



BETHLEHEM
CENTRAL SCHOOL DISTRICT

**2015
FIVE-YEAR CAPITAL
FACILITIES PLAN**

December 17, 2015

General Condition and Goals- Clarksville Elementary School

The Clarksville Elementary School, located on Verda Lane in Clarksville, NY, is currently occupied by the Albany County Sheriff's Uniform Patrol Division with a portion of the building utilized for District storage. Originally constructed in 1948, with additions in 1954, 1968 and 2006, the 35,406 (gross) square foot facility was closed for school following the 2010-2011 school year. The facility incorporates a playground on site and was listed on the U.S. National Register of Historic Places in 2008. The building's last capital improvement project was in 2014 with several areas of roofing replacement and structural reinforcement. In general, the overall condition of this facility is good.

The goals for this facility focus on the following:

- Select window replacement, roof replacement at the 1948 wing, and select exterior steel refinishing.
- Exterior sealant remediation and replacement.

General Condition and Goals- Eagle Elementary School

Eagle Elementary School is a pre-kindergarten through fifth grade elementary school, located across from the High School on Van Dyke Road in Delmar, NY. The 60,375 (gross) square foot facility currently accommodates 417 students. The building was originally constructed in 2008 with the last capital improvement project occurring in 2014 with site, technology and electrical upgrades. The facility incorporates play fields to the northwest and a playground on site. In general, the overall condition of this facility is good.

The goals for this facility focus on the following:

- Site modifications related to additional parking, curb reconstruction, play area drainage and playground equipment and modifications.
- Modifications to the existing Cafeteria for egress.
- Addition of water overflow protection at the Gym roof.
- Provide security cameras.
- Technology upgrades related to CISCO VoIP telephone replacement, digital signage, and Wide Area Network between schools.

District's Rationale for Priority Ranking

The Bethlehem Central School District takes pride in its facilities. This pride is reflected in the maintenance of these facilities and the capital improvements made in the recent past. Many of the District buildings' major infrastructure systems have been replaced or substantially upgraded. The capital improvement project items included in this five year plan are predominantly localized items that were not able to be included in previous projects due to financing limitations.

The following priorities have been established to estimate project costs over the next 5+ years:

- **High Priority:** Items recommended to be addressed within 1-2 years.
- **Medium Priority:** Items recommended to be addressed within 3-4 years.
- **Low Priority:** Items recommended to be addressed within 5 years or more.

Additionally, items were further prioritized based on the following categories provided by the District:

- **District Category 1: Envelope/Roof/Masonry**
The maintenance and preservation of existing building exterior envelopes.
- **District Category 2: Structural**
The maintenance and preservation of existing building structural systems.
- **District Category 3: Health & Safety**
Priority for any identified code or life safety item.
- **District Category 4: Site**
The maintenance and upgrades required for any site related elements.
- **District Category 5: Mechanical/Electrical/Plumbing**
The maintenance and upgrades required for any mechanical, electrical, plumbing, or fire protection systems.
- **District Category 6: Cosmetic**
The preservation of existing interior systems and materials. Aesthetic issues and upgrades affecting the overall quality and usefulness of program and community space.

District Capital Phasing Goals

The Bethlehem Central School District will use this report to consider future capital improvement projects, their likely timeframe, and their impact on financing alternatives:



Project Prioritization



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Five Year Capital Facilities Plan
District-Wide Estimated Expenses Summary

<u>Building</u>	<u>Estimated Project Cost</u>	<u>Estimated Project Cost</u>	<u>Estimated Project Cost</u>
	HIGH PRIORITY Years 1-2	MEDIUM PRIORITY Years 3-4	LOW PRIORITY Years 5 - or more
High School	\$ 19,051,104	\$ 5,050,500	\$ 19,562,039
Middle School	\$ 9,036,969	\$ 5,795,005	\$ 1,823,648
Clarksville Elementary School	\$ 500,523	\$ 542,369	\$ 1,071,069
Eagle Elementary School	\$ 546,649	\$ 198,447	\$ 259,325
Elsmere Elementary School	\$ 5,503,950	\$ 897,399	\$ 1,137,934
Glenmont Elementary School	\$ 2,826,540	\$ 1,911,115	\$ 123,179
Hamagrael Elementary School	\$ 1,916,105	\$ 2,266,010	\$ 151,800
Slingerlands Elementary School	\$ 3,174,192	\$ 1,907,838	\$ 47,833
O&M Building	\$ 231,587	\$ 47,596	\$ 216,538
Transportation Building	\$ 1,509,243	\$ 464,029	\$ 41,682
Bus Wash	\$ 31,388	\$ 127,480	\$ 17,220
Totals	\$ 44,328,250	\$ 19,207,787	\$ 24,452,267

These estimates are probable in nature and should be used for budget planning purposes only.

Design & Construction Contingencies

- 10% Design phase
- 5% Escalation
- 10% Construction Phase

Project incidental or soft costs are typically 20% of the overall project cost leaving 80% available for construction. Items typically include: Architectural / Engineering Professional Services, Construction Management or Clerk of the Works, soil testing, surveys, other tests, air monitoring, FFE (furniture, fixtures, & equipment), legal fees, insurances, printing and reproduction expenses, other items, and financing costs inclusive of bonding.



ASHLEY MCGRAW

Five Year Capital Facilities Plan
District-Wide Analysis and Prioritization

Clarksville Elementary School

Topic	Existing Conditions	Recommended work	BCS #	Health & Safety	Priority L, M, H	District Category (1-6)	Estimated Project Cost
SITE							
S-1 Pavement	Front parking area pavement in generally good condition but does need some repair/maintenance	Asphalt pavement improvements (seal cracks and seal coat, minor patching)	53	☐	L	4	\$ 25,300
S-2 Pavement Restriping	District requests restriping of pavement at all buildings including parking lines, arrows, labels, etc.	Restripe pavement at all locations. Price does not include seal coat prior to restriping	53	☐	M	4	\$ 6,325
S-3 Sidewalk	Portion of front (west end) concrete sidewalk cracking and heaving, general deterioration	Replace section of 8ft wide concrete sidewalk. Assume 1,000sf	54	☐	M	4	\$ 22,138
S-4 Playgrounds	Wood play structures and picnic tables dated/cracked. No ADA access route. Existing backstops in need of repair or replacement	Playground (maintained by District). Replace playground equipment (wood elements) with smaller playground area, no picnic area provided. Improve overall drainage. Remove unused backstops.	55	☒	M	3	\$ 118,594



ASHLEY MCGRAW

Five Year Capital Facilities Plan
District-Wide Analysis and Prioritization

Clarksville Elementary School

Topic	Existing Conditions	Recommended work	BCS #	Health & Safety	Priority L, M, H	District Category (1-6)	Estimated Project Cost
ARCHITECTURAL							
A-1 Miscellaneous Abatement	The current Asbestos Management Plan indicates that there are some areas of asbestos containing materials including soffit/ceiling materials, caulk abatement and plaster removals.	District may not continue abatement at this building since much of the abatement has already been completed - Remove and replace remaining asbestos containing material as it is encountered in areas of the renovation. Additional testing will be required to better define the scope of the budget.	-	☒	L	3	\$ 679,128
A-2 Masonry Restoration	Masonry and exterior wall issues observed throughout building. Bricks & Joints along the bottom of the walls where the sidewalk/pavement abuts the building are deteriorating due to the use of high concentrations of salt.	Masonry/brick repair/replacement around building.	61	☐	M	6	\$ 118,594
A-3 Pre-Cast Concrete Sills	Sills at the 1948 wing are spalling and have exposed rebar	Replace Pre-Cast Concrete Sills at the 1948 wing	61	☐	H	1	\$ 79,063
A-4 Exterior Doors	Exterior Hollow Metal Doors are deteriorating & rusting due to water damage	Replace all classroom exit exterior doors	64	☐	M	1	\$ 79,063
A-5 Window Replacement	Windows are deteriorating at Room 14	Replace Room 14 Deteriorated Windows at end of the building	67	☐	H	1	\$ 2,435
A-6 Roof	There are ponding issues at the 1948 wing portion of the building; Bubbling was reported and has delaminated the membrane from the insulation	Replace roof at 1948 wing	68	☐	H	1	\$ 379,500
A-7 Roof Drain	Roof drains are functional but require cleaning at 1968 Addition and 1954 Corridor	Roof drain to be cleaned by District.	68	☐	H	1	\$ -
A-8 Refinishing Steel	Steel Framework at the 1948 wing requires refinishing; The ladder to the gym roof requires refinishing or replacement	Refinish steel framework at select locations around building; Where steel is severely corroded, remove and replace.	-	☐	H	1	\$ 37,950
A-9 Concrete Pads at exterior doors	Concrete pads have tilted into the building at the original building	Reset existing exterior concrete pads at exterior doors.	-	☐	M	4	\$ 197,656

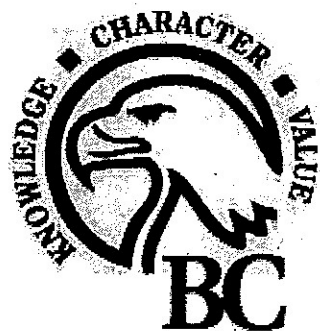


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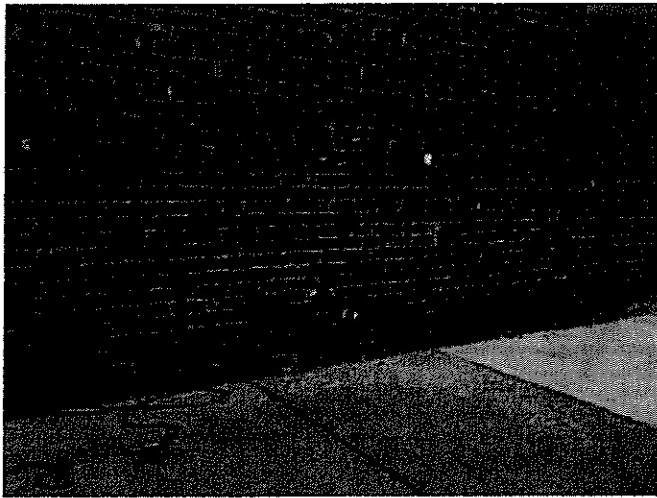
Five Year Capital Facilities Plan
District-Wide Analysis and Prioritization

