager and Security/Hardware Specialist for Wishard Memorial Hospital Replacement Facility, Indianapolis, Indiana. Provided door hardware for the correctional portions of the hospital. This included development of detention hardware sets, specifications, and inclusion of the detention hardware sets into the door schedule.
- Hardware Specialist for door hardware at Coppin State University, Baltimore, Maryland. PSE provided design and engineering services for electronic security to include video surveillance systems, access control, and intrusion detection.
- Detention Hardware Specialist for SCI Skippack East and SCI Skippack West, Skippack, PA. Reviewed prototype drawings, documents, and physical buildings, attended construction meetings with owners and contractors, provided detention hardware specifications/bridging documents. This project required pneumatically operated detention hardware for the entire facility.
- Project Manager for Sedgwick County Adult Detention Facility, Wichita, Kansas provided analysis and assessment to determine existing conditions of security control systems, detection hardware, infrastructure, and power source. This involved an evaluation and inventory of existing equipment and current operating conditions of all security and detention related devices.
- Project Manager and Security/Hardware Specialist for GRI Facility, Africa a 4,000 bed facility to be built over the next 4 years. The scope of work included Corrections Consulting based upon international and US Prison Standards, security control systems, life safety systems, detention hardware, tele/data systems, and perimeter fencing.
- Project Manager for Travis County Jail, Austin Texas smoke detection and sprinkler additions. Reviewed contractor shop drawings, issued engineering review notes in regards to shop drawings, attended teleconferences with owner and contractor to discuss design aspects and details for the shop drawings.
- Project Manager for Travis County Correctional Complex, Buildings 140 and 160 located in Austin, Texas. This project provided planning, design, and construction documents for the upgrade of existing control systems to a complete integrated security control and communication system at Travis County's maximum security men's building and medium/maximum security women's building.



Jason M. Delp, EIT

Partner/Projects Director/Project Manager

Areas of Expertise

- *Security Systems*
- *Telecom/Datacom*
- *Educational Technologies*
- *A/V Systems*
- *Access Control*
- *Intercom Systems*
- *Locking Systems*
- *Data Networks*
- *Infrastructure*
- *Equipment Room Layout/Planning*
- *Detention Controls*
- *GUI Controlled Security*
- *High Security Fit-Out*
- *Digital CCTV Surveillance*
- *Duress Alarms –
Wired and Wireless*
- *Fire Alarm and Detection Systems*
- *Broad Band Voice/Data/Video*
- *Emergency Egress*
- *Security Commissioning*
- *Security Testing*
- *Contractor Closeout*
- *Digital Documentation*
- *Specifications*
- *Pneumatic Controls*
- *Touch Screens*
- *Fiber Optic Systems*
- *Programmable Logic Controllers*

Security Clearances

- *City of Philadelphia Division of
Aviation Security Badge*

Experience Summary

Mr. Delp has served as project engineer and manager for the past eight years for long-range, multi-phased, complex projects spanning several years for government agencies and corporate clients. His technical ability to execute fast-track and nuanced projects within budget and on-schedule reflects his superior knowledge of translating and communicating engineering solutions into project deliverables. His engineering expertise and project management in advanced systems includes designs for Security, A/V, Telecom/Datacom, Instructional Technology, and Fire Alarm systems.

Mr. Delp's special areas of expertise include client account management, commissioning, and contractor start-up services in the areas of forensic evaluation and investigations, psychiatric facilities and hospitals, educational institutions, adult and youth corrections/justice/courts, and various other facilities nationwide.

Education

- B.S., Electrical/Computer Systems Engineering, Rensselaer Polytechnic Institute, 2003

Registration

- Engineer in Training.

