

Baker

Michael Baker Jr., Inc.
A Unit of Michael Baker Corporation

5088 West Washington Street
Second Floor
Charleston, WV 25313

304.769.0821 Phone
304.769.0822 Fax

September 8, 2010

Ms. Krista Ferrell, Senior Buyer
State of WV Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, West Virginia 25305-0130

**RE: Expression of Interest to Provide Architectural / Engineering Design Services
GSD106430 – Capitol Complex Exterior Lighting
State of WV – General Services Division**

RECEIVED

2010 SEP -8 PM 12:27

Dear Ms. Ferrell:

WV PURCHASING
DIVISION

We appreciate the opportunity to respond to the Request for Expression of Interest in the evaluation and redesign of the exterior lighting at the West Virginia Capitol Campus. Michael Baker Jr., Inc., Charleston WV office, has teamed with Gary Steffy Lighting Design Inc. to provide the combined skills and experience required to address this important project on the West Virginia Capitol Campus. It is our understanding that the state intends to evaluate and redesign, and enhance the exterior lighting at the Main Capitol Building, East Wing, and West Wing, the North and South Plazas and other areas of the campus. The purpose of the project is to analyze the existing exterior lighting systems, electrical systems supporting the exterior lighting and to redesign and prepare bid documents for the renewal of the exterior lighting at the Main Capitol Building and surrounding areas and provide the completed ACAD documents and specifications to the Owner.

Michael Baker Jr., Inc. and Gary Steffy Lighting Design (the Baker team) are ideally suited for this renovation and enhancement project. Our Principal and project staff is very familiar with the Capitol Complex having recently completed historic research, a survey of utilities and an existing conditions assessment of the West Virginia Capitol Master Plan. Our proposed team for the Capitol Exterior Lighting project is:

- Michael Baker Jr. Inc, Project Management and Electrical Engineering, Russell Hall, PE, Project Principal and Ron L. Bolen, RA, AIA, Project Manager
- Gary Steffy Lighting Design Inc., for Lighting studies and redesign, Gary Steffy, Principal, and Gary Woodall, Project Manager

These team members bring all the technical and design skills required to complete this work and have scoped and planned the work effort together efficiently and effectively. With these diverse areas of expertise, this team will bring all the required professional and technical skills to the project.

The overall approach to this project would follow these steps:

- Survey existing lighting conditions and the existing electrical systems supporting the exterior lighting.

- Report existing lighting and electrical conditions, as well as, life safety and utilities issues to GSD.
- Prepare Schematic Design Documents and Preliminary Budget.
- Prepare Design Development Documents and Refined Budget.
- Prepare Construction Documents and Final Budget.
- Provide Construction Administration.

In our multiple related projects we have identified three logical components that will also apply to the WV Capitol Exterior Lighting project. Each component requires a sequential approach to developing the knowledge base and proceeding with the design and construction documents process.

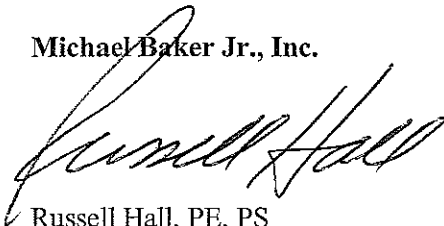
The team has reviewed the terms and conditions of this Expression of Interest as set forth by the Purchasing Division and will fully comply with those terms and conditions. It is fully understood that the vendor relationship is that of an independent contractor. The term of contract is 12 months and may be renewed as necessary to obtain a new contract or complete the work. Insurance coverage at the appropriate levels is in place. No price or fee was requested or permitted and none has been included. Form WV-1 Vendor Registration has been provided as well as a signed affidavit indicating that no debit is owed to the state. Michael Baker Jr. Inc. business and professional licensing is in place. Confidentiality in the preparation of this EOI is certified. There is no conflict of interest, no gratuities have been extended and no lobbying effort. The required forms are included in the binder for this EOI response.

The Baker team is pleased to submit this Expression of Interest in the project at the West Virginia Capitol to address the exterior lighting evaluation and redesign. We appreciate your consideration and would be pleased to respond to any questions and to participate in the interview process.

On behalf of the team,

Sincerely,

Michael Baker Jr., Inc.



Russell Hall, PE, PS
Project Principal

Executive Summary

The State Capitol has served the citizens and Legislature of West Virginia well for over 70 years. However, due to age, additional space needs, requirements of the Legislature, revisions to building codes, security and safety issues, the Capitol Complex exterior lighting is in need of renovation. The objectives of the Capitol Exterior Lighting Plan are to analyze the existing condition of the facility campus, and to develop construction plans and specifications, a cost plan, and a phasing strategy to address the long term vision for a complete exterior lighting renovation of the Capitol complex.

The proposed project envisages a full renovation of the exterior lighting at the WV State Capitol Complex with a view to a broader rehabilitation and revitalization proper functioning of the State Capitol is an essential attribute of the vitality of the state. This, in its turn, will bring cultural, social and economic benefit to every aspect of the state.

As successfully implemented, the WV State Capitol Complex exterior lighting project will bring about a culturally, economically and socially significant outcome which will go beyond the boundaries of site and local community and acquire a regional dimension thus ensuring a long-term benefit to the state.

The renovation of WV State Capitol Complex exterior lighting will renew West Virginia's unique character, spirit and heritage. To achieve inviting, accessible, safe, and secure night lighting of a design appropriate to the Capitol Complex the following goals are proposed:

- Identify and prioritize the immediate and long term needs and improvements for the exterior lighting of the Capitol grounds, and develop a phased implementation plan for creating the long term value.
- Enhance the Capitol as an inviting open campus for the local community while maintaining and promoting the State Capitol as an attractive destination for tourists and visitors.
- Ensure the Capitol's longevity through code updates, and infrastructure improvements while preserving the historic elements and character of the Capitol grounds.
- Improve security, safety, accessibility and way-finding within the Capitol grounds for all employees, daily users and visitors.
- Establish and implement lighting strategies using state of the art energy efficient lamps, luminaries, and controls to respect the sensibilities of sustainable practice while honoring the history and place of the Capitol.

The outstanding historical and cultural value of the State Capitol, as well as its excellent location, adjacent to the Kanawha River, and marvelous landscape, make the site an attractive destination as well as a pleasant environment for the state employees and daily users. The rehabilitation of the exterior lighting of the WV State Capitol Complex will elevate the importance of the regional tourist itinerary which, in turn, will help revitalize the entire region.

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: Michael Baker Jr., Inc.

Authorized Signature: *Russell E. Hall* Date: 9/8/2010

State of West Virginia

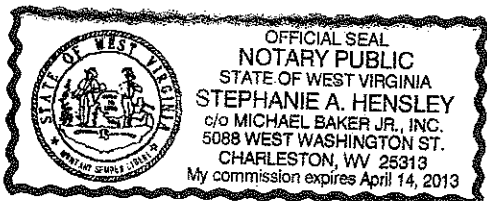
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 8th day of September, 2010.

My Commission expires April 14, 2013.

AFFIX SEAL HERE

NOTARY PUBLIC *Stephanie A. Hensley*





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

Request for Quotation

RFQ NUMBER
GSD106430

PAGE
1

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

PURCHASING

*709015418 02 304-769-0821
**MICHAEL BAKER JR INC
 5088 W WASHINGTON ST 2ND FLR
 CHARLESTON WV 25313**

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
08/08/2010				

BID OPENING DATE: **09/08/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07	N/A	N/A
<p>A&E SERVICES: CAPITOL COMPLEX EXTERIOR LIGHTING</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 BIDS TO PROVIDE THE AGENCY WITH ARCHITECTURAL AND ENGINEERING SERVICES TO EVALUATE EXTERIOR ELECTRICAL LIGHTING CONDITIONS, DESIGN REPAIRS AND UPGRADES, AND ADMINISTER THE RESULTING CONSTRUCTION PROJECTS RESULTING FROM THIS EXPRESSION OF INTEREST 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 MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 08/24/2010 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Kenneth Hall* TELEPHONE 304-769-0821 DATE 9/8/10

TITLE Project Principle FEIN 251228638 ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

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

PROPOSER

***709015418 02 304-769-0821**
MICHAEL BAKER JR INC
5088 W WASHINGTON ST 2ND FLR

CHARLESTON WV 25313

SHIP TO

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

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BID OPENING DATE: 09/08/2010 BID OPENING TIME 01:30PM				

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
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I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

- NO. 1 dated 9/3/2010 to answer all technical questions.
- NO. 2
- NO. 3
- NO. 4
- NO. 5

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

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

.....
 SIGNATURE
 . Michael Baker Jr., Inc.
 COMPANY
 .. September 8, 2010
 DATE

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE <i>Russell Hall</i>	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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3

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

PROPERTY

***709015418 02 304-769-0821
 MICHAEL BAKER JR INC
 5088 W WASHINGTON ST 2ND FLR
 CHARLESTON WV 25313**

SHIP TO

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08/08/2010				

BID OPENING DATE: **09/08/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<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 style="text-align: center;">NOTICE</p> <p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED EOI</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>EOI. NO.: GSD106430</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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4

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

PROBITY

*709015418 02 304-769-0821
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 5088 W WASHINGTON ST 2ND FLR
 CHARLESTON WV 25313

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08/08/2010				

BID OPENING DATE: **09/08/2010** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				EOI OPENING DATE: 09/08/2010		
				EOI OPENING TIME: 1:30 PM		
				PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: 304-769-0821		
				CONTACT PERSON (PLEASE PRINT CLEARLY): Russell Hall, PE, PS (Principal-In-Charge) or Ron Bolen, RA, AIA (Project Manager)		
				***** THIS IS THE END OF RFQ GSD106430 ***** TOTAL:		N/A

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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INTRODUCTION

The West Virginia Department of Administration, General Services Division (GSD) is seeking a highly qualified team experienced in program management, planning, design, and construction administration for evaluation and redesign of the exterior lighting plan for the West Virginia State Capitol Complex that will be both functional and architecturally compatible with the existing facilities. Michael Baker Jr., Inc. (Baker) is a highly qualified firm with extensive experience in providing these services, and we are extremely interested in continuing to establish a professional relationship with the West Virginia Department of Administration, General Services Division.

To begin this process, we have reviewed the Request for Quotation, and portions of the Capitol Master Plan, to familiarize ourselves with the project and to assess the existing conditions. Baker has assembled a team of highly qualified individuals, and a lighting consultant specialized in exterior lighting planning of these types of projects.

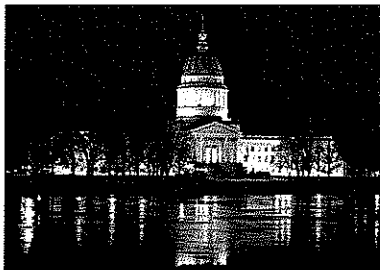
Baker has formed an association with the renowned practice of Gary Steffy Lighting Design Inc., (GSLD), a lighting design firm with a wealth of experience in capitol campus lighting projects. GSLD will assist in the assessment, design, and construction administration.

Team Services

- Architecture
- Building Information Modeling (BIM)
- Computer Aided Facility Management (CAFM)
- Condition Assessment
- Electrical Engineering
- Facilities Program Management
- Feasibility Studies
- Fire Protection Engineering
- Geographic Information Systems
- Interior Design & Space Planning
- Landscape Architecture
- Lighting Design
- Maintenance Management Systems
- Master Planning
- Mechanical Engineering
- Site and Civil Engineering
- Structural Engineering
- Sustainable Design

4.2.1 CONCEPT

Provide a general discussion of the project and the firm's approach to addressing issues and concerns including anticipated concepts, proposed methods of design and project sequence as explained in the Background, General Requirements, and Project Description.



Baker's proposed approach to this project will require a collaborative effort with the WV Capitol to assess the shortcomings of the existing site lighting and clearly understand the GSD's conditions of satisfaction for the project, balancing the desired aesthetic effects with an energy conscious design. These topics, as well as the schedule and budget for the project, will be explored at a project kick-off meeting (Lighting Committee Meeting 1), after which the Baker team will commence the initial phase. The initial phase involves investigating the conditions of the existing exterior lighting, including the luminaires, circuiting, and control systems. Based on our findings from this investigation and our understanding of the conditions of satisfaction, we will develop concepts and make recommendations to GSD for the upgrades to the WV Capitol exterior lighting. These recommendations will be reviewed with the client (Lighting Committee Meeting 2), using plans, cutsheets, sketches, and computer-generated light renders to communicate the visual effects of the proposed lighting design.

Upon approval from the client of the design recommendations, the Baker team will proceed with Construction Documents. This phase will follow a specified process with established milestones for the WV Capitol's approval in order to maintain target dates to meet GSD's conditions of satisfaction. At the

conclusion of the Construction Documents phase, drawings and specifications will be delivered to the client for bidding, procurement, and installation of the work.

The Baker team will continue to support the GSD during the construction phase, answering bid questions, developing clarification sketches or other documents as necessary, providing periodic site observations, reviewing submittals, and answering RFIs (contractors requests for information to clarify the design). The primary purpose of these activities is to assure the WV Capitol that the installation is proceeding in accordance with the intent of the design.

The specific scope of services that support this approach is outlined below.

Scope of Services

Phase 1 – Comprehensive Exterior Lighting System Evaluation

The lighting design effort involves the following general aspects. Electrical, civil, architectural, and landscape architectural work will support these efforts.

Task 1 – Survey Existing Conditions

1. **Survey existing exterior lighting conditions:** Document existing luminaire types and locations and their nighttime effects as documented by horizontal and vertical illuminance measurements using a Konica-Minolta T10 light meter.
2. **Report existing exterior lighting conditions:** Provide annotated plans and bound report outlining existing lighting equipment and conditions.
3. **Identify and verify the existing electrical utility service lines serving the exterior lighting and assess their condition.** Annotated site plans will be prepared indicating location of existing lines, and current conditions, what upgrades may be required, and proposed new installations for the re-design of the site lighting system.

Task 2 – Schematic Design

1. **Identify and verify existing power sources and control systems for the exterior lighting.** This task will tabulate the existing panel locations (normal and emergency power), conduit and wire sizes, approximate date of installations (if readily available), voltage, amperage, and control methods for the existing exterior lighting. Annotated plans will be used as necessary to convey findings indicating recommended upgrades.
2. **Develop design criteria and preliminary design scheme:** Establish program, criteria, and preliminary scheme: Based on documented lighting conditions, client and team input, and design practice, develop a proposed program of visual hierarchies, site needs, and related lighting criteria. Develop a light map consisting of annotated plans and elevations with preliminary proposed lighting effects, intensities, and coverages for both aesthetic and functional needs.
3. **Develop preliminary opinion of probable cost:** Provide preliminary budgeting. Present for client review.
4. **Present Schematic design and preliminary budget:** Meet with the Lighting Planning to Committee to review and discuss the design and verify the scope is within the established project budget.

