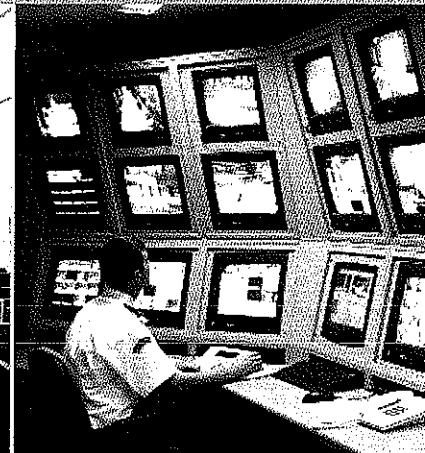




WEST VIRGINIA DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2109 WASHINGTON STREET, EAST
 CHARLESTON, WV 25305
ATTN: TARA LYLE

RFO DEFK11028 PROFESSIONAL ARCHITECT/ENGINEERING
 WEST VIRGINIA NATIONAL GUARD JOINT OPERATIONS FACILITY

MARCH 22, 2011/1:30 PM



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 DEPT OF ADMIN
 CHARLESTON WV

SWANKE HAYDEN CONNELL ARCH



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
DEFK11028

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**TARA LYLE
 304-558-2544**

VENDOR

**RFQ COPY
 TYPE NAME/ADDRESS HERE**

Swanke Hayden Connell Architects
 4455 Connecticut Avenue NW
 Suite A400
 Washington, DC 20008

SHIP TO

**DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION**

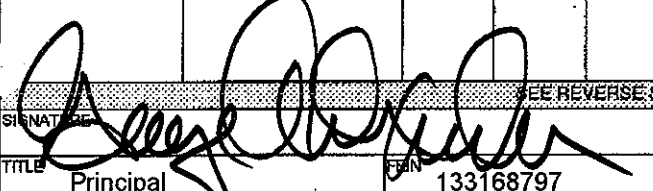
**1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/01/2011				

BID OPENING DATE: **03/15/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOM	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV NATIONAL GUARD, DIVISION OF ENGINEERING AND FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A JOINT OPERATIONS FACILITY TO BE LOCATED IN THE VICINITY OF THE WEST VIRGINIA NATIONAL GUARD STATE HEADQUARTERS IN CHARLESTON, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.</p> <p>DEADLINE FOR ALL TECHNICAL QUESTIONS IS 2/23/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE:  TELEPHONE: 202-244-2500, x201 DATE: March 21, 2011

TITLE: Principal FAX: 133168797 ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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
DEFK11028

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE
304-558-2544

RFQ COPY
TYPE NAME/ADDRESS HERE

Swanke Hayden Connell Architects
 4455 Connecticut Avenue NW
 Suite A400
 Washington, DC 20008

DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/01/2011				

BID OPENING DATE: **03/15/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER:-----TL/32-----</p> <p>RFQ. NO.:-----DEFK11028-----</p> <p>BID OPENING DATE:-----03/15/2011-----</p> <p>BID OPENING TIME:-----1:30 PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p>						

SIGNATURE 			SEE REVERSE SIDE FOR TERMS AND CONDITIONS		TELEPHONE 202-244-2500, x201	DATE March 21, 2011
TITLE Principal		FAX 133168797		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
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- George Alexander, AIA, RIBA Principal 202-244-2500, x201 ***** THIS IS THE END OF RFQ DEFK11028 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE 	TELEPHONE 202-244-2500, x201	DATE March 21, 2011
TITLE Principal	FAX 133168797	ADDRESS CHANGES TO BE NOTED ABOVE

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**Request for
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DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/08/2011				

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

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. TO MOVE THE BID OPENING FROM 03/15/2011 TO 03/22/2011. 3. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID. EXHIBIT 10						
REQUISITION NO.: DEFK11028						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO. 'S:						
NO. 1						
NO. 2						
NO. 3						
NO. 4						
NO. 5						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 202-244-2500, x201	DATE March 21, 2011
TITLE Principal	FAX 133168797	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia
 Department of Administration
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BID OPENING DATE: 03/22/2011 BID OPENING TIME 01:30PM

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

[Handwritten Signature]
 SIGNATURE

Swanke Hayden Connell Architects
 COMPANY

March 21, 2011
 DATE

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

REV. 09/21/2009

END OF ADDENDUM NO. 1

0001

JB

906-00-00-001

1

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Handwritten Signature]</i>	TELEPHONE 202-244-2500, x201	DATE March 21, 2011
TITLE Principal	FEIN 133168797	ADDRESS CHANGES TO BE NOTED ABOVE

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

Ms. Tara Lyle
March 21, 2011
Page 1 of 2

4455 Connecticut Avenue, NW, Suite A400, Washington D.C. 20008
202 244 2500, Fax 202 244 2501

March 21, 2011

Ms. Tara Lyle
West Virginia Department of Administration
Purchasing Division
2109 Washington Street, East
Charleston, WV 25305

**RE: RFQ DEFK11028 Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility**

Dear Ms. Lyle,

Swanke Hayden Connell Architects (SHCA) is pleased to submit this Expression of Interest in response to RFQ DEFK11028 for the proposed new West Virginia National Guard Joint Operations Center. SHCA maintains a long-standing relationship with the State of West Virginia, having provided award-winning historic preservation and restoration services for the West Virginia State Capitol, First Presbyterian Church, and Holly Grove Mansion. In addition, we bring a special expertise in the design of command and control centers, operation centers, and other public safety facilities.

SHCA is an international, award-winning design firm with more than fifteen years experience in providing a full array of architectural design and project management services for command, dispatch operations and emergency response centers projects. These projects range in size from 10,000 square foot renovations to a new 400,000 square foot building. The Key Personnel selected for this project are seasoned professionals with relevant communications and operations center experience. They have a proven track record of performance to deliver projects with strict budgets, schedules and exemplary project delivery. These attributes would, we believe, will be an asset to the West Virginia National Guard over the course of this project.

For this project, we have identified Louis Krupnick, AIA, LEED AP as Project Manager and Joseph J. Aliotta AIA, LEED AP BD+C as the Design Principal. Mr. Krupnick's career includes significant experience with operations and command centers for military facilities. Most recently, he led the design and planning for the US Army's Center of Excellence for C4ISR Activities, a new 350-acre campus with 14 buildings totaling 2.5M square feet, at Aberdeen Proving Ground. As Project Manager, Mr. Krupnick will lead the day-to-day oversight of the team. Mr. Aliotta has served as the principal-in-charge for each of the firm's public safety commissions including the New York City Office of Emergency Management and the Nassau County Public Safety Center, both featured in this submission. Joining Mr. Krupnick and Mr. Aliotta are Juan Mejia, AIA, LEED AP as Project Architect and Pam Keane as Interior Designer, both of whom have applied their expertise to the firm's standout public safety commissions.

Under SHCA's leadership, is a team of consultants that in combination bring extensive experience in readiness, dispatch, and operations centers; in working for the National Guard at various locations; and in providing A/E services throughout the State of West Virginia. The team is as follows:

- **CMA Engineering (CMA), Charleston, WV – MEP/FP, Communications**
CMA has completed numerous Army National Guard and 911 center projects throughout the state. CMA worked with SHCA on the rehabilitation and adaptive re-use of the Holly Grove Mansion. It is a West Virginia-based small business.

4455 Connecticut Avenue, NW, Suite A400, Washington D.C. 20008
202 244 2500, Fax 202 244 2501

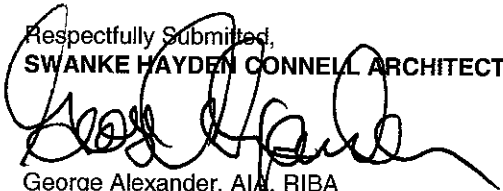
- **CAS Structural Engineering (CAS), Charleston, WV – Structural Engineering**
CAS was also a member of the A/E team for the Holly Grove Mansion rehabilitation. In addition, CAS worked with SHCA on the restoration of the West Virginia State Capitol Dome and the exterior repair and restoration of the First Presbyterian Church in Charleston, WV. The firm most recently completed the Preston County 911 call center and office of emergency services.
- **Weidlinger Associates, Inc. (WAI), Washington, DC – Blast/Force Protection Engineering**
WAI has contributed to three of SHCA's most notable public safety projects—the NYC Office of Emergency Management, the Nassau County Public Safety Center, and the Fire Department of New York Training Academy at Randall's Island.
- **Chapman Technical Group (CTG), St. Albans, WV – Site/Civil Engineering, Surveying, and Landscape Architecture**
CTG provided site/civil, surveying, and landscape architecture services for the Air National Guard Support complex in Charleston, WV.
- **Shen Milsom & Wilke (SMW), Arlington, VA – IT and Audiovisual Consulting**
SMW has worked side-by-side with SHCA for more than twenty years, providing multimedia design to interconnect technology for network operations centers and emergency operations centers, most notably the original and new NYC Office of Emergency Management Headquarters.
- **Crawford Consulting Services (CCS), Pittsburgh, PA – Cost Estimating, Value Engineering**
CAS has an extensive portfolio consisting of projects completed for federal, public, and private clients ranging in size from under 10,000 SF to more than 800,000 SF. Within the past five years, CCS has provided cost estimating and VE services for 15 reserve center and readiness center projects along the east coast and as far west as Texas. CAS is a woman-owned small business.

Collectively, the SHCA team brings the required expertise, a record of superior service and high quality design to this assignment. The experience highlighted in this submission as relevant projects and referenced throughout the resumes of Key Personnel testify to the team's ability to provide A/E design services that will result in a consolidated facility that still respects the differing cultures of the user groups asked to operate as a unified facility. The veteran resources we bring to this assignment are certain to ensure our performance.

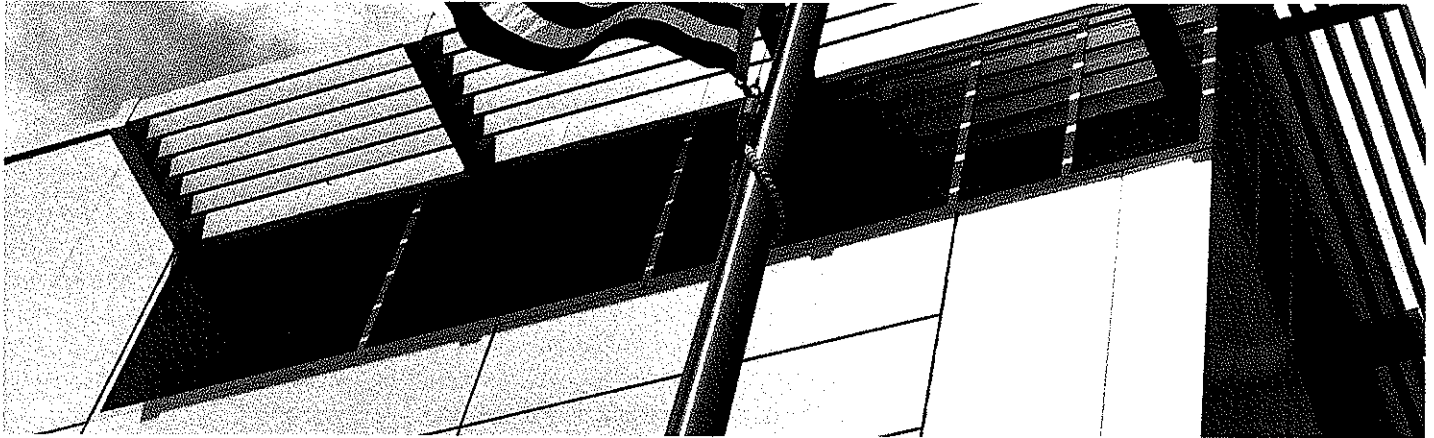
This assignment is an exciting opportunity. We hope this submission provides you and the selection committee with enough information to warrant our selection to the next phase of this procurement.

Respectfully Submitted,

SWANKE HAYDEN CONNELL ARCHITECTS



George Alexander, AIA, RIBA
Principal-Washington DC Office



Project Approach

Swanke Hayden Connell Architects (SHCA), using our background in the design of numerous other public safety and emergency operations centers, will work closely with West Virginia stakeholders to develop a design that fulfills the specific needs and requirements for this project. For the Joint Operations Center, Project Manager Louis (Lou) Krupnick will work in conjunction with Design Principal Joseph (Joe) Aliotta to review the proposed program with local leadership and develop a design that addresses project requirements, is responsive to site conditions and adjacent structures, is energy efficient and user friendly, and is fully compliant to the regulations that govern this type of facility.

Lou Krupnick, AIA, LEED AP has worked extensively with the Army and Air National Guard on more than 30 projects in six states, including West Virginia, and will be responsible for project management, programming, and planning. He is a pilot and active member of the USAF Auxiliary and to minimize travel time and cost, will use general aviation to travel from his home base to Charlestown, a flight of less than two hours. Joe Aliotta, AIA, LEED AP has been responsible for the design of (emergency) operations centers for a multitude of first responders in state and local municipalities, and together they will form the backbone of the SHCA team.

Included below is a brief overview highlighting our approach to this project. If we are selected for an interview, these items will be discussed in much greater detail at that time.

Programming

Prior to commencing design, SHCA will meet with project representatives to review the building program, proposed building location and review all pertinent information. Using our experience in force protection, (you'll note that we are currently providing similar services for the State Department all over the world), we'll work to identify all criteria which will influence the design of the building, before we commence design.

Depending on the level of complexity contained within the existing programming documents, we may conduct either a simple review or hold a charrette—an interactive problem-solving and planning meeting which allows us to more closely identify specific needs, spatial relationships, and functional requirements. This also provides an opportunity for us to listen to leadership and users alike to better understand how they would like the facility to operate.

After this initial review has been conducted, we will synthesize what we have learned regarding site and building relationships and prepare a series of sketches and narrative describing our understanding of 'the Basis for Design' for review and approval by project stakeholders.

Schematic Design

Although the Basis for Design provides insight into how a building should be organized, it doesn't really describe what form it should take or what it should look like. As our designers progress, we'll look closely at a variety of influences which shape the general



Project Approach

architecture of this building, including the design of other nearby buildings or perhaps architectural goals and features the Owner may wish to see addressed. The energy efficiency of the building is very much influenced by topography, building orientation and other site features and these, along with other requirements necessary to obtain a LEED Silver certification will be thoroughly investigated at this time.

During this process, we'll meet several times with Leadership to ensure that the preliminary design of the building is reflective of the goals identified in the Basis of Design. Schematic design will culminate with a preliminary site plan, building floor plans, and exterior elevations identifying proposed materials. Additionally, we'll provide conceptual diagrams of structural, mechanical, plumbing, electrical, communications and fire/ life safety systems for consideration. A preliminary cost estimate will be provided to confirm the budget and in conjunction with other documentation will be presented for review, comment and approval.

Design Development

Once the drawings have been updated to reflect any schematics level changes, SHCA and our engineering design team will continue to refine and further develop the design for the site, building and all related systems. Again, there will be regular meetings with stakeholders during this phase, ensuring there is ample opportunity for all to participate in making the major decisions and choices under consideration. SHCA will employ a variety of hand sketches, 3-D renderings or even small models to help communicate major concepts and considerations.

At the conclusion of design development, the design team will provide the following: an in-depth analysis of all building components and systems; an accounting of all spaces and their relationships to one another; outline specifications; and a cost estimate for the Owner's review. We'll prepare a narrative describing the choices made and criteria used for selecting the various building elements proposed, ranging from the type of materials used to the buildings' mechanical and electrical systems. Emphasis will be placed upon selecting materials and products that are durable, easily maintained, environmentally friendly and are appropriate for their intended use.

Construction Documentation

During this phase when the final decisions are made and plans prepared which identify the specifics of how the building is to be constructed, SHCA and our team of engineering professionals will continue to meet on a regular basis with project stakeholders. Internally, the architects and engineers will work closely to ensure that conflicts between trades, systems and equipment are avoided and the final product is one that may be easily constructed.