Experience

- Project Manager for the Port Authority of New York and New Jersey (PANYNJ), New York and New Jersey Ports provided project to assess and secure all marine berths and dock access to MARSEC (Marine Security) areas along entire New Jersey coastline, Staten Island, and Brooklyn. The size of this project included multiple sites in NJ and NY.
- Project Manager for security systems for St. Elizabeths Hospital in Washington DC, an over 425,000 sq. ft. mental health hospital. This project included an integrated security management system, integrating access control, CCTV, intercom, perimeter security, and duress alarm system. PSE provided full commissioning services including reviewing test procedures and on-site witnessing of contractor testing.
- Project Engineer for systems upgrades at Lehigh County Courthouse, PA. Upgrades included holding/detention control systems, courts security and associated building security communications, and electronic security system. Authorized specifications, conducted field audits, and responded to client communications.

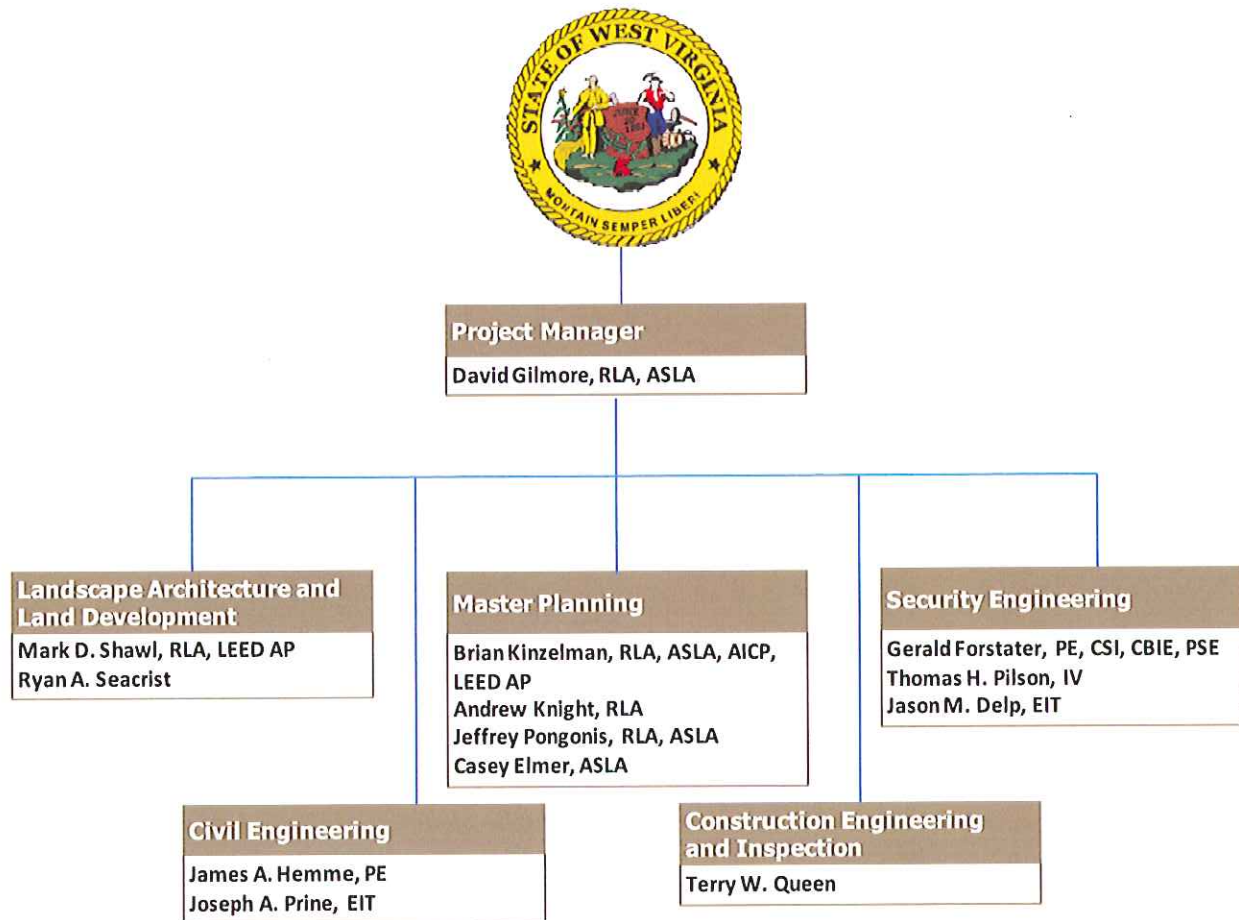
- Lead Investigator for the design analysis for the replacement of the Saint Lucie Nuclear Power Plant's Perimeter Intrusion Detection System (PIDS), Hutchinson Island, Florida. Services included surveying and researching existing conditions of the system, assessment of the security requirements (based on U.S. Nuclear Regulatory Commission Criteria), and design of replacement system. Included in our design were replacement methods, phasing requirements and opinion of probable cost.
- Design Engineer for Clifton T. Perkins Hospital Center (Maximum Security Facility) Jessup, Maryland. This State forensic hospital represents a \$5 million security and data/telecommunications upgrade to door/access control, duress, patient care, digital networked CCTV, PLC control, intercom, and new data center for a \$15 million project including a new housing unit. The most current digital electronics were employed for the special and uniquely violent, psychologically impaired individuals held at this facility.
- Design Engineer for CITGO North American Headquarters, Houston, TX. Included design of security data control room and command center using the Lenel Systems platform, smartcard credentials, retinal scan biometrics, and high security portal design.
- Design Engineer for Amtrak 9-1-1 Nationwide Call Center Dispatch Client requirements included 150 positions of computerized call taking and records management for public safety emergency and medical response for national coverage by Amtrak's police force and over 1,000 jurisdictions throughout the U.S. and Canada.
- Project Engineer for the new Hicksville Parking Facility, Town of Oyster Bay, New York. Provided design of security, communications, fire detection, and electronic systems. The designs consist of the latest IP-based video surveillance, access control, and emergency call systems as well as a Distributed Antenna System.
- Project Manager for Delco Emergency Operations Center Renovation, Delaware County, Pennsylvania. Provided project management, consulting, design coordination, contractor oversight, and scheduling for an equipment and technology upgrade of the EOC's telecommunications, A/V, IT, and electrical systems.
- Project Engineer for fire safety retrofit for Lincoln University, including smoke detection, alarm evaluation, access control, security and fiber loops for the entire campus.