Clarksville Elementary School

Topic	Existing Conditions	Recommended work	BCS #	Health & Safety	Priority L, M, H	District Category (1-6)	Estimated Project Cost
A-10 Sealant Abatement	Existing Sealant around building may be asbestos containing material.	Test and replace asbestos containing sealant around building. 12 Linear Feet grey caulk noted at exterior doors and fixtures in 6 Month Surveillance Plan at E/W Corridor, Tractor Storage OH Door, Gymnasium, Faculty Women's room vent fan, Conference Room, Room 30 (changed to 8), School Storage Rm 10, Room 11, Room 12, Storage Room, and Music Room 14. Assume ACM; Remove and replace sealant.	-	☐	H	3	\$ 1,575
A-11 VAT Flooring Abatement & Replacement	Majority of Rooms have VAT tile (Select Areas in the original building, 1968 Addition, All Corridors, 1954 Addition)	Remove VAT and replace with VCT/BioBased Tile (12000 SF)	72	☒	L	3	\$ 288,875
A-12 Ceiling Replacement	Water Damage Sagging APC Tile/Grid Rusting @ Ceiling Grid (North end of original Building)	Repair/Replace damaged ceiling (500 SF)	75	☒	L	6	\$ 3,953
A-13 Interior Doors	Corridor Doors to the addition function but are showing wear.	Replace all corridor doors at addition.	77	☒	L	6	\$ 2,657
A-14 Accessible Toilet Rooms	Existing Toilet Rooms in Original Building (24D & 24C) are not handicapped accessible and should be addressed	Renovate the existing toilet rooms to make them handicap accessible.	-	☒	L	3	\$ 71,156
PLUMBING							
MECHANICAL (HVAC)							
ELECTRICAL							
High Priority							\$ 500,523
Medium Priority							\$ 542,369
Low Priority							\$ 1,071,069
Subtotal L, M, H							\$ 2,113,960
Subtotal Unallocated							\$ -
Total							\$ 2,113,960



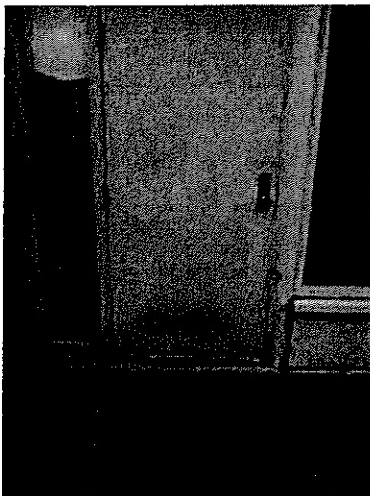
Photos



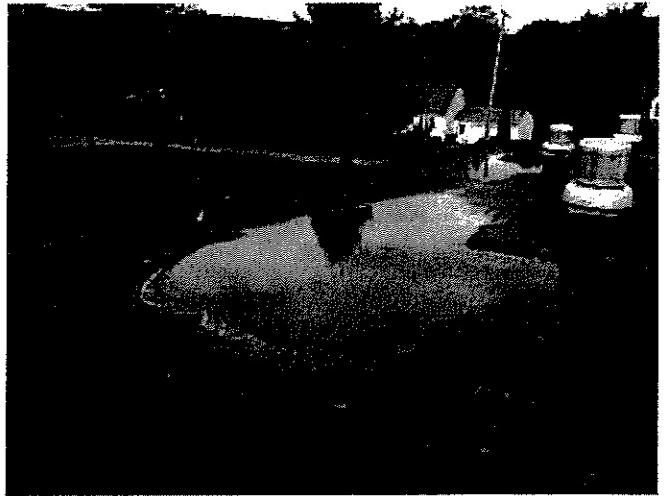
A-2 MASONRY RESTORATION



A-3 PRE-CAST CONCRETE SILLS



A-4 EXTERIOR DOORS



A-6 ROOF



A-9 STONE PADS AT EXTERIOR DOORS

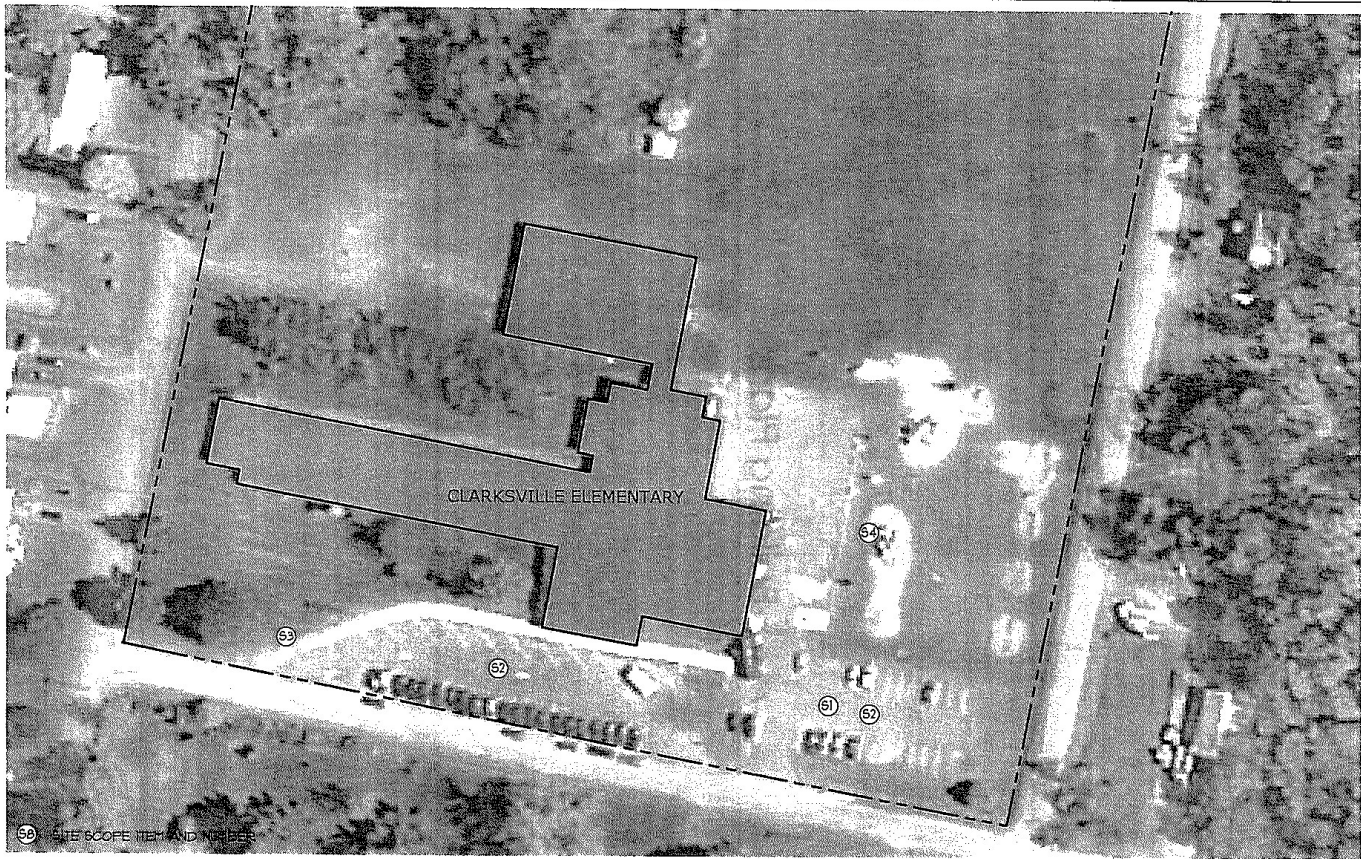


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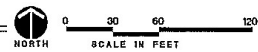
BETHLEHEM CENTRAL SCHOOL DISTRICT
CLARKSVILLE ELEMENTARY SCHOOL



Building Plans



Bethlehem CSD - Five Year Plan
CLARKSVILLE ELEMENTARY



ASHLEY MCGRAW
appel
osborne
landscape
architecture

ASHLEY MCGRAW ARCHITECTS
1000 4TH AVENUE, SUITE 200
CLARKSVILLE, TN 37040
TEL: 615.255.1234 FAX: 615.255.1235

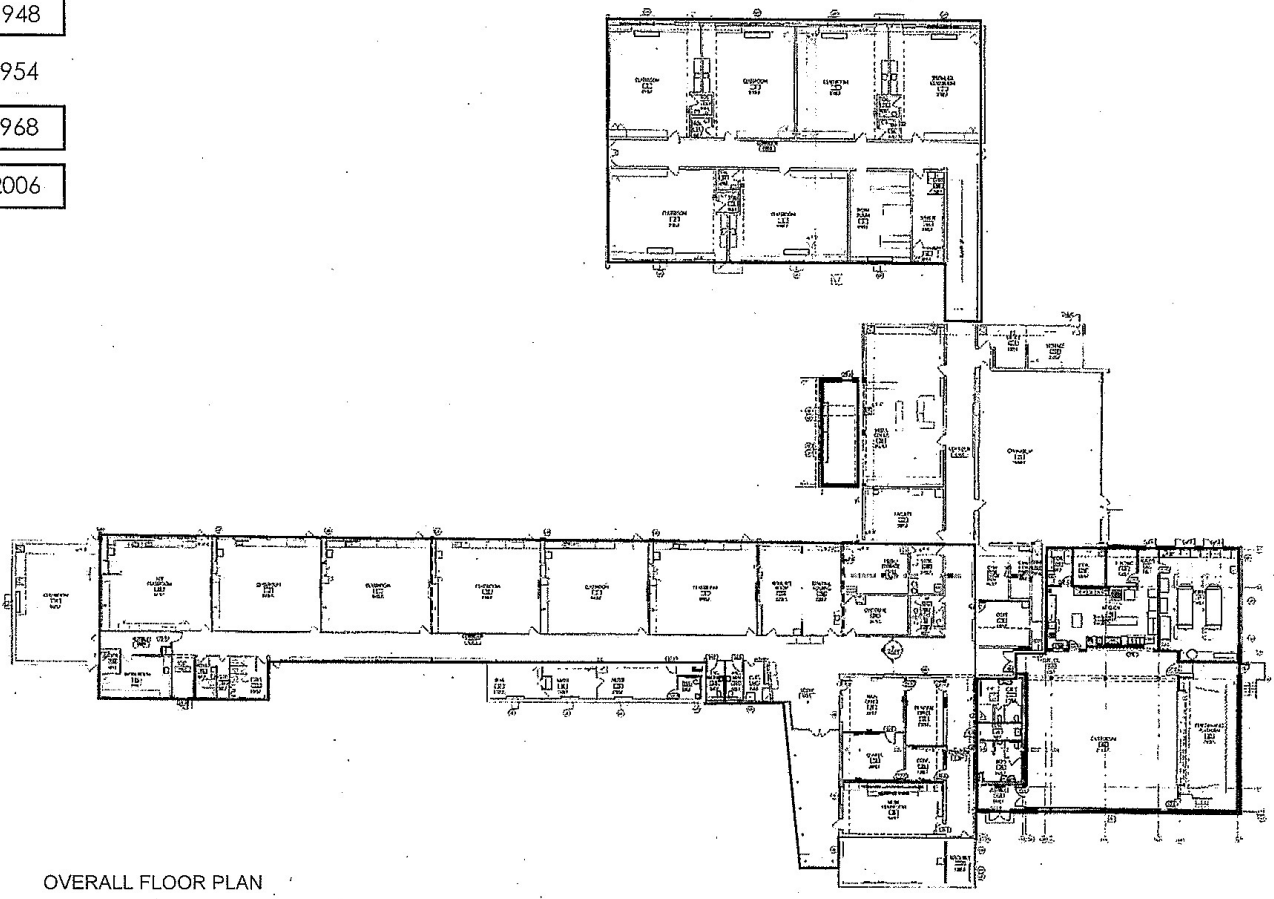
BETHLEHEM CENTRAL SCHOOL DISTRICT
FIVE YEAR PLAN
CLARKSVILLE ELEMENTARY SCHOOL
58 VERDA LANE CLARKSVILLE, NY 12041