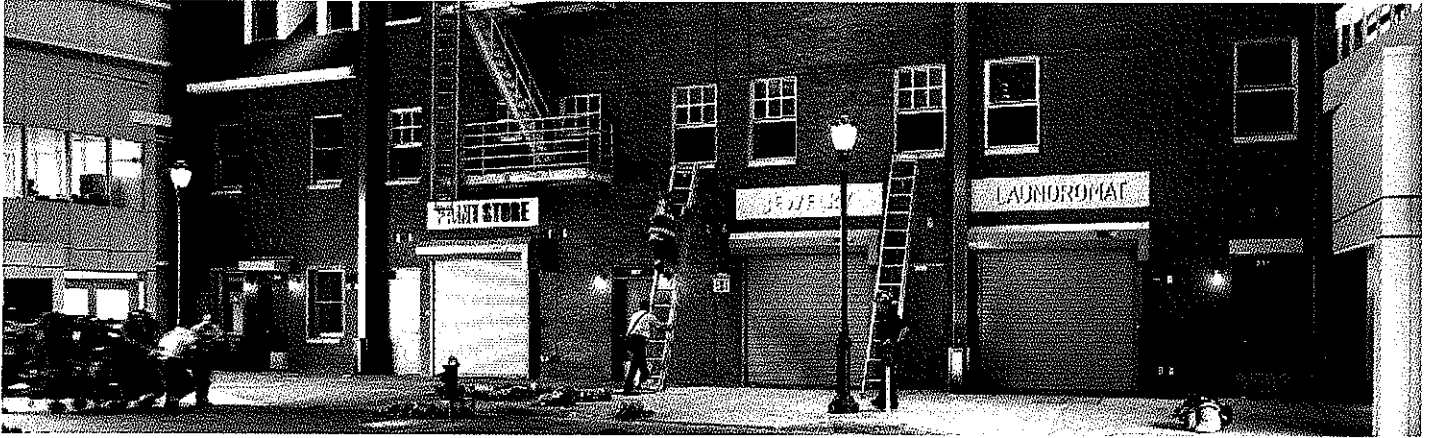
At the end of this process, a complete set of documents including plans and specifications will be presented to stakeholders for their internal review, along with a thorough cost estimate and other relevant documentation. We'll present the documents, page by page, to explain what they contain so all will have an understanding of what they contain.

Bidding

During the bidding period, SHCA will be available to assist the purchasing department with answering the questions that always come up. We will provide any addenda or clarifications requested by bidders in a timely fashion to help speed the process along. If desired, we can also assist the State with bid review to help select the lowest responsible bidder.

Construction Administration

During the actual construction of the Joint Operations Center, we will meet on a predetermined basis with the State's project representative and contractor to facilitate the work. SHCA and our design team will provide experienced construction professionals to review the work, respond to contractors' questions, process shop drawings and approvals, and review requests for payment on a timely basis. Upon completion of the project, we'll develop a 'punch list' or corrective list of items for the contractor and assist the State in closing out the project.



Public Safety

Swanke Hayden Connell Architects (SHCA) has a distinguished portfolio of public safety work. Beginning 15 years ago with work for the Fire Department of New York City, the firm's expertise has extended to the entire spectrum of facilities for fire, police, medical emergency, military, emergency management, and training. Working closely with local, state and federal clients, SHCA provides award-winning services in architectural design, planning, programming and consulting.

Following SHCA's successful design of the Randalls Island FDNY Fire Training Academy, the firm was commissioned for two significant public safety projects, the Nassau County Public Safety Center, and the Applied Science Center of Innovation and Excellence in Homeland Security in Bethpage, NY, both of which were recently completed.

The firm's portfolio also includes the original and new NYC Office of Emergency Management, E911 Radio Communications Center, EMS Citywide Dispatch Operations Center, Public Safety Answering Center, the FDNY Dispatch Operations Center, FDNY Headquarters; and FDNY Data Center at 11 MetroTech.

Over the past five years SHCA has been successful in expanding our public safety credential into the Mid-Atlantic Region. The firm is currently completing an IDIQ contract (with the District of Columbia's Fire & EMS Department (DCFEMS). In addition, SHCA is currently designing a Campus Control and Emergency Response Command Center in the Washington, DC Metropolitan Area for a federal agency.

The selection of projects presented in the following pages is representative of our work in this sector.



Office of Emergency Management New York, NY



SALIENT FEATURES

- Highly secured 24/7 mission-critical facility
- Multi-agency facility
- Highly reliable electro-mechanical redundancy
- 6,400 SF Emergency Operations Center
- IT + Communications Integration
- Cost: \$17,000,000

The New York City Office of Emergency Management occupied 35,000 SF of office space in downtown Manhattan. Its purpose was to provide the Mayor, OEM and other City agencies involved with the activation of the Emergency Operations Center. The state-of-the-art EOC staff collected, assessed, planned and coordinated multi-agency response to events ranging from weather related emergencies to planned major events such as a presidential visit to counter terrorist activities. During non-emergency periods, OEM prepared guidelines for handling future emergency situations. Major program spaces such as the EOC, 24 hour/7 day a week Watch Command, Crisis Management Center, Press Room and necessary support spaces were housed on one floor. The EOC was designed to operate self-sufficiently on an emergency basis for at least a week with its own emergency electrical power and water supply, utilizing a 6,000-gallon fuel tank and an 11,000-gallon potable water supply. The ventilation system was capable of 99% filtration and computers, phones and radios were all individually set with uninterrupted power supply. In addition, the center housed a Press Room for press briefings including network TV feeds and call taking for emergency hot-line phone numbers.

The 6,400 SF EOC provided over 70 workstations and a dozen agencies to occupy the center during emergency activation. The Mayor, OEM senior management could oversee and coordinate agency responses from the Crisis Management Center utilizing audio-visual system interconnectivity to the emergency response computer systems and cable TV. The EOC could monitor the city's major waterways with a connection to the U.S. Coast Guard and had access to camera feeds with the Department of Transportation to monitor major roadways for the five boroughs.

The design of the EOC required special attention to the work environment in order to provide comfortable surroundings for staff on call for extended time periods and high stress during emergency responses. Workstation flexibility was necessary for the EOC to accommodate additional staff in the case of an emergency. The color palette, direct/indirect lighting design and controls, HVAC comfort and ergonomic design of the dispatch workstations were critical design components that were considered.

This facility was destroyed in the 9/11 attacks on New York City. It has since been replaced by the new Office of Emergency Management in Downtown Brooklyn, also designed by SHCA.

Project Owner:

New York City Office of Emergency
Management

Contact:

Henry Jackson, Deputy Commissioner
Phone: 718-422-4611

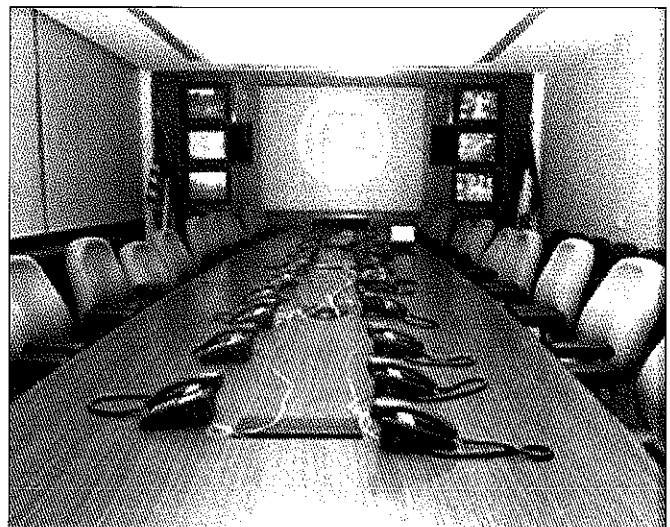
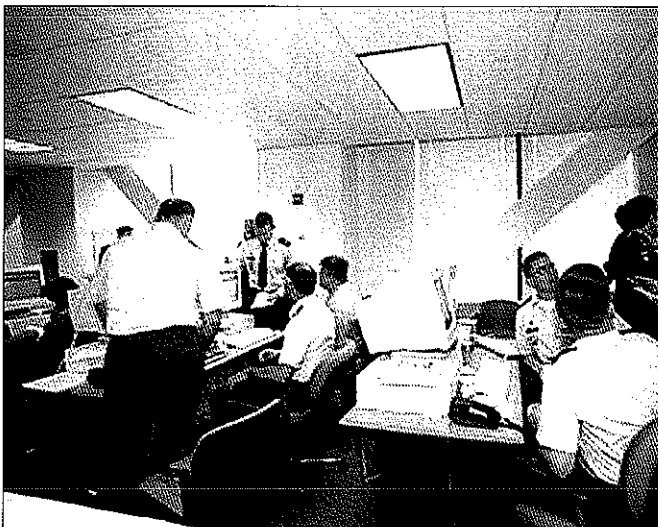
Completion:

June 1999



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

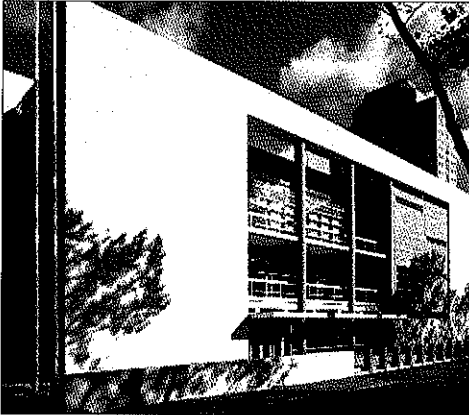
Office of Emergency Management





Office of Emergency Management Brooklyn, NY

LEED Silver Certified



SALIENT FEATURES

- LEED Silver Certification
- Repeat commission
- Rebuild of 70% of existing building
- Additive structures-new core + new facade
- Adaptive reuse-converted entire office building
- Highly secured 24/7 mission-critical facility
- Highly reliable electro-mechanical redundancy
- Space Programming (Situation Summaries + Requirements Reports)
- Existing Conditions Assessments (Arch./Eng. Surveys)
- HAZMAT (Abatement & Removal – Design & Specs)
- Master Planning (Stacking & Blocking + Space Planning)
- Lighting System Design
- Acoustical Design
- IT + Communications Integration
- Nuclear, Biological, Chemical Engineering
- **Cost:** \$50,000,000

Project Owner:

New York City Department of Design and Construction

Contact:

Kevin Arscott, Project Director
Phone: 718-391-1513

Completion:

October 2006

AWARDS

- SARA Design Award of Excellence 2007
- ARCHI-TECH Magazine - AV Award 2007
- NY Construction Best of 2006 Awards - Adaptive Re-use

SHCA was retained by the New York City Department of Design and Construction to provide architectural and interior design services for New York City's new Office of Emergency Management (OEM) Headquarters. The original, 45,000 SF collocated facility of the mayor, FEMA, and other city agencies was located in 7 WTC a tenanted office building.

The second facility, which replaced the former headquarters destroyed on September 11, 2001, is located at Cadman Plaza in Downtown Brooklyn. Formerly the site of the American Red Cross building, the location places OEM prominently at the northern terminus of Brooklyn's Civic Center. The project scope called for a re-clad, gut renovation and addition to an existing three-story building. The program, of approximately 65,000 SF, includes a new 100-person Emergency Operations Center, Watch Command, General Office space and a Press and Conference Center. The building is supported by state of the art A/V and IT systems as well as redundant electro-mechanical systems.

The site included a vacant, 50-year-old, three-story building that underwent a renovation which included conversion from a center core building to a side core building by creating an 8,000 SF addition on the north side of the structure. This structure is equipped with new fire stairs, elevators, and restroom facilities. The design criteria called for a highly secure, 24/7, mission critical facility that could resist Category 4 hurricane forces, as well as seismic design and blast resistance in accordance with GSA design criteria. The mechanical systems were programmed for 2N and N+2 design redundancies including incoming services/utilities, UPS, emergency generators electrical /telecommunications systems distribution systems.

The site plan design includes a new ornamental steel fencing on three sides as well as the parking area and bollard protection at strategic points. The infrastructure improvements include all new electrical wiring, water service, a new 8,000-gallon fuel oil tank and gas connection which provides alternate fuel for the boilers. Emergency generators as well as the air conditioning system are located on the roof.

The basement houses mechanical space, storage, a small exercise area, restrooms, locker room, and a reprographics room. On the first floor is a security and reception area, a press room that allows for live broadcasts, a training room, conference rooms, storage, a receiving/mail room, and a computer network room.

The Commissioner and Deputy Commissioners' offices as well as the offices of the OEM staff, conference rooms, and support area is located on the second floor. The third floor houses the Emergency Operations Center (EOC) with approximately 100 workstations for the various city agencies required to coordinate services during any predictable emergency. The Center is linked to all communications channels (radio,



Office of Emergency Management

internet, television etc.) and has the capability to operate around the clock, if required.

The third floor houses a conference "war" room for the Mayor and the "watch" command—a 24/7 operation—as well as additional office space.

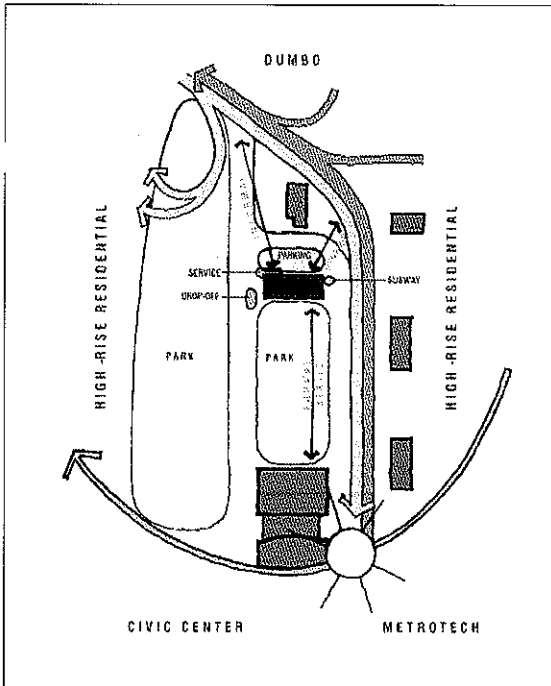
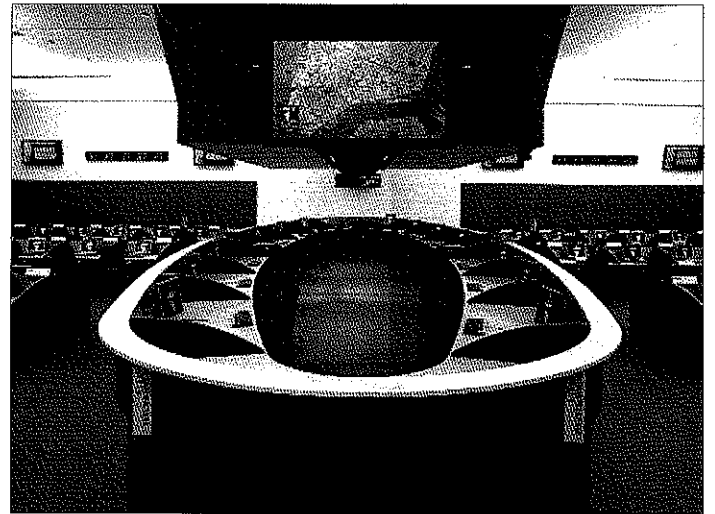
LEED® Design Aspects

- Correct disposal and recycling of debris.
- Use of manufacturers that are within a 500-mile radius and making sure that they are using the correct percentage of recycled material as per LEED® standards.
- Use of reflective materials such as roof pavres and insulated construction which contribute to energy savings.
- Use of energy-efficient equipment in the mechanical systems.
- Use of co² sensors in conference rooms and other spaces to conserve energy with the amount of fresh air and conditioning based on the number of persons in a room.
- Commissioning the MEP systems to guarantee that the systems are installed correctly and function at peak efficiency to meet the energy conservation ratings.
- Use of water conserving fixtures, such as waterless urinals and electric metered faucets, and low consumption toilets, as per code.
- Provision for dedicated parking for car pool vehicles and bicycle racks for alternate transportation points, as well as a parking and recharging station for electric and hybrid vehicles.
- Shaded areas, from existing trees, at the parking lot and the front of the building.
- Use of Energy Star appliances.
- Client providing an approved pest control system.
- Client provided staff seminar to educate employees on how to make use of LEED® equipment and services.