C. Project Organization

Project Management

Mr. David Gilmore will manage the project out of GAI's Charleston Office. Mr. Gilmore has extensive experience working with the City of Charleston, and has provided leadership on many high profile projects in the City including the Haddad Riverfront Park and Kanawha Boulevard Streetscape. He is currently leading the City of Charleston Comprehensive Planning Project in conjunction with KKG. Mr. Brian Kinzleman will provide leadership from MSI | KKG. Mr. Gerald Forstater will provide leadership from PSE.

Organizational Chart



Office Locations

Work on the project will be managed out of the GAI-Charleston Office.

GAI Office Location: 500 Summers Street, 3rd Floor
Charleston, WV 25301

PSE Office Location: Pennbrook Business Center
1010 Church Road
Lansdale, PA 19446

MSI | KKG Office Location: 462 S Ludlow Alley
Columbus, Ohio 43215



D. Demonstrated Experience

The following projects demonstrate our ability to execute project similar to the Capitol Campus Security Project. The managing personnel, David Gilmore (GAI), Brian Kinzleman (MSI | KKG), and Gerald Forstater (PSE) have more than 70 years of combined experience in evaluating and designing similar projects.

DEA Field Office Site Design-Build

Allegheny County, Pennsylvania

GAI provided full site design services for a new 43,000 sq. ft. Drug Enforcement Administration (DEA) field office situated on a 6.4-acre reclaimed surface coal mine site in Kennedy Township. GAI teamed with two clients for this design-build project, Oxford Development Company and Rycon Construction. Their combined experience with projects of this nature, including those with security considerations, brought this Leadership in Energy and Environmental Design (LEED®) certified project to successful completion.



GAI was responsible for site design and permitting, including utility infrastructure design (public water system, storm and sanitary sewers) and access road design. GAI also prepared a traffic study to evaluate the project's impact on the local roadway network. GAI's environmental assessment of the site addressed topography, geology and soils, cultural resources, wetlands and floodplain, and existing utilities.