Phase 2 – Design and Construction

Task 3 – Design Development

1. **Design Development:** Refine program and scheme to reflect findings in Schematic Design and address ongoing client and team input. Develop tentative lighting plans and outline specifications based on lighting calculations and mockups. Provide refined budgeting. This Task will involve several iterations and interim reviews with the Lighting Planning Review Committee to appraise GSD of the design evolution, gain consensus from the committee, and check that the budget is being adhered to.

Task 4 – Contract Documents

1. **Construction Documents:** Finalize lighting plans and specifications based on approved Design Development documents. Provide refined budgeting and implementation priorities. Present for client review.
2. Review contractor proposals and assist in evaluating best value to the client.

Task 5 – Construction Administration

1. Review shop drawings and submittals for conformance to the design requirements. Provide periodic site observations to assure GSD that the work is proceeding in accordance with the design intent.
2. Answer requests from the contractor to clarify design or address unanticipated field issues.
3. Review contractors' requests for payment for congruence with actual installed work.
4. Observe contractors' on aiming and orientation of lighting as necessary to achieve the designed effect.
5. Check installation for correct lamp color and luminaire finish and optics.
6. Develop a punch list at substantial completion.

4.2.2 FIRM/TEAM QUALIFICATIONS

- a. *Provide the name, address, phone number, e-mail 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.*

Firm name and address: **Michael Baker Jr., Inc.**
5088 West Washington Street,
Second Floor
Charleston, West Virginia 25313
Phone: 304-769-0821

Contacts: Principal-In-Charge, Russell Hall, PE, PS
304-769-2154 (Direct)

Project Manager, Ron Bolen, RA, AIA
304-769-2133 (Direct)

Baker Michael Baker Jr., Inc. (Baker). Headquartered near Pittsburgh, PA, Baker currently employs over 2,900, maintains 87 office and project locations domestically and internationally, and is publicly traded on the NYSE Amex exchange under the symbol, BKR. In 2009, the Company's continuing operations achieved total contract revenues of \$445.2 million. Engineering News-Record

(ENR) magazine currently ranks Baker in the top 10 percent of the 500 largest U.S. engineering firms (currently 36st in ENR's Top 500 Design Firms) and as one of the Top 25 engineering firms in a variety of markets, including transportation, airports, highways, bridges, water supply, pipelines, environmental site assessments and telecommunications.

The Baker Charleston office located in Cross Lanes, West Virginia currently employs over 35 persons with a variety of architectural skills ranging from architecture, interior design, mechanical, electrical, civil, landscape architecture, structural, and surveying.

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

Michael Baker Jr., Inc. Proposed Personnel	
Name	Function
Russell Hall, PE, PS	Principal-In-Charge
Ron Bolen, AIA	Project Manager
Ralph Deffenbaugh, PE, LEED AP	QA/QC Manager
Duncan Penney, RA, LEED AP	Life Safety Services
Tracy Rapp, PE	Electrical Engineering
Ron Schirato, PE, LEED AP	Utilities
Dave Hilliard	Utilities

Additional information on our proposed team is listed in Section 4.2.3 Project Organization, and full resumes are included in the tabbed resume section of this document.

- c. *The design team must have expertise in the A/E areas previously mentioned (exterior commercial lighting). Provide information on all other project consultants, sub-consultants, and firms proposed to be employed by the lead firm for this project.*



Gary Steffy Lighting Design Inc. Gary Steffy Lighting Design Inc. (GSLD) was founded in 1982 and is based in Ann Arbor, Michigan. Their work includes master planning, façade lighting, interior lighting, and site and landscape lighting.

Experience includes work on such landmarks as the Illinois Capitol, Kansas Statehouse, Michigan Capitol, Ohio Statehouse, and Virginia Capitol.



GSLD - Depot Landmark Buildings, Kalamazoo, MI

- *Façade & Site Lighting Design*
- *Interior Lighting Design*

GSLD's attention to a host of criteria achieves aesthetic, comfortable, productive and efficient visual environments. Energy and environment criteria are essential. Where historic fabric or project needs and lighting requirements conflict with specific sustainable scores, care is taken to honor the sensibilities of sustainable practice through use of well-controlled optics, glare shields, snoots, efficient lamps and luminaires, and recommended controls scenarios.

The firm's team members are well-versed in lighting criteria, with extensive background in Illuminating Engineering Society standards and practices. Lighting concepts are developed to meet users' visual needs while addressing energy and sustainability issues. The firm's knowledge on lamps and ballasts and lighting characteristics to be

expected from both modern and historic materials allows the development of restoration/ refurbishment schemes and, where necessary, aesthetically appropriate new and recreated lighting

equipment which also offers performance characteristics necessary to meet lighting criteria that people have come to expect in today's built environments.

Unique capabilities include the synthesis of such key parameters as: user perspective and sensitivity; quality of detail in fittings and finishes; quality of light, including historic lighting effects through appropriate color temperature and optical characteristics; energy efficiency; sustainability; and maintenance. The results are well-rounded and well-grounded lighting guidelines, recommendations, specifications, and layouts. Proficiency in electronic design media, including synthetic images on AGI32 helps the firm establish and demonstrate design recommendations prior to mockups or final design documentation.

Senior members of the lighting team are Lighting Certified with the National Council on Qualifications for the Lighting Professions and are members of the International Association of Lighting Designers.

Gary Steffy Lighting Design, Inc.	
Name	Function
Gary Steffy, IES, FIALD, LC	Principal Lighting Designer
Gary Woodall, IES, IALD, LC	Senior Lighting Designer
Erick Leninger	Assistant Lighting Designer

Firm principal, Gary R. Steffy, actively participates in project design and consultation. Quantitative and qualitative lighting criteria are pursued vigorously in achieving appropriate lighting solutions.

Full resumes are included in the tabbed resume section of this document.

Gary Steffy Lighting Design, Inc. has received a number of awards since the firm's founding in 1982 acknowledging exemplary work including:



LEED Gold/2009 - Acknowledging the team's efforts on Squire, Sanders, and Dempsey's Columbus offices.

AIA Honor Award/2005 - Acknowledging the team's restoration design of Hill Auditorium at the University of Michigan, Ann Arbor, Michigan.

Building Design + Construction Grand Award/2004 - Acknowledging the team's design for the Southfield Public Library, Southfield, Michigan.

GSLD – National Academy of Sciences, Washington, DC

- *Exterior Façade & Site Lighting*
- *Interior Historic Spaces Lighting Design*

Faith & Form Religious Architecture Merit Award/2004 - Acknowledging the restoration of The Cathedral of St. Andrew, Grand Rapids, Michigan.

AIA Honor Award/1996 - Acknowledging the restoration of the Michigan State Capitol, Lansing, Michigan.

Energy Efficiency in Lighting for Commercial Buildings Award of Excellence/1994

Presented by the Illuminating Engineering Society of North America, this award recognized the design team for leading-edge energy efficient lighting design on the MacArthur Foundation Headquarters.

National Preservation Award/1992 - Presented to the State of Michigan by the National Trust for Historic Preservation acknowledging the State of Michigan's effort to restore its 1879 statehouse.

National Historic Landmark Designation/1992 - Presented to the State of Michigan by the National Park Service acknowledging the landmark status of the restored Michigan Capitol.

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

The professional staff at Baker, and our subconsultant, GSLD, has the educational background, experience, and technical knowledge to undertake this Capitol Complex Exterior Lighting Project.

Tracy Rapp, P.E., Baker's proposed electrical engineer has 26 years of experience in electrical design, has provided electrical engineering services for numerous renovation projects, and is familiar with the design standards and workings applicable to this project.

Our subconsultant, **Gary Steffy Lighting Design, Inc.** has performed projects related to the services required by the GSD. Examples of these projects include the following:

Illinois Capitol: Site, façade, and interior public spaces lighting master plan of the 1879/1888 capitol. Completed 2009. [Illinois State Capitol, National Register 85003178]

Kansas Capitol: Interior and exterior architectural lighting design on restoration and rehabilitation of the 1873/1903 statehouse, including Visitors' Center expansion. Commenced 2001 ongoing through 2011. [Kansas State Capitol, National Register 71000330]

Michigan Capitol: Site, façade, and interior public spaces lighting design on restoration and rehabilitation of the 1879 statehouse. Completed 1992. [Michigan Capitol Building, National Register 71000396]



GSLD – Ohio Judicial Center, Columbus, Ohio

- *Exterior Façade Lighting Design*
- *Interior Public Spaces Lighting Design*

Ohio Supreme Court: Interior and exterior architectural lighting design consultation on restoration of the 1933 Ohio Departments Building public areas and courtrooms, hearing rooms, and facade. Completed 2004. [Ohio State Office Building, National Register 90001908]

University of Michigan Hill Auditorium: Interior and exterior/site architectural lighting design on restoration, rehabilitation, and expansion of the 1913 3700-seat auditorium and plaza. Completed 2004. [University of Michigan Central Campus Historic District, National Register 78001514]

Virginia Capitol: Interior and exterior architectural lighting design on restoration, rehabilitation, and expansion of the 1789/1906/1960 statehouse, including underground expansion and Bank Street Entry. Completed 2007. [Virginia State Capitol, National Register 66000911]



Baker – Hickory Street Bridge, Warren, PA

- *Lighting Design*
- *Bridge and Roadway Design*
- *Construction Phase Services*

- e. *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.*

We understand that any work produced as a result of this contract will become the property of The State of West Virginia, Department of Administration, and can be used or shared by the Agency as deemed appropriate.

- f. *Provide evidence of the firm's ability to formulate designs in conformance with all local, state, and federal regulations applicable to the project. These requirements shall include building exterior lighting and related life safety code requirements.*

The Outdoor Architectural Lighting design will comply with all State of West Virginia and City of Charleston Zoning Ordinance (Section 22-040-08), local electric utility company (AEP) requirements (where applicable), and the requirements of the National Electrical Code and the National Electrical Safety Code.

While developing the WV Capitol Complex Master Plan it was necessary to review the current campus utilities including electric power and other in-ground service feeds. Baker has worked with representatives from American Electric Power Company regarding power feeds both to and around the campus, the West Virginia Office of Technology regarding campus fiber optic cabling, Verizon Corporation on phone lines and the GSD regarding private power feed to campus buildings and site electric power and lighting feeds.

The lighting design development will consider the City of Charleston Zoning Ordinance as it may relate to light trespass and light pollution and will include any applicable requirements outlined in the Illuminating Engineering Society of North America (IESNA) Publication RP-33-99, Lighting for Exterior Environments; and Publication DG-13-98 Selection of Photo-controls for Outdoor Lighting Applications. The project manager and project staff have worked closely with the WV State Fire Marshal's office. We will coordinate throughout the project for a smooth review process with that state agency.

All building exteriors require lighting in accordance with life safety code requirements. Baker has provided these services to nearly every project we have designed. Project examples include:

- Research and Development Facility, Fairmont, WV
- West Virginia University. Open-End Architectural/Engineering Services, including New Life Sciences Building; Wise Library Renovation and Expansion; and New Student Recreation Center
- Campus-Wide Life Safety System Upgrades for the University of Pittsburgh Oakland Campus, Pittsburgh, PA.
- Airside Business Park Master Planning and Design Services, Moon Township, PA
- Flex Office/Warehouse Buildings, Moon Township, PA
- Phillipsburg Center – Best Buy, Center Township, Beaver County, PA.
- Phillipsburg Center – Target Store, Beaver County, PA
- Chestnut Ridge Middle School Addition, Fishertown, PA
- City of Chicago Streetscape Program, Chicago, IL
- Final Design for Swarthmore Streetscape and Town Center Improvement Program



Baker – Starburst Plaza
Washington, DC

- *Urban Design*
- *Site Planning*
- *Landscape Architecture*

- U.S. Coast Guard – Relocation and Improvements to Front Gate, Entrance, Fence, Signage, and Guard Station, USCG Training Center, Cape May, NJ
- Consolidated Rental Car Facility, Baltimore, MD
- Bechtel Bettis, Inc., Confidential Site, Parking Lot and Security Upgrade
- Airport Parking Expansion, Pittsburgh International Airport
- Operational Readiness Training Complex, Fort Drum, NY

- g. *Provide a description of any litigation or arbitration proceedings, including vendor complaints filed with the State’s Purchasing Division, disputes with other Agencies and 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.*

Michael Baker Jr., Inc. (“Baker”) is involved in such claims, arbitration proceedings and suits as is typical for the work it performs. Baker’s legal department may provide certain non-confidential details relating to any such individual matter after receipt of a specific written request. Baker is not involved with litigation or arbitration proceedings, including vendor complaints filed with the West Virginia Purchasing Division or disputes with other Agencies and the State of West Virginia that involved legal representation by either party relating to the Baker’s delivery of design services.

3.2.3 PROJECT ORGANIZATION

- a. *Provide information on the personnel who will manage and persons proposed to be assigned to the project.*

Michael Baker Jr., Inc. Proposed Personnel

As Principal-In-Charge, **Russell Hall, P.E., P.S.**, will ensure that all required resources including staff and equipment are available to the project manager to execute the project successfully. Mr. Hall has over 21 years of experience in transportation engineering working in both the government and private sectors. Mr. Hall has been responsible for the design and management of multiple projects of varying size and complexity. His experience, understanding of project delivery and dedication to client satisfaction will guide this project.

Ron L. Bolen, AIA, will serve as **Project Manager**. Mr. Bolen has over 35 years of diverse experience. Design experience includes master planning, educational, parks, recreation, institutional, commercial, housing, health care, long-term care, and religious facilities. He is experienced with the submittal process for state agencies, including WV SBA, State Board of Education and State Fire Marshal’s office.

Ralph Deffenbaugh, P.E., LEED AP will serve as **QA/QC Manager**. In his wide-ranging experience, Mr. Deffenbaugh has provided oversight of the engineering efforts, focusing on integration of systems, development of energy reduction strategies, and detailed quality assurance reviews of various types of facilities for military, government, commercial, public, and private clients.

Duncan Penney, R.A., LEED AP will provide **Life Safety Services**. Mr. Penney has performed project design, project management, design charrettes, feasibility studies, construction administration, and specification writing. A Certified Construction Specifier (CCS), he is skilled in producing construction documents. He is also a U.S. Green Building Council, LEED® accredited professional, and experienced in life safety evaluations and ADA Guidelines.

Tracy Rapp, P.E., is an Electrical Engineer with more than 26 years of experience in project management and electrical design of commercial, industrial, institutional and government facilities. Mr. Rapp is experienced in providing coordination and communications with clients, vendors, code-enforcing authorities, contractors, and utilities.

Ron Schirato, P.E., LEED AP, will serve as **Civil Engineer for site utilities**. He has extensive experience in site development on commercial, military, and residential properties.

David Hilliard, is a mechanical designer and has a wide range of "hands on" design and construction experience. His resume covers over 20 years of real world work in design, layout, fabrication, construction and finishes in both the mechanical and general trades. Mr. Hilliard brings extensive MEP design experience from numerous educational facilities, housing projects, medical facilities, commercial and industrial office space projects and extensive utilities research experience during the WV Capitol Complex Master Plan project.