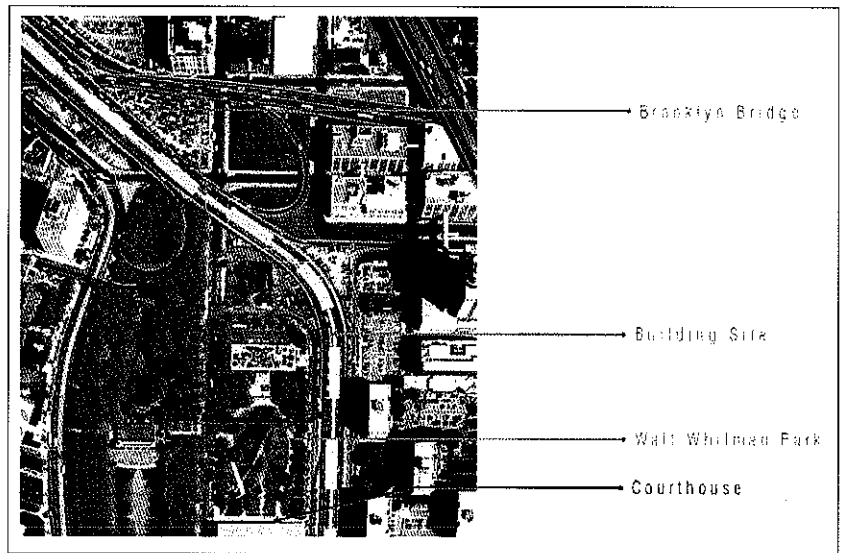




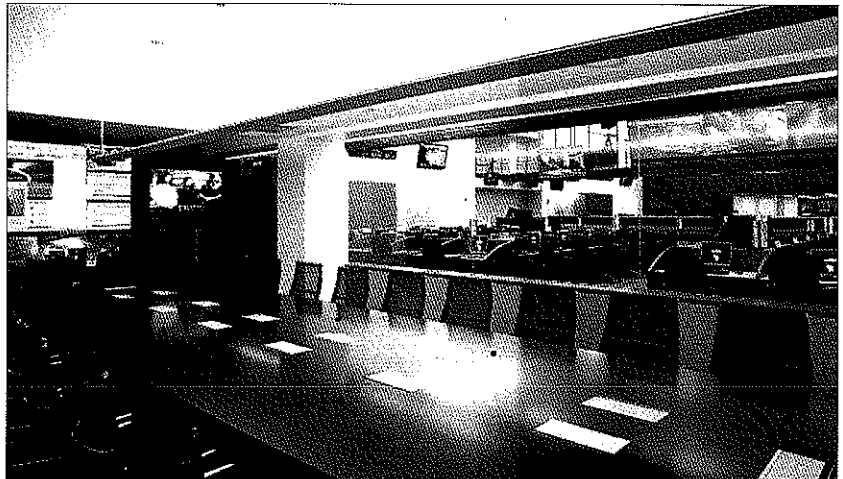
Office of Emergency Management



Site Analysis



Site Context





Nassau County Public Safety Center Westbury, NY



SALIENT FEATURES

- Collocation of 13 existing public agencies
- Adaptive reuse – converted warehouse
- 50% new addition
- Mission-critical 24/7/365 911 Public Safety Answering Center for the entire County
- Highly reliable electro-mechanical redundancy complete with UPS and emergency generators
- High-security areas
- Special spaces design criteria
- Space Programming (Situation Summaries + Req'm'ts Reports)
- Existing Conditions Assessments (Arch./Eng. Surveys)
- HAZMAT (Abatement & Removal – Design & Specs)
- Master Planning (Stacking & Blocking + Space Planning)
- **Cost:** \$46,900,000

Project Owner:

Nassau County Department of Public Works

Contact:

Gus Xenakis, Jacobs Global Buildings North America, Project Manager for Nassau County Department of Public Works
Phone: 516-571-9630

Completion:

December 2010 (substantial completion)

As part of a County-wide consolidation program, Swanke Hayden Connell Architects was commissioned by Nassau County to provide architectural, engineering, interior design and graphic design services for the new 290,000 sq. ft. Public Safety Center. The original program intended to consolidate existing facilities from over eleven different locations to house all of the Police Department headquarters functions as well as the majority of police bureaus and squads. Program spaces included Large Multi-Purpose Assembly Room and Conference / Training Center, the Police Museum - containing displays of police memorabilia, Police Communications for Emergency Services, the Patrol and Detective Divisions (including Defendant Interview Rooms, Line-Up, SVU Interview & Polygraph Suite), NASS-STAT, Forensics Laboratories (including Ballistics, Latent Fingerprints, Chemicals, Serology), Secure Evidence and Property Storage and Detention Lock-up. The Office of the Fire Marshall is also located within this building. A Haz Mat and Bomb Squad response facility is on-site to support all emergency response situations.

Due to County budget constraints, the project is phased to relocate portions of the Police Department's program, the E911 Communications Center and the Office of the Fire Marshall. Subsequent phases will relocate the remainder of the program space.

In addition to the complex phasing of this project, another challenge was to provide a secure E911 Communications Center within a building with full public access for other County business. This was accomplished by surrounding the secure E911 "kernel" within the protective shell of the outer building, providing secure 100 ft. setbacks from the street and designing the "kernel" in conformance to NFPA 1221. The Center is also supported by state-of-the-art A/V, IT and Radio Communications systems as well as N+1 redundant electromechanical systems.

The architectural design objective for the Nassau County Public Safety Center (NCPSC) is to create a distinctive civic presence on a limited construction budget. This is accomplished with contemporary materials and by the prominent entry features on the north and west elevations of the building. Additionally, the materials palette - channel glass curtain wall, windows, and flat and textured terra cotta panels - are employed to articulate the building volumes, help identify the egress and access points and emphasize the overall horizontal nature of the building enclosure. The focus on the front façade is also part of an overall design strategy that recognizes the limited budget and so endeavors to aesthetically "prioritize" the building envelope by zoning from front to back (most public to least visible).

As a facility housing multiple public safety and emergency services agencies, the Nassau County Public Safety Center is a highly-relevant project. The following features of the NCPSC correspond to the variety of design and programming requirements as outlined in the RFQ for the Fairfax County Public Safety Headquarters Building:

- Communications Center with state-of-the-art A/V and IT systems and redundant electromechanical systems
- Planned for phased construction
- High-security areas



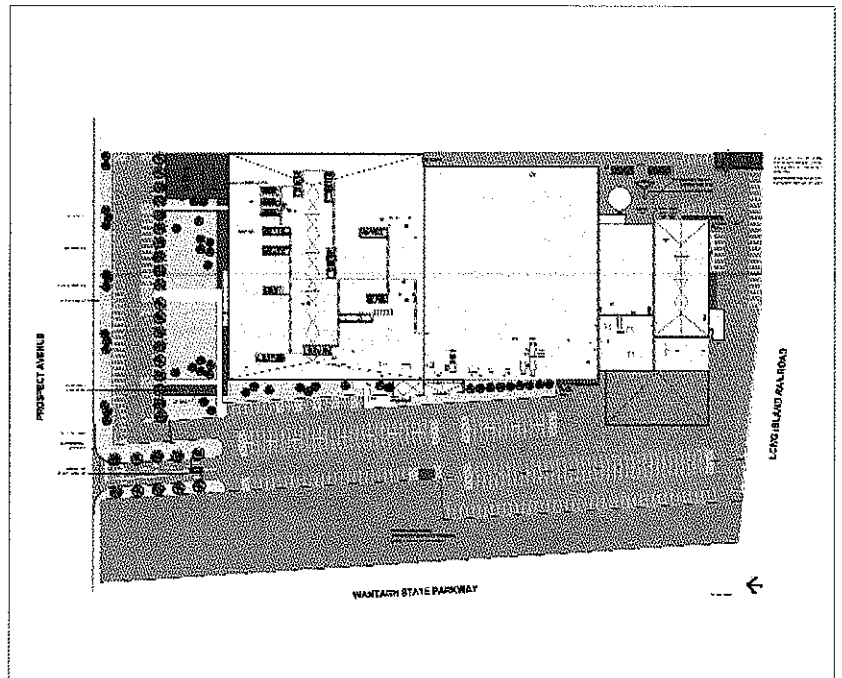
Nassau County Public Safety Center

- Special spaces design criteria
- Lighting System Design, Acoustical Design, IT + Communications Integration

Design Solutions

As a firm with extensive experience within the public safety sector, SHCA has proven to be adept at providing innovative design solutions that meet the various, sometimes shifting, requirements of a facility oriented toward public safety and emergency service, while remaining sensitive to budget limitations. SHCA's responses to the programmatic needs and challenges of the NCPSC project include the following:

- Because the existing building was too small for the program, a new 90,000 sq. ft. second floor was constructed within the existing building. This required structural upgrading of the existing foundations and columns.
- The E-911 call center "kernel" was encased within the protective shell of the outer building in order to secure it within a building with full public access for other County business and that is also on a tight site.
- The building was able to remain open to the public during the complex construction because of an approach that included phasing and the creation of temporary access facilities.
- SHCA completed a "face lift" of a utilitarian warehouse to a prominent Public Sector Facility by using contemporary materials, such as channel glass and modular terra cotta panels.





Public Safety Answering Center Brooklyn, NY



SALIENT FEATURES

- Pre-design Services (Survey, Programming and Phasing), Architectural and Interior Design Services, Graphic Design and Signage Services and Architectural Construction Management Services
- Operations maintained during renovations
- Mission-critical facility
- Approximately 90,000 USF of data center and high technology spaces.
- All critical building systems are planned to have N+2 redundancy for Power, UPS, EPS and cooling systems.
- **Cost:** \$80,000,000

Project Owner:

New York City Department of Citywide Administrative Services

Contact:

Glen Pymeto
Phone: 718-669-8094

Completion:

March 2009

SHCA was commissioned by the City of New York to perform the following services for the phased consolidation and expansion of the live E911 Call Center known as Public Service Answering Center (PSAC I). SHCA consolidated all 911 call-taking and dispatch operations for Police, Fire Department and Emergency Services into one centralized facility. The PSAC I houses over 116 call-takers who are trained for police, fire and EMS emergencies and 130 specialist dispatchers. This is the first time in New York City's history that these operations are located together.

In designing the PSAC I space, special attention was paid to create a soothing and comfortable 24/7 work environment for a staff that works 12-hour shifts with limited breaks and very high stress. The palate was kept both natural and neutral, which gives a feeling of nature and provides a serene atmosphere. To achieve the maximum height possible the ceiling was broken into coffers, which aid in acoustical control as well as providing ergonomically correct lighting levels. The operator's consoles were designed with ergonomics, efficient communication and flexibility in mind. The open plan configuration facilitates the cohesive communication between the call-taking operation and police, fire and EMS dispatch personnel. SHCA developed a detailed phasing program in order to keep the existing Data Center and E911 operations live 24/7/365 while the renovations occurred.

All spaces were designed to meet all local city, state, and Federal codes and ADA regulations. All furniture, finishes, consoles and all custom equipment units had to meet fire code requirements, city contract requirements and Union approvals.

Phase I: Creation of a 20,000 SF data and radio communications center with a network operations center and IT support staff of 15 and the relocation of general office staff outside of the building for the FDNY.

Phase II: Expansion of existing data center and radio communications for the consolidated dispatch operations.

Phase III: Design and construction of an entirely new consolidated E911 facility. The program called for the combining police, fire and EMS call-taking and dispatch operations into one unified operation utilizing the same robust, redundant infrastructure and Computer Aided Dispatch software system. This phase included security upgrades for the facility and lobby. Additional upgrades for redundant systems were installed for fuel oil, fiber optic cabling, cooling system, and emergency generator and UPS systems. Additional redundant telecommunication point-of entries and risers were provided. The new E911 facility is designed to maximize operation comfort within an existing constrained facility including lighting controls for 24/7/365 operation offering several presets coordinated with the window shades for one touch operation.

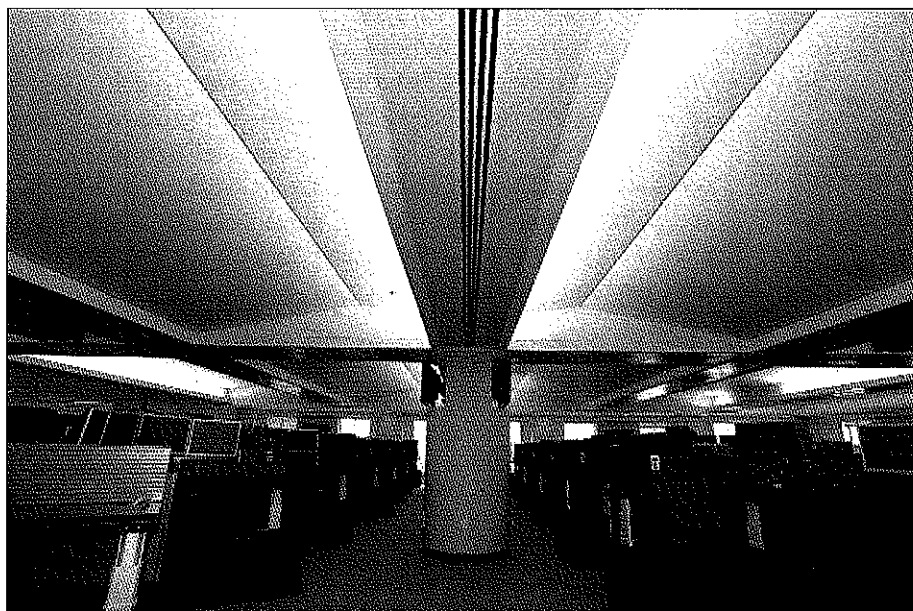
Three types of custom consoles were designed for call-taking, dispatch and supervisory positions in order to accommodate the equipment requirements and special needs of this operation. User information was collected and applied to develop spatial requirements. In this case, the adjustable sit/stand variety of console was selected, giving the users the most flexibility for comfort and tailored ergonomics



Public Safety Answering Center

during the long shifts. The equipment at each console unit was fine-tuned to effectively perform for a particular agency or the specific operation required. Research was completed on a range of monitor arms to support the large collection of screens located at any one console. Printer stands were also designed to house the large variety of printers required by the operation and match the console finishes for a completely considered and cohesive environment.

Phase IV: Design and construction of entirely new office support and amenities spaces for the entire facility inclusive of cafeteria, lounges, locker rooms, training centers and conference areas.





Borough Communications Office Bronx, NY



Bronx C.O.

SALIENT FEATURES

- Combined Fire & EMS Dispatch Operations
- Maintenance of operations during renovation
- Complete infrastructure upgrades
- **Cost:** \$60,000,000 (combined)

Project Owner:

New York City Department of Design and Construction

Contact:

Samir Shah, Project Director
Phone: 718-391-1430

Completion:

June 2009

SHCA provided comprehensive design services for phased rehabilitation of the five existing FDNY/EMS Dispatch Operations Centers known as Borough Communications Offices (C.O.'s) as part of an overall project to upgrade the citywide communications systems with the goal of providing state-of-the-art Fire and Emergency Medical Service (EMS) services, while respecting and preserving the historic character of the existing buildings. The four earliest C.O.'s are listed on the National Register of Historic Places as part of a FDNY thematic group. This scope incorporates back-up facilities for any one of the five boroughs for both FDNY Dispatch and Emergency Medical Dispatch (EMD) as part of a city-wide initiative that encompasses PSAC I (E911), PSAC II (E911), FDNY C.O.'s and EMD.

The scope of work involved: interior rehabilitation; complete building systems infrastructure replacement with redundant mechanical and electrical systems; combined fire and EMS dispatch operations in a secure environment; and sophisticated audio-visual systems tied to the computer-aided dispatch (CAD) system and television feeds. The building exteriors were restored to their original landmark quality appearance.

To accomplish the complicated phasing of this series of projects, allowing each facility to maintain service and redundancy throughout their upgrade and renovation, SHCA worked closely with the systems integrator to coordinate all of the construction activities and installation of new equipment. All of the facilities were provided with the following technical specifications and architectural treatment: Designed with N+2 redundancy for electrical, generators, UPS and HVAC systems; the "white space", or computer rooms, are protected by FM-200 fire suppressing systems; dispatch areas are protected by a pre-action sprinkler system and floor areas below the access floor are water proofed to prevent water penetrating the "white space; dispatch areas are acoustically treated for optimal use of the space, while maintaining their original architectural character; all C.O.'s security and environmental and electrical systems are remotely monitored at FDNY Headquarters as part of the "SCADA" project.