Services Provided:

- + LEED certified project
- + Perimeter site security considerations
- + Site planning and design
- + Surveying
- + Stormwater management design
- + Phase I environmental site assessment
- + Erosion and sedimentation control design and permitting
- + Landscaping
- + LEED Services

Project Size: 43,000 sq ft

Client: Oxford Development Company (Developer), Rycon Construction, Inc. (Design-build Contractor)

Owner: Drug Enforcement Administration

Completion Date: 2005



National Center for Youth Science Education Master Plan

Pocahontas County, West Virginia

The National Center for Youth Science Education (NCYSE), also known as the "Youth Science Camp", is being relocated from its historic leased property in rural Pocahontas County to a prestigious, environmentally sensitive facility located on its own property adjacent to the Blackwater River in Tucker County, West Virginia. The new facility has plans to eventually operate year round providing a wealth of educational outreach programs, while still maintaining the core focus of the "Camp" during the summer months.

GAI Consultants, Inc. (GAI) provided master planning and schematic design services for the proposed National Center for Youth Sciences Camp property located at Davis, West Virginia. GAI was involved with initial programming and scope development for the project, as well as site analysis for the entire property, which included hydrology, soils, slopes, geology, wetlands, vegetation and wildlife. Additionally, GAI was responsible for combining the site analysis information and creating a preliminary land use plan and concept plan in order to generate a cost opinion.

Services Provided

- + Data collection
- + Land use planning
- + Utility design
- + Site analysis/geological review
- + Landscape architecture
- + Master planning
- + Engineering
- + Permitting review
- + Access road design
- + Trail design



Project Size: 100 acres

Client: Perfido Weiskopf Wagstaff + Goettel

Owner: National Center for Youth Science Education

Completion Date: 2011

Major Accomplishments:

- + GAI's services helped the National Youth Science Center make better-informed decisions in site development and land use, as well as during construction.
- + Pennsylvania AIA Honor Award Winner



Haddad Riverfront Park Master Planning

Kanawha County, West Virginia

GAI Consultants 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 pavillion 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.

Services Provided:

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

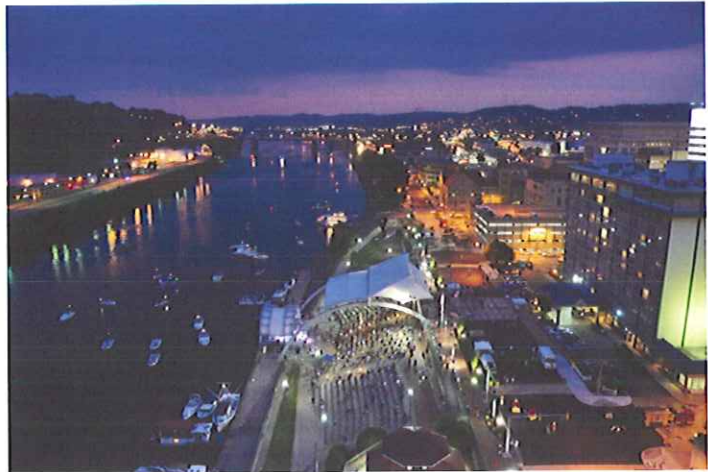
Project Size: 4 acres

Owner: The City of Charleston

Completion Date: 2010

Major Accomplishments:

- + Taking a different approach, GAI presented an initial design that encompassed and connected all four parts of the entire project. The design was highlighted by a grand staircase that would lead to the proposed amphitheater, which serves to open the park to Kanawha Boulevard, making it an integrated part of downtown Charleston.
- + 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.



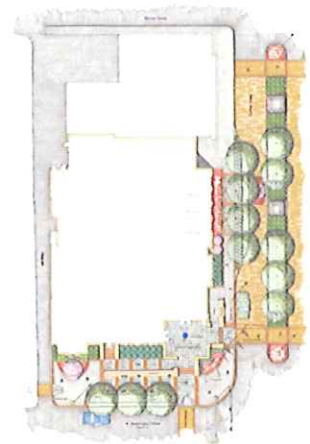
Morgan County Courthouse

Morgan County, West Virginia

GAI was contracted by Silling Associates Architects to provide site design services for the new Morgan County Courthouse located in historic Berkeley Springs, West Virginia. The project included preliminary site master planning, utility design, grading, and site drainage. Also, included in the tasks was coordination of site design with a streetscape plan that had been initiated prior to the start of GAI's site design. The site supports a three story, 13,415-square-foot courthouse building that will support many of Morgan County's judicial offices including Magistrate Court, Family Law Court, and Circuit Court.