Gary Steffy Lighting Design, Inc. Proposed Personnel

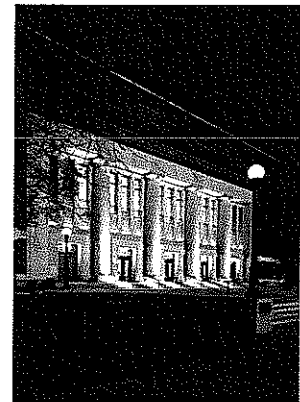
Gary Steffy, IES, FIALD, LC, is president of **Gary Steffy Lighting Design Inc.** and he will serve as **principal designer**. His expertise is typified by lighting design for such national landmarks as the capitols for Illinois, Kansas, Michigan, Ohio, and Virginia, the Ohio Supreme Court, and the Virginia Patrick Henry Building (Old State Library). He has authored three lighting texts, including *Architectural Lighting Design* 3rd edition, 2008. In 2005, he authored *Lighting: Fundamentals, Practice, and Integrated Systems* for UNESCO's Encyclopedia of Life Support Systems available online at <http://greenplanet.eolss.net>. He serves on the editorial board of LEUKOS, the Journal of the Illuminating Engineering Society of North America. He edited *A History of Light and Lighting* by David

DiLaura. Gary is a Fellow of the International Association of Lighting Designers. In 2004, he was named one of the Penn State Outstanding Engineering Alumni. He received the Illuminating Engineering Society of North Presidential Award and the Distinguished Service Award in 2006. He was elected an Honorary Affiliate Member of the Michigan AIA in 2008.

Gary Woodall, IES, IALD, LC, Senior Designer with **Gary Steffy Lighting Design Inc.**, will serve as a **project manager and designer**. His expertise is typified by lighting design for such national landmarks as the National Academy of Science, the capitols for Illinois, Kansas, Ohio, and Virginia, the Ohio Supreme Court, and the Virginia Patrick Henry Building (Old State Library). He has authored various articles and is a member of the Illuminating Engineering Society and of the International Association of Lighting Designers. He serves on the IES Office Lighting Committee and the Outdoor Lighting Committee.

Erick Leininger, Assistant Designer is an assistant designer with **Gary Steffy Lighting Design Inc.** and he will assist in development of schemes, calculations, mockups, layouts, plans, and specifications. He offers expertise in exploration of design strategies with quick yet detailed calculational and virtual modeling.

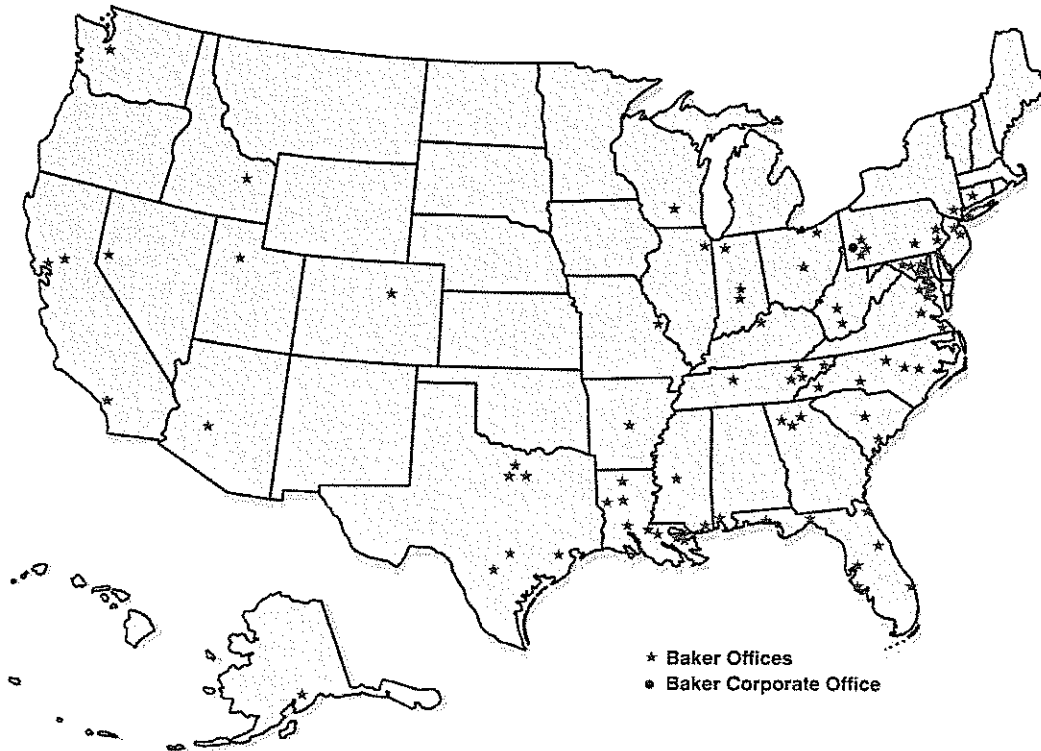
Provide locations of firms' offices and indicate from where the project will be managed and the work performed.



GSLD – Hill Auditorium, Ann Arbor, MI

- Exterior Façade Lighting Design
- Interior House Lighting Design

Following is a listing of Baker's office locations. Baker will be managing and performing this work with personnel from our Charleston, West Virginia office, and additional professional and technical support from our headquarters located at Moon Township (Pittsburgh), PA, and GSLD's staff in Ann Arbor, Michigan.



BAKER OFFICES

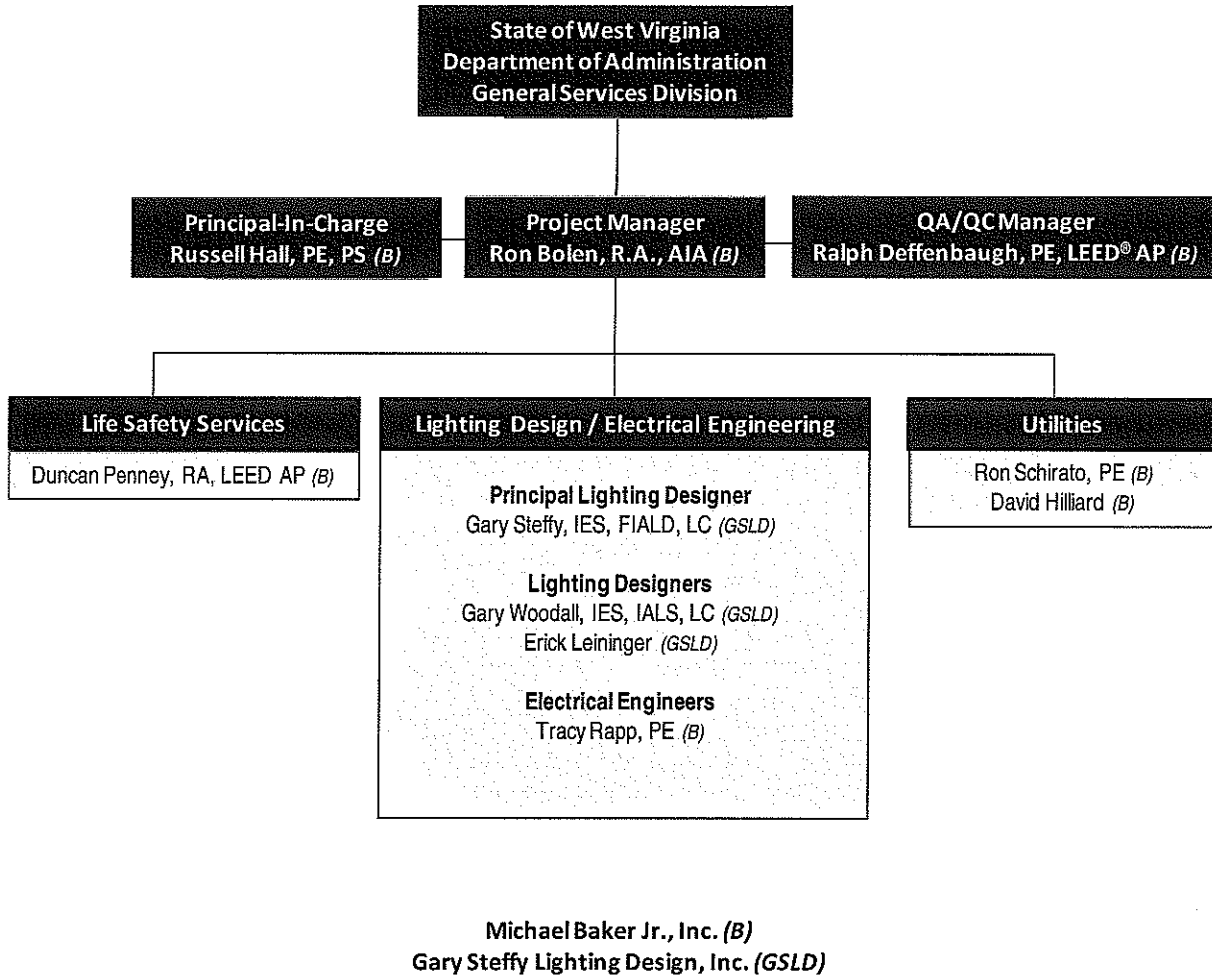
Alexandria, VA	Columbia, SC	Indianapolis, IN	Nashville, TN (Brentwood)	Richmond, VA
Anchorage, AK	Columbus, OH	Irvine, CA	New Orleans, LA	Rocky Hill, CT
Arlington, TX	Crown Point, IN	Jackson, MS (Ridgeland)	New Roads, LA	Ruston, LA
Asheville, NC	Dallas, TX	Jacksonville, FL	New York, NY (Manhattan)	Sacramento, CA
Atlanta, GA	Denton, TX	Jefferson, LA	Newark, NJ	Salt Lake City, UT (Midvale)
Austin, TX	Denver, CO (Lakewood)	Kennesaw, GA	Newport, TN	San Antonio, TX
Baltimore, MD (Linthicum)	Elizabethton, TN	Knoxville, TN	Norcross, GA	Sarasota, FL
Baton Rouge, LA	Falls Church, VA	Lake Mary, FL	North Charleston, SC	Seattle, WA
Beaver, PA	Frederick, MD	Little Rock, AR	Oakland, CA	Silver Spring, MD
Bel Air, MD	Gibsonia, PA	Louisville, KY	Oberlin, LA	St. Louis, MO (Sunset Hills)
Beckley, WV (Mt. Hope)	Greensboro, NC	Madison, WI	Ocean Springs, MS	Tallahassee, FL
Bloomington, IN	Greenville, DE	Manassas, VA	Owings Mills, MD	Tampa, FL
Cary, NC	Hamilton, NJ	Mansfield, LA	Philadelphia, PA	Virginia Beach, VA
Charleston, WV	Harrisburg, PA	Maynardville, TN	Phoenix, AZ	Washington, DC
Charlotte, NC	Horsham, PA	Miramar Beach, FL	Pittsburgh, PA	West Palm Beach, FL
Chicago, IL	Houston, TX	Mobile, AL	Raleigh, NC	White Plains, NY
Cleveland, OH	Idaho Falls, ID	Moon Township, PA (HQ)	Reno, NV	Winnfield, LA

Provide a project organizational chart including key personnel and the proposed organization of the project team.

Management Organization Chart

Baker

**WV Capitol Complex
Exterior Lighting Evaluation & Redesign
GSD106430**



a. Provide a statement of evidence of the firm or team's ability to provide services within the project time frame and a proposed project schedule outlining the key phases.

Baker's proposed schedule and time frame for this project will require a collaborative effort with GSD to understand the task elements of the project to your satisfaction. We are submitting the following schedule as a tentative timeline for the Baker Team's approach to provide the architectural and engineering services in a very timely manner. Although no time frame for the project was included in the RFQ, the Baker team will work to develop a mutually agreeable schedule if the proposed schedule does not meet the WV Capitol's desired time frame.

WV CAPITOL EXTERIOR LIGHTING PROPOSED TIMELINE BY TASK

Team Schedule by Project Task

	week 30	week 31	week 32	week 33	week 34	week 35	week 36	week 37	week 38	week 39	week 40	week 41	week 42	weeks 63-87	weeks 75-98	week 99
Project Setup																
Contracting																
Organization of the Exterior Lighting Planning Com																
I.1 Phase I / Task 1: Survey Existing Conditions																
1.1 Lighting Planning Committee Meeting 1 (kickoff)																
1.2 Data gathering I (site work; luminaire locations, illt																
1.3 Existing utility plans and reports																
1.4 Base mapping																
1.5 Data gathering II (site work)																
1.6 Data analysis																
1.7 Documentation work; annotate plans, prepare rep																
1.8 Lighting Planning Committee Meeting 2 (present E																
1.9 GSD Approval of Existing Conditions Report																
I.2 Phase I / Task 2: Schematic Design																
2.1 Lighting Planning Committee Meeting 3 (kickoff Ta																
2.2 Criteria development																
2.3 Preliminary Scheme (visual hierarchies; light map;																
2.4 Preliminary Cost Estimate																
2.5 Lighting Planning Committee Meeting 4 (present S																
2.6 GSD Approval of Schematic Design Report																
II.3 Phase II / Task 3: Design Development																
3.1 Refine scheme based on feedback in 2.6																
3.2 Formalize schemes for key areas (capitol facade, i																
3.3 Lighting Planning Committee Meeting 5 (present f																
3.4 Finalize DD documentation																
3.5 Design Development Cost Estimate																
3.6 Lighting Planning Committee Meeting 6 (present I																
3.7 GSD Approval of Design Development Documents																
II.4 Phase II / Task 4: Contract Documents																
4.1 Drafting the Plans and Specifications																
4.2 Final Cost Estimate																
4.3 Lighting Planning committee Meeting 7 (Final Des																
4.4 GSD Approval of Construction Documents																
II.5 Phase II / Task 5: Construction Administration																
5.1 Bidding																
5.2 Assisitng with Contractor Selection and Contract																
5.3 Shop Drawing / Submittal Prep																
5.4 Shop Drawing / Submittal Review																
5.5 Lead Time - Specialized fixtures																
5.6 Installation																
5.7 Site Visits / Meetings																
5.8 Completion of Exterior Lighting - GSD Approval																

4.2.4 DEMONSTRATED EXPERIENCE IN COMPLETING PROJECTS OF A SIMILAR SIZE AND SCOPE

- a. *Provide descriptions of relevant projects demonstrating the firm's ability to execute projects similar to those described in this Expression of Interest. Firm's managing personnel for this project must have at least five years of experience in evaluating and designing exterior lighting as described herein. Provide descriptions of not more than ten projects performed in the last ten years. Projects of interest should include work performed within the State of West Virginia.*

Please refer to the "Project Descriptions TAB," for examples of the Baker team's experience.

- b. *Provide references for the last five clients for whom the firm has conducted projects of a similar size and type. Include the name of the contact person along with the addresses, telephone numbers, and short description of the project.*

Each of the Project Profiles found in Part 6 lists Baker's client and contact information for your use as a reference. Additionally, we offer the following diverse list of past or current clients and contact information:

City of Charleston

915 Quarrier Street, Suite 5
Charleston, WV 25301-2607

Mr. Chris Knox, City Engineer

(304) 348-8106 [Provided Bridge inspection services, detailed rehabilitation design, construction document preparation and detailed estimates of costs for three major structures. Also provided construction management / inspection on two of the three bridges.]