The Staten Island facility is a mid-century 1961 modern style building. It was returned to its original exterior facade. A small electrical infrastructure building was constructed to house a new electrical switch-gear and UPS. A similar structure will be created to house the corresponding switches and HVAC systems, allowing a seamless integration into the system. This building will be vacated and become part of the equipment hub, with all of the dispatch operations relocated to the new centralized call center for all five boroughs in Downtown Brooklyn, PSAC I designed by SHCA.

The Manhattan C.O is a designated landmark. It received careful attention to its historical detail. Manhattan, similarly to Staten Island, is slated to be a remote equipment hub. As a Hub, it is undergoing a complete infrastructure renovation, inclusive of new generators and new Con-Edison electrical transformer vault. Once the renovation is complete and the services are transferred to the centralized PSAC I call center, the Manhattan C.O. will serve as a hub and will have dispatch back-up in the Bronx.

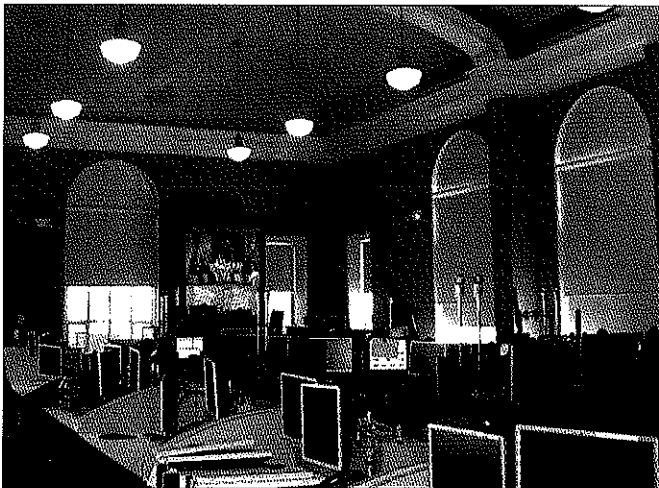
The Brooklyn and Bronx C.O's were constructed around 1913. In addition to returning the buildings to their original appearance, the Bronx structure received a new rear en-



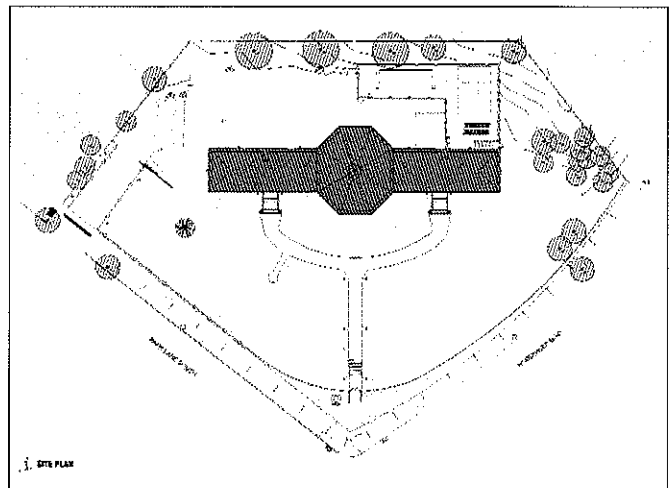
Borough Communications Office

trance vestibule for additional access to the dispatch floor. The Bronx C.O. underwent a full infrastructure renovation and is currently in operation and will serve as back up dispatch center to the Manhattan and Bronx C.O.'s.

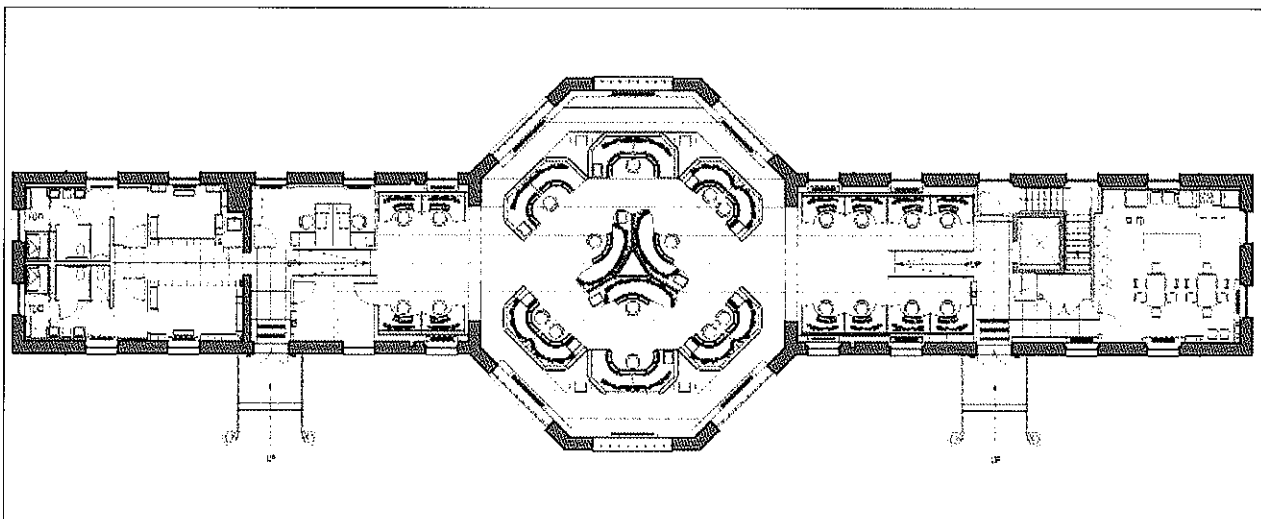
The Queens C.O., constructed in 1926 was returned to its original appearance. This facility, similar to the one in the Bronx, has been fully restored and is in operation now and serves as a back-up to Bronx, Brooklyn and Staten Island C.O.'s.



Communications Center - Bronx



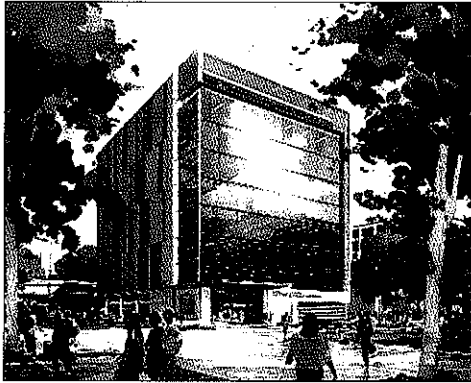
Site Plan



First Floor Plan - Queens



DC Fire & Emergency Medical Services Washington, DC



SALIENT FEATURES

- Comprehensive Services:
 - Master Planning/Programming
 - New Construction
- Public Safety Requirements
- Consolidation of multiple user groups

Swanke Hayden Connell Architects (SHCA) is completing a five year contract with the District of Columbia's Fire & EMS Department (DCFEMS) to provide architectural, engineering, and construction management services in support of a major capital improvement initiative for its facilities. The department's goal is to provide facilities that meet the new evolving challenges of public safety in functional and secure environments for its employees. The scope of the work includes the design and construction of new state-of-the-art facilities and the assessment/renovation/rehabilitation of existing structures, some of which are designated Historic Landmarks. Planning and programming studies for a new headquarters and training academy were among the tasks SHCA completed under this contract.

Headquarters: In May 2007, SHCA was commissioned by the District of Columbia Fire & Emergency Medical Services Department to prepare an architectural program to describe the size and space characteristics for a new headquarters building as well as the initial planning for the relocation of Engine Co. 13 from its current location at 450 6th St., SW. Engine Company #13's Special Foam Units provide support to the White House Presidential and Vice Presidential helicopter operations.

The DCFEMS Headquarters is currently located at 1923 Vermont Ave., NW in an obsolete and inefficient structure built originally as a school. DCFEMS shares the building with the Department of Corrections, having relocated there from the former Municipal Building on H St., NW approximately 25 years ago. A number of the Department's divisions have been decentralized and presently occupy inadequate space in multiple Fire Houses around the District.

SHCA's program establishes the Department's space needs with the following primary goals:

- Consolidation of the Department's Divisions to a central location, approximately 210,000 SF
- Establish a state of the art facility comparable to other major metropolitan US Cities
- Plan a facility to meet the Department's future needs through the year 2018
- Provide for a LEED Certification Silver Rating
- Accommodate the relocation of Engine 13

Fire Training Academy: SHCA prepared a master plan and feasibility study for the District's existing 11-acre Fire Training Academy, constructed in 1960 and largely unimproved. The intent of the study was to evaluate the facility's present condition and to establish priorities for upgrades and future expansion that will support state-of-the-art fire, rescue and emergency medical services and that will address the new challenges of homeland security over the next seven years. The initial phase addresses some of the current issues facing the academy including environmental remediation from years of burning combustible liquids, severely deteriorated roadways, overhead live utility wires, outdated and non-operational fire training props, inadequate parking facilities, poor flow of traffic, abandoned underground storage tanks, inadequate and aging underground utilities, and a lack of modern, safe, fire training simulators. The seven-year plan addresses these concerns, as well as the programmatic needs of the academy. Future phases will include a new 15,000 SF fire recruit training building that can function as an

Project Owner:

District of Columbia Fire & EMS Department

Contact:

Deputy Chief Christopher Jordan
Phone: 202-386-5631

Completion:

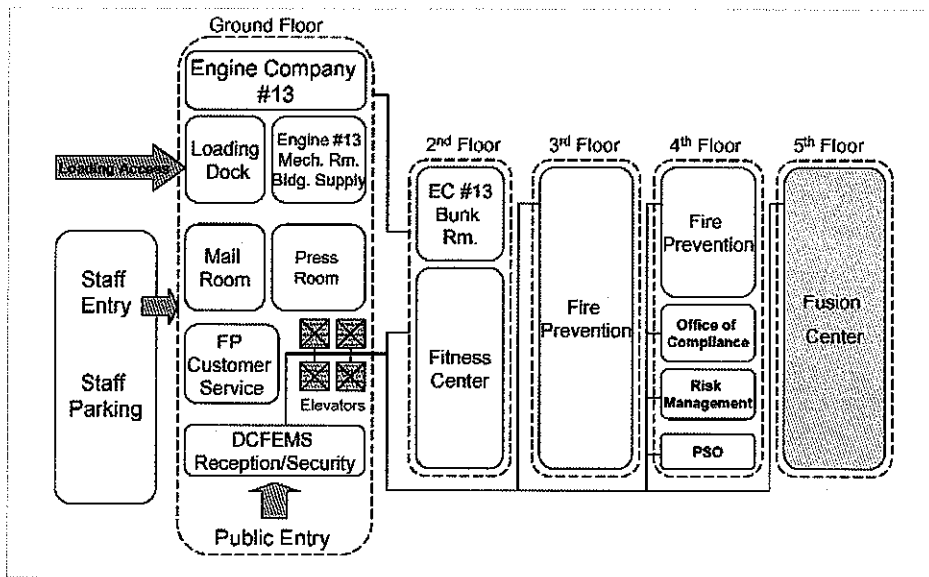
Ongoing



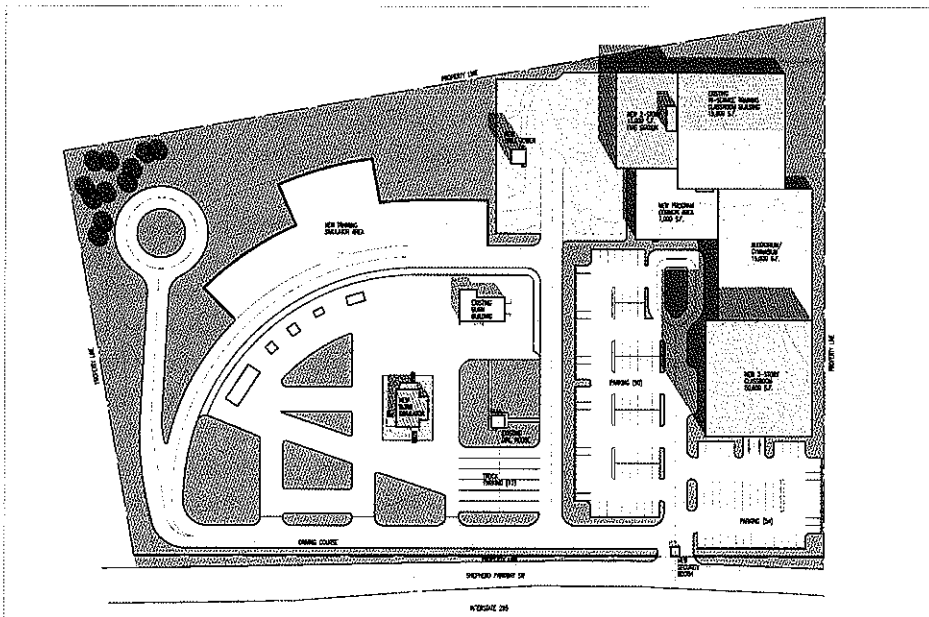
DC Fire & Emergency Medical Services

additional fire station should the need arise, a new 22,000 SF expansion to the existing classroom building, a 15,000 SF auditorium and gymnasium, and new fire training simulators. SHCA has also integrated a state of the art 50,000 SF Medical Teaching Facility. The intent of this design is to provide classrooms and laboratory facilities that are similar to those of a community college health science facility. Additionally, the structure provides 15,000 sq. ft. of underground parking.

The Fire Training and Emergency Medical Services Academy building is designed to LEED Silver standards as established by the US Green Building Council. With this project, the DC Fire Department not only demonstrates its commitment to improve the environment as to the Academy and its immediate surrounds, but also to the City as a whole, while raising its level of service to the community.



Headquarters Space Requirements Program



Training Academy Master Plan



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Fire Department of New York Headquarters Brooklyn, NY



SALIENT FEATURES

- Provided the FDNY with an image defining facility
- Provided the city employees with a modern workplace environment incorporating the latest trends in office accommodations
- Incorporated state-of-the-art, energy efficient mechanical, fire and life safety, and security systems controlled through an automated BMS system
- First NYC building to meet the new seismic code
- Provided sophisticated and secure connectivity of IT and communications from this location to FDNY's Citywide emergency network
- Fast-track design/build approach for procurement and construction
- Completed ahead of schedule and within strict budget parameters

Project Owner:

Forest City Ratner Companies

Contact:

Robert Sanna, Executive Vice President
Phone: 718-923-8414

Completion:

1997

SHCA was commissioned by Forest City Ratner Companies to design the base building and to provide interior design services for the Fire Department's new headquarters at 9 MetroTech Center in Brooklyn. Located in a commercial campus-like setting, SHCA's first challenge dealt with a variety of planning issues relating to the site including zoning requirements, landmarks preservation and tenant lease issues.

Campus Planning, Site Constraints, Integration

In designing the building, SHCA had to pay careful attention to the urban design guidelines originally established for the campus with its setbacks, massing and use of materials. The Landmarks Commission needed to be satisfied that the new building would have a positive impact on the Bridge St. African Wesleyan Church (first black congregation in Brooklyn) which it surrounds on two sides. By using brick mixed with cast stone SHCA was able to maintain a sympathetic scale to the Church, meet design guidelines and conceal the joints between the prefabricated panels (2-inch thick brick on 5-inch thick concrete panel) to keep the feel of a hand laid brick and stone exterior while meeting the needs for fast track construction.

Architecture/Interior Facilities Design

SHCA began the project by developing a facilities program for FDNY which addressed the space needs of a divergent group of functions and departments, including merging the needs of EMS with those of the Fire Department. Desired adjacencies studied through stacking and blocking plans gave definition to the architectural massing studies being done concomitantly. The location of cores, the MEP and IT distributions, the structural grid and ceiling grid were all worked to respond to the approved layout of programmed spaces. Flexibility for future churn and expansion, layout efficiency through clustering of highly technical spaces around the cores, and providing the workers with as much visual access to the outside created an enriching work environment within extremely tight budget parameters.