Services Provided:

- + Preliminary master planning and design
- + Coordination of utilities
- + Utility design



- + Grading
- + Site drainage
- + Landscaping/site amenities
- + Coordination of design with local streetscape committee

Project Size: 13,415 sq ft

Owner: Morgan County, WV

Completion Date: 2009

Raleigh County Courthouse Site Development

Raleigh County, West Virginia

GAI prepared a site construction package for the Raleigh County Courthouse.

Services Provided:

- + Civil engineering
- + Site Development
- + Landscape architecture
- + Security

Project Size: 1 city block

Client: Silling Associates, Inc.

Owner: Raleigh County, West Virginia

Completion Date: 2009

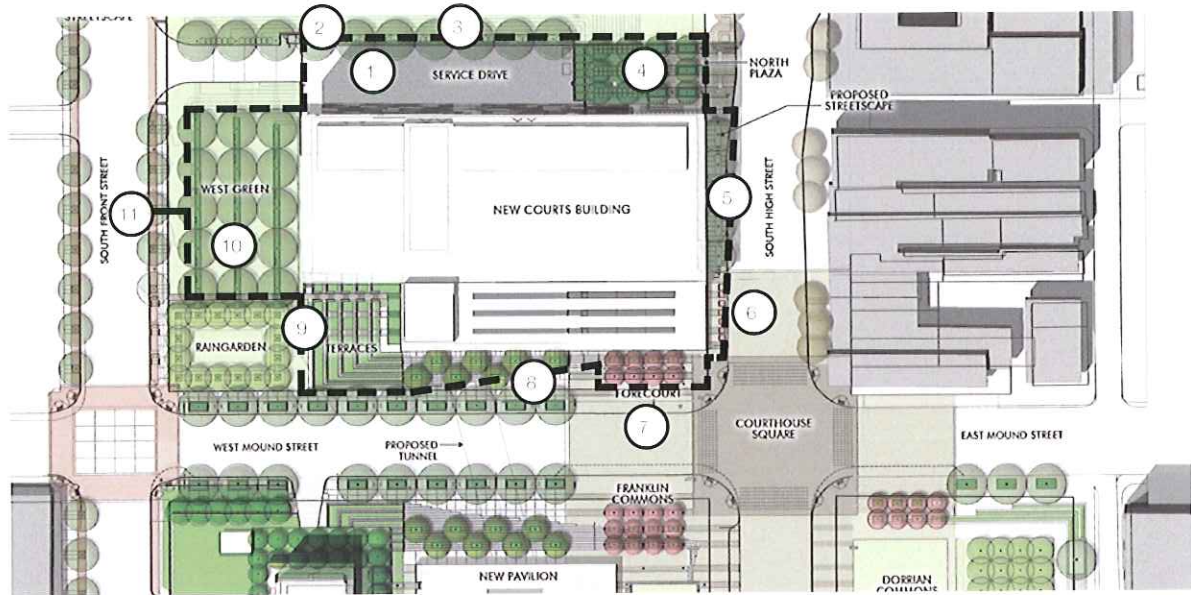




As a precursor to the design of the New Courts Building and New Entrance Pavilion, KKG collaborated with the Architectural Teams to develop an urban design framework and Government Center Master Site Plan for the comprehensive re-visioning of the downtown civic campus. The first phases of the Franklin County Government Center Master Plan include the New Courts Building, Government Center and Entrance Pavilion fronting on the "Courthouse Square," a major new civic space and southern gateway to downtown Columbus at Mound and High Streets.