Town of Moorefield, Maple Avenue Streetscape

206 Winchester Avenue
Moorefield, WV 26836

Ms. Phyllis Sherman, Town Recorder

(304) 530-6142 [sidewalks/streetscapes, preparation of final construction plans and specifications, cost estimating, bidding, construction administration]

Harrison County Historic Landmarks Commission

301 West Main Street
Clarksburg, WV 26301

Ms. Terry Schulte, Director

(304) 624-8690 [provided concept designs, design development and construction documents, bidding and construction administrative services for the Historic Lost Creek Train Depot Phase I Restoration]

Habitat for Humanity of Kanawha & Putnam County ReStore

815 Young Street
Charleston, WV 25301

Ms. Amy McLaughlin, Director

(304) 720-0141 [Provided detailed construction document services on a new parking lot featuring a bioretention structure, construction administrative services included on sight coordination of volunteer efforts and education of public]

Ritchie County Historical Society

310 Myles Avenue

Pennsboro, WV 26415

Ms. Norma Davis, Assistant Director

(304) 659-2249 [Provided detailed design, construction document preparation, bidding and construction administrative services for the North Bend Trailhead Development, Historic C&O Railroad restoration and the Old Stone House Restoration.]

Gary Steffy Lighting Design, Inc.

Much of the firm's work is accomplished by contract through third parties, typically architects. In some instances, the firm works directly with or quite closely with the owner or owner's representative. Owner or owner-representative references include:

Bloomfield Township Public Library

Tom Marchesano, PE, Architectural Engineer

Manager of Building Programs (Owner's Representative)

734-564-5500

Services Provided: Interior Normal Power Architectural Lighting

Design Consultation for US\$17 million refurbishment and expansion

Time Period: July 2005 through December 2008

Kansas Statehouse/Historic Landmarks

Barry Gries, AIA, State Architect

785-296-6869

Services Provided: Interior/Exterior Normal Power Architectural Lighting

Design Consultation for US\$100 million preservation and restoration of Kansas Capitol

Time Period: July 2000 through July 2011

Steelcase Inc.

Randy Wilda, WorkSpace Futures

Steelcase In-house Design and Construction

616-247-2297

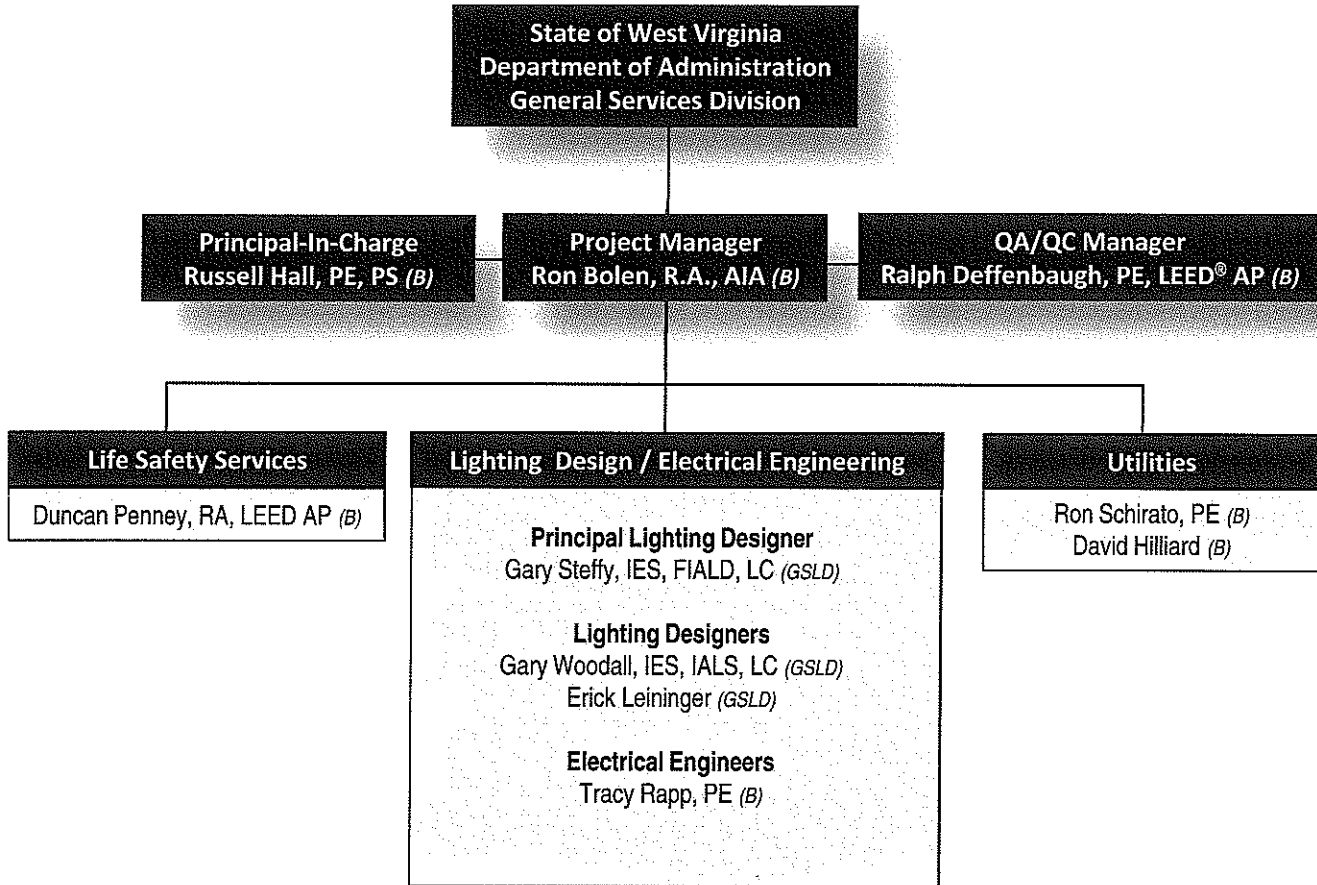
Services Provided: Interior Normal Power Architectural Lighting

Design Consultation for various corporate projects since 1999

Management Organization Chart

WV Capitol Complex
Exterior Lighting Evaluation & Redesign
GSD106430

Baker



Michael Baker Jr., Inc. (B)
Gary Steffy Lighting Design, Inc. (GSLD)

Russell E. Hall, P.E., P.S.
Principal-In-Charge

General Qualifications

Mr. Hall currently serves as an Assistant Vice President of Michael Baker Jr., Inc., as well as Office Manager of our Charleston, WV office. He is an experienced transportation engineer who has been involved in numerous bridge and highway design projects in West Virginia for over 22 years. His project management responsibilities involve overseeing staff from project inception through completion, and ensuring that the clients' needs and requirements are met.

He also has over nine years of office management experience. His office management responsibilities include financial oversight and accountability for a staff of over 40 engineers, scientists, and administrative personnel for Baker's Charleston office. His major strengths include organizing and managing a project team, quality control and quality assurance, and problem resolution. He provides overall direction and maintains direct communications with all clients.

Mr. Hall is very proud of the fact that he has been able to spend his entire career in West Virginia working to address West Virginia's transportation needs.

Experience

U.S. 33 Streetscape Improvement Project - Phase II, Mason. *Town of Mason.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed complete detailed design, construction document preparation and construction management services for new sidewalks and storm sewer improvements on the Mason Phase II Streetscape Project. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, storm sewer improvements, benches and trash receptacles. Baker provided construction administration and inspection services.

Town of Moorefield-Maple Avenue Streetscape, Moorefield. *Town of Moorefield.* Principal-In-Charge. Responsible for oversight of Project Management. The Town of Moorefield was in need of a pedestrian-friendly way of connecting the downtown area with the highly utilized nearby community park. Maple Avenue was a secondary street connecting the two areas, but had no sidewalks and deep ditches along most of the corridor. Moorefield tasked Baker with the planning and design of improvements that would both upgrade existing facilities and create a unified community linking the downtown with the community park.

Town of West Milford-Sidewalk Improvements, West Milford, West Virginia. *Town of West Milford.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed complete planning, design and construction management services for new sidewalks along U.S. Route 270 (Main Street) for the Town of West Milford. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, "ladder-style" crosswalks and storm drainage design. Baker provided Construction Administration and resident inspection services as well as periodic site review during construction.

Years with Baker: 6

Years with Other Firms: 18

Education

B.S., 1985, Civil Engineering, West Virginia University Institute of Technology

Licenses/Certifications

Professional Engineer, West Virginia, 1990

Sidewalk Improvements, Parsons, West Virginia. *City of Parsons, West Virginia.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed complete planning, design, and construction management services for new sidewalks and streetscape elements for various areas within the City of Parsons. The improvements included concrete sidewalks with integral concrete curbs, driveway curb cuts, ADA accessible curb ramps with truncated domes, ladder-style crosswalks, and storm water management, landscape beds and street trees, side street parking elements, and wrought iron park benches and trash receptacles. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Kanawha River Bridge, Charleston, West Virginia. *Brayman Construction Company.* Principal-In-Charge. Responsible for oversight of Project Management. Baker's Charleston, West Virginia office redesigned seven piers for the contractor and performed a complete analysis of the superstructure and substructure to properly size the piers.

Gypsy Bridge Design, Gypsy Bridge over West Fork River, Gypsy, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. This project involved the study, design and preparation of construction contract plans and related documents for the replacement of the Gypsy Bridge carrying US 19 over West Fork River and located approximately 0.12 miles north of the intersection of US 19 and Harrison CR 19/63 for a distance of approximately 0.4 miles. The bridge is a 3 span, 650 foot steel plate girder bridge. Baker reviewed all contractor submittals during the construction phase of the project.

Blennerhassett Island Bridge, Appalachian Corridor D, Washington County, Ohio and Wood County, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. Baker provided project management, environmental and location studies, permitting, preliminary and final design as well as construction phase services for this 878-foot 6-inch long network tied arch that is ranked as the longest of its type in the United States and one of the longest in the entire world.

Appalachian Corridor H, Section 6, E. Hardy County 220/8 to WV 55 Interchange, Moorefield, West Virginia. *West Virginia Department of Transportation, Division of Highways.* Principal-In-Charge. Responsible for oversight of project finances, schedules and quality control. This project involved the study, design and final construction plan development for a new roadway beginning 0.6 miles southeast of Hardy County 220/8 and continuing eastward 6.6 miles to an interchange with WV 55. This project included an interchange with the Moorefield Bypass, a ramp connector road south of the corridor west from the possible future Moorefield Bypass to a proposed reconstruction of US 220, a closure study of the floodwall on the north end of Moorefield near this Section 6 proposed highway location, six bridges and completion of an interchange (two ramps) with WV 55 on the east end of the project.

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Principal-In-Charge. Responsible for oversight of Project Management. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Ron L. Bolen, R.A.

Project Manager

General Qualifications

Mr. Bolen brings over 38 years of design and project coordination experience to the project. He focuses his time on design and coordination with the client, while maintaining a close relationship with the design team. From early planning stages to construction implementation, Mr. Bolen's projects are the result of collaborative problem solving with design team professionals and project stakeholders.

Years with Baker: 2

Years with Other Firms: 36

Education

B.S., 1980, Architectural Design,
West Virginia University

Licenses/Certifications

Registered Architect, West Virginia,
1999

Experience

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia.

State of WV General Services Division. Architect. Responsibilities include working in conjunction with the owner and a team of specialized subconsultants. Currently providing elements including master planning programming, architectural review, document management, project scheduling, cost estimating, facilities planning, subconsultant management and client coordination. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia State Capitol Campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia.

State Army National Guard Headquarters. Architect. Responsibilities included providing complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and to provide MEP and HVAC design improvements for the entire TAG Wing, Headquarters Building, and Armory/Drill Floor. Baker is providing complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

West Virginia State Capitol Restroom Renovations. *State of WV General Services Division. Architect.* Responsible for coordination with the architectural, mechanical, and electrical staff during design and construction, and cost estimating for the project. Baker is leading a planning study for the renovation of 31 restrooms in the historic West Virginia Capitol Building. The planning study will assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the capitol. Baker will provide design, construction sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Architect. Responsibilities included providing complete design and construction administration services for architectural improvements of the first floor of the Office of the Adjutant General (TAG), and providing MEP and HVAC design improvements for the entire TAG Wing, Headquarters Building, and Armory/Drill Floor. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Little Kanawha Bus Facility, Calhoun County, West Virginia. *WV Division Of Public Transit.* Architect. Responsibilities included providing complete design and detailed construction administration services. Baker is providing architectural and engineering services, landscape architecture, and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve LEED® certification. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

Lost Creek Train Depot Rehabilitation, Lost Creek, West Virginia. *Town of Lost Creek.* Architect. Provided architectural support during construction and cost estimating for future phases of the overall project. Baker was responsible for planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail. Baker prepared a plan to raise the structure, make repairs to the deteriorated timber, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. Baker also provided construction administration and inspection services as well as periodic site review during construction.

Ralph T. Deffenbaugh, P.E., LEED AP

Technical Manager

General Qualifications

Mr. Deffenbaugh, Director of Facilities Engineering for Baker, provides leadership for project quality and interdisciplinary coordination for the engineering group. In his wide-ranging experience, he has provided oversight of the engineering efforts focusing on integration of systems, development of energy reduction strategies, and detailed quality assurance reviews of various types of facilities for military, government, commercial, public, and private clients. His experience includes serving as project manager, lead structural engineer, resident structural engineer, or project/design engineer for various types of facilities, including tactical equipment maintenance facilities, vehicle maintenance facilities, barracks, military facilities, administrative/office buildings, bus maintenance facilities, manufacturing plants, fabrication facilities, utility buildings, clean rooms, administrative facilities, transit stations and park-n-rides, water storage, and water/wastewater treatment facilities. In 2007, Mr. Deffenbaugh received his LEED® accreditation from the U.S. Green Building Council.

Experience

West Ox Bus Operations Facility, Fairfax, Virginia. *County of Fairfax.* QA/QC. Responsible for providing detailed interdisciplinary coordination review of architectural, structural, civil, mechanical, plumbing, and electrical systems for the new complex that consists of an administration building, maintenance garage, service center, and paint shop. The West Ox Bus Operations Facility can accommodate operations and maintenance for a combined fleet of up to 300 Washington Metropolitan Area Transit Authority (WMATA) and Fairfax Connector buses, including approximately 26 maintenance bays, provide fuel, wash, and body shop facilities. Baker was responsible for planning, architecture, mechanical engineering, electrical engineering, structural engineering, and transportation engineering in the design of this facility.