The highly secure facility includes general office and executive areas with special technical spaces including: computerized "War Room", Permits/ Violations Bureaus with public access, 250-seat auditorium with filming capabilities, broadcast TV studio, forensic labs, training rooms, medical clinic, EMS Dispatch, print shop, and the entire Records Division tracking every emergency response. It is unique because it is the first building in NYC to be earthquake proof—meeting the new seismic codes.

Contract/Delivery conditions

SHCA organized the design of the building and interiors to respond to this CM-led GMP, turnkey project by issuing sequenced bid packages and multiple bid packages for the MEP & FP trades. SHCA provided unusually close trade and consultant coordination to meet this aggressive fast track schedule of 18months-from start on site to move-in.

Client Satisfaction

For FDNY, we have since completed 6 commissions including Borough Communication Centers and their state-of-the-art training academy on Randall's Island the first of its kind in the world.

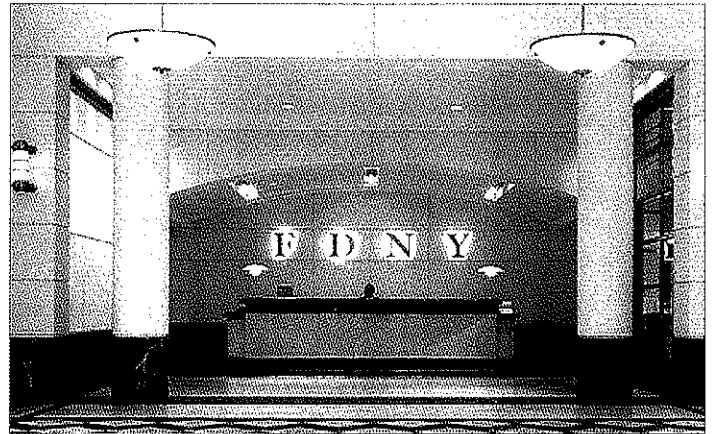


Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

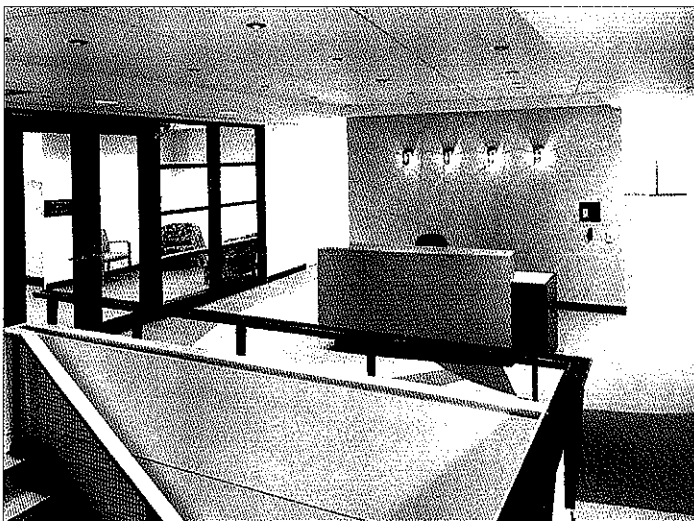
Fire Department of New York Headquarters



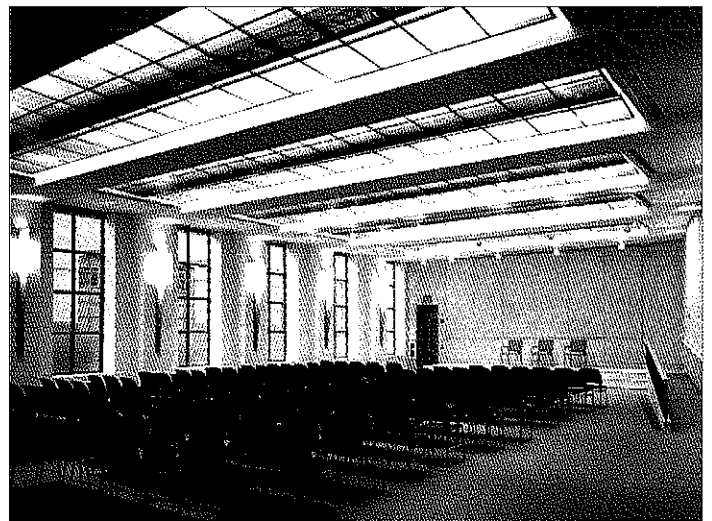
Entrance - night view



Lobby



Reception Area



Lecture Hall



Administrative area



Open stairwell



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Federal Agency Campus Control Center and Emergency Response Command Center Washington, DC

Swanke Hayden Connell Architects was commissioned to design a new command and control center for the existing multi-building campus of a federal agency in the Washington, DC metropolitan region.

The project's objective is to provide a new, fully-functional, state-of-the-art campus control center with the capability to become a nation-wide headquarters control center in the future. The control center is self-contained, and centralized control, monitoring, and administrative oversight is given to various monitoring systems and their associated physical and virtual structure. All work is seamlessly incorporated into the existing campus without down-time during ongoing 24/7 operation of the existing systems.

The Emergency Response Command Center is used by emergency responders during natural and/or manmade disasters to assemble and evaluate response scenarios.

The Control Center will monitor, control, and annunciate all networked fire, security and communications systems on the campus including a new Mass Notification System (MNS).

The design incorporates new command consoles and state-of-the-art audio-visual systems which overlay on top of the existing and new campus security, fire and communications systems utilizing a Physical Security Information Management System (PSIM).

SALIENT FEATURES

- 24/7 systems operation
- Mass Notification System
- State-of-the-art AV systems

Project Owner:

General Services Administration

Contact:

Christina Mullins, Contracting Specialist, 215-446-4589

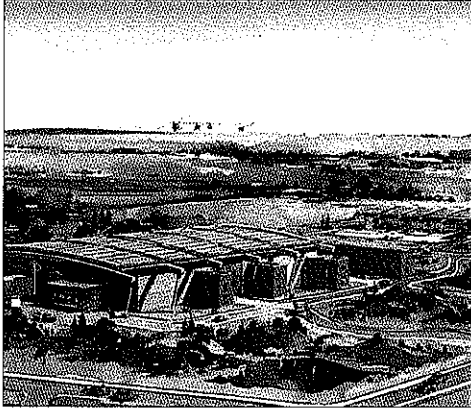
Completion:

Design ongoing



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Massachusetts National Guard Northeast Regional Center for Homeland Security Cape Cod, MA



SALIENT FEATURES

- Joint Operations Center
- Feasibility Study
- Master Planning

The Massachusetts National Guard planned to create the first Regional Center for Homeland Security training to be located at the Massachusetts Military Reservation on Cape Cod.

SHCA, as part of the selected team of professionals assigned to the task, was in charge of developing the master plan, and designing of each of the new structures and training grounds to be built on the base. The aim for the facility was to provide a training context for the military units in the area as well as civilian first responders. The planned facilities included an Administration Center with classrooms and technology to support distance learning, an emergency driving course, a fire fighting facility, HAZMAT training, an indoor small arms range, and an emergency operations center.

The master planning effort involved the development of land use guidelines, land planning, infrastructure improvements, and architectural concepts that would support the Department of Defense "transformation" initiatives. The Joint Operations Urban Training Center (JOUTC) was to be the centerpiece of the effort, bringing together the Army Guard, the Air Guard, and the Coast Guard in a joint facility that can also support civilian first responder training. It would provide an indoor training venue that duplicates in detail an urban grid of streets, alleys, and supporting buildings. The facility would include "prop" buildings that are planned to Army qualification specifications, arranged to create a small "downtown" for military and first responder training. Another unique planned feature was the intermodal transportation building. This structure combines an airport arrivals and departures terminal with subway and bus stations.

The Massachusetts National Guard approached Swanke to develop this master plan after receiving a tour of the FDNY Fire Training Academy at Randalls Island, NY and immediately recognized the applicability of that facility's cityscape simulation for the JOUTC.

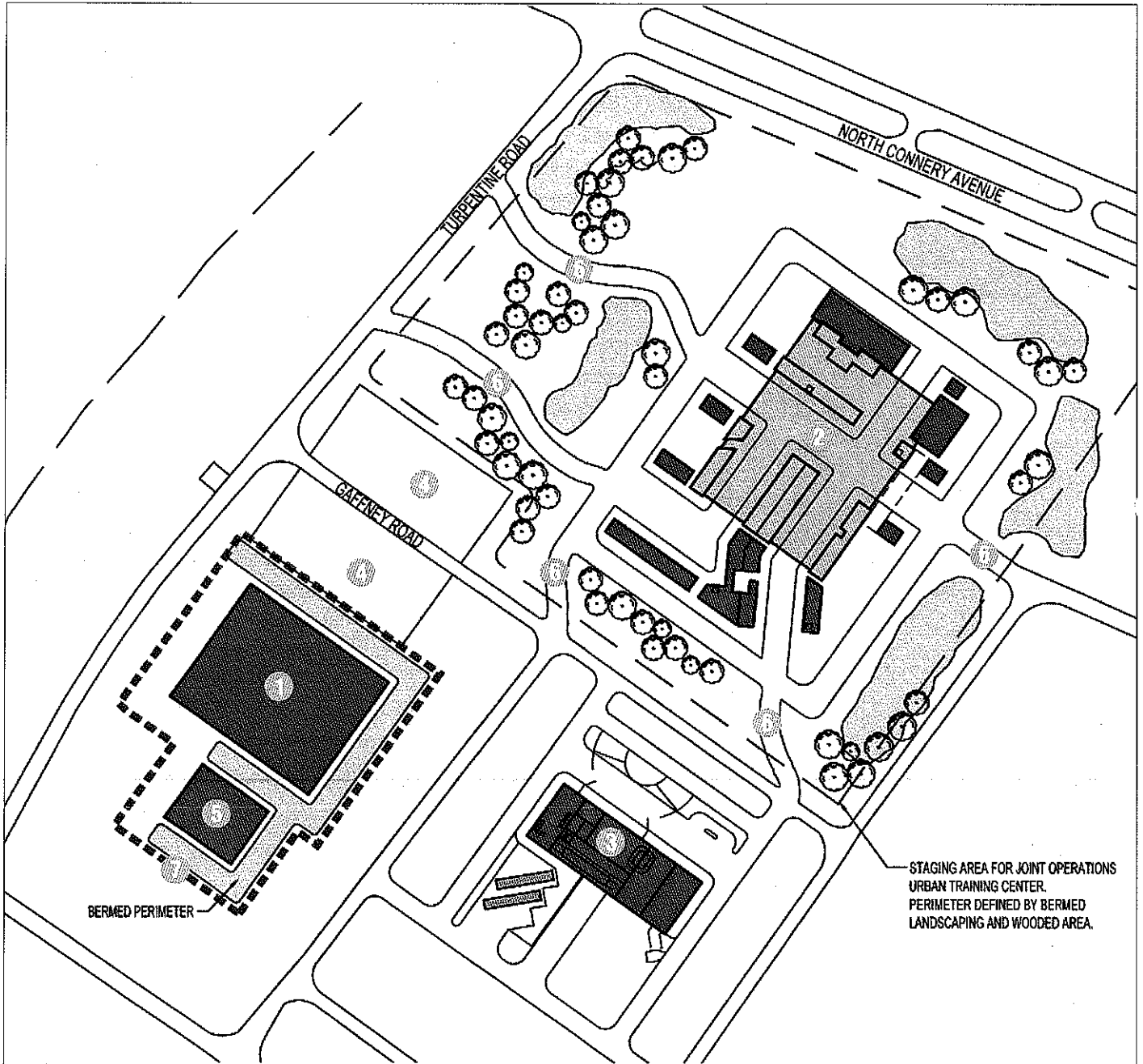
Project Owner:
Massachusetts National Guard

Contact:
LTC Will Tyminski, Public Information Officer
Phone: 508-968-5675

Completion:
2004



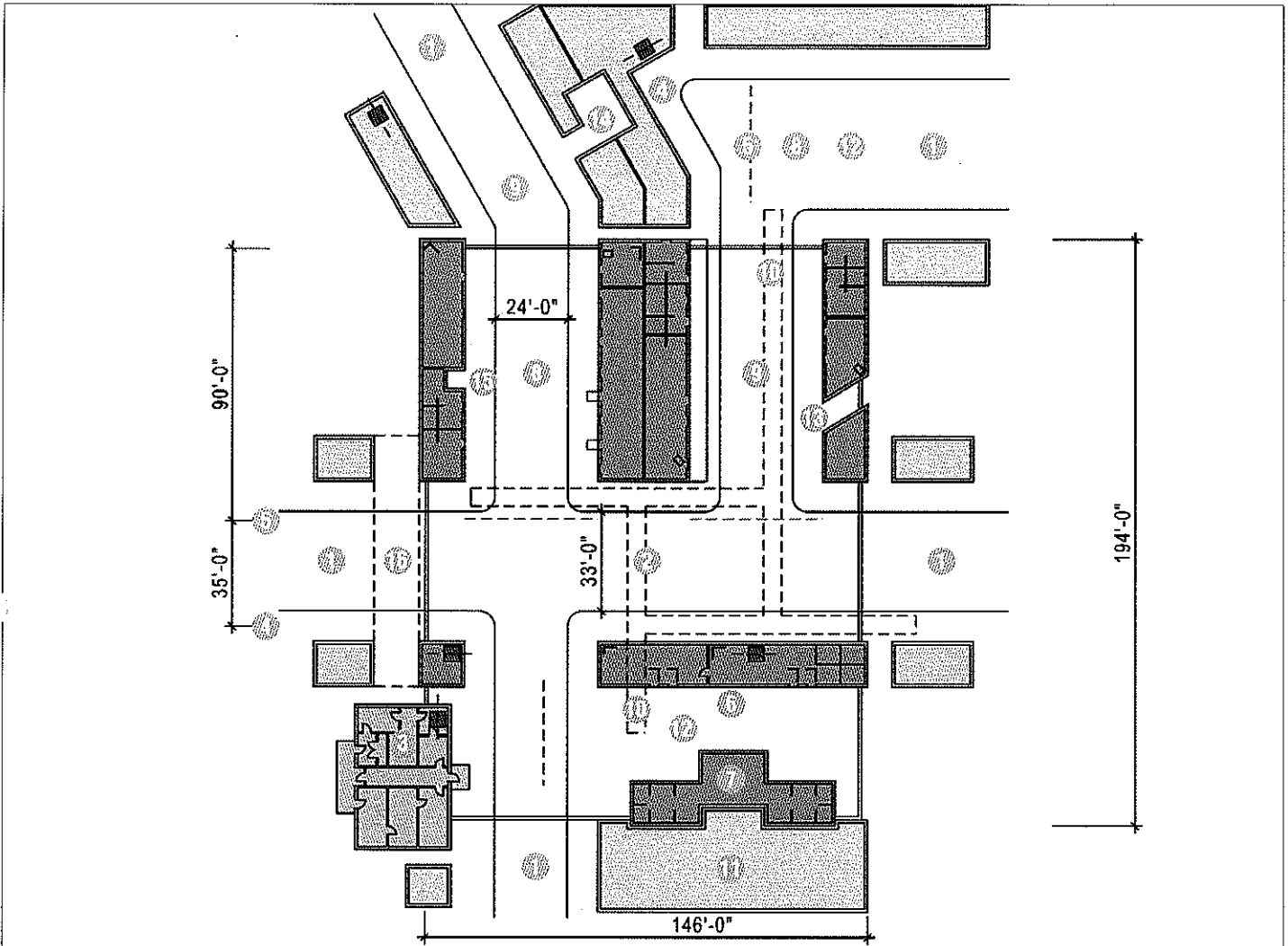
Massachusetts National Guard
Northeast Regional Center for Homeland Security



Site Plan



Massachusetts National Guard
Northeast Regional Center for Homeland Security



BUILDING COVERED AREA: 28,325 SF

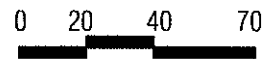
NOTES:

1. BECAUSE OF ITS PHYSICAL REQUIREMENTS, THE "GRENADE GUNNERY TRAINER" IS ASSUMED TO BE LOCATED OUTSIDE OF THE ENCLOSURE.