The new Franklin County Courthouse (New Courts Building) transforms an entire city block of surface parking into a community centerpiece for Franklin County citizens with a series of high quality urban spaces including an entrance forecourt, pocket parks, seating terraces and new streetscapes. Recycled and regional materials, daylighting, passive solar design and the use of drought tolerant plant materials are incorporated in the design. The Courthouse is a LEED Gold certified building, demonstrating the Franklin County Commissioners commitment to environmental stewardship and the latest green building technologies. A highly visible rain garden at the corner of Front and Mound Street uses the latest rain water harvesting and sustainable storm water management concepts as well as preserves valuable green space for public use and enjoyment. The project also accommodates alternative transportation modes including a bike lane on Mound Street and well-distributed bike parking throughout the site.

As part of the site design process, KKG collaborated with a security consultant to develop recommendations for campus security. Based upon requirements for the project, national standards, and industry best practices, the security consultant prepared a Security Threat Assessment and a Security Master Plan for the new County Courts facility. KKG developed a vehicular obstruction boundary that utilized grade changes and the strategic placement of site amenities including stairs, walls, planters, lights, street trees, fencing, bollards, and utility cabinets to result in a visually integrated design solution that provides the required security level while appearing open and welcoming in the civic environment.



- 1 Security gate to access Service Court and structured parking
- 2 Guard House
- 3 Fence integrated with grade changes and landscaping at perimeter of Service Court
- 4 Raised planters for urban pocket park provide seating and removable bollard provides maintenance access
- 5 Streetscape elements include raised seatwall planter, light and flag poles, waste receptacles, street trees
- 6 Precast concrete planters allow pedestrian access to the main entrance forecourt
- 7 Planters and stairs frame the main entrance forecourt
- 8 Monumental stairs with seatwall planters provide visual relief and shaded seating
- 9 Terrace walls provide for rain garden infiltration and storage while transitioning grade changes to street level
- 10 West Green provides concrete benches, planted terraces and street trees
- 11 Vehicle obstruction boundary

client: Franklin County Public Facilities Management

contacts: contractual/administrative – Jim Goodenow, Director, Franklin County Public Facilities Management,
373 S. High St., Lobby Level, Columbus, OH 43215. 614.525.6058

technical performance – Richard Myers, Assistant Director, Construction, Franklin County Public Facilities
Management, 614.525.5344

size: 4-city blocks (Master Site Plan) / 4.5 acres (Courthouse)

date completed: 2011

cost: \$90 million total: \$4.46 million(site)

award: 2011 Harrison W. Smith Award

Franklin County Government Center Entrance Pavilion

Columbus, Ohio



The urban framework of the New Entrance Pavilion transforms an underutilized plaza into an appropriate front door and Lobby for the Government Center complex south of Mound Street. The site design complements the New Courts Building north of Mound Street with a redeveloped Franklin Commons fronting on the Courthouse Square that will feature a public art installation. Amenities include a similar array as those provided at the New Courts Building, including seating terraces and stairs to mitigate the slope of Mound Street and hosts a varieties of activities for visitors and government center employees. It is framed by new streetscapes along High and Mound implemented with a complete streets methodology to provide multimodal connectivity and ADA access within the campus and the surrounding River South district.

The Courthouse Square is a major new civic open space and southern gateway to downtown Columbus at the crossroads of Mound and High Streets. It reinforces the monumental presence of the Government Center and serves as the major defining town square and activity hub for the County campus by hosting a variety of civic functions, street vendors, and other uses.

The Pavilion structure provides a new main entrance for the Government Center complex and reorients wayfinding and orientation to the corner of High and Mound streets. Once inside the security envelope of the buildings, a tunnel provides connection between the Pavilion and Courthouse.

client: Franklin County Public Facilities Management

contact: Jim Goodenow, Director

614.525.6058

size: 1.3 acres

date completed: 2011

cost: \$18 million total; \$2.34 million(site)

Municipal Campus Master Plan

Columbus, Ohio



KKG was the Urban Designer and Landscape Architect engaged on this comprehensive urban plan to guide the long-term government facilities improvements and expansion for City of Columbus. The plan:

- Re-establishes the city grid corridors to facilitate pedestrian movement and connect the downtown to the riverfront park system and bike trails;
- Identifies new public open space to support civic, commercial and residential users;
- Identifies future building/parking, integrates sustainable storm water management strategies;
- Preserves and enhances the existing historic landscape of City Hall, and;
- Provides for the adaptive re-use of the 109 North Front Street building.