Armed Forces Reserve Center, Camp Bullis, San Antonio, Texas. *U.S. Army Corps of Engineers, Louisville District.* Technical Manager. Responsibilities involved coordinating subconsultant scopes and fees, monitoring and maintaining the project design schedule with the contractor, and packaging of construction documents. Baker teamed with builders other clients, under a Design/Build contract for the full design of an Armed Forces Reserve Center (AFRC) to be located at Camp Bullis, Texas. The \$39 million, 189,071-square-foot complex consists of five buildings, including a Training Center, Organizational Unit (Heated) Storage building, Vehicle Maintenance Shop, and two Unheated Storage (UHS) buildings. Designs are also required for Comprehensive Interior Design (CID) and Structural Interior Design (SID), utilities, storm drainage, communications, electric, HVAC, fire protection/alarm systems, Intrusion Detection System, Emergency Management Communication System, anti-terrorism and force protection measures, paving, walks, curbs, parking, access roads, exterior lighting, site improvements, grading and landscaping. The project will be designed to meet the Silver Level of LEED®.

Years with Baker: 4

Years with Other Firms: 26

Education

B.A.E., 1980, Architectural Engineering (Structural Design Option), The Pennsylvania State University

Licenses/Certifications

Professional Engineer:

West Virginia, 2004

Pennsylvania, 1991

Louisiana, 2009

Ohio, 2004

Massachusetts, 1992

Virginia, 1991

Maryland, 1996

Kentucky, 2004

NCEES Certified, 1986

LEED Accredited Professional, 2007

Route 52, Contract - "B", Somers Point & Ocean City, New Jersey. *New Jersey Department of Transportation (NJDOT).* Technical Manager. Responsible for the management and execution of building engineering services for the Ocean City Visitor's Center.

Research and Development Facility, Institute for Scientific Research, Fairmont, West Virginia. *BE & K Building Group.* Technical Manager. Coordinated final project closeout for the engineering designs and completed LEED® documentation. Using a design/build delivery method, a new 263,000-square-foot, five-story Research and Development Facility was constructed for The Institute for Scientific Research (ISR). The facility was outfitted with advanced technology features and amenities that included: distance learning centers; voice/data systems; two-story exhibit hall; heavy research floor with high bay area; prototype workshop and 10-ton crane; fitness center; and full-service kitchen/restaurant. In addition to the environmentally sensitive design features, a number of unique energy-efficient strategies were used to accomplish LEED® certification.

New Haven Bus Maintenance Facility, Hamden, Connecticut. *Connecticut Department of Transportation.* Technical Manager. Performed a technical quality review of the construction documents as well as the allocation of engineering staff for the performance of the work. Baker designed a 290,000-square-foot bus maintenance, storage, and administrative facility, which will incorporate state-of-the art equipment for the repair and maintenance of a 150-bus fleet and 20 support vehicles. The new facility includes money-handling security; controlled room access; an energy-efficient exhaust system for a high level of diesel operation; vehicle wash bays; detail and fueling bays; vehicle maintenance and body repair bays; and parts storage. Baker's services included architectural design and structural; heating, ventilation, and air conditioning; electrical; plumbing; fire protection; and industrial equipment engineering.

Sustainment Center of Excellence Headquarters Building, Fort Lee, Virginia. *U.S. Army Corps of Engineers, Norfolk District.* Engineering Manager. Responsible for preparing design costs and design/build proposal narrative coordination. This new four-story, 220,000-square-foot Design/Build administrative building is a centerpiece of the BRAC buildup and provides high quality, commercial-style office, conference space and multipurpose auditorium. The headquarters contains five training schools for the US Army ordnance, transportation, quartermasters, combat development and training development. Particular attention was given to the Anti-terrorism standards, the Uniform Federal Accessibility Standards (UFAS), and the Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG).

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* QA/QC. Responsibilities included developing tools to coordinate designs using enhanced written descriptions of scope and design decisions, and using CADD coordinated drawings. Baker is the designer-of-record for the design/build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders.

Duncan M. Penney, R.A., LEED AP

Life Safety Services

General Qualifications

Mr. Penney's exceptional technical, analytical, and architectural skills reflect more than 24 years of experience in architectural design and project management. His achievements include delivering multi-million dollar projects on time and within construction budget. Mr. Penney has performed project design, project management, design charrettes, feasibility studies, construction administration, and specification writing. A Certified Construction Specifier (CCS), he is skilled in producing construction documents.

Mr. Penney is also a U.S. Green Building Council, LEED® accredited professional, with recent experience on over a dozen Pennsylvania Army National Guard Readiness Centers, statewide, for the Stryker Brigade Combat Teams, and Silver LEED®-certified U.S. Army Reserve Center projects for the Louisville District, U.S. Army Corps of Engineers. He is a skilled team facilitator and is adept in providing cross-functional team leadership. He maintains close liaison with clients.

Experience

Locker Room Refurbishment and Expansion, Confidential

Site. Confidential Client. Architect. Responsible for the building code review, architectural conceptual design, specifications, and construction documents, and coordination of disciplines for technical documentation. Baker designed Locker Room upgrades as well as a 1,800-square-foot building addition to the existing facility that meets all applicable standards and codes. The exterior of the addition was compatible with the surrounding architecture and an entrance vestibule with canopy was added to the facility. Adequate vehicle access around the locker room extension was maintained, and a life safety evaluation was performed that included vehicle and pedestrian sight lines.

Building Code, Accessibility, and Feasibility Studies for Additions and Alterations at Allegheny College, Meadville, Pennsylvania. *Allegheny College.* Architect. Conducted feasibility studies for additions and renovations, along with building code and accessibility studies for existing classroom and dormitory buildings. The College developed a strategic five-year spending plan to address high-priority deferred-maintenance needs and cosmetic improvements to their campus of 40 buildings and over one million square feet of space. A visual database was created that included the deficiencies and renewal recommendations for this \$33,000,000 renewal plan. Building code / life safety and accessibility evaluation for a Type A (assembly), Type E (education), and Type R-2 Occupancies, as part of the feasibility study.

Renovations to ADP Pittsburgh Office, Pittsburgh, Pennsylvania. *ADP (Automatic Data Processing).* Architect. Responsible as a technical advisor to the architectural team for building codes, architectural design, and architectural specifications. Baker provided design services for renovations to ADP's Pittsburgh

Years with Baker: 7

Years with Other Firms: 21

Education

B.Arch., 1979, Architecture,
Carnegie Mellon University

A.D., 1975, Fine Arts, Cape Cod
Community College

Licenses/Certifications

Registered Architect, Pennsylvania,
1986

Construction Documents
Technologist, 2002

LEED Accredited Professional, 2003

NCARB, 1990

Certified Construction Specifier,
2001; Certified Construction
Contract Administrator, 2004

NCI Charrette System Certificate,
2006

office building. Tasks included replacement of the existing skylight above the central atrium, and alterations to the existing building to improve security.

Materials Research Technology Complex, Confidential Location, Pennsylvania. *Confidential Client.* Architect. Responsible for building code review, preliminary design, and architectural development of the conceptual design elevations. Baker provided preliminary and conceptual design services for a \$26 million, two-story, 43,000-square-foot Materials Research Technology Complex, including preliminary design, written scope of work, validation of the conceptual design, and confirmation/update of the cost estimate. The project design used the English (inch-pound units) system.

Intermodal Facility, Robinson Town Centre, Robinson Township, Pennsylvania. *Port Authority of Allegheny County.* Architect. Responsible as a team member to produce construction documents. The Robinson Town Centre Intermodal Facility is a part of the network of Park-n-Ride facilities providing convenient bus access for Port Authority's patrons. Constructed on approximately 8 acres, the facility includes: 865 Park-n-Ride spaces with 400 spaces in an elevated parking garage; bus stops with sheltered passenger waiting areas; Kiss-n-Ride drop-off area; commercial development space provisions; and bus layover area.

New Haven Bus Maintenance Facility, Hamden, Connecticut. *Connecticut Department of Transportation.* Architect. Responsibilities included performing a quality assurance/quality control technical review of the construction documents. Baker designed a 290,000-square-foot bus maintenance, storage, and administrative facility, which will incorporate state-of-the art equipment for the repair and maintenance of a 150-bus fleet and 20 support vehicles. The new facility includes money-handling security; controlled room access; an energy-efficient exhaust system for a high level of diesel operation; vehicle wash bays; detail and fueling bays; vehicle maintenance and body repair bays; and parts storage. Baker's services included architectural design and structural; heating, ventilation, and air conditioning; electrical; plumbing; fire protection; and industrial equipment engineering. Baker also performed preliminary engineering studies, prepared environmental documents, and provided remediation design for contaminants from the abandoned steel mill that had previously occupied the site.

Design/Build RFP Documents for the Central Office Building, Confidential Site, Idaho. *Confidential Client.* Architect. Responsible for architectural specifications and construction documents, building code review, and coordination of disciplines for technical documents. Baker prepared Design/Build Request for Proposal documents, an energy conservation report, and cost estimate for construction of a \$4 million office building. The structure will be a 33,000-square-foot, three- or four-story office building to accommodate up to 200 personnel.

DGS Punxsutawney, Punxsutawney, Pennsylvania. *Pennsylvania Department of General Services.* Architect. Responsibilities included site visitation to review status of construction and preparing site visit observation reports. Baker is providing limited construction management and technical support during the construction phase of the design/build contract. Work includes job conference attendance, preparing site visit observation reports, assisting in evaluation of design/build contractor change order requests, assisting in the review of shop drawing and product data, and assisting in substantial completion inspection and project closeout.

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Served as Technical Advisor for selection of building envelope and roof system. Baker is the designer-of-record for the design/build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided.

Gary Steffy, FIALD, IES, LC

President and Principal Lighting Designer

General Qualifications

Gary Steffy is president of Gary Steffy Lighting Design Inc. and he will serve as principal designer. His expertise is typified by lighting design for such national landmarks as the capitols for Illinois, Kansas, Michigan, Ohio, and Virginia, the Ohio Supreme Court, and the Virginia Patrick Henry Building (Old State Library). He has authored three lighting texts, including Architectural Lighting Design 3rd edition, 2008. In 2005, he authored Lighting: Fundamentals, Practice, and Integrated Systems for UNESCO's Encyclopedia of Life Support Systems available online at <http://greenplanet.eolss.net>. He serves on the editorial board of LEUKOS, the Journal of the Illuminating Engineering Society of North America. He edited A History of Light and Lighting by David DiLaura. Gary is a Fellow of the International Association of Lighting Designers. In 2004, he was named one of the Penn State Outstanding Engineering Alumni. He received the Illuminating Engineering Society of North America Presidential Award and the Distinguished Service Award in 2006. He was elected an Honorary Affiliate Member of the Michigan AIA in 2008.

Years with Gary Steffy Lighting Design: 28

Years with Other Firms: 5

Education

B.A.E., 1977, Architectural Engineering/Environmental Option, The Pennsylvania State University

Licenses/Certifications

NCQLP Lighting Certified

Experience

Illinois Capitol Lighting Master Plan, Springfield, Illinois. *State of Illinois/Vinci-Hamp Architects.* Principal Lighting Designer. Lead the design conceptualization for lighting of the façade, immediate site, and public interior spaces for this 1879/1888 capitol. [Illinois State Capitol, National Register 85003178]

Kansas Capitol Lighting Master Plan and Design, Topeka, Kansas. *State of Kansas/Treanor Architects.* Principal Lighting Designer. Lead the design conceptualization for the lighting master plan and schematic design, design development, construction documents, and now construction administration for the capitol site and capitol building, including new visitors' center. Project commenced 2001 with estimated completion 2012. [Kansas State Capitol, National Register 71000330]

Michigan Capitol Lighting Design, Lansing, Michigan. *State of Michigan/Quinn Evans Architects.* Principal Lighting Designer for site, façade, and public interior spaces for this 1879 statehouse. Lead the lighting design for schematic design, design development, construction documents, and construction administration for the capitol. [Michigan State Capitol, National Register 71000396]

Virginia Capitol Lighting Design, Richmond, Virginia. *State of Virginia/RMJM-Hillier.* Principal Lighting Designer. Lead the lighting design for schematic design, design development, construction documents, and construction administration for this 1789/1906/1960 capitol, including new visitors' center. [Virginia State Capitol, National Register 66000911]

Gary Woodall, IALD, IES, LC

Senior Lighting Designer

General Qualifications

Gary Woodall is a senior designer with Gary Steffy Lighting Design Inc. and he will serve as a project manager and designer. His expertise is typified by lighting design for such national landmarks as the National Academy of Science, the capitols for Illinois, Kansas, Ohio, and Virginia, the Ohio Supreme Court, and the Virginia Patrick Henry Building (Old State Library). He has authored various articles and is a member of the Illuminating Engineering Society and of the International Association of Lighting Designers. He serves on the IES Office Lighting Committee and the Outdoor Environmental Lighting Committee.

Years with Gary Steffy Lighting Design: 25

Years with Other Firms: 0

Education

B.S.A.E., 1985, Architectural Engineering/Environmental Option, University of Colorado

Licenses/Certifications

NCQLP Lighting Certified

Experience

Kansas Capitol Lighting Master Plan and Design, Topeka, Kansas. *State of Kansas/Treanor Architects.* Lighting Design Project Manager. Lead the design documentation effort for the lighting master plan and schematic design, design development, construction documents, and now construction administration for the capitol site and capitol building, including new visitors' center. Project commenced 2001 with estimated completion 2012. [Kansas State Capitol, National Register 71000330]

Ohio Statehouse Lighting Design, Columbus, Ohio. *State of Ohio/Schooley Caldwell Associates.* Lighting Design Project Manager. Lead the design documentation effort for lighting of the interior spaces for this 1857 capitol. [Ohio Statehouse, National Register 72001011]

Ohio Supreme Court Lighting Design, Columbus, Ohio. *State of Ohio/Schooley Caldwell.* Lighting Design Project Manager. Lead the design documentation effort for schematic design, design development, construction documents, and now construction administration for the façade and public interior spaces for the restoration of this 1933 Ohio Departments Building to house the supreme court. [Ohio State Office Building, National Register 90001908]

University of Michigan Hill Auditorium Architectural Lighting Design, Ann Arbor, Michigan. *University of Michigan/Quinn Evans Architects.* Lighting Design Project Manager. Lead the lighting design for schematic design, design development, construction documents, and construction administration for the façade, plaza and interior spaces of this 1913 3700-seat auditorium and plaza (stage lighting by others). [Virginia State Capitol, National Register 66000911]

Erick Leininger
Assistant Lighting Designer

General Qualifications

Erick is an assistant designer with Gary Steffy Lighting Design Inc. and he will assist in development of schemes, calculations, mockups, layouts, plans, and specifications. He offers expertise in exploration of design strategies with quick yet detailed calculational and virtual modeling.

Experience

Cincinnati Museum Center/Union Terminal Lighting Design Assistance, Cincinnati, Ohio. County of Hamilton/RMJM-Hillier and glaserworks.

Lighting Design Assistant. Provided calculational and rendering support for key areas of lighting restoration in dining rooms of this 1933 grand train terminal. [Cincinnati Union Terminal, National Register 72001018]

Vance Federal Courthouse and Office Building Lighting Design Assistance, Birmingham, Alabama.