2. INTERIOR LAYOUTS FOR EACH TRAINING BUILDING ARE BASED ON U.S. ARMY CORPS OF ENGINEER GUIDELINES.

3. THESE DRAWINGS ARE BLOCKING DIAGRAMS BASED ON THE PROGRAM. BUILDING FOOTPRINT AND TOTAL AREA TO BE ADJUSTED IN THE DESIGN PHASE.

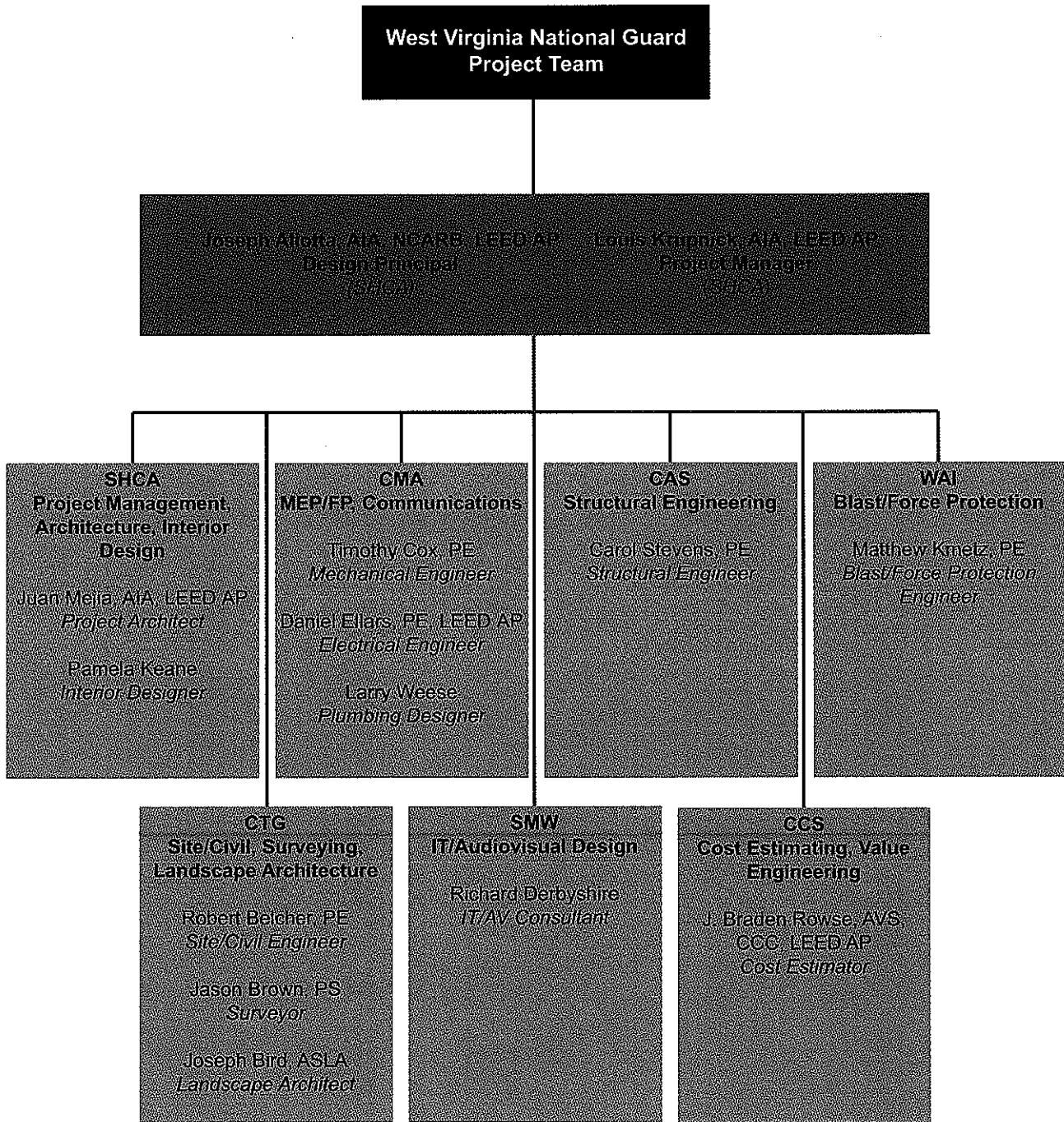
- ① POINT OF ENTRY
- ② INTERIOR STRFTT
- ③ OFFENSE / DEFENSE HOUSE
- ④ OBSERVATION PLATFORMS
- ⑤ BASE LINE
- ⑥ BREACH FACILITY
- ⑦ INDIVIDUAL & TEAM TRAINER
- ⑧ SQUAD & PLATOON TRAINER
- ⑨ SQUAD & PLATOON TRAINER
- ⑩ UNDERGROUND TRAINER
- ⑪ CLASSROOMS/RESTROOMS
- ⑫ PLAZA
- ⑬ LANE
- ⑭ COURTYARD
- ⑮ MOUSE HOLE
- ⑯ BRIDGE



JOUTC First Floor Diagram



Team Organization



LEGEND

- SHCA - Swanke Hayden Connell Architects
- CMA - CMA Engineering, Inc.
- CAS - CAS Structural Engineering, Inc.
- WAI - Weidlinger Associates, Inc.
- CTG - Chapman Technical Group
- SMW - Shen Milsom & Wilke
- CCS - Crawford Consulting Services

**Joseph Aliotta, AIA, NCARB, LEED AP BD+C
Design Principal****Years Experience:**

Total: 29 With Current Firm: 20

Firm:

Swanke Hayden Connell Architects, New York, NY and Washington, DC

Education:

- Bachelor of Architecture
- Certificate - Real Estate Investment and Analysis

Professional Registration

- Registered Architect: New York, New Jersey, Connecticut, Virginia, Maryland

Other Qualifications**Affiliations:**

- Member of Real Estate Board of New York
- Member of Forum for Urban Design
- Board Member of the NY Chapter of the AIA
- NCARB
- International Code Council
- National Fire Protection Association
- U.S. Green Building Council
- NYC Building Codes Commission

Awards:

- Office of Emergency Management, Brooklyn, NY: Construction Best of 2006 - Best Adaptive Re-use; SARA Design Award of Excellence 2007
- Hamilton Avenue School, Greenwich, CT: SARA National Design Award, 2005 Honor Award
- PS 28, Queens, NY: American School & University - 2003 Educational Interior Design Excellence Award
- PS 157, Brooklyn, NY: New York Council Society of American Registered Architects (SARA) Eighth Annual Design Awards Program, 2003 - Award of Merit in the Rehabilitation category
- PS 263, Queens, NY: Design Award of Merit from the New York Council of SARA -2001

With over 30 years of experience, Mr. Aliotta has been an innovative contributor to SHCA's success for two decades. His hands-on approach to project design, delivery and client relations reflects his commitment to providing the client with both functional and aesthetically pleasing design.

Mr. Aliotta is credited with SHCA's move into the educational and public sector with an expertise in public safety design. He has developed a proficiency in 24/7/365, redundant operations and the technical requirements for such facilities. The firm's distinguished portfolio of institutional projects benefit from his attentive oversight.

RELEVANT PROJECTS**Federal Agency Campus Control Center and Emergency Response Command Center, Washington, DC Metro Area**

Principal-in-Charge. SHCA was commissioned to design a new command and control center for the existing multi-building campus of a federal agency in the Washington, DC metropolitan region. The goal is to provide a new, state-of-the-art campus control center with the capability to become a nation-wide headquarters control center in the future. Centralized control, monitoring and administrative oversight will be given to various monitoring systems. Design incorporates new command consoles and state-of-the-art AV systems. Design ongoing.

NYC Office of Emergency Management Headquarters, Brooklyn, NY

Principal-in-Charge. Architectural and interior design services for New York City's new Office of Emergency Management Headquarters. The project scope calls for a re-clad, complete renovation and addition to an existing three-story building. The program includes a new 116 person Emergency Operations Center, Watch Command, General Office space and a Press and Conference Center. The building will be supported by state-of-the-art A/V and IT systems as well as redundant electro-mechanical systems. Cost: \$50M. Completed 2006.

Nassau County Public Safety Center, Westbury, NY

Principal-in-Charge. Architectural, interior design and graphic design services for a new Public Safety Center for Nassau County on Long Island. The center, designed into an existing rehabilitated warehouse building will consolidate existing facilities from over eleven different locations into a single 290,000 sq. ft. structure. It will house all of Nassau County's Police Department headquarters functions and a majority of police bureaus, Fire Marshall's offices, E911 Dispatch Operations Center and Forensic Laboratory. Cost: \$45.9M. Completed 2010.

FDNY Borough Communications Offices, Five Boroughs of New York

Principal-in-Charge. Comprehensive infrastructure replacement and restoration for five borough communications offices. Each structure was constructed with an elaborate central dispatch room and wings housing support spaces. Scope of work involved: interior rehabilitation; building systems infrastructure replacement with redundant me-



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Joseph Aliotta, AIA, NCARB, LEED AP BD+C
Design Principal

chanical and electrical systems; combined fire and EMS dispatch operations in a secure environment; and sophisticated audio-visual systems tied to the computer-aided dispatch (CAD) system and television feeds. Combined cost \$60M. Completed 2009.

Public Safety Answering Center I (PSAC I), Brooklyn, NY

Principal-in-Charge. 100,000 sq. ft. phased, redesign of consolidated E911 Fire & EMS Dispatch Operations. SHCA developed a detailed phasing program in order to keep the existing Data Center and E911 operations live 24/7/365 while the renovations occurred. PSAC I houses over 110 call-takers and over 130 dispatchers. Cost: \$80M. Completed 2009.

FDNY Fire Training Academy, Randall's Island, NY

Principal-in-Charge. Design of three new facilities for the Fire Department of New York (FDNY) on Randall's Island: a 69,000 sq. ft. classroom and training building, consisting of 6 classrooms and a gym, a full indoor training field house, and a "burn building" that uses computer-controlled fire training to simulate conditions of a live fire. The commission is through the New York City Dept. of Design and Construction. Completed 2004.

Fort Totten Master Plan and FDNY Training Center, Bayside, Queens, NY

Principal-in-Charge. SHCA prepared a master plan and feasibility study for the proposed relocation of the FDNY's training facility to this 140-year-old army base. Six other federal and municipal agencies were also programmed for portions of the site. The study determined various components of the FDNY were better suited for another location and SHCA prepared design for the new FDNY Training Facility at Randall's Island in 2004. Master Plan completed 2000.



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Louis Krupnick, AIA, LEED AP
Project Manager

Years Experience:

Total: 30 With Current Firm: 1

Firm:

Swanke-Hayden Connell Architects,
Washington, DC

Education:

- Bachelor of Architecture
- Roofing Industry Educational Institute

Professional Registration

- Registered Architect: Connecticut

Other Qualifications

Affiliations:

- The Cooper Union School of Architecture - Lecturer, "Green Building Renovation Practices"
- Washington D.C. Building Envelope Council;
- U.S. Air Force Auxiliary, MD-073 Operations Officer

Lectures:

- AIA Design DC Conference, "Collaborative Workplace Using "Task"-Based Metrics," 2010
- GSA Regional BIM Conference, "BIM and Lessons Learned in the Design of Federal Research Laboratories," 2009
- University of Texas and J. Paul Getty Trust Conference, "From Gray to Green Acres: Developing Sustainable Practices in Preservation Environments"

Awards:

- C4ISR Campus, Aberdeen Proving Ground, MD: Commander's Coin - US Army Corps of Engineers for the Design of the new facility, 2008
- PNC Bank 'Techworks', Pittsburgh, PA: AIA Merit Award, 2004
- Mary Vestal Park, Knoxville, TN: AIA Honor Award, 1978
- St. Thomas Aquinas College, Sparkill, NY: Master Builders Award, 2000
- Renovation of Tapley School: Commonwealth of Massachusetts Historical Society, 1994
- Linus Plimpton House Renovation: State of Connecticut Historical Commission, 1993

Lou Krupnick has extensive experience with a diverse clientele across the federal, institutional, corporate, and commercial sectors. He has planned, scheduled, and managed multiple concurrent design teams of more than 50 architects, engineers, designers and consultants within highly complex and dynamic project environments. Most recently, he was the PM for the planning, interior design, and FF&E for the US Army's Center of Excellence for C4ISR Activities located at Aberdeen Proving Ground, MD.

Well familiar working within the DOD environment, Mr. Krupnick has been responsible for the design of more than 50 projects for the Army, Navy, Marines, and Air National Guards of West Virginia, Colorado, Massachusetts, and New York. His portfolio includes four operations facilities, numerous command and control facilities, and more than 25 SCIFs.

Mr. Krupnick is a hands-on PM; he will work closely with the West Virginia National Guard's Joint Operations leadership to help design and program a facility well-suited to their particular requirements. He currently serves as the Operations Officer in the U.S. Air Force Auxiliary and is well familiar with the Incident Command System (ICS). He is currently working on an article for publication on SCIF design.

RELEVANT PROJECTS

US Department of State, Overseas Building Operations, IDIQ Contract, Worldwide

Project Manager. Five-year IDIQ contract to provide planning and design services for renovation and new construction projects at US embassy posts worldwide. Current task orders include: design of a new office annex on the US embassy compound in New Delhi, India; A/E design services for the completion of recreation projects at the US embassies in Astana, Kazakhstan and Dushanbe, Tajikistan; and A/E design services for security upgrades in Vancouver, British Columbia, Canada; Belfast, Northern Ireland; and Dublin, Ireland. Mr. Krupnick is currently project manager for the Belfast, Northern Ireland and Dublin, Ireland task orders.

C2CNT R&D Facility, US Army Center of Excellence for C4ISR Activities, Aberdeen Proving Ground, MD

Project Manager. Responsible for programming, architectural and interior design of new 500,000 SF, \$150M state-of-the-art computer, electronics, and software engineering R&D center. Facility contains administrative offices, training and conferencing facilities, and laboratories. Building has USGBC LEED Silver rating and features one of the largest geothermal heating and cooling installations in the U.S. Expected completion 2011.

Campus Design, Programming & Planning for the Army's New Center for C4ISR Activities, Aberdeen Proving Ground, MD

Project Manager/ Designer. Responsible for programming, conceptual design, and planning of the US Army's Center of Excellence for C4ISR Activities. This project



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Louis Krupnick, AIA, LEED AP
Project Manager

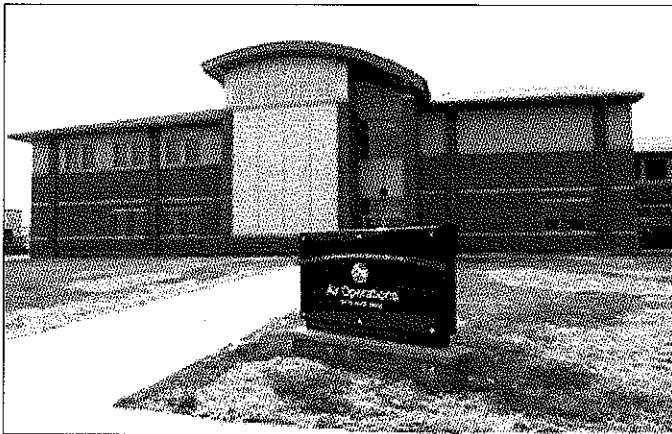
included the design and planning of a new 350-acre campus and 14 buildings totaling 2.5M square feet. The largest BRAC '05 project included the relocation of 7,500 employees from FT Monmouth and the design of new office and research facilities for the new campus for command, control computers, communications intelligence, surveillance and reconnaissance. Project included significant communications and electronics facilities and related infrastructure. Project cost ~\$750M. Expected completion 2011.