A central pedestrian promenade was designed for perimeter security and secure entrance to the underground garage developed for use by City staff and Mayor.

client: City of Columbus

contact: Steve Lewie, Project Manager, Construction Management Division

City Hall, 90 W. Broad St (B-41), Columbus, OH 43215

614.645.3787

size: 2-city blocks

date completed: 2009

Franklin County Courthouse & Secure Parking

Security Planning, Design, and Engineering

Columbus, Ohio

This project consists of the design of a modern court facility for Franklin County Courthouse in Columbus, Ohio. The court system serves a large county population with over 100,000 person-visits per year. The Courthouse will be occupied by a variety of departments having overlapping security needs. The new structure will be integrated with the existing campus of buildings. The security aspects of the integration requirements include high volume screening, blast mitigation reviews, and digital video throughout.



Professional Systems Engineering, LLC applied two key philosophies in the design of the security systems. The first was the concept of simple operational security. The system design focused on not only providing the best level of security but also stresses a "simple to operate" and "easy to maintain system." PSE believes that if systems are not easy to operate, these systems will not be fully implemented. The end result of a complex security system could be a breakdown in a facility's overall level of security.

Our second key philosophy was the design of integrated systems. Modern security systems incorporate a collection of subsystems. Traditionally, these systems would each be an independent standalone system. The system provided for in this project will call for each subsystem to be interfaced in a manner which will allow the system to share information and automatically respond to events.

Technologies

- ❖ IP security system
- ❖ PLC system control in holding cells, segregated from courthouse access control system
- ❖ Monitoring and controlled access systems
- ❖ Card access protection
- ❖ Elevator and secure corridor protection
- ❖ Digital television surveillance
- ❖ Weapons detection and package screening
- ❖ Interior building security for door monitoring and control, power backup, interior communications, and duress monitoring stations
- ❖ Security intercom system
- ❖ Monitoring of critical support systems, such as uninterruptible power supplies (UPS) and fire alarms
- ❖ Physical security control and monitoring of exterior access to secure parking and sallyport entrances



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Clay Center for the Arts and Sciences

Museum and Performing Arts Security

Charleston, West Virginia

While security is the central focus, its visual prominence blends with the aesthetic to avoid out-of-place disharmony. The result is a safe, welcoming place for young and old alike to enjoy its many offerings.



The Clay Center for the Arts and Sciences is one of the most ambitious cultural and educational projects in the history of West Virginia. It is a culmination of two decades of planning and construction in the state's capital city. The Clay Center includes a premier art museum, a first-class performing arts center featuring a performance hall, a state-of-the-art science center with two floors of exhibit space, a planetarium, a 70-mm large-format film theater, as well as virtual and hands-on educational programs.

Professional Systems Engineering, LLC designed the security system on a fast track schedule. The following planning engineering services and tasks were included in this project.

Planning:

- ❖ Secure site analysis
- ❖ Physical and electronic security recommendations
- ❖ Security report with basis of design guidelines
- ❖ Inconspicuous security to assure aesthetic blend
- ❖ Coordination with interiors/architectural needs
- ❖ Secure planning for varied exhibits and performances

Services:

- ❖ Assisted owner during bidding process and aided in evaluation of bids
- ❖ Reviewed all schedule of values, subcontractors, shop drawings, product data, samples, applications for payment, and change orders
- ❖ Performed job-site inspections during progress meetings
- ❖ Determined the dates of substantial and final completion
- ❖ Prepared punch lists
- ❖ Conducted closeout project site walk-through

Security:

- ❖ CCTV surveillance
- ❖ Digital recording systems
- ❖ Card Access control
- ❖ Museum grade CCTV design
- ❖ Complete door security/control
- ❖ Full motion/heat/acoustical detection systems