GSA/Quinn Evans Architects. Lighting Design Assistant. Provides calculation and rendering support for lighting restoration in public circulation areas and historic courtroom for this 1921/1926 federal court and post office building. [U.S. Post Office, National Register 76000332]

Years with Gary Steffy Lighting Design: 1

Years with Other Firms: 1

Education

M.S., 2009, Fine Arts/Lighting Design, Carnegie Mellon University

Licenses/Certifications

na

Tracy Rapp, P.E. Electrical Engineer

Mr. Rapp is an Electrical Engineer with more than 26 years of experience in project management and electrical design of commercial, industrial, institutional and government facilities. He has a broad range of skills including operations management, project management, engineering management, and electrical engineering. In his current role as the manager of Baker's electrical engineering department, he is responsible for the staffing, technical quality, and the professional development of his staff. Mr. Rapp is experienced in providing coordination and communications with clients, vendors, code-enforcing authorities, contractors, and utilities.

Relevant Experience

Seven-Story, 1000-Room Lodge; Fort Lee, Virginia. U.S. Army Family, Morale, Welfare and Recreation Command (FMWRC). Electrical Engineering Department Manager.

Provided general oversight and guidance to the electrical design team. Baker is providing design services for a 1000-room lodge and associated grounds building with required utilities, storm drainage, communications, electric, HVAC, fire protection/alarm systems, anti-terrorism/force protection measures, and site improvements. The green building is designed and constructed to obtain Silver LEED® certification, achieving LEED® points in the categories of sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and innovation in design.

Office Addition to Duquesne Light Company's Woods Run #3. Duquesne Light Company. Electrical Engineering Department Manager. Provided general oversight and guidance to the electrical design team for the building addition.

Little Kanawha Bus Facility, Calhoun County, West Virginia. WV Division Of Public Transit. Electrical Engineer. Responsible engineer for the electrical engineering and design, including power, lighting, and coordination with utility. Baker is providing architectural and engineering services, landscape architecture, and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve LEED® certification. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

Data Centers; Research Triangle Park, North Carolina. IBM Corporation. Project Sponsor/Senior Electrical Engineering QA/QC. Responsibilities included managing the client relationship and providing strategy. Also responsible for QA/QC review of electrical engineering construction documents. Project included the design of a 100,000-square-foot, Level 3+ data center with 150 watts per square foot power density. This facility was started with a blank sheet of paper, challenging the team to develop concepts to take this customer forward beyond the status quo. The team evaluated multiple architectural, mechanical, and electrical design concepts to provide the client with a state-of-the-art data center, within budgetary constraints.

Years with Baker: 1

Years with Other Firms: 25

Education

B.S., 1984, Electrical Engineering,
Florida Institute of Technology

Licenses/Certifications

Professional Engineer:

Pennsylvania, 1990

Ohio, 2005

Massachusetts, 1992

West Virginia, 2005

Virginia, 1990

Arizona, 1994

New York, 1997

IDIQ Contract for Architectural and General Engineering Services, Tobyhanna Army Depot and Other NAD Locations. *U.S. Army Corps of Engineers, Philadelphia District.* Department Manager. Provided general oversight and guidance to the electrical design team. Baker is performing a three-year Indefinite Delivery Indefinite Quantity (IDIQ) contract for planning, architecture, and general engineering services to be performed at Tobyhanna Army Depot, as well as at other DOD installations within the North Atlantic Division (NAD). Projects awarded to date include: additions and renovations to the rotary-wing maintenance hangar at Wheeler-Sack Army Airfield, Fort Drum, New York; maneuver enhancement brigade (MEB) facilities at Fort Drum, New York, providing barracks, brigade headquarters, battalion headquarters with classrooms, five-unit company operations facility, and a tactical equipment maintenance facility; and the North Post Space Study at Fort Drum, New York.

U.S. Coast Guard General Architect and Engineering Services Contract, U.S. and its Territories. *U.S. Coast Guard, CEU Cleveland.* Department Manager. Provided general oversight and guidance to the electrical design team. The U.S. Coast Guard selected Baker for a \$50 million, ten-year General Architect and Engineering Services contract. The scope of the contract includes modifications and renovations to existing structures as well as new construction. Facilities types include residential and light commercial buildings and their mechanical and electrical systems, site utilities, waterfront facilities, electronic surveillance and security construction, dredging, structural inspections, safety construction, and airports and runways.

Corporate Office Center; Warrendale, Pennsylvania. *Medrad, Inc.* Project Manager. Responsibilities included management of the project team and design services for a 125,000-square-foot corporate office center. The facility, designed using sustainable principles and attained Gold LEED[®], is set within a hilly, forested site. The design employs under-floor air distribution, maximizes daylight and views, and is planned for flexibility and future expansion.

Fabrication Building and Central Utility Plant; Manassas, Virginia. *Dominion Semiconductor.* Lead Engineer. Responsibilities included electrical design services. Project included programming, design, and construction services of a 150,000-square-foot Class-1, single-level clean space housed in a three-level fabrication building, supported by an 80,000-square-foot, single-level central utility plant.

Fabrication Facility, Cleanroom, and Central Utility Building; Chandler, Arizona. *Confidential Client.* Lead Electrical Engineer. Responsibilities included electrical design services. Project included master planning, design, and construction services for the central utility building and a 1,300,000-square-foot fabrication facility with Class 1 cleanrooms (Fab 12).

Upgrade and Expansion including Cleanroom for Manufacturing Space; Richmond, Virginia. *AT&T Richmond Works.* Lead Electrical Engineer. Responsibilities included design of the electrical systems for the phased upgrade and expansion of an existing printed circuit board manufacturing space to create a 7,000-square-foot, Class-10,000 cleanroom space, while maintaining production.

ACAA Multi-Discipline On-Call Engineering Services. *Allegheny County Airport Authority.* Electrical Engineer. Made presentation to Allegheny County Airport Authority (ACAA) board of directors on feasibility of large-scale solar photovoltaic power plant.

Hudson, Massachusetts. *Digital Equipment Corporation.* Lead Electrical Engineer. Responsibilities included design of the electrical systems. Project included design services for a 525,000 ft² submicron CMOS semiconductor production facility, including 79,000 ft² of cleanroom space ranging from Class 10 up to Class 1 at 0.1-micron particle size (Fab 6).

Ronald M. Schirato, P.E., LEED AP

Civil Engineer - Utilities

General Qualifications

Mr. Schirato is a civil engineer with a broad range of experience in environmental permitting and engineering for site development on commercial and military and residential properties. He has extensive experience in stormwater management, best management practices, utility infrastructure design, engineering for transportation (roadways), computerized hydrology and hydraulics, and management.

Experience

Site Development for New Bus Maintenance Facility, Butler Township, Pennsylvania. *Butler Transit Authority Office.* Project Manager. Responsible for managing civil engineering for the project. Managed the preparation of civil engineering construction and project specifications. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, coordination of landscape plan development. Participated in project design review meetings with client and owner.

Site Design for Mobile Switch Center Building Addition, Bridgeville, Pennsylvania. *Verizon Wireless.* Civil Engineer.

Prepared civil engineering construction drawings and specifications for the proposed development. Engineering work included coordination with and approvals from local and state agencies, utility design, erosion and sediment control design, site grading, site layout and stormwater management design, NPDES permitting. The addition of a second building to Verizon Wireless's Mobile Switch Center in Bridgeville, Pennsylvania required approval of a Land Development Plan by both the business park and the local municipality. Baker prepared drawings and supporting documents for the approval process, including: topographic survey, ALTA/ACSM land title survey plan, site plans for the proposed building and parking area, landscape plan, grading and storm drainage plans, utility and paving plans, and site lighting plan.

Open-End Facilities Engineering Services, Pennsylvania and Idaho. *Confidential Client.* Design Review Manager. Provided technical design consultations to the core team members for the NRF Facility Master Plan. Baker provided full-service architectural and engineering services under an open-end contract to a confidential client with secure campus locations in Pennsylvania and Idaho. The Pennsylvania campus serves as a Naval propulsion system research, development, and training facility with over 50 buildings and more than 2,200 personnel. Located 40 miles from any development, the Idaho site is a nuclear reactor facility for fuel rod reprocessing with 85 buildings and structures, and more than 1,200 personnel.

Years with Baker: 6

Years with Other Firms: 7

Education

B.S.C.E.T., 1997, Civil Engineering
Technology, University of
Pittsburgh, Johnstown Campus

Master's Certificate, 2009, Project
Management, University of
Pittsburgh, Katz Graduate School of
Business

Licenses/Certifications

Professional Engineer:

Pennsylvania, 2002

New York, 2009

Oregon, 2008

Oklahoma, 2008

NCEES Certified, 2008

NCI Charrette System Certificate

LEED Accredited Professional, 2009

Defense Medical Logistics Center, Fort Detrick, Maryland. *U.S. Army Corps of Engineers, Baltimore District.* Civil Engineer. Responsibilities included providing technical design consultations to the core team members and conducting interdisciplinary technical quality reviews of the design. Baker is the designer-of-record for the design/build delivery of a new Defense Medical Logistics Center at Fort Detrick, Maryland, for the Military Medical Logistics System. The three-story, 128,000-square-foot brick structure houses the top military medical planning agencies from the Army, Navy, Air Force, and Marines. Parking spaces for 310 vehicles were provided. Amenities include off-site stormwater retention pond, reforestation requirements, standing seam hip roof; chilled water HVAC system, dense tele/data systems including SIPRNET, sophisticated security systems, and AT/FP considerations. A design charrette and separate partnering session was held with all project stakeholders.

Findlay Joint Public Safety Facility Feasibility Study, Clinton, Pennsylvania. *Findlay, Township of.* Civil Engineer. Prepared civil portion of conceptual site layouts and feasibility study identifying two potential site locations for a joint police and fire department public safety building. Prepared civil engineered preliminary plans, earthwork analyses, code analysis, utility investigations and narrative identifying the feasibility of both sites and recommendations. Baker provided project feasibility services for a Joint Public Safety Facility to serve police, fire, and emergency services. The work included site and architectural planning of program elements into available site and building areas for two Findlay Township sites, further described by building engineering disciplines and validated by a conceptual construction cost estimate. The result of this study was to determine the feasibility of the project of approximately \$4 million in cost and 25,000 square feet in size, as represented in a final report.

Walgreens Site Development, Shaler Township, Pennsylvania. *Walgreens Company.* Civil Engineer. Provided civil engineering support and expertise to project staff. For this site development project, Baker provided surveying services, geotechnical studies, traffic studies, environmental studies, subdivision plans, and civil site design services to support the construction of a new Walgreen's Store on a four-acre parcel of land located at the intersection of State Route 8 and Butler Plank Road in Shaler Township, Allegheny County, Pennsylvania. Baker worked with the Blackstone Group (developer), Walgreens, and state and local officials on this site development project.

Louisville District IDIQ for Various Civil and Military Projects, Great Lakes and Ohio River Division, Louisville, Kentucky. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Designed geometric layout and grading of site including parking and building pads and managed design of on-site utilities, erosion and sediment control, stormwater management, storm sewer design, landscaping and specifications. A variety of planning and design services were provided to the U.S. Army Corps of Engineers, Louisville District under an Indefinite Delivery Contract. Delivery Orders including master plan updates, capital investment strategies, installation design guides, and facility designs for an Army Reserve Center, Battalion Operations Facility, and an Army Base High School.

A/E ID/IQ Contract for Design of Army Reserve and Military Projects, Nationwide. *U.S. Army Corps of Engineers, Louisville District.* Civil Engineer. Civil engineer of record on several of the task orders issued under this IDIQ. Provided civil engineering support by preparing conceptual site layouts, participating in project design Charrettes which led to the development of plans and specifications for construction. Charrette phase work included a preliminary site layouts developed in accordance with current Department of Defense Anti-Terrorism/Force Protection Measures for Buildings, grading and engineering design analyses. Final design included civil engineering construction drawings and specifications for the agreed to layouts. Engineering work included coordination and permitting with local and state agencies, demolition plan development, geometric site layout, utility infrastructure design, erosion and sediment control design, stormwater pollution prevention plan development, NPDES permit coverage, site grading and earthwork analyses, stormwater management design, coordination of landscape plan development.

David J. Hilliard

Mechanical Engineer - Utilities

General Qualifications

Mr. Hilliard has a wide range of "hands on" design and construction experience. From his simple beginnings as a carpenter he has expanded his professional abilities. His recent design experience has included the complex mechanical design of such projects as a large Charleston, West Virginia hospital. His resume covers over 20 years of real world work in design, layout, fabrication, construction and finishes in both the mechanical and general trades.

Experience

A/E Services for the Office of the Adjutant General, West Virginia Army National Guard, Division of Engineering and Facilities, Charleston, West Virginia. *State Army National Guard Headquarters.*

Electrical Technician. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for a lump sum/fixed fee contract for architectural and engineering services. Baker was selected by the Division of Engineering and Facilities to provide complete design and construction administration services for the renovation of the first floor of the entire wing of the Office of the Adjutant General (TAG). The Owner requested the need for modernization of approximately 12,000 square feet of existing outdated office space - project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, alterations to the existing floor plan, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal.

West Virginia State Capitol Restroom Renovations. *State of WV General Services Division.* Electrical Technician. Currently providing the State of West Virginia General Services Division a comprehensive plumbing plan for the renovation and renovation of the 33 restrooms of the West Virginia State Capitol Building. Baker is leading a planning study for the renovation of 31 restrooms in the historic West Virginia Capitol Building. The planning study will assess the facilities and their conformance to current code requirements and code-required capacities, compliance with Americans with Disabilities Act (ADA) requirements, quantification of the building occupancy during normal and peak periods, and an evaluation of gender distribution of restrooms within the capitol. Baker will provide design, construction sequence, and scheduling recommendations. Upon approval of the design, Baker will prepare construction documents and provide construction administration services for the renovation of three restrooms on the basement level.

Little Kanawha Bus Facility, Calhoun County, West Virginia. *WV Division Of Public Transit.* Electrical Technician. Responsible for the Mechanical, Electrical and Plumbing Design, MEP Document Preparation, and Construction Administration for a new bus maintenance and office facility for Gilmer County. Duties include the design of the vehicle storage, cleaning and maintenance mechanical systems, as well as oil pumping and collection systems. The design of an energy efficient HVAC system for the entire building is also part of his responsibilities. Baker is providing architectural and engineering services, landscape architecture, and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot

Years with Baker: 1

Years with Other Firms: 19

Education

B.S.M.E., 2005, Mechanical Engineering, West Virginia University Institute of Technology

B.S., 2002, Mathematics and Science, West Virginia State College

Licenses/Certifications

bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve LEED® certification. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

West Virginia Army National Guard - Tag Wing Improvement, Charleston, West Virginia. *State Army National Guard Headquarters.* Electrical Technician. Responsible for all mechanical design oversight and construction management. The Facilities Management Officer (FMO) for the State of West Virginia, Division of Engineering and Facilities (DEF), West Virginia Army National Guard (WVARNG) selected Baker for architectural and engineering services. The State Army National Guard Headquarters in Charleston, West Virginia was originally constructed in the early 1960's. Over the years, there have been numerous upgrades to the facility. Baker performed complete planning, design, and construction management services for renovations to the Office of the Adjutant General at the State Army National Guard Headquarters in Charleston, West Virginia. Project elements included new acoustical ceilings, flooring, energy-saving light fixtures, duplex outlets, communications jacks, several new wall partitions, exterior door replacements, new interior doors and hardware, new wall finishes and asbestos removal. Baker provided Construction Administration and inspection services as well as periodic site review during construction.