Air Operations Facility, WV Air National Guard, Martinsburg, WV

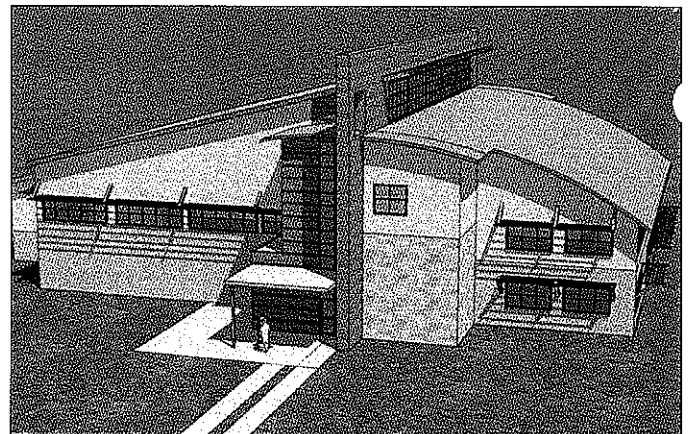
Project Design Manager. Responsible for project design and management for a new 30,000 SF Air Operations Facility for the 167th WV Air Lift Wing in Martinsburg, WV, This building houses services necessary for the command & control, operations, dispatch, communications and operations of the Wing. 30,000 SF / \$6.7M. Completed 2008.

Operations Facility, 140th Fighter Group, CO Air National Guard, Buckley AFB, CO

Project Design Manager. Responsible for project design and management for a new 36,000 SF Operations Facility for the 140th Tactical Fighter Group COANG at Buckley AFB, CO, This building houses services necessary for command & control, operations, dispatch, communications and operations of the Wing. 34,000 SF / \$7.3M. Completed 2010.



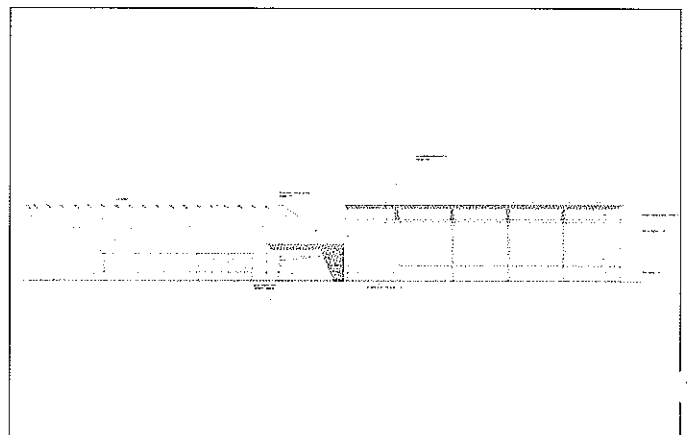
West Virginia Air National Guard Air Operations Facility,
Martinsburg, WV



120th TFG Squadron Operations Facility, Colorado Air National
Guard, Buckley AFB Colorado



State of Connecticut, DOT & Emergency Operations Center,
Norwalk, CT



Air Crew Life Safety Building, Dover AFB, DE

**Juan Mejia, AIA, LEED AP**
Project Architect**Years Experience:**

Total: 28 With Current Firm: 26

Firm:

Swanke Hayden Connell Architects, New York, NY

Education:

- Bachelor of Science - Architecture
- Bachelor of Architecture

Professional Registration

- Registered Architect: New York, Illinois, Colombia, South America

Other Qualifications**Affiliations:**

- NCARB
- U.S. Green Building Council

Juan Mejia has led the technical team of many of the most complex and high profile projects at SHCA. Detail-oriented, he is involved in the coordination of all team members and consultants to ensure careful completion of the construction documents for a smooth construction phase. He is attentive to the design intent and to the client sensibilities, constraints, and requests. His involvement on the new NYC Office of Emergency Management, a high-technology, high-security project, was irreplaceable in regards to the meticulous detail required in coordinating a project of this type.

RELEVANT PROJECTS**Federal Agency Campus Control Center and Emergency Response Command Center, Washington, DC Metro Area**

Project Architect. SHCA was commissioned to design a new command and control center for the existing multi-building campus of a federal agency in the Washington, DC metropolitan region. The goal is to provide a new, state-of-the-art campus control center with the capability to become a nation-wide headquarters control center in the future. Centralized control, monitoring and administrative oversight will be given to various monitoring systems. Design incorporates new command consoles and state-of-the-art AV systems. Design ongoing.

NYC Office of Emergency Management Headquarters, Brooklyn, NY

Project Manager/Project Architect. Architectural and interior design services for New York City's new Office of Emergency Management Headquarters. The project scope calls for a re-clad, complete renovation and addition to an existing three-story building. The program includes a new 116 person Emergency Operations Center, Watch Command, General Office space and a Press and Conference Center. The building will be supported by state-of-the-art A/V and IT systems as well as redundant electro-mechanical systems. Cost: \$50M. Completed 2006.

FDNY Borough Communications Offices, Five Boroughs of New York

Project Manager/Project Architect. Comprehensive infrastructure replacement and restoration for five borough communications offices. Each structure was constructed with an elaborate central dispatch room and wings housing support spaces. Scope of work involved: interior rehabilitation; building systems infrastructure replacement with redundant mechanical and electrical systems; combined fire and EMS dispatch operations in a secure environment; and sophisticated audio-visual systems tied to the computer-aided dispatch (CAD) system and television feeds. Combined cost \$60M. Completed 2009.

Public Safety Answering Center I (PSAC I), Brooklyn, NY

Project Architect. 100,000 sq. ft. phased, redesign of consolidated E911 Fire & EMS Dispatch Operations. SHCA developed a detailed phasing program in order to keep the existing Data Center and E911 operations live 24/7/365 while the renovations occurred. PSAC I houses over 110 call-takers and over 130 dispatchers. Cost: \$80M. Completed 2009.



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Juan Mejia, AIA, LEED AP
Project Architect

Public Safety Answering Center II (PSAC) – Feasibility Study, Brooklyn, NY

Project Manager. Programming and feasibility study for 400,000 sq. ft. Command Center including public safety emergency console operations. Key features include 2N redundancy for Power, UPS, EPS and cooling systems and perimeter concrete shear walls designed to resist lateral forces from wind, seismic, and hurricane events. The facility is part of an aggressive master plan to consolidate E 9-1-1 police, fire and EMT call-taking and computer-aided dispatch into two 100% redundant facilities. Completed 2007.

Human Resources Administration, Brooklyn, NY

Project Architect. Forest City Ratner Companies and the New York City Department of Citywide Administrative Services (DCAS) commissioned SHCA to create a new home for the Human Resources Administration MIS Center (HRA/MIS). Provided pre-design services for the development of the 670,000 sq. ft. building and programming services for HRA/MIS and the Department of Information Technology and Telecommunications. HRA/MIS is housed in 200,000 USF of space with approximately 50,000 USF of Data Center and high technology spaces on a 2'-0" access floor including a new, state-of-the-art Network Operations Center. Cost: \$30M. Completed 2003.

**Pamela Keane
Interior Designer****Years Experience:**

Total: 9 With Current Firm: 5

Firm:Swanke Hayden Connell Architects,
New York, NY**Education:**

- Bachelor of Fine Arts - Interior Design

Other Qualifications**Affiliations:**

- U.S. Green Building Council

As an Interior designer at SHCA, Pamela brings a mixed skill set of space planning, test fits and problem solving to the drafting table. Her body of work highlights her analytical abilities for spatial layouts and test fitting including PSAC I and Nassau County. Pamela work strives to balance the requirements of the clients and their programs with the base building envelope, working with the base building team whenever possible to produce an environment where all the elements can harmoniously exist.

Her commissions include more than 150,000 sq. ft of Public Safety call centers, over 500,000 sq. ft. of various financial institutions and a 1,600,000 sq. ft. 'green' tower for Goldman Sachs in New Jersey which has been LEED certified by the US Green Building Council.

RELEVANT PROJECTS**Federal Agency Campus Control Center and Emergency Response Command Center, Washington, DC Metro Area**

Interior Designer. SHCA was commissioned to design a new command and control center for the existing multi-building campus of a federal agency in the Washington, DC metropolitan region. The goal is to provide a new, state-of-the-art campus control center with the capability to become a nation-wide headquarters control center in the future. Centralized control, monitoring and administrative oversight will be given to various monitoring systems. Design incorporates new command consoles and state-of-the-art AV systems. Design ongoing.

Nassau County Public Safety Center, Westbury, NY

Principal-in-Charge. Architectural, interior design and graphic design services for a new Public Safety Center for Nassau County on Long Island. The center, designed into an existing rehabilitated warehouse building will consolidate existing facilities from over eleven different locations into a single 290,000 sq. ft. structure. It will house all of Nassau County's Police Department headquarters functions and a majority of police bureaus, Fire Marshall's offices, E911 Dispatch Operations Center and Forensic Laboratory. Cost: \$45.9M. Completed 2010.

Public Safety Answering Center I (PSAC I), Brooklyn, NY

Project Architect. 100,000 sq. ft. phased, redesign of consolidated E911 Fire & EMS Dispatch Operations. SHCA developed a detailed phasing program in order to keep the existing Data Center and E911 operations live 24/7/365 while the renovations occurred. PSAC I houses over 110 call-takers and over 130 dispatchers. Cost: \$80M. Completed 2009.

Public Safety Answering Center II (PSAC II) – Feasibility Study, Brooklyn, NY

Project Manager. Programming and feasibility study for 400,000 sq. ft. Command Center including public safety emergency console operations. Key features include 2N redundancy for Power, UPS, EPS and cooling systems and perimeter concrete shear walls designed to resist lateral forces from wind, seismic, and hurricane events. The facility is part of an aggressive master plan to consolidate E 9-1-1 police, fire and EMT call-taking and computer-aided dispatch into two 100% redundant facilities. Completed 2007.



Timothy Cox, PE
Mechanical Engineer

Years Experience:

Total: 25 With Current Firm: 13

Firm:

CMA Engineering, Charleston, WV

Education:

- Bachelor of Science, Mechanical Engineering

Professional Registration:

Professional Engineer: West Virginia, Virginia, Kentucky

Other Qualifications

Certified in Plumbing Engineering

Affiliations:

- Association of Energy Engineers - CBCP
- American Society of Plumbing Engineers
- National Fire Protection Association
- ASHRAE
- WV Society of Healthcare Engineers

Mr. Cox, President and Senior Mechanical Engineer of CMA Engineering, brings 25 years of mechanical design experience to our clients. He has been project manager and project engineer for a variety of facility types.

RELEVANT PROJECTS

WVANG Moorefield Readiness Center, Moorefield, WV

Mechanical Designer. Is currently providing design of HVAC, plumbing, electrical, fire protection and communication systems for new 578,000 SF facility that includes a 19,000 SF 911 Center. Expected completion 2013.

West Virginia University, Morgantown, WV

Project Manager, Mechanical Design. Mechanical, electrical and plumbing design services for multiple projects, both new construction and renovations, through an open-end contract since 1989. Ongoing.

Mylan Pharmaceutical-North Plant Expansion, Morgantown, WV

Project Manager, Mechanical Design. Mechanical, electrical, plumbing and fire protection design services for new 500,000 SF addition to plant facility. Completed 2008.

West Virginia University Intermodal Parking, Morgantown, WV

Project Manager, Mechanical Design Criteria. Mechanical, electrical and plumbing design services for multiple projects, both new construction and renovations, through an open-end contract since 1989. Ongoing.

Monongalia County Schools, Morgantown, WV

Project Manager, Mechanical Design. Mechanical, electrical and plumbing engineering for various schools in the district. Projects include chiller replacement at North Elementary, electrical upgrades at Clay Batelle High School and RTU replacements at Daybrook Elementary. Ongoing.



Daniel Ellars, PE, LEED AP
Electrical Engineer

Years Experience:

Total: 20 With Current Firm: 3

Firm:

GMA Engineering, Charleston, WV

Education:

- Bachelor of Science, Electrical Engineering

Professional Registration:

Professional Engineer: West Virginia,
Pennsylvania

Other Qualifications

Certified in Plumbing Engineering

Affiliations:

- Institute of Electrical Engineers
- WV Chapter of American Institute of Architects
- National Fire Protection Association
- ASHRAE
- WV Society of Healthcare Engineers
- US Green Building Council

Mr. brings 20 years of electrical design experience to clients. He has been a project manager and project engineer for a variety of projects including commercial and industrial facilities as well as for both power and tele-communications utilities.

RELEVANT PROJECTS

WVANG Elkins Readiness Center, Elkins, WV

Project Manager, Electrical Design. Design of HVAC, plumbing, fire sprinkler, fire alarm and electrical systems for new readiness center of approximately 59,645 SF. Expected completion 2011.

West Virginia Army Reserve National Guard Armory, Gassaway, WV

Project Manager, Electrical Design. Design of HVAC, plumbing and electrical systems for renovations of 21,470 SF and the addition of a single-story addition of 4,810 SF to house lockers, storage space, lobby, corridors and office space. Completed 2010.
Project Manager, Electrical Design

Wetzel County 911, Wetzel County, WV

Project Manager, Electrical Design. Design of HVAC, plumbing, fire protection, communication and electrical systems for new 911 facility. Completed 2009.

Putnam County 911, Winfield, WV

Project Manager, Electrical Design. Design of bidding documents HVAC, plumbing, fire sprinkler, fire alarm, electrical and communications/data rough-ins for new 911/EMA Center and new garage facility. The 911 center encompasses approximately 11,700 SF, the garage building approximately 5,000 SF including six maintenance bays and approximately 1,500 SF on a partial upper level to be used as storage.. Completed 2009.

West Virginia State Capitol, Charleston, WV

Project Manager, Electrical Design. Systems analysis, cost estimating and bidding documents for the HVAC and related electrical renovations to the first and second floors in each of the four quadrants housing the Senate and House Chambers at Building #1. Expected Completion 2012.



Larry Weese
Plumbing Designer

Years Experience:

Total: 19 With Current Firm: 5

Firm:

CMA Engineering, Charleston, WV

Education:

- Bachelor of Science
- Master of Science

Mr. Weese brings 19 years of design and project management experience to clients.

RELEVANT PROJECTS

West Virginia Army Reserve National Guard Armory, St. Albans, WV

Plumbing Designer. Design of HVAC, plumbing, fire alarm systems, standard and emergency electrical power, lighting and communication systems for the renovations of 16,407 SF of existing facility and the single-story addition of 13,940 SF composed of office space, storage space, lobby and corridors. Expected completion 2011.

Putnam County 911, Winfield, WV

Plumbing/Mechanical Designer. Design of bidding documents HVAC, plumbing, fire sprinkler, fire alarm, electrical and communications/data rough-ins for new 911/EMA Center and new garage facility. The 911 center encompasses approximately 11,700 SF, the garage building approximately 5,000 SF including six maintenance bays and approximately 1,500 SF on a partial upper level to be used as storage. Completed 2009.

Raleigh County 911, Beckley, WV

Plumbing Designer. Design of bidding documents for HVAC, plumbing, fire sprinkler, fire alarm, data and communications, site lighting and electrical power for new 911 facility. Completed 2007.

Mason County 911, Point Pleasant, WV

Plumbing Designer. HVAC, plumbing, lighting and electrical power and data distribution design services for new 6,675 SF 911 call center and 2,700 SF garage. Completed 2007.

Pikeview Middle School, Mercer County, WV

Plumbing Designer. Design of bidding documents for HVAC, plumbing, fire alarm, fire sprinkler, communication and electrical systems for new 75,000 SF middle school comprised of a main wing with offices and gymnasium and a three-story classroom wing. Expected completion 2011.



Carol Stevens, PE
Structural Engineer

Years Experience:

Total: 24 With Current Firm: 10

Firm:

CAS Structural Engineering, Charleston, WV

Education:

- Bachelor of Science, Civil Engineering
- Master of Engineering, Engineering Science

Professional Registration:

Professional Engineer: West Virginia,
Pennsylvania, Maryland, Ohio

Other Qualifications

Affiliations:

- American Society of Civil Engineers, WV Section
- National Society of Professional Engineers
- American Concrete Institute
- American Institute of Steel Construction
- West Virginia University Department of Civil and Environmental Engineering Visiting Committee
- WVUIT Department of Civil Engineering Advisory Committee

Ms. Stevens is President of CAS Engineering. She has more than 20 years of experience in the building structures field, working in West Virginia and in the York, PA vicinity. She has provided structural design services for a variety of facility types including governmental (institutional and educational), industrial, and commercial. Projects range from new design and construction, additions, renovation, adaptive reuse and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

RELEVANT PROJECTS

Preston County 911/OEM Center, Kingwood, WV

Lead Structural Engineer. Structural design of new 6,200 SF emergency services building. Completed 2010.