PROJECT:
AM JOB NO. 1257.03
DATE: 08/10/15
REV. 12/10/15

CLARKSVILLE
ELEMENTARY
SCHOOL

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- 1948
- 1954
- 1968
- 2006



OVERALL FLOOR PLAN



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BETHLEHEM CENTRAL SCHOOL DISTRICT
 FIVE YEAR PLAN
 CLARKSVILLE ELEMENTARY SCHOOL
 58 VERDA AVE CLARKSVILLE, NY 12041

PROJECT:
 AM JOB NO. 1257.03
 DATE: 12/10/15

CLARKSVILLE
 ELEMENTARY
 SCHOOL

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Geotechnical Engineering Report

**Vehicle Warehouse
Clarksville, New York**

August 2, 2019

Terracon Project No. JB195182

Prepared for:

SEI Design Group
Albany, New York

Prepared by:

Terracon Consultants-NY, Inc
Dba Dente Group
Watervliet, New York

New County Public Safety Facility



Client

Saratoga County
Public Works
County of Saratoga, NY

Size

64,000 sq.ft.

Contact

Richard Castle
Undersheriff
(518) 865-2497

Construction Cost

\$26 million

Completion

2020

SERVICES PROVIDED

Site Evaluation
Schematic Design
Programming All Users
Budgeting
Construction Administration
Geotechnical
Phase 1A and 1B Cultural Field
Reconnaissance
Design Development

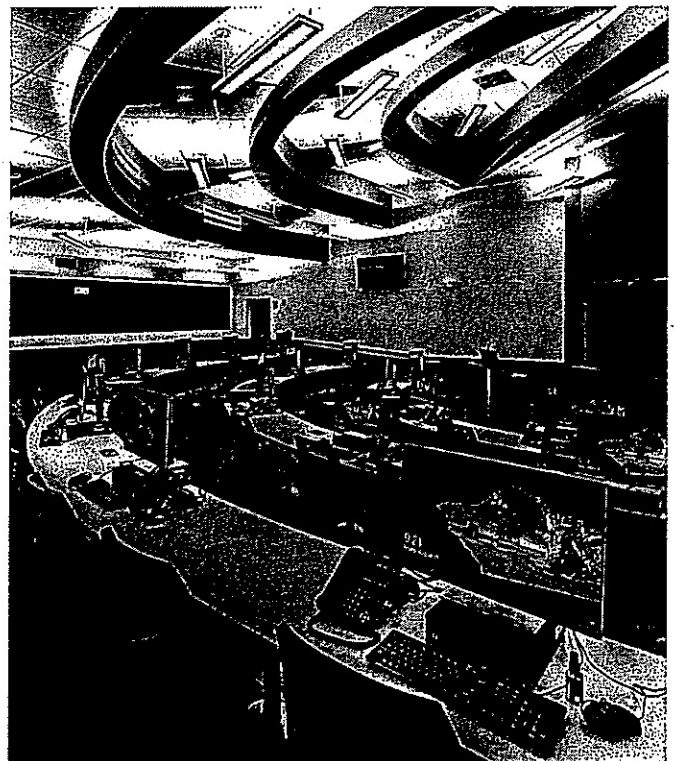


Critical essential service facility combining County Emergency Services, Emergency Operations Center, 911 Call Center, Sheriff, Public Health, and Probation Departments under one roof for efficiencies in space, coordination, communication, emergency power, community training and outreach.

The Saratoga County Sheriff's Department, Office of Emergency Services, and the County Health Department share similar missions and work hand-in-hand during emergency situations. Their co-location near the existing communications tower on County-owned land is intentional. The addition of the probation Department to the facility helps emphasize the aspect of Probation as a public safety function, related to law enforcement, and encourages communication with the Sheriff's Department.

Placement on the County owned site allows for future growth and provides the County of Saratoga with a central location for all of its emergency response needs.

The need for larger meeting rooms for each use was reduced by incorporating shared conference, meeting, and support rooms. The design is a single-story solution, and layout within each department allows for future growth. The main lobby connects the entrance to each department through waiting areas.



New Fire Headquarters



Client

City of Lethbridge
Lethbridge, AB

Size

39,000 sq. ft.

Contact

Richard Hildebrand,
Fire Chief

403-393-8006

Construction Cost

\$10 million

Completion

2011

SERVICES PROVIDED

Feasibility Study and Site Selection

Schematic Design Construction

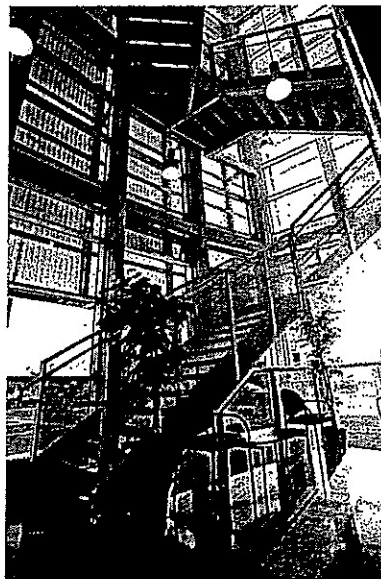
Administration Design and Programming Budgeting

Detailed PSAP Equipment Specification and Bidding



The City of Lethbridge wanted to combine its very busy Fire Department with the Regional EOC, 911 call answering point, city-wide IT center, fire marshal fire headquarters, and city fitness facility in one location.

Pacheco Ross Architects (PRA), a division of H2M, teamed with prominent local architect Ferrari Westwood Babits Architects and local consulting engineers to create the strongest possible design team to solve numerous challenges that came along with the integration of city departments. Designed as Green Globes Sustainable, an emphasis was placed on energy efficiency, daylighting, selecting sustainable materials, and regional sourcing. Fully sprinklered, the facility is 48% more energy efficient than required and incorporates lighting management, LED lighting, vehicle exhaust, individual zone controls, air quality monitoring, HVAC management, electronic auditable occupant access station alerting, in-floor radiant heating with high-efficiency tankless boilers for bays, and building-wide on-site emergency power. The facility was designed on a small downtown corner that defines entrance to the City Center. It was designed to maximize safe response and protect entry and balcony from unusually strong prevailing winds. PRA worked closely with the City and local businesses to maintain proper response, pedestrian walkways, parking, streetscape, and view corridors.



New Fire Station



Client

Fort Washington Fire
Company
Fort Washington, PA

Size

20,170 sq.ft.

Contact

Jeff Fogel
Past President
(215) 651-2861

Construction Cost

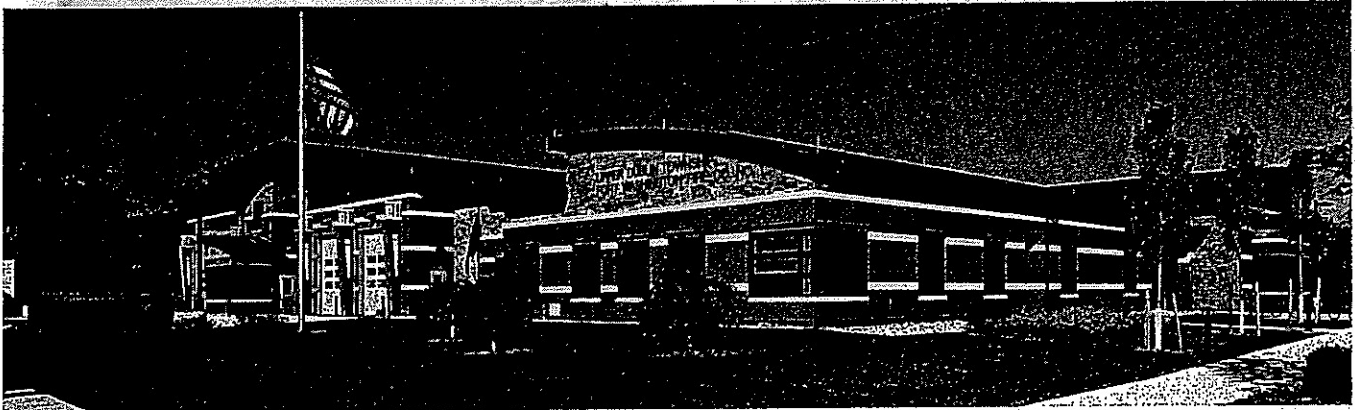
\$6.3 million

Completion

2012

SERVICES PROVIDED

Feasibility Study
Site Evaluation
Schematic Design
Construction Administration
Design Coordination
Budget and Value Engineering
Coordination with Volunteer
Fire Company



Fort Washington Fire Company No. 1 wanted to combine its Volunteer Fire Company and New Student Bunker Program into a single facility with public access for training, EOC, and Township offices that would maintain secure separations without diminishing emergency response.

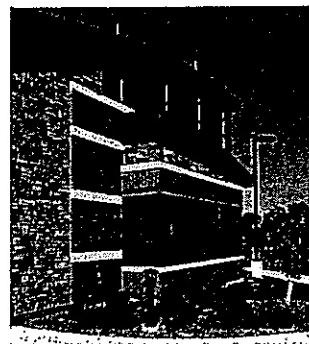


Fire Chief
Gold Award

AWARDS

Pacheco Ross Architects (PRA), a division of H2M, controlled the size and scope of the facility and analyzed every aspect of the project through value engineering in order to stay on budget. We brought together the community, Board of Commissioners, Township staff, and the Fire Company for input and concerns as they related to the design of the new facility. We utilized programming and schematic design to engage diverse stakeholders and seek their input. We also invited neighbor input from the residential neighbors and ultimately developed setbacks, berms, a fence and landscape buffer for privacy.

The final design was a 20,170 square foot modern, state-of-the-art, multi-use facility that could be expanded upon in the future. The site and building were designed to allow one additional double-deep bay, bunking, and public area for additional Township uses. All infrastructure and systems were designed to accommodate future expansion.