Campus Master Planning and Architectural and Engineering Services for State Capitol Complex, Charleston, West Virginia. *State of WV General Services Division.* Electrical Technician. Currently providing the State of West Virginia General Services Division a comprehensive campus-wide master plan for the 55+ acre state capitol campus. Working in conjunction with a team of specialized consultants, currently providing programming, cost estimating and facilities planning support. Services included HVAC Loads as well as utility evaluation and planning for future growth. Baker is providing comprehensive master planning services, plans and construction specifications, and construction administration for improvements to the historic West Virginia state capitol campus. Master planning services include plans for expansion, location of new buildings, pedestrian and traffic circulation, landscaping, utilities, and site security. Baker is also providing construction plans and contract administration services for some of the security and landscaping improvements.

Campus Master Planning Services for State Capitol Complex

Charleston, West Virginia

Baker is providing comprehensive master planning services for the historic West Virginia state capitol campus.

The campus is a 54-acre site on which the state capitol building, the governor's mansion, state offices, a cultural center and museum, a historic mansion dating back to 1820, and several statues and fountains are located. The campus is part of the City of Charleston's historic district, and several of the buildings are listed in the National Register of Historic Places. The campus is frequently used for festivals and other public events, and is a major tourist attraction.

The capitol complex has grown from 12 to 54 acres since its founding in the early 1920s, and currently has approximately 768,000 feet of office space and employs approximately 5,000 people. The last campus master plan was completed in the late 1960s.

Baker's master planning services include planning for a proposed campus expansion; pedestrian and traffic circulation plans; parking plans; plans for the location of new buildings and facilities; site utility planning, including buried utilities and lighting; site security planning, and landscaping. Possible additions to the complex include a financial center, a daycare center, and additional office buildings and parking facilities.

All plans are required to be compatible with the original plans for the site, which were developed by the capitol building's architect in 1925, but must also accommodate current and future state government needs.

Value-Added

Baker is meeting the challenge of planning improvements to a nearly century-old government complex and matching the historic architecture and ambiance of the site, while meeting the current and future needs of employees and visitors and accommodating new facilities. The complex is a tourist attraction and is the venue for numerous public events, and is the site of state government agencies that must remain open to the public. Baker must balance this need for public accessibility with needed security improvements. In addition, the improvements must include sustainability and energy conservation measures.

Client

State of WV General Services
Division
Department of Administration
1900 Kanawha Boulevard East
Building 1, Room MB-60
Charleston, WV 25305

Robert P. Krause, P.E., A.I.A.
Architect/Engineer
304-558-9018

Completion Date

Estimated: 2010

Project Costs

\$887,880 (Fee)

Baker's Role

- Master planning
- Architectural planning
- Civil, mechanical, and electrical engineering
- Historic preservation
- Energy conservation and LEED®

Overlook Avenue/Dalecarlia Parkway Street Lighting Upgrade

Washington, DC

Baker prepared street lighting plans, at 1" = 20'-0" scale, indicating all proposed streetlight poles, conduits and cables, and required manholes/pull boxes for the installation of a complete street lighting system for an approximate length of 4800 feet, along Overlook Ave., SW between South Capitol St. and Chesapeake St. SW; and approximate 5300 feet, along Dalecarlia Parkway between Loughboro Road and Massachusetts Ave. N.W., in Washington, D.C.

The street lighting plans included all existing and proposed light pole locations, and demolition requirements for removal of all required existing lighting. Plans showed a power distribution system from a 120/240 volt, 3 wire system, and will include conduits, cable, manhole/pull boxes and connection(s) to PEPCO feed points. All service drop requirements were coordinated with PEPCO.

Lighting design calculations were prepared using the "Visual" lighting design software and final plans were delivered in Micro-Station 7.0. The lighting design utilized a high-pressure sodium fixture (type and manufacturer selected by the District), and provided foot-candle levels meeting or exceeding AASHTO's requirements. A project summary sheet was included with the plans indicating installation and demolition information for each existing and proposed light pole location. The information included the pole location, type and wattage and PEPCO's Maryland grid number.

Client

DC Department of Transportation
2000 14th Street, NW
7th Floor
Washington, DC 20009-4473

Derege Seifu

Supervisor, City Wide Division
202-673-6813

Soumya Dey, P.E.

Deputy Associate Director,
Traffic Services Admin.
202-671-2700

Completion Date

2007

Project Costs

\$221,254 (Fee)

Baker's Role

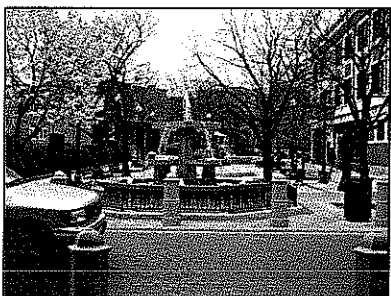
- Street Lighting Plans
- Project Summary Sheets
- Construction Costs

City of Chicago Streetscape Program

Chicago, Illinois



The City of Chicago Commercial Streetscape Program was created to promote economic and social development in the City's diverse neighborhoods through the renovation and beautification of the commercial street infrastructure, making the areas more welcoming to the citizenry as well as more environmentally friendly.



Baker provided construction program management and construction engineering services to bring the

individual projects to fruition. The projects, located throughout the City ranged in construction cost from \$100,000 to \$4,000,000. The typical project included the basic infrastructure improvements, removal and replacement of sidewalks and curb and gutter, drainage improvements, upgrade of street lighting systems and roadway resurfacing. Most projects also included:

Special Features:

- Ornamental Irrigated Planters
- Ornamental Street Lighting Poles and Fixtures
- Neighborhood Specific Architectural and Cultural Elements
- Textured Asphalt Crosswalks
- Street Furniture; Benches, Bike Racks, Trash Receptacles, etc
- Decorative Brick Pavers
- Trees, Shrubs and Perennial Plantings

Also included under this program was the construction of several projects extending the "Riverwalk" bike/pedestrian path along the north Branch of the Chicago River. These projects included installation of piling, box culverts, ornamental fencing and one canoe launch along with paving, lighting and landscaping.

Projects Include:

- Clark Street – Foster to Victoria
- Howard Street – Ridge to CTA Viaduct
- 47th Street – Prairie to St. Lawrence
- Devon Avenue – Broadway to Clark

Client

Chicago Department of
Transportation
30 North LaSalle Street
Chicago, IL 60602

Chris Kent

*Construction Manager, Div. of
Engineering*

312-744-3613

Completion Date

2006

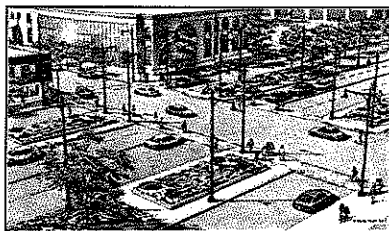
Project Costs

\$53,122,260 (Est. Construction)

\$7,023,039 (Fee)

Baker's Role

- Construction Program Management
- Construction Engineering Services
- On-Site Inspection
- Schedule Monitoring
- Cost Tracking and Analysis
- Quality Documentation and Record-Keeping



-
- Irving Park Road – Central to Melvina
 - Oak Street - Rush to Michigan
 - Giddings Plaza/Lincoln Square
 - Grand Avenue – Harlem to Sayre
 - Devon/Central Neighborhood
 - Hegewisch, Baltimore – Brainard to 132nd
 - 35th Street – Damen to Ashland
 - Lincoln Avenue – Grace to Montrose
 - 53rd Street – Woodlawn to Lake Park Blvd.
 - Irving Park Road – California to Kedzie
 - Ashland Avenue – I-55 to the Chicago River
 - 53rd & 55th Streets – Lake Park Avenue to Hyde Park Blvd.
 - Lawrence Avenue – Pulaski to Keeler
 - Various “Job Order Contracts”
 - Armitage Avenue – Halsted to Racine
 - 79th Street – Racine to Halsted
 - North Avenue – Wolcott to Greenviea
 - Irving Park Road – Kedzie to Elston
 - 47th Street & King Drive Streetscape Park
 - Foster Riverwalk Underbridge Connector
 - Oakley Street – 24th St. to Blue Island
 - 63rd Street – Woodlawn to Kenwood
 - Lathrop Riverwalk – Damen to Leavitt
 - 35th Street – Damen to Western
 - Clark Street = Belden to St. James
 - Stockyards – Morgan to Halsted
 - Lincoln Village Riverwalk Underbridge Connector
 - Halsted Street – 31st to 36th
 - Lawrence – Elston to Keeler
 - Broadway Avenue – Belmont to Addison
 - 79th Street – Ashland to Racine
 - Clark Street – St. James to Diversey
 - Kedzie Avenue – 80th to 83rd

Final Design for Swarthmore Streetscape and Town Center Improvement Project

Swarthmore Borough, Pennsylvania

Baker performed various final design and project management tasks for this streetscape and town center improvement project. Baker was called into to assist with this project by Swarthmore Borough after two previous engineering firms had difficulty completing the project. First, Baker performed a detailed design and constructability review of the specs and plans that had been developed to date. Baker was asked to complete a number of designs for the project including horizontal and vertical alignments for a new connector road, design of a underground detention facility that would be located under the new connector road, as well as street lighting design. In addition, Baker calculated construction quantities, developed summary and tabulation sheets using PennDOT's Autotab program, developed the construction schedule and developed special provisions for all non-standard items. Baker also developed the bid documents for bidding of this project at the local level.

Project Features

- Demolition of a large, two story reinforced concrete building in a highly constrained urban area
- New connector roadway with bike lane
- Underground detention system located under the new connector road
- 0.3 miles of sidewalk reconstruction
- Decorative street lighting, parking meters and bike racks

Client

Swarthmore Borough, Pennsylvania
121 Park Avenue
Swarthmore, PA 19081
Jane Billings
Borough Manager
610-543-4599

Completion Date

2007

Project Costs

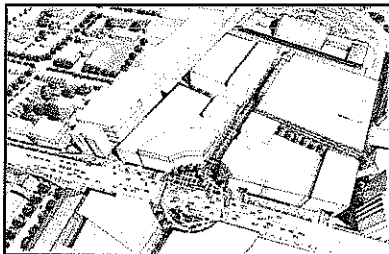
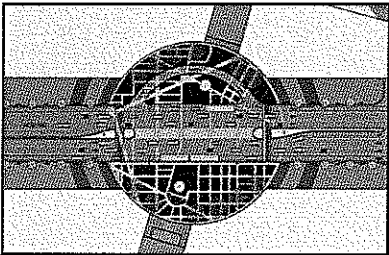
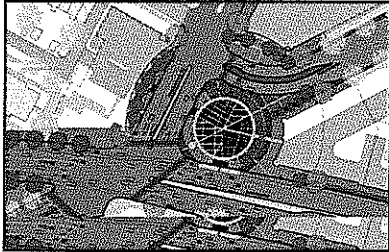
\$1,300,000 (Construction)

Baker's Role

- Project Management
- Roadway Design
- Underground Detention System Design
- Street Lighting Design

H Street Corridor Transportation Study and Streetscape Design

H Street from North Capital Street to Benning Road, Washington, DC



The H Street Corridor was projected to experience growth in retail, residential, office and cultural uses. To support this development, Baker provided planning, engineering and architectural services for the District Department of Transportation (DDOT) to create and implement a multi-modal transportation design and traffic management plan for H Street NE. This Plan focused on strengthening a more vibrant and diverse commercial and residential neighborhood while at the same time improving the efficiency of all transportation modes as coordinated with the Washington Metropolitan Area Transit Authority

(WMATA). Baker recommended balanced physical design and management strategies that encouraged the efficient and safe movement of all users. Baker assisted DDOT in achieving the following five goals:

- Increased short- and long-term transit connectivity
- Improved safety and efficiency of movement for pedestrians
- Investigated both on- and off-street parking in the study area and established a parking demand management strategy and implementation plan that supported both existing and new as well as proposed retail and residential uses
- Reinforced a sense of place and uniqueness through creative urban and streetscape design; and created a safe, inviting, and interesting public realm that supported diversity in use and activities
- Improved vehicular connectivity, while still meeting the needs of pedestrians, bicyclists, transit vehicles and riders, and commercial delivery.

Baker worked with DDOT to commission street art design competitions that would complement the uniqueness and design sense developed for H Street under this project.