Twin Falls Resort State Park Lodge Addition, Mullens, WV

Lead Structural Engineer. Structural design for new 28,000 SF addition to existing facility, including new entrance lobby, conference areas, sleeping rooms, and indoor pool. Completed 2010.

Burnsville I-79 Rest Areas, Burnsville, WV

Lead Structural Engineer. Structural design of new 4,600 SF WVDOH rest area. Three structures - rest area building, vending building, and maintenance building. Materials consisted of reinforced concrete, masonry, light gauge steel trusses, glulam beams and exposed wood timber planking. Completed 2009.

Teays Medical Office Building, Hurricane, WV

Lead Structural Engineer. Structural design of new 2-story medical office building. Completed 2008.

Upshur County Courthouse, Buckhannon, WV

Lead Structural Engineer. Designed renovations to 3-story building addition, renovations to existing 1899 building main entrance and dome structure. Completed 2007.

Eastern West Virginia Regional Airport, Martinsburg, WV

Lead Structural Engineer. Designed foundations and structural steel framing for new two-story terminal building housing typical functions, e.g. rental car space, restaurants, ticket counters, baggage areas, and administrative offices. Completed 2006.



Matthew Kmetz, PE
Blast/Force Protection Engineer

Years Experience:

Total: 12 With Current Firm: 11

Firm:

Weidinger Associates, Washington, DC

Education:

- Master of Science, Civil Engineering
- Bachelor of Science, Mechanical Engineering

Professional Registration:

Professional Engineer: New York, NY

Mr. Kmetz is an accomplished senior Engineer with extensive experience in the vulnerability assessment and anti-terrorist protective design of buildings to mitigate hazards associated with terrorist threats. He has provided blast analysis and design services for U.S. embassies in Athens, Copenhagen, London and Tel Aviv; federal courthouses in Brooklyn, Washington DC, and Miami; and numerous federal reserve bank buildings around the country. He also participated in a vulnerability assessment of the new Oklahoma City Federal Complex, the new Defense Intelligence Analysis Center at Bolling Air Force Base, and the National Laboratory Center in Beltsville, MD.

RELEVANT PROJECTS

US Department of Defense BRAC 133 – Mark Center, Alexandria, VA

Senior Blast Engineer. Provided blast engineering services for the Department of Defense campus in Northern Virginia. The complex implements Recommendation 133 or the Base Realignment and Closure Act of 2005 (BRAC133) to relocate 6,400 DoD personnel from scattered leased spaces throughout the greater Washington, DC, area into a modern, secure, high-tech, and sustainable campus at Mark Center. 1,700,000 SF. Completed 2011.

McConnell Public Safety and Transportation Operations Center, Fairfax, VA

Project Manager. Provided blast engineering to protect occupants and facilitate evacuation of 147,000 SF public safety and transportation operations center. Cost: \$56 M. Completed 2005.

Defense Intelligence Analysis Center, Washington, DC

Senior Blast Engineer. Provided blast analysis and engineering services for a for a new \$96 million, 430,000 SF addition to the headquarters building of the Defense Intelligence Agency, consolidating administrative, analytical and support functions in a low-profile building at Bolling Air Force Base. Modifications to mitigate the dynamic effects associated with a terrorist threat included increased reinforcement, structural redundancy and proper detailing of the structural frame. Completed 2004.

Defense Threat Reduction Center, Fort Belvoir, VA

Senior Blast Engineer. Provided blast design services for a new 300,000-square-foot, \$75 million mission-critical addition to the Defense Threat Reduction Center complex on behalf of the U.S. Army Corps of Engineers. Performed analysis of global response, key structural members and perimeter anti-ram elements. Completed 2005.

National Laboratory Center at Ammendale, Beltsville, MD

Senior Blast Engineer. Provided blast engineering services for a new 182,000 SF testing facility. The facility houses the Alcohol and Tobacco laboratory and the Forensic Science Laboratory with associated conference, training, library, administrative and service support functions. Cost: \$62M. Completed 2003.



Robert Belcher, P.E.
Site/Civil Engineer

Years Experience:

Total: 27 With Current Firm: 24

Firm:

Chapman Technical Group, St. Albans, WV

Education:

- Bachelor of Science, Civil Engineering

Professional Registration:

Professional Engineer: West Virginia

Other Qualifications

Affiliations:

- Water Environment Association
- American Water Works Association
- West Virginia Society of Professional Engineers
- American Council of Engineering Companies
- WVU Institute of Technology Advisory Board

Awards

George Warren Fuller Award, 2001

Mr. Belcher serves as senior vice president of engineering and project officer for Chapman Technical Group. His 27 years of professional experience includes design and project management for airport improvement projects, large highway and bridge projects, and potable and wastewater systems.

RELEVANT PROJECTS

West Virginia Air National Guard Support Complex, Charleston, WV

Civil Engineer/Utility Designer. Site design, civil engineering, and landscape architectural design for Air National Guard headquarters and support complex. Completed 1993.

Robert C. Byrd Federal Courts and IRS Complex, Beckley, WV

Civil Engineer/Utility Designer. Site design, civil engineering and landscape architectural design for \$27 million federal courthouse and IRS facility in downtown Beckley, WV. Completed 1998.

Blackwater Falls State Park Cabins, Davis, WV

Civil Engineer/Utility Designer. Design of 13 new cabins, new access road, wastewater plant and support facilities. Expected completion 2011.

Camp Creek State Park Wastewater System Improvements, Camp Creek, WV

Project Manager/Civil Engineer. Design of a new wastewater collection and 6,400 GPD treatment system at Camp Creek State Park. Completed 2009.

Fairmont Water System Improvements, Fairmont, WV

Project Manager. Design of water distribution system throughout the entire city, a 16-inch Monongahela River crossing, two concrete water storage tanks, 12 miles of 16-inch and 2-inch water mains, and a new 10 MDG water treatment plant. Completed 2003.



Jason Brown, PS
Surveyor

Years Experience:

Total: 16 With Current Firm: 8

Firm:

Chapman Technical Group, St. Albans, WV

Education:

• Associate Degree, Surveying

Professional Registration:

Professional Surveyor: West Virginia

Other Qualifications

Affiliations:

• West Virginia Society of Professional Surveyors

Mr. Brown brings 16 years of experience to the WV National Guard Joint Operations Center project. He has provided professional surveying services on a variety of projects including site development for military complexes, public housing, commercial development, industrial and institutional complexes, churches, resorts, and public facilities throughout the state of West Virginia; parks and recreation projects; and highways.

RELEVANT PROJECTS

Robert C. Byrd Federal Courts and IRS Complex, Beckley, WV

Surveyor. Site design, civil engineering and landscape architectural design for \$27 million federal courthouse and IRS facility in downtown Beckley, WV. Scope of survey services included survey control network and all site surveys including topographic and boundary. Completed 1998.

Elkins Water System Improvements, Elkins, WV

Surveyor. All surveying services including topographic and right-of-way plats related to design of water system upgrades for City of Elkins. Expected completion 2012.

West Virginia Route 10, Logan, WV

Surveyor. All surveying services including topographic, boundary, bore hole locations and aerial photogrammetry control for design of more than two miles of four-lane highway and bridge design for West Virginia Division of Highways. Expected completion 2011.

Canaan Valley Resort State Park Wastewater System Improvements, Canaan Valley, WV

Surveyor. All surveying services, including topographic and boundary, for sanitary sewer system improvements. Expected completion 2011.

Skaff Property Development, South Charleston, WV

Surveyor. All surveying services including aerial photogrammetry control for single-family home subdivision development. Completed 2010.

Poca Wastewater System Improvements, Poca, WV

Surveyor. All surveying services including aerial photogrammetry control and topographic mapping for wastewater collection system improvements. Expected completion 2011.



Joseph Bird, ASLA
Landscape Architect

Years Experience:

Total: 33 With Current Firm: 27

Firm:

Chapman Technical Group, St. Albans, WV

Education:

• Bachelor of Science, Landscape Architecture

Professional Registration:

Professional Landscape Architect: West Virginia

Other Qualifications:

Affiliations:

American Society of Landscape Architects (ASLA), West Virginia Chapter

Awards:

Honor Award for Shrewsbury St. Redevelopment Plan, WV ASLA

Mr. Bird has more than 30 years of professional experience. He is a project manager and registered landscape architect whose experience ranges from large site development projects to the management of multi-discipline and architectural projects. Add

RELEVANT PROJECTS

VA Medical Center Campus Renovation, Huntington, WV

Project Manager, Landscape Architecture. Site design, civil engineering, and landscape architectural design for multi-million dollar mental hygiene campus and building renovation projects. Expected completion 2011.

West Virginia Air National Guard Support Complex, Charleston, WV

Project Manager, Landscape Architecture. Site design, civil engineering, and landscape architectural design for Air National Guard headquarters and support complex. Completed 1993.

Robert C. Byrd Federal Courts and IRS Complex, Beckley, WV

Project Manager, Landscape Architecture. Site design, civil engineering and landscape architectural design for \$27 million federal courthouse and IRS facility in downtown Beckley, WV. Scope of survey services included survey control network and all site surveys including topographic and boundary. Completed 1998.

U.S. Department of Energy Record Storage Facility Site Evaluation, Morgantown, WV

Project Manager. Evaluation of more than 20 sites for suitability for the construction of a 45,000 SF records storage facility. Completed 2006.

Blackwater Falls State Park Cabins, Davis, WV

Project Manager, Site Design. Design of 13 new cabins, new access road, wastewater plant and support facilities. Expected completion 2011.

Seneca Rocks Visitors Center, Seneca Rocks, WV

Project Manager, Landscape Architecture. Site design and civil engineering for new visitors center. Completed 1997.



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

Richard Derbyshire
IT/AV Consultant

Years Experience:

Total: 35 With Current Firm: 15

Firm:

Shen Milsom & Wilke, Arlington, VA

Education:

• Bachelor of Arts

Mr. Derbyshire brings 35 years of experience in projects for corporate, legislative, government, museum, medical, and educational clients. He has extensive experience in systems design project management for large and small scale systems' installations. He has a depth of experience in project management including large screen display, remote control video computer network, and integrated systems.

RELEVANT PROJECTS

Air National Guard Readiness Center, Andrews Air Force Base, MD

IT/AV Project Manager. Audiovisual consulting services for the 138,000 SF renovation of the ANG's Readiness Center. Scope of work involved the evaluation, upgrade, and design of the meeting and presentation capabilities for the units located in the facility. Spaces included multipurpose divisible rooms, large and small conference rooms, a Briefing room, Operations room, training space, offices, and support spaces. Completed 2004.

ISO New England, Holyoke, MA

IT/AV Project Manager. Provided consulting services to assist ISO NE in selecting the appropriate technology based on their specific needs and requirements as well we assisted in a competitive bid process, award, and construction administration. The control room is the significant feature of the facility and provides a view of the entire power grid for all of New England. The unique combination of specifically developed software for the display image is married to a specific display solution that provides an optimal view of the power grid for system operators. Assisted ISO NE with evaluating several choices for the display system and developing a project plan and approach that would result in a fully tested and operational facility on the schedule required. Completed 2007.

National Oceanographic and Atmospheric Administration, NESDIS Operations Facility & Satellite Operations, Suitland, MD

IT/AV Project Manager. The NOAA NESDIS Operations Facility is a 208,000 GSF energy-efficient building which provides a home for NOAA's environmental satellite and data processing facility. Provided acoustical and A/V services for the 24/7 critical operations center. The NESDIS Operations Facility includes the Launch Control Room and the Satellite Operations Control Center (NOC/SOCC). This GSA project received a Silver LEED rating and received special distinction under the auspices of the GSA's Design Excellence Program. Completed 2006.

Defense Intelligence Analysis Center, Bolling AFB, Washington, DC

IT/AV Project Manager. Design and consulting services from programming schematics through to construction for multiple secured SCIF video conferencing rooms. Program elements of particular significance include an atrium, auditorium, and classroom spaces. Special space requirements included a conference center, briefing rooms, a television studio, labs, tech rooms, cafeteria, computer rooms and teleconferencing rooms. 550,000 SF, 125 Million. Completed 2006.



Professional Architect/Engineering Services
West Virginia National Guard Joint Operations Facility, DEFK11028

J. Braden Rowse, AVS, CCC, LEED AP
Cost Estimator

Years Experience:

Total: 6 With Current Firm: 5

Firm:

Crawford Consulting Services, Pittsburgh, PA

Education:

- Bachelor of Science, Landscape Contracting

Professional Registration:

- Certified Cost Consultant (CCC)
- Associate Value Specialist (AVS)

Other Qualifications:

Affiliations:

- AACE International
- SAVE
- US Green Building Council

Mr. Rowse is a Certified Cost Consultant, LEED Accredited Professional, and an Associate Value Specialist with extensive software training in programs including MCACES, MII, PACES, and ROCTEK. He has performed quality consulting services for numerous Federal Government Agencies, including NASA, US Army Corps of Engineers, Air Force, Veterans Affairs, and Navy. He has participated in several value engineering studies for projects including, but not limited to, classrooms, barracks, community buildings, communication facilities, vehicle maintenance shops, and warehouses.

RELEVANT PROJECTS

PA National Guard, Combined Readiness Center, York, PA

Cost Estimator. The 42,148 SF facility will house two Companies of Soldiers. This facility will have two weapons vaults as well as a communications security vault and be equipped with an Electronic Security System (ESS) and an Intrusion Detection System (IDS) to monitor the Weapons Vaults. Cost: \$12.6 M. Completed 2008.

WV Army National Guard, Armed Forces Reserve Center, Fairmont, WV

Cost Estimator. New construction of the 60,000 SF Armed Forces Reserve Center located in Fairmont, WV. The project included offices, conference room, garage, locker room, shower facilities, and assembly hall. The grounds consisted of parking, detached storage area, fueling station, landscape, security lighting, and fencing. The building will house two units of the WV Army National Guard. Cost: \$18.7 M. Completed 2008.

Armed Forces Reserve Center, Lewisburg, PA

Cost Estimator. This facility will consist of a 70,000 SF training building, 8,300 SF organizational maintenance building, and a 2,600 SF unheated storage building. Supporting facilities include land clearing, paving, fencing, general site improvements, and extension of utilities. Security measures will include maximum standoff distances from roads, parking areas, and vehicle unloading areas. Cost: \$24 M. Completed 2008.

Armed Forces Reserve Center, Newport, RI

Cost Estimator. The 64,828 SF facility will consist of a 58,978 SF training building, 3,115 SF vehicle maintenance shop, 2,735 SF organizational unit storage, and organizational parking. Security measures were incorporated to include maximum standoff distance from roads, parking areas, and vehicle unloading areas. Cost: \$16 M. Completed 2009.

Armed Forces Reserve Center, Williamsport, PA

Cost Estimator. This 300-member facility will consist of a 63,000 SF training building, 5,800 SF organizational maintenance building, and a 2,000 SF unheated storage building. Supporting facilities include land clearing, paving, fencing, general site improvements, and extension of utilities. Security measures will include maximum standoff distances from roads, parking areas, and vehicle unloading areas. Cost: \$18.5 M. Completed 2009.

RFQ No. DEFK11028

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.

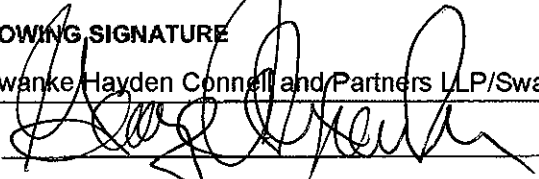
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality 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 exceeds five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Swanke Hayden Connell and Partners LLP/Swanke Hayden Connell Architects

Authorized Signature:  Date: 3/17/2011

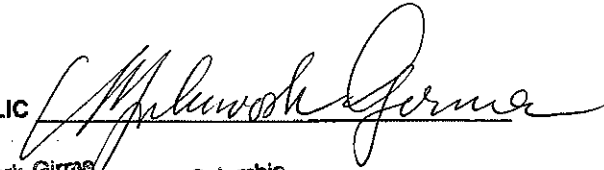
State of WASHINGTON DC

County of _____, to-wit:

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

My Commission expires October 14, 2011, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC 
Matthew Girma
Notary Public, District of Columbia
Commission Expires October 14, 2011