Qualifications of Key Personnel

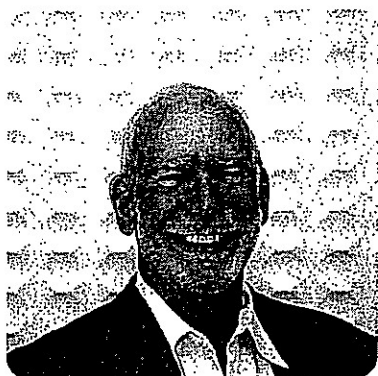
H2M and our team of professionals, believe we have assembled the best team with the specific expertise and direct experience to help the County of Albany achieve its goals for this new emergency management facility. As the projects are similar, we have committed the same staff that worked on the newly open County of Saratoga Public Safety Facility. Our staff are based in our Albany office, just 20 miles from the Clarksville Public Safety Campus. Highlights of our leadership team dedicated to making this project a success are provided below:

► Dennis A. Ross, AIA, Principal-in-Charge

- H2M's Market Director of Emergency Services, Mr. Ross has been directly involved with the design and construction of emergency response facilities for the past 40 years. Mr. Ross provided executive oversight of the Saratoga County Public Safety Facility. He is a nationally renowned architect and specializes in the design of police, fire, and emergency response facilities. Mr. Ross also regularly speaks at national conventions and seminars regarding excellence in fire station design. He is the only Architect to attend and serve on the NFPA Technical Committee on "Emergency Responder Occupational Health". The Committee has been asked to develop a new Standard on Contamination Control, NFPA 1585, and complete a draft by the end of 2020.

► Katrina N. Pacheco, AIA, NCARB, LEED AP BD+C, Project Manager

- Ms. Pacheco is a senior architect with more than 26 years of experience in the design of emergency services facilities. She serves in a voluntary capacity on the Building Committee for Niskayuna Fire District No. 1 where she is an honorary member of the Grand Boulevard Fire Company. Her experience with sustainable practices and emergency response project expertise has enabled her to skillfully assist clients and counsel on many aspects of emergency response facilities. Notably, Ms. Pacheco led the design of the Saratoga County Public Safety Facility.



Dennis A. Ross, AIA

Market Director of Emergency Services

Dennis A. Ross, AIA, has over 40 years of experience in architectural design, focusing on Emergency Response Facilities; fire, police, EMS, EOC, PSAP, and public safety. With additional experience in construction management, real estate development, feasibility studies, and land evaluations, Mr. Ross is able to assess projects from multiple point of views. He leverages his expertise and experience through teaching, writing, speaking at numerous national engagements, and being one of the leaders of the critically acclaimed One-on-One™ symposiums and design services group.

Experience

H2M

Pacheco Ross Architects, P.C.

Education

B.Arch. Rensselaer Polytechnic Institute
BS, Building Science, Rensselaer
Polytechnic Institute

Exchange Student, Polytechnic of Central
London

Licenses/Certifications

Registered Architect: CO, CT, MD, MA, ME,
MI, MO, NE, NJ, NY, OH, PA, TN, VA, WV
Certified: National Council of Architectural
Registration Boards (NCARB)

Memberships

American Institute of Architects (AIA)
National Council of Architectural
Registration Boards (NCARB)
Former Chairman and Member of /Small
& Independent Business Council of New
York State
National Fire Protection Association (NFPA)
NFPA Technical Committee on Emergency
Responder Occupational Health
Board of Governors for Phi Kappa Tau Rho
Chapter Fraternity
Honorary Member – Kingston Fire
Department, PA

Publications

"Air Quality in Your Fire Station", Firehouse
Magazine, 2020
"Get it Done! 10 Strategies for Success", Fire
Chief Magazine, 2019
"Design of the Times", Fire Chief Magazine,
2013
"Gear at the Ready", Fire Chief Magazine,
2009
Fire Station: Architectural Insight to
Planning, Design, and Construction, Co-
Author, IAFC Foundation, 2010
Chief Fire Officer's Desk Reference, Co-
Author of Chapter on Fire Station Design,
Jones & Bartlett Publishers in conjunction
with IAFC Foundation, 2005
"Bay of Rigs", Fire Chief Magazine, 2005

Gaining his Bachelor of Architecture degree from Rensselaer Polytechnic Institute, Mr. Ross went on to become licensed in 14 states, NCARB certified, a board member for the Phi Kappa Tau Rho Chapter Fraternity, and an honorary member of the Kingston, PA Fire Department. Mr. Ross has earned several awards including the NYS Small Business Advocate of the Year award in 2001 from the Business Council of New York State and NFIB; and holds membership in many professional organizations such as AIA, NCARB, NFPA, and ICC.

Selected project experience:

- Saratoga County Sherriff, EOC, PSAP, Emergency Management, and Department of Health; Saratoga, NY
- Norwalk Fire Headquarters, E.O.C., and City I.T.; Norwalk, CT
- Lethbridge Fire Headquarters, E.O.C., PSAP, and City I.T.; Lethbridge AB
- Town of Ticonderoga, Fire & Police; Ticonderoga, NY
- Town of Greenfield, Public Safety, Fire, Police, PSAP, and EOC; Greenfield, MA
- Lexington Fire and Police; Lexington, MA
- City of Poughkeepsie Fire and Police; Poughkeepsie, NY
- City of Wolfforth Public Safety, Fire, Police, PSAP and EOC; Wolfforth, TX
- City of Auburn Public Safety, Police, Fire, PSAP, E.O.C., Courts, Probation, and Parole; Auburn, NY
- East Syracuse Fire and State Police; Town of DeWitt, NY
- City of Barre Fire and Police; Barre, VT
- Town of Brattleboro Police and Fire; Brattleboro, VT
- Town of Bristol Police, and Fire; Bistol, VT
- Somerville Fire and Police; Somerville, NJ



David J. Pacheco, AIA

Director of Operations, Senior Architect

Mr. Pacheco has more than 26 years of architectural experience and is H2M's Director of Operations. Mr. Pacheco leads the Core of Excellence and is responsible for developing, directing, coordinating, and implementing plans and systems for quality and excellence across H2M disciplines, markets, and offices. Mr. Pacheco administers all phases of architectural and planning projects from design through construction administration. His expertise includes Client satisfaction, design, contract management, planning, budgeting, and the overseeing of project schedules, design development, construction documents, governmental agency submissions, and construction phase services.

Experience

H2M

Pacheco Ross Architects, P.C.

Education

B.Arch. Rensselaer Polytechnic Institute
BS, Building Sciences, Rensselaer Polytechnic Institute

Licenses/Certifications

Registered Architect: CA, CT, DE, FL, MA, NJ, NY, NC, RI, TN, VT, TX #18551

Certified: National Council of Architectural Registration Boards (NCARB)

Memberships

Fire Commissioner, Niskayuna Fire District No.1

ASTM Homeland Security Committee-Emergency Operations Center (EOC) Standards

American Institute of Architects (AIA)
Trustee: Rensselaer Newman Foundation
Past President, AIA Eastern New York – 2007-2009

Director AIA Eastern New York – 2012-2013 and 2019-2021

Director, AIA New York State – 2009-2010
Honorary Member: Grand Boulevard Fire Co. (NY) & Kingston Fire Department (PA)

Publications

"Design for the Times," Fire Chief Magazine, March 2013

"Questions to Ask When Choosing an Architect," Fire Chief Magazine, March 2010
"Fire Station: Architectural Insight to Planning, Design, and Construction," IAFC Foundation, 2010

"Anatomy of a Training Tower," Fire Chief Magazine, April 2006

"Chief Fire Officer's Desk Reference," Jones & Bartlett Publishers in conjunction with IAFC, 2005

"ASTM E2668-10 Standard Guide for Emergency Operations Center (EOC) Development," ASTM 2010

Mr. Pacheco serves as Fire Commissioner for Niskayuna Fire District No. 1 and is a Professor of Professional Practice at Rensselaer Polytechnic Institute. He has personally designed and/or evaluated more than 200 emergency response facilities and received numerous accolades for his practical and aesthetically pleasing creations that respond sensitively to Client needs, budget, codes, the environment, and the community. His broad leadership experience and emergency response design expertise has enabled him to knowledgeably write, teach, and counsel on all aspects of architecture. Furthermore, Mr. Pacheco has authored articles, books, and national standards; and has won numerous major and national design awards.

Selected project experience:

- Saratoga County Public Safety Facility, NY
- City of Poughkeepsie Public Safety Facility, NY
- Mill Creek Fire Company Station #2, DE
- City of Norwalk Fire Department Headquarters, CT
- Princeton First Aid and Rescue Squad Station, NJ
- River Oaks Fire and Rescue Station #23, VA
- Stillwater Fire District Headquarters, NY
- Town of Dewitt Multi-Purpose Facility, NY
- Fort Washington Fire Company Station, PA
- Village of Mantius Fire Station, NY
- Thompsonville Fire District No. 2 Station, CT
- Great Barrington Fire Station, MA
- Monroe Township Fire District #3 Station, NJ
- Guilderland Fire District Fire Station, NY
- Tallman Fire District Facility, NY
- Cicero Fire Department Fire Station, NY
- City of Lethbridge Fire Headquarters, EOC, PSAP, Alberta, Canada
- Town of Lexington Fire Station, MA
- Mill Creek Fire Company Station #21, DE
- Kent Island Volunteer Fire Department Station, MD
- Cortez Fire Protection District Fire Station, CO
- Bethel Park Fire Station, PA
- Niskayuna Fire District No. 1 Balltown Station, NY
- Village of Fayetteville Fire Station, NY
- Horsham Battalion #2 Fire Station, PA
- Town of Wilbraham Fire Station, MA
- Silver Lake Fire District Fire Station, NY
- Village of Colonie Fire Station, NY
- Orangeburg Fire District Fire Station, NY
- Halfmoon-Waterford Fire District Fire Station, NY
- Keene Fire District Station, NY
- William P. Faist Ambulance Facility, NY
- Town of Natick Fire Station, MA
- O'Fallon Shiloh Fire Station, IL

Andrew F. Jackson, AIA

Project Architect

Mr. Jackson has over 20 years of experience providing architectural services for emergency services and educational facility projects. He is knowledgeable in handling all phases of public and private projects, including client contact, programming, design development, construction document production, consultant coordination and contact, and construction administration.