Project Features

- Multimodal planning
- Architectural Design & streetscaping
- Parking and traffic surveys
- Community involvement & steering committee
- Traffic simulation & parking plan
- Street art & corridor aesthetics

Client

DC Department of Transportation
2000 14th Street, NW
7th Floor
Washington, DC 20009-4473
Christopher Delfs
202-671-1598

Jerry M. Carter
Contracting Officer
202-671-2268

Completion Date
2004

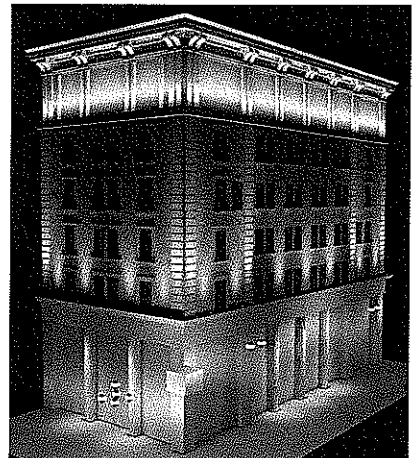
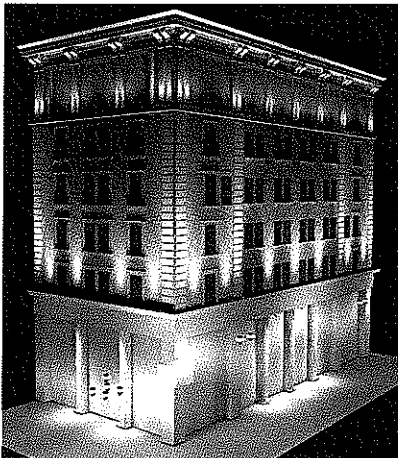
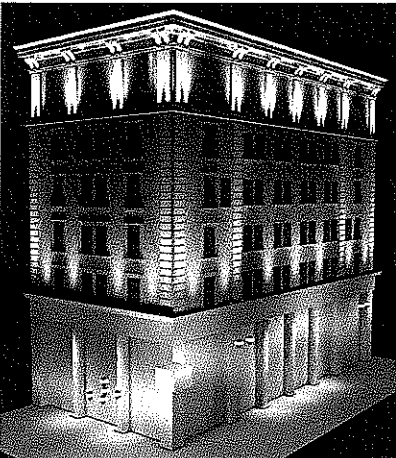
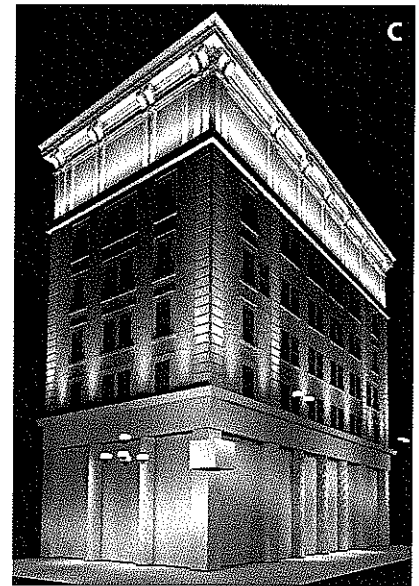
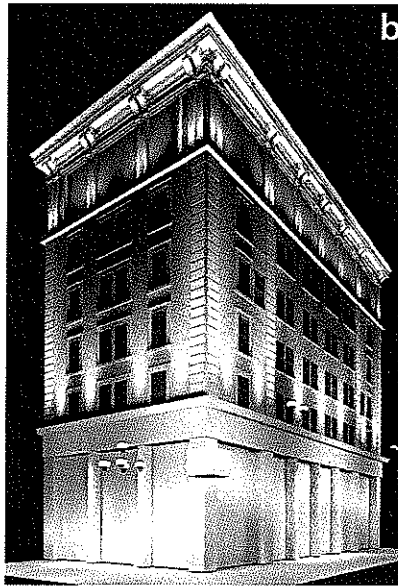
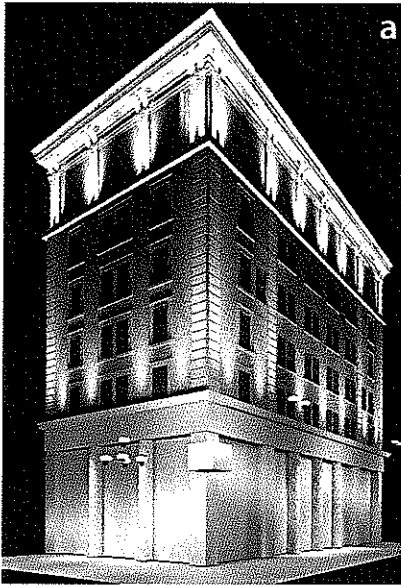
Project Costs
\$533,929 (Fee)

Baker's Role

- Planning
- Transportation Engineering
- Public Participation/
Outreach

Glazier Building (Lighting Studies Renders)

Ann Arbor, Michigan



Client

Dahlmann Properties (end-user)

Quinn Evans | Architects (direct-client)

Completion Date

2007

Project Costs

US\$60K (rough construction estimate)

US\$5K (lighting fees)

GSLD's Role

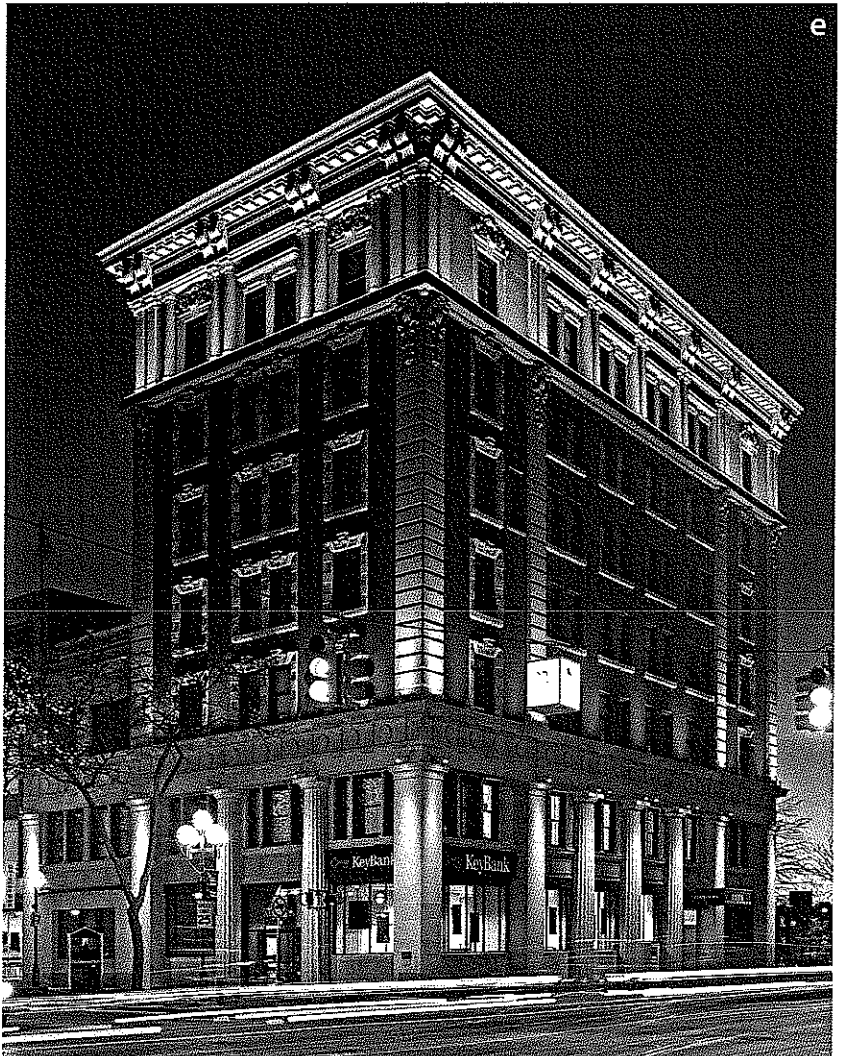
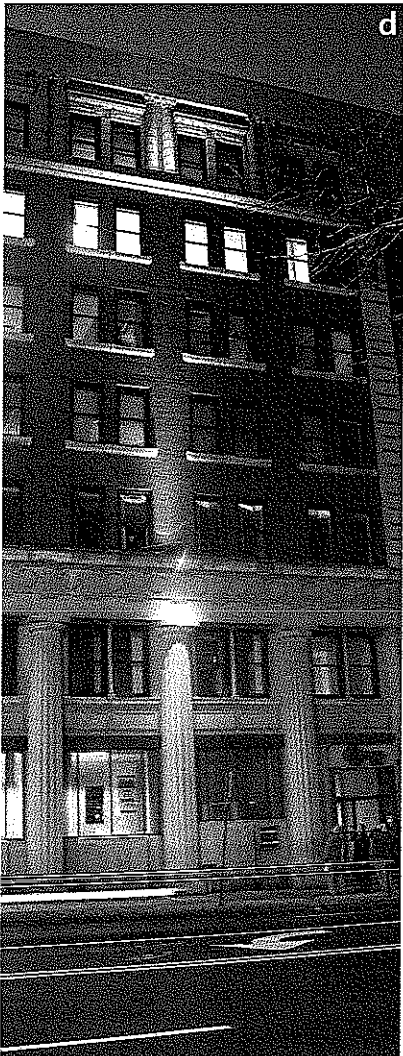
- Exterior Façade Lighting Design
- "c" Represents Selected Scheme

Image ©GSLD



Glazier Building

Ann Arbor, Michigan



Client

Dahlmann Properties (end-user)

Quinn Evans | Architects (direct-client)

Completion Date

2007

Project Costs

US\$60K (rough construction estimate)

US\$5K (lighting fees)

GSLD's Role

- Exterior Façade Lighting Design
- "d" Represents Mockup

Image ©GSLD

Illinois Capitol

Springfield, Illinois



Client

State of Illinois (end-user)

Vinci Hamp Architects (direct-client)

Completion Date

2009 (Master Plan completion)

Project Costs

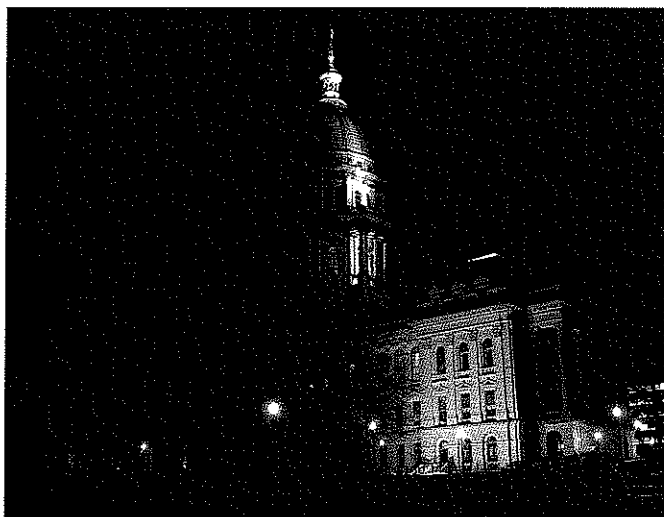
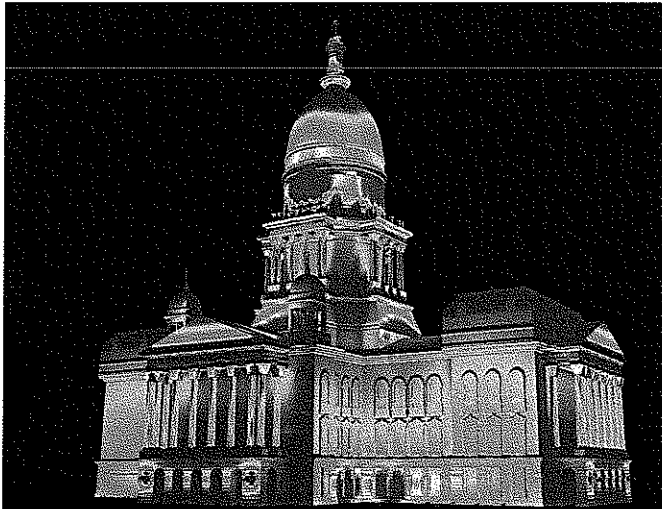
US\$2MM (rough construction estimate;
facade lighting)

US\$90K (master plan lighting fees)

GSLD's Role

- Master Plan: Interior Public Spaces Lighting
- Master Plan: Façade Lighting Design
- Capitol Façade light study shown here
- TOP: Lighting Render
- MIDDLE: Illuminance Render
- BOTTOM: Mockup in Springfield

Image ©GSLD



Michigan Capitol

Lansing, Michigan



Client

State of Michigan (end-user)
Quinn Evans | Architects (direct-client)

Completion Date

1992

Project Costs

US\$60MM (rough construction estimate)
US\$1MM (rough lighting estimate)
US\$85K (lighting fees)

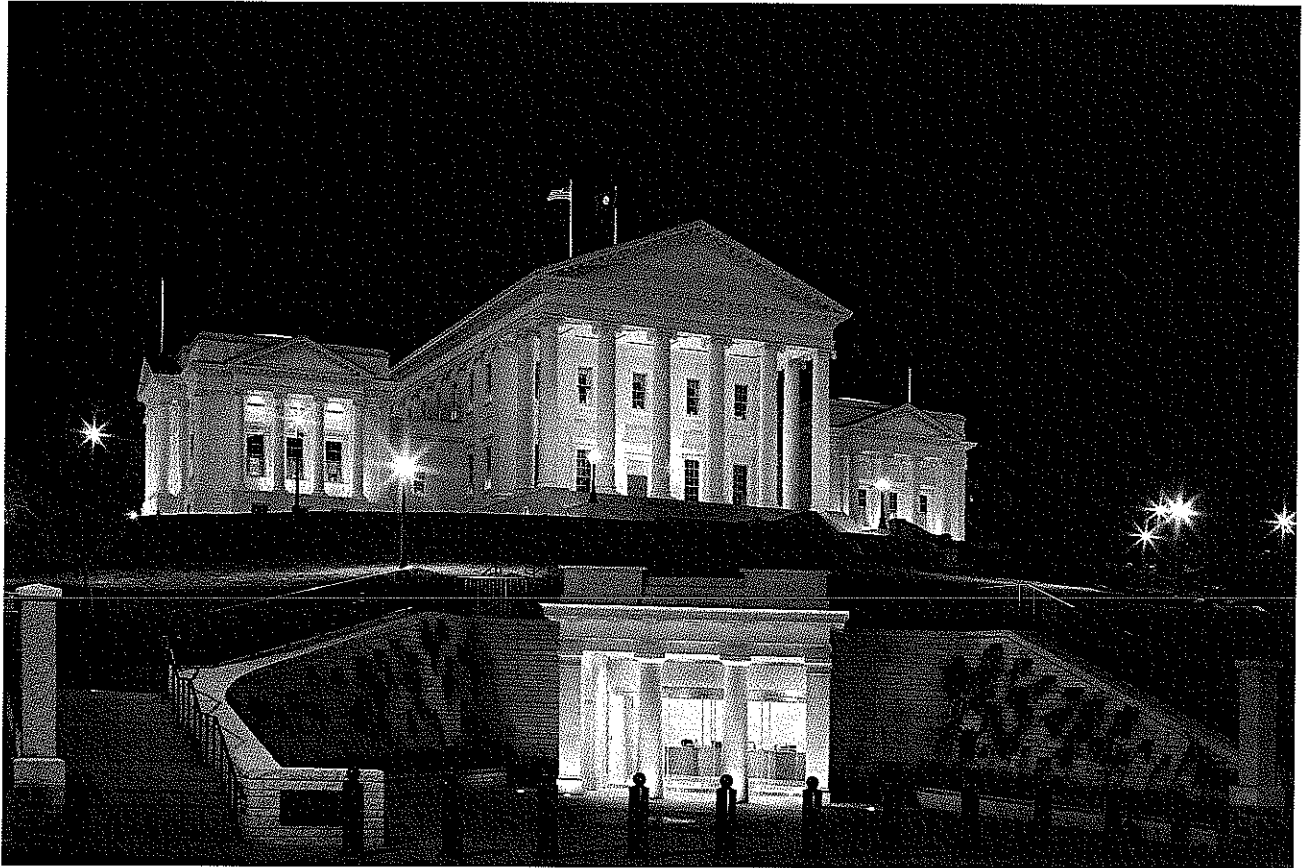
GSLD's Role

- Interior Public Spaces
- Façade and Site Lighting Design
- Capitol Façade and Site shown here

Image ©Balthazar Korab, Ltd.

Virginia Capitol

Richmond, Virginia



Client

State of Virginia (end-user)
RMJM Hillier (direct-client)

Completion Date

2007

Project Costs

US\$100MM (rough construction estimate)
US\$3MM (rough lighting estimate)
US\$125K (lighting fees)

GSLD's Role

- Interior Lighting Design
- Exterior Façade and Flag Lighting Design
- Capitol Façade and Visitors' Center shown here

Image ©Philip Beurline/Syndicate Six