Selected project experience:

- Halfmoon-Waterford Fire District, Halfmoon, NY: Project Architect for a new five-bay, 17,000 square foot fire station and separate 4,800 square foot temporary facility/pavilion structure. Work includes MEP, civil, and structural engineering coordination.
- Charlton Fire District #1, Charlton, NY: Project Architect for new fire station consisting of a 9,000 square foot ground floor footprint with three fire apparatus bays and support spaces. The facility also includes a separated administrative area consisting of office space, meeting rooms, and common areas for the firefighters and staff.
- Saratoga County Public Safety Facility, Ballston Spa, NY: Construction administration services for a new 63,000 square foot building housing the Sheriff's Department, Emergency Services, PSAP 911 Call Center, Probation, and Public Health departments. The building includes 13,500 square feet of shared spaces for collaboration and training purposes.
- New Fire Station, Y-12 National Security Complex, Oak Ridge, TN: Project Architect for a new 30,000 square foot fire station with operations/apparatus high-bay structure, including a mezzanine and a two-story public entry, and administrative, dormitory, and support spaces.

Selected project experience prior to H2M:

- Argyle CSD, Capital Project; Argyle, NY: \$6.4 million referendum including additions and renovations. Elementary gym renovation, locker rooms reconstruction, classroom reconstruction, sitework including tennis courts, bus garage renovation, access control upgrades, and coordination of all associated MEP work.
- SUNY New Paltz, Exterior Rehabilitation on Various Buildings: Contract with the State University Construction Fund involving eight campus buildings; vestibule replacements, curtain wall replacement, roof replacements, multi-story window replacement, historic renovation of wood windows, brick facade, and copper roofing. Also coordinated structural groups, MEP groups, and historic preservation WBE/MBE teams.
- NYY Community Foundation; Watertown, NY: Project Architect for a 15,000 square foot high-quality office space and meeting space, including renovation and restoration of the historic 1906 Federalist structure, with a 4,500 square foot three-story addition for accessibility and collaboration space.
- Indian Lake Fire District, Firehouse Renovation; Indian Lake, NY: Project Manager for the renovation of an existing 8,000 square foot steel building with structural and mechanical upgrades to a Cat. IV Essential Facility. Space configurations were made to accommodate current equipment requirements. Facade design was completed to harmonize with Adirondack Style main street context.
- Erwin Library Additions and Renovations; Boonville, NY: Re-use of existing space to expand collection, and new construction for ADA accessibility and compliance. Romanesque Revival stone edifice, c. 1888, National Historic Register.
- Town and Village of Boonville Municipal Offices; Boonville, NY: New building to house municipal offices, meeting rooms, courtrooms, and police in a 7,700 square foot design inspired by Neoclassical and Victorian local vernacular.



Experience

H2M

Mosaic Associates Architects
BCA Architects & Engineers
Andrew F. Jackson Architect, PC
James Jordan Associates
Weintraub and di Domenico,
Architects, Urban Planners, and
Landscape Architects
Stephen Tilly, Architect

Education

B.Arch., Syracuse University

Licenses/Certifications

Registered Architect: NY

Memberships

American Institute of Architects (AIA)
H2M Sustainability Committee



Chazen was founded in the Historic Hudson Valley Region of New York in 1947. They provide technical consulting expertise in civil engineering, planning, land surveying, environmental and safety consulting, code compliance, landscape architecture, and transportation planning and traffic engineering to a wide variety of clients. With offices throughout New York, Tennessee and Oregon, Chazen delivers world-class performance focused on creating effective, long-term partnerships with its clients.

Chazen is an employee-owned firm with over 150 employees and is strong with clients representing all realms of business – municipalities, nonprofits, government agencies, as well as commercial developers, private institutions and industries. With proven success, we have greatly expanded over the past few decades, yet we remain a family-run company rooted in Main Street values.

Chazen's portfolio spans a broad range of project types offering diversity and quality which resonate with their clients. From project concept to construction completion, we collaborate closely with clients, taking a customized approach that provides each client with the personal and professional service expected.

Chazen's approach is to carefully listen to their clients' needs, help define the community's goals and objectives, and identify institutional, environmental and stakeholder challenges. This enables them to craft a plan and a team of professionals to meet each client's needs. Ongoing client communications are central to successful project completion and ensure that high-quality services are delivered on time and on budget. The result is a customized approach and successful project completion.

AREAS OF EXPERTISE

- Civil Engineering
- Building Code & Life Safety Services
- Construction Services
- Environmental Services
- Geotechnical Engineering
- Grant Writing & Administration
- Landscape Architecture
- Land Surveying
- Planning Services
- Structural Engineering
- Transportation Planning & Traffic Engineering

OFFICE LOCATIONS

NEW YORK

Capital District
North Country
Hudson Valley
Westchester County
New York City

TENNESSEE

Nashville
Chattanooga

OREGON

Portland

www.chazencompanies.com

888.539.9073



BRUCE G. WELLS, P.L.S.

Principal, Director, Land Surveying

With over 42 years' experience in land surveying, Mr. Wells works closely with municipal clients providing high quality land surveying services, consultation and problem solving from project inception through completion. These projects range from performing surveys for the design of Public Safety Facilities, water wastewater treatment facilities, fire stations, highway improvement project, water, storm and sanitary sewer distribution projects, waterfront revitalization projects, boundary and acquisition mapping, as well as salt shed design projects. His experience extends to working with state and federal agencies, attorneys, title companies, public and private utilities, private developers and environmental firms. Mr. Wells is responsible for the overall quality assurance and management of survey services.

PROJECT EXPERIENCE

- **Saratoga County Public Safety Facility**
Milton, NY – Role: Project Manager

Survey project manager for a topographic, subsurface utility survey and right of way survey for the design of the Saratoga County Public Safety Facility located at Fairground Avenue and County Farm Road in the Town of Milton, New York. Chazen was retained by H2M architects and engineers to provide professional land surveying, civil and landscape architecture services. Chazen had prior survey history on the project site as the site was previously selected for an Emergency Service 911 Tower.

- **Saratoga County Office of Emergency Services – 911 Radio Towers**
Saratoga County, NY – Role: Project Manager

Chazen provided topographic / utility and property surveys for 15 tower locations throughout Saratoga County, New York. The surveys were utilized for the design of each structure. In addition, each site was mapped, legal description written for the parcel and access / utility route along with staking the facilities.

- **Town of Stillwater – NY Proposed Public Safety Facility**
Stillwater, NY – Role: Project Manager

Project Manager for a boundary and topographic survey within the northerly side of County Route 76 in the Town of Stillwater in order to subdivide ten (10) acres from the 80-acre parcel for a Public Safety Building, located at 266 County Route 76, Stillwater, New York. Subdivision map and legal descriptions were prepared for the land transfer to the Town.

- **NYS Police Troop G Headquarters: Parking Lots**
Latham, NY – Role: Project Manager

Mr. Wells was responsible for preparing topographic and utility surveys for the project site. The survey was utilized for the design and construction of additional parking lots and modifications to security fencing at the existing Troop G Headquarters in Latham.

Additional Projects Include:

- Guilderland Fire District
- Albany County Nursing Home
- City of Albany Water Board – Numerous projects
- New York State Office of General Service (OGS) Harriman Campus.
- City of Cohoes Canal Square Park
- City of Albany Waterfront Revitalization

EDUCATION

AAS, Forestry, Paul Smith College, 1971

REGISTRATION

Land Surveyor NY 049828

Land Surveyor VT 671

AFFILIATIONS

NYS Association of Professional Land Surveyors

Eastern New York Society of Land Surveyors

Vermont Society of Land Surveying

TRAINING

Dale Carnegie Leadership

TWIC Certified

10-Hour OSHA Construction

GUILDERLAND FIRE DISTRICT**Guilderland, NY**

Chazen provided civil/site design services for the expansion of the Guilderland Fire District along NYS Route 20 in the Town of Guilderland. As the site engineer for the project, Chazen was responsible for all site and utility improvements which included pavement systems design, site grading, landscape design, water and sanitary sewer services and storm water management. Chazen completed highway curb cut applications and work permits for the expansion of additional apparatus bays and new pedestrian sidewalks along NYS Route 20. Chazen also provided construction phase engineering services which included inspection of utility installations, storm water and erosion and sediment control and certifications to the Town.

ORANGETOWN FIRE DISTRICT**Orangetown, NY**

This project involved the civil/site design for the new fire station to be constructed along Orangeburg Road and Dutch Hill Road, in the Town of Orangetown. As the project engineer, Chazen was responsible for all aspects of the civil/site design for the design of the site plans and utilities for the proposed fire station. Responsibilities involved preparing the site development plans including demolition plans, site layout plans, utility and lighting plans, grading and erosion control plans, stormwater pollution prevention plans, and county highway entrance plans.

**VERDOY FIRE DEPARTMENT****Colonie, NY**

Chazen provided civil/site design tasks for the relocated Verdooy Fire Department in the Town of Colonie. As the site engineer, Chazen was responsible for all site and utility improvements, which included pavement systems design, site grading, water main connection, sanitary sewer connection and storm water management planning and utilities. Chazen completed highway curb cut applications and work permits and coordinated the relocation of the Fire Department's traffic signal located on NYS Route 7. Chazen also provided construction phase engineering services, which included inspection of utility installations and as-built drawings for certification with the Town of Colonie.

**ADDITIONAL FIRE STATION PROJECTS:**

- Roosevelt Fire District – Hyde Park, NY
- Rensselaer Fire District – Rensselaer, NY
- Wilton Fire Department – Wilton, NY
- Orangetown Fire District – Orangetown, NY
- Chestertown Fire Department – Chestertown, NY
- Wallkill Fire District – Shawangunk, NY
- Silver Lake Fire District New Firehouse – Middletown, NY
- Pottersville Fire District – Pottersville, NY
- Orangeburg Fire District – Orangeburg, NY
- Stanford Heights Fire District – Colonie, NY
- Tallman Fire District New Office and Storage Building – Airmont, NY

JEFFREY A BAK, PRINCIPAL ENGINEER

Mr. Bak has worked in the Design and Construction Industry since 1985. He heads Spring Line Design's structural engineering department yet continues to be actively involved in design and construction on a daily basis. Mr. Bak excels at working with architects to find structural solutions that support all of a project's needs, without breaking the bank. Above all, he is genuinely interested and engaged in anything having to do with the building industry no matter where, when, or whose project it may be.

PROJECT EXPERIENCE

MUNICIPAL

New Saratoga County Public Safety Facility, Ballston Spa, NY
New Nassau Emergency Medical Services, Nassau, NY
Waterford Consolidated Firehouse Feasibility Study, Waterford, NY
Waterford New Fire Station, Waterford, NY
New Paltz East New Fire Station, New Paltz, NY
Central Bridge Firehouse Feasibility Study, Esperance, NY
Manlius 5-Vehicle Bay Fire Station, Manlius, NY
Manlius Fire Station Site Wall, Manlius, NY
Phoenix 4-Vehicle Bay Fire Station, Phoenix, NY
Great Barrington Fire Station Code Review and Seismic Analysis, Great Barrington, MA
Faist 3-Vehicle Bay Ambulance Corps, Ramapo, NY
Salt Storage Shed, Town of Pittstown, Pittstown, NY
Pittsfield Waste Water Treatment Plant Grit Clarifier, Pittsfield, MA
Pittsfield Waste Water Treatment Plant Force Main Upgrades, Pittsfield, MA
East Greenbush Waste Water Treatment Plant Special Inspections, East Greenbush, NY
Village of Mayfield Waste Water Treatment Plant; Mayfield, NY
New Mamakating Library, Wurstboro, NY
William K Sanford Colonie Town Library Renovation, Colonie, NY
Simsbury Public Library Renovation, Simsbury, CT
Crawford Library Rehabilitation and Adaptive Use, Monticello, NY.

OTHER

Great Meadow Correctional Facility MEP Improvements, Comstock, NY
Oneida Correction Facility Storage Building, Oriskany, NY
Greene Correctional Facility Overhead Piping, Coxsackie, NY
Eastern Correctional Facility Wastewater Treatment, Napanoch, NY
Troop C Headquarters Renovation for Forensics ID Prototype Evidence Storage, Unadilla, NY
State Island Armory Provide Renovations to Conference Room and Family Support Area
Harriman State Office Campus Building No. 3 Provide Daycare, Albany, NY
Harriman Campus Building 8 Pedestrian Walkway, Albany, NY
Maybrook DOT Maintenance Sub-headquarters Addition, Maybrook, NY
Dulles State Office Building Auditorium, Watertown, NY
Bedford Hills Correctional Facility New Generator Building, Bedford Hills, NY
Coxsackie Correctional Facility Switchboard Housing and Powerhouse Addition, Coxsackie, NY
Clinton Correctional Facility Rehabilitate Showers, Dannemora, NY
Albany DOCCS Training Academy, Albany, NY
Green Haven Correctional Facility Rehabilitate Kitchen, Stormville, NY
NYS Police Troop A Provide Barracks, Fredonia, NY
NYS Police Troop E Sprinkler Supports, Canandaigua, NY
NYS Region 3 New Headquarters Building, New Paltz, NY

GOSR/DASNY
GOSR/DASNY
GOSR/DASNY
GOSR/DASNY



EDUCATION & ACCREDITATION

Registered Professional
Engineer NY, MA, CT, VT

Bachelor of Science, University
of Massachusetts at Amherst

Member of the American
Society of Civil Engineers

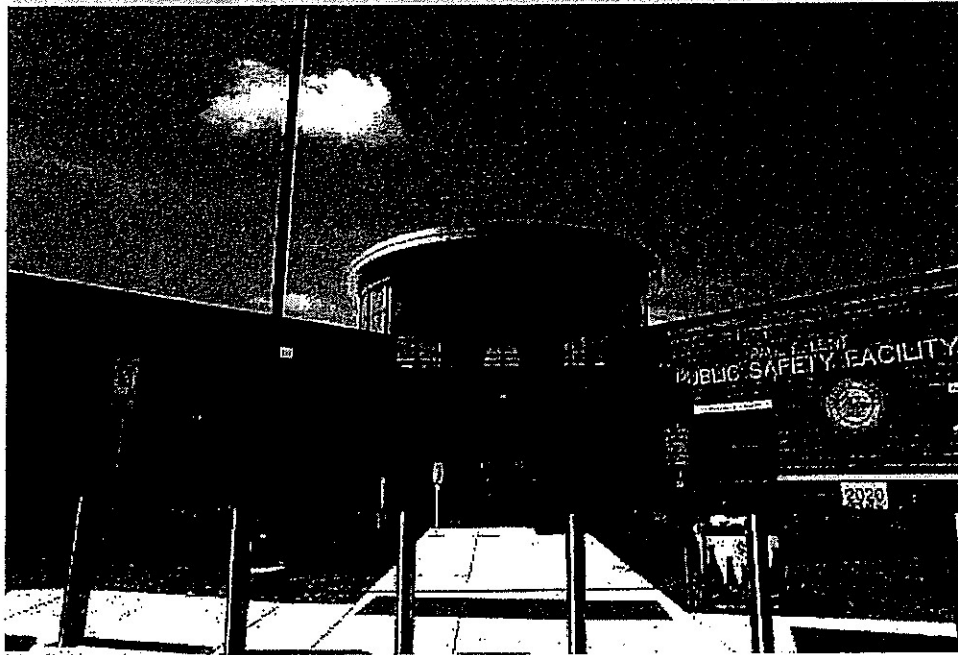
Former Chair of the Structural
Engineering Institute (SEI)
Mohawk Hudson Section

LEED Accredited Professional

American Society of Civil
Engineer's (ASCE)
Mohawk Hudson
Engineer of the Year 2013

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NEW SARATOGA COUNTY PUBLIC SAFETY FACILITY • STRUCTURAL DESIGN



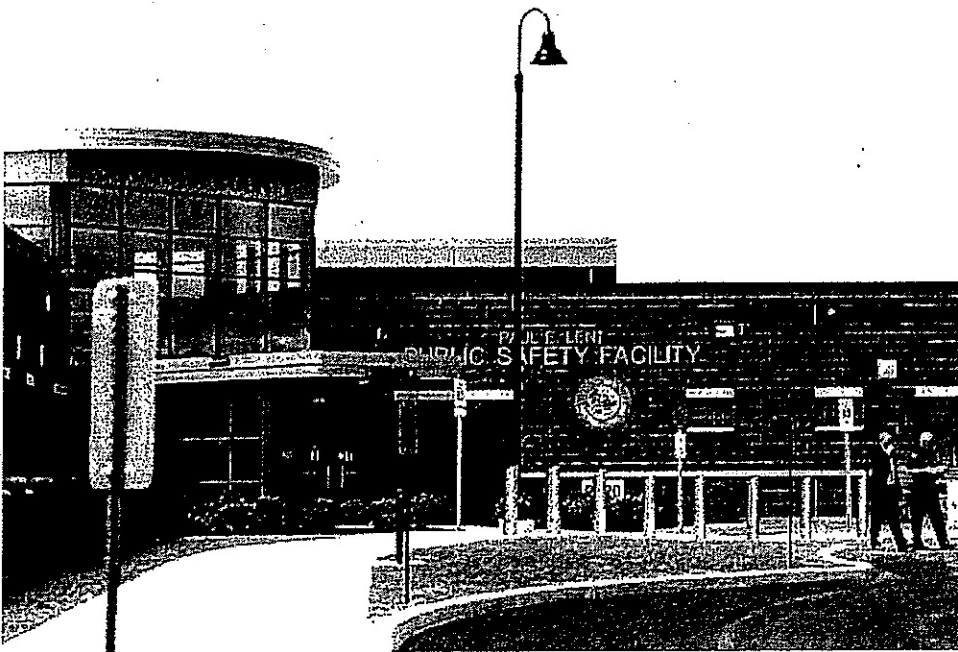
ADDRESS

Saratoga County Public
Safety Facility
6012 County Farm Road
Ballston Spa, NY 12020

PROJECT CONTACT

Architect

Pacheco Ross Architects
A division of H2M
Architects + Engineers
3 Lear Jet Lane, Suite 205
Latham, NY 12110



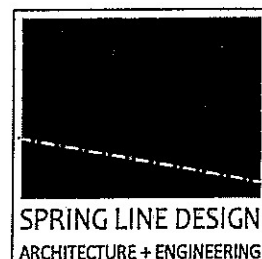
SCOPE

Structural Design, Construction
Document Preparation, and
Construction Administration

DURATION

2017-Current

DESCRIPTION New 64,500 SF one-story public safety facility which houses a 911 emergency response center; sheriff's office and probation officer's office; offices for county public health, emergency management, and public safety officials and staff. The central core of the facility acts as a "shelter-in-place" and will remain fully powered in emergency situations. Structural design included specialty loading requirements for localized blasts and other environmental factors.



MAMAKATING LIBRARY • STRUCTURAL DESIGN



ADDRESS

Mamakating Library
128 Sullivan Street
Wurtsboro, NY 12790

PROJECT CONTACT

Architect
Architecture+
297 River Street
Troy, NY 12180

CLIENT

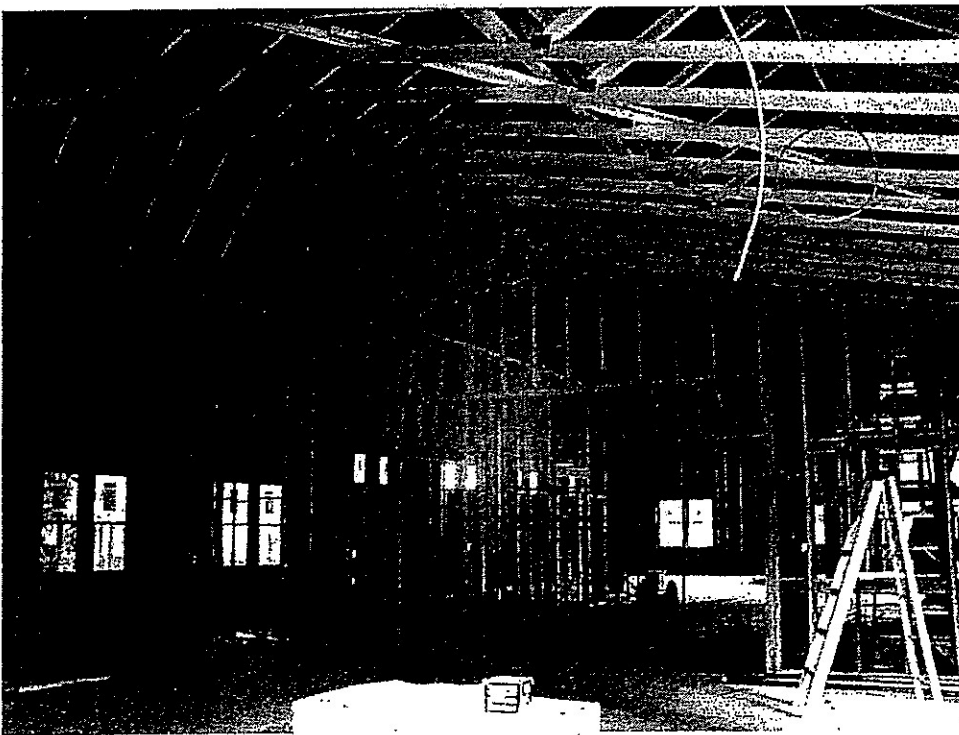
DASNY
515 Broadway
Albany, NY 12207

SCOPE

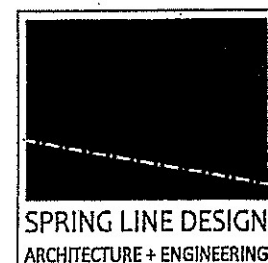
Structural Design, Construction
Document Preparation, and
Construction Administration

DURATION

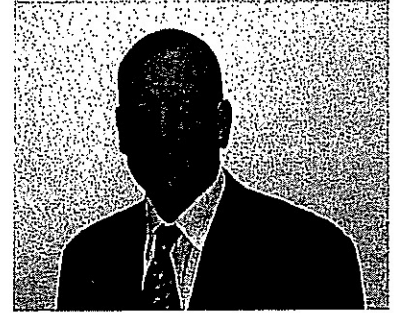
2013-2015



DESCRIPTION New 4,800 square foot public library with dynamic space for adult and children's collections, community programs, literacy computer area, a Director's office, an area for staff activities, and a kitchen for staff and community use. The structure was wood framed (wood stud bearing walls, slab on grade, pre-engineered wood trusses).



Kenneth A. Hipsky, P.E., LEED AP



Mr. Hipsky has over thirty (30) years of experience in building systems design and construction administration in both the plan/spec and design/build delivery methods. Over his career, projects that he has been involved in vary between public safety, multi-family housing, primary and secondary education, industrial and federal, state and local government. His attention to detail and innovative designs have led to long-standing client relationships in both the public and private sectors. With LEED accreditation and a focus on sustainability and green building solutions, Mr. Hipsky designs mechanical systems with energy conservation and his Client's bottom line in mind.

EDUCATION:

University of Connecticut
Bachelor of Science cum laude
Mechanical Engineering – 1990

LICENSE:

Professional Engineer:

Connecticut
Minnesota
New York
Virginia
Maine
Florida
Texas
Massachusetts
Vermont
Illinois
New Jersey
New Hampshire
District of Columbia
Hawaii
Michigan
Maryland

REPRESENTATIVE PROJECTS:

Saratoga Public Safety Facility
Thompsonville Fire District #2
Norwalk Fire Headquarters
Wilmington Fire Station
Orangeburg Fire Station
North Stonington Schools
Meeting House Hill Elementary School
Unmanned Aerial Vehicle Storage and Maint. Facility
Stewart Newburgh AFRC
Electric Boat Non-Metallics Lab
Charles River Laboratories Avian Facilities
Northfield Fire Station
Essex Fire Station
Mansfield Fire Station
Somers Fire Station
West Hartford Fire Station #3
Bethany Fire Station
Comstock Community Center
Groton Public Library
Naugatuck Housing Authority
Stamford Fire Kitchens
Hammonasset Nature Center
Enfield Housing Authority
Stamford Housing Authority
Hamden Housing Authority
Groton Police Station
Veterans Memorial Park Pool House
East Providence Fire Station

Essex Fire Station – Essex, CT

Design of a new 12,000 ft² fire station.

Mansfield Fire Station – Mansfield, CT

Design of a new 4,800 ft² apparatus bay addition and full renovation of the existing 4,800 ft² apparatus bay into administration and bunk spaces.

Weatogue Fire Station – Simsbury, CT

Design of a new 6,500 ft² fire station.

Somers Fire Station – Somers, CT

Design of a new 15,000 ft² fire station.

Bridgeport Senior Center – Bridgeport, CT

Adaptive reuse and renovation of a 5,000 ft² historic fire station into a new senior center.



George F. Lape

Fire Protection Engineer

For nearly 40 years, George has served as a fire protection engineer focused on project planning, estimating, design layout, engineering and specifying for water-based fire protection systems including water supplies, pumps and water storage. He is also well-versed in hydraulic and hazard classification and extremely knowledgeable about clean agent and restaurant hood suppression systems. George has been lending his expertise to RZ Design Associates since 2010.

Education

Rochester Institute of Technology, B.S.M.E. - 1981

Professional Affiliations

National Fire Protection Association - NFPA

Representative Projects

Connecticut Valley Hemp, Sterling, CT

Saratoga Public Safety Complex, Ballston Spa, NY

ESPN, Bristol, CT (Various Projects)

Rocky Hill Senior/Community Center, CT

CVS Pharmacy (Various Locations)

Newtown Police Department, CT

Supreme, Manhattan, NY

7-Eleven and BK, Chicopee, MA

J.R. Payden Field House, Derby, CT

Dollar General, Southington, CT

Philip R. Smith School, South Windsor, CT

Eli Terry Elementary School, South Windsor, CT

Hartford Steam Boiler, CT

Dr. Oran A. Moser School, Rocky Hill

540 New Park Ave., West Hartford, CT

ASICS 5th Ave. Flagship Store, Manhattan, NY

District #12, Washington Depot, CT

New Britain Central Kitchen, CT

Lululemon, Boston, MA

Windsor Police Department, CT

Fairfield University Health & Wellness, CT

Dept. of Public Works, Rye Brook, NY

Choate Rosemary Hall (Various Projects)

iHealth, Enfield, CT

Eli Lilly, Enfield, CT

Oxford Performance Materials, South Windsor, CT

Conning, Hartford, CT

Long Hill Fire Co., Trumbull, CT

KIM WEED

SENIOR ESTIMATOR

BACKGROUND

Ms. Weed has over 20 years of experience in the construction field. She is a team player adept at balancing client expectations against company resources to ensure complete satisfaction. She has a strong technical background, a comprehensive understanding of problem solving, cost estimating, change orders, project management, specifying and procuring.

RELEVANT EXPERIENCE

FEMA LIPA Mitigation, New York State:

The scope of this project includes the planning, preliminary and detailed engineering work associated with inspecting and proposing mitigation recommendations to increase the storm resistance of the most at-risk sections of up to 1,600 miles of distribution mainline facilities.

MSKCC/CUNY Project, New York, NY:

The MSK Facility will be a new ambulatory care center; the CUNY facility will be a Hunter College Science and Health Professions Building. The project will have a combined gross square footage of 1,100,000SF, including below grade and mechanical space.

SUNY New Paltz, New Paltz, NY:

Project consists of four different buildings on the SUNY New Paltz Campus: Coykendall Science Building, Haggerty Administration Building, Jacobsen Hall, and Student Union. Provided the conceptual estimate for vestibule replacement and/or renovation work such as site/pavers, foundations, storefront/curtain walls, roofing, interior and MEP modifications related to vestibules.

SUNY New Paltz Samuel Dorsky Museum, New Paltz, NY:

Located inside the campus of SUNY New Paltz, this 9,000SF art museum houses more than 5,500 works from around the world in its six galleries. Provided cost estimating for this HVAC and Electrical renovation project in the basement, mezzanine and roof of the Museum.

2455 South Road, Poughkeepsie, NY:

Provided feasibility review and estimating for the renovation and fit-out of a office building to accommodate OPWDD units including Administrative, Business Office, Clinics, Dental & Labs, EAP, Human Resources, Investigations, HIM Records, Quality Improvement, WTM, Adaptive Equipment, ITS, Union Offices, State Operations, Regional Office, Revenue Support Field Office and Training.

SUNY Stony Brook Hospital MART, Stony Brook, NY:

Provided change order management and estimating services for the core and shell construction and fit out of two 10-story buildings.

Bronx Family Criminal Courthouse, Bronx, NY:

Provided change orders, estimating, and value engineering services for the renovation of several floors of the courthouse. The building remained operational during the renovation.

EDUCATION

Diploma, Engineering Drafting Technology, Maryland Drafting Institute, MD
BS, Athletic Training, Keene State College Keene, NH

PROFESSIONAL RESUME

Anthony K. Ward, President

AKW Consulting, Inc.

30 JAY STREET, SCHENECTADY, NY 12305

Phone: 365-8822

Email: TWARD@AKWCONSULT.COM

EMERGENCY SERVICES:

2018 – 2020

SARATOGA COUNTY PUBLIC SAFETY FACILITY

Provide Construction Administration Services for Saratoga County, overseeing new 62,000 SF Public Safety Facility with a contract amount of \$28M. Departments include: Administration / Emergency Preparedness Coordination / County Sheriff / Probation Dept / Community Outreach / Environmental.

SCHENECTADY FIRE STATION #3 RENOVATIONS:

Provide CA services for \$1M life / safety upgrades to Schenectady Fire Department Station #3 located on Third Ave. Project scheduled for 2020 Completion. This is a phased project with the fire station remaining active in the building during construction.

2011

NISKAYUNA FIRE DISTRICT NO. 1:

Construction Administration services for \$3.5M additions and renovations to the existing Fire House. Project completion May 2011.

2003

FORT HUNTER FIRE HOUSE:

Construction Administration services on new 21,500 SF Fort Hunter Fire House on Carman Road in Schenectady. In 2003 provided pre-construction services: construction advice and cost estimating to check budgets. Construction on the new \$3M facility began Spring 2004.

2002

WESTERN TUNPIKE RESCUE SQUAD:

Construction Administration services for two new Ambulance / Rescue Squad Facilities in Guilderland, N.Y. The main station is 16,000 SF and the auxiliary facility is 5,000 SF.

SCHENECTADY COUNTY, NY:

2008 – 2020

SUNY SCHENECTADY COMMUNITY COLLEGE

Begley Hall Library Renovations: Construction Administration services for \$10M renovation project to the existing 30K SF Library in Begley Hall. Extensive interior and exterior renovations including MEP and technology upgrades, a new Learning Commons, Circulation, Book Stacks, Offices and Bathrooms. Completed August 2019.

SCCC Culinary Arts School Wood Fired Oven: Provided Construction Management services to the Culinary Arts School at SCCC for the design and building of a \$25K exterior masonry wood burning pizza & bread oven, to be used by the Culinary School for classroom instruction. Completed October 2016.

SCCC Kindl Building Renovation Phase II: Construction Admin for 3,500 SF gut and renovation of the main floor of the County-owned Kindl Building. located at 201 State St, Schenectady. Fit-out includes new classrooms, offices, a 3 stop elevator, and new electrical, HVAC & plumbing systems at a cost of \$1.5M. Project completed October 2015.

SCCC Center for Science & Technology Lab Fit-Out: Construction Admin Services for \$300K fit out of a new Nanotech Laboratory at SCCC's Center for Science & Technology. Project completed June 2014.

PROFESSIONAL RESUME

Anthony K. Ward, President

AKW Consulting, Inc.

30 JAY STREET, SCHENECTADY, NY 12305

Phone: 365-8822

Email: TWARD@AKWCONSULT.COM

Rooms. Facility will be the future home of capital region BOCES theatrical tech program and for Proctors programs during the summer months. Construction Budget of \$2M. Project began October 2016 and scheduled to open November 2017.

Universal Preservation Hall: Pre-Construction (2013-2016 Includes plan / program review and established budget estimates). CM services for \$10M historic renovations to an 1871 Methodist church located at 25 Washington Ave. in Saratoga Springs, N.Y. Provided CM services to Bid, Contract and manage construction.

2014 – 2015

Plaster Restoration Project: Phase 4 of a complete restoration of the historical theatre's decorative interior finishes, including: plaster walls/ceilings, medallions, trims, seating boxes and the front face of the balcony. Work includes \$750K restoration / replacement of main field & ornamental plaster, refurbishing scagliola, cleaning & repair of marble surfaces, re-painting and "Dutch leaf" application. Additional work included resurfacing and restoration of six existing bars plus the candy counter and hearing impaired station.

Apostrophe Café Renovations: Managed the overhaul of Proctor's 'Apostrophe' Café during Summer 2015. Project complete on time & within budget for start of 2015-2016 show season.

2013 – 2014

Marquee Restoration: CM Services for refurbishing three existing marquees on Proctors Historic Theatre. Scope includes five new state of the art digital signs and restoration of the two main theatre marquees as well as restoration work at the State Street Arcade entry. \$250,000. Work completed September 2015.

2009 – 2010

Expansion of Key Hall: Providing ongoing Construction Management services for \$300K renovation of the former Key Bank into Proctor's new banquet and meeting facility.

TAB 3



► References

H2M's References

H2M has a strong record of performance on projects involving Emergency Operations Centers (EOCs) and Public Safety Answering Points (PSAPs). We encourage you to contact the references below to verify our successful track record. Detailed project descriptions can be found in Tab 2.

► Saratoga County Public Works

Richard Castle, Undersheriff
6010 County Farm Road, Ballston Spa, NY 12020
(518) 885-2497

► City of Norwalk, CT

Denis McCarthy, Past Fire Chief of Norwalk, Current Fire Chief of Fairfield, CT
140 Reef Road, Fairfield, CT 06824
(203) 854-0232

► City of Lethbridge, AB

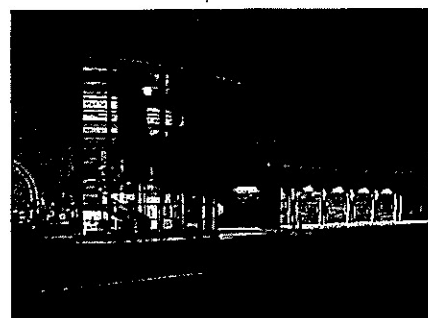
Richard Hildebrand, Fire Chief
City Hall 910, 4th Ave South, Lethbridge, AB T1J0P6
(403) 393-8006



Saratoga County Public Works

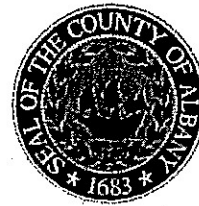


City of Norwalk, CT



City of Lethbridge, AB

TAB 4



County of Albany
Request for Proposal – RFP 2020-098
Albany County Sheriff
E-911 Emergency Management Facility
September 11, 2020



The Albany office of H2M architects + engineers, believes the County of Albany and its Sheriff's Department deserve the most qualified Architect for your new, strategically sited project. Our team represents the very best in Client value, nationally recognized, innovative leadership in PSAP and EOC design experience, direct senior partner involvement and commitment to your issues. We propose a focused scope of services to program, design, and create a new Emergency Management Facility (EMF).

H2M has designed, built and assessed well over 300 emergency response facilities including 911 call centers (PSAP), EOC's, Emergency Management Facilities, and Public Safety. This real-world experience and specific expertise include each of the major tasks set forth in the RFP. We will create value and incorporate state-of-the-art thinking and recommendations for the County and Sheriff. David J. Pacheco, an H2M VP and senior designer, was appointed to the ASTM Homeland Security Committee-Emergency Operations Center (EOC) Standards Committee. Dennis A. Ross, Director of the Emergency Service Market, is currently sitting on the NFPA Technical Committee on Emergency Responder Occupational Health where Mr. Ross is the only Architect on the National Committee. Both will bring their considerable expertise and experiences on these committees to bear on your project.

The EMF will need to integrate with the current sheriff's facility on the site. H2M is well-versed in handling these types of challenges and believe that these challenges are not a problem, but rather an opportunity for creative solutions. We believe that a free-standing and connected, properly placed EMF can take advantage of the site, not interfere or interrupt services in the current facility, save time during both design and construction and ultimately save cost for the County.

Project Services

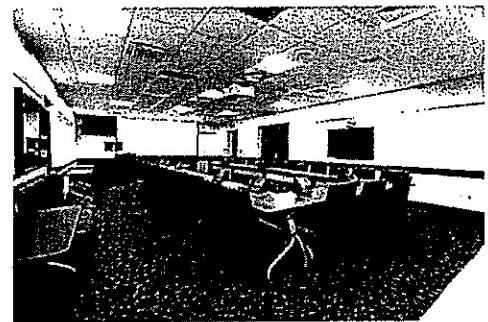
Project Scope – Our team will meet with project stakeholders to discuss the scope, Owner expectations, end user expectations, timeline and process for the project.

- o We will discuss critical issues of how to effectively utilize any past work product, the design, program, site, codes and standards, current industry trends and end user health and well-being.
- o During this initial meeting, we will address issues of security, comfort and alertness, sustainability, resiliency, redundancy, communication protocols and your goals for the project.
- o We will address **how to best achieve your visions, goals and budget for the project.**



Codes, Requirements and Regulations – We will assess the relevant codes, regulatory requirements and operation guidelines for the EMF.

- Mr. Ross will draw on his current experience with the NFPA and his National Presentation on Covid-19 and building design to address staff wellbeing, health and the effects of both the current pandemic and possibility for cross-contamination from Sheriff's activities in the field.
- Utilize the NYS Building Code (2020 IBC), National Fire Protection Association (NFPA), and Americans with Disabilities Act (ADA) included in the ICC/ANSI A117.1-2003.
- We incorporate the recommendations of NFPA 1221 in our EOC and PSAP designs. These include recommendations for redundancy, resiliency and security.
- We follow applicable guidelines of ASTM E2668-10 Standard Guide for Emergency Operations Center (EOC).
- H2M will evaluate recommendations from FEMA P 361 or ICC 500 that may benefit the facility.
- We will consider other applicable standards for the building such as OSHA requirements and site regulations such as FEMA, EMAP or SEMO.
- We will follow NFPA 13 for the building sprinkler design and Dept. of Health for a septic system.
- Our Team will lead the NYS SEQRA process, prepare the long form, write the Negative Declaration and coordinate with the County as Lead Agency.
- A SWPPP program will be outlined for the site as we assume disturbance will exceed 1 acre.
- The International Building Code (IBC) has defined EMF's as "**Essential Facilities.**" These buildings are designed, built and observed during construction to a high standard.
- If the County enforces its regulatory requirements such as Planning, Zoning, Site Plan approval or other local requirements, our Team can propose additional services as needed.



Energy Efficiency and Sustainability – We look to achieve sustainability and energy efficiency throughout the course of your project. Our buildings embrace energy efficiency through common sense design and construction techniques.

- One example may be to evaluate LEED and net-zero strategies, systems and designs. We will look closely at the cost-benefit, comfort, feasibility and value for the County.
- We can evaluate various wall, ceiling and floor coverings and discuss the pros-cons, sustainability, maintenance and cost-effectiveness of these various surface materials.
- We incorporate daylighting (that meets NFPA 1221) into the building, yet still protects the PSAP from distraction or bright spots while maintaining security.
- Other systems may include high-efficiency HVAC systems with economizers, smart thermostats, and low-flow plumbing fixtures.
- Adhesives, paints and coatings are examples of no VOC (volatile organic content) materials.
- High levels of insulation and envelope tightness are standard design techniques.
- We will evaluate the effectiveness of recycled content in flooring, ceilings and other materials where appropriate.

Conceptual Layout – We will generate conceptual block diagram layouts based on the Program and Space Analysis. We will:

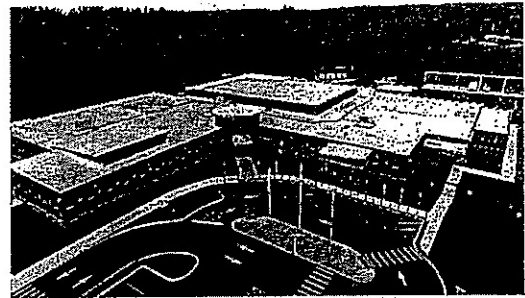
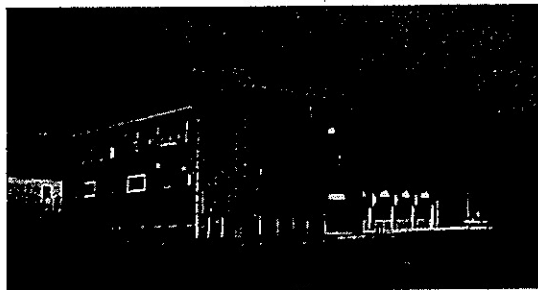
- Address the existing building, its proximity and how it may affect the EMF location and design.
- Design for the building footprint, site constraints, security, parking, hardening and safety.
- Recommend site needs and improvements that affect the facility such as additional septic or utilities.

Meetings and Presentations – Our team will meet with you to program, review the existing facility, examine the site and discuss designs and budgets.

- We lead meetings and will and will present to the Sheriff and end-users.
- H2M can set up and run virtual meetings as required for health and safety.

Deliverables

- **Project Scope** – Initial stakeholders meeting
- **Program** – Validate and revise as needed Owner's existing Program to create an up-to-date detailed operations-based program explaining needs and requirements
- **Space Analysis** – Spreadsheet of square footage that summarizes the Program
- **Conceptual Budget** – The probable cost/sq. ft. for new construction based on the Space Analysis
- **Site Evaluation** – Evaluation process to review pro and cons and critical issues
- **Survey Coordination** – Thorough checklist with Team coordination
- **Geotechnical Coordination** – Thorough checklist with Team coordination
- **SEQRA** – Develop long form SEQRA, initiate the Neg. Dec. (Assume the County will be Lead Agent)
- **Codes** – Review relevant codes, regulations, health and safety needs and ADA requirements
- **Energy Efficiency/Sustainability** – Common sense, off-the-shelf materials, systems and design
- **Concept Site Layout** – Block diagram site layout
- **Concept Plan Layout** – Block diagram floor plan layout
- **Schematic Design** – Site plan, floor plan and elevation design that depicts aesthetics, and County needs – 3-D massing image of the design
- **Budget** – Third-party professional estimate of the construction hard costs
- **Soft Cost Budget Assistance** – Other project costs developed in conjunction with the County
- **Value Consulting** – Systematic procedure to seek quality
- **Meetings** – In-person or virtual meetings as required to facilitate the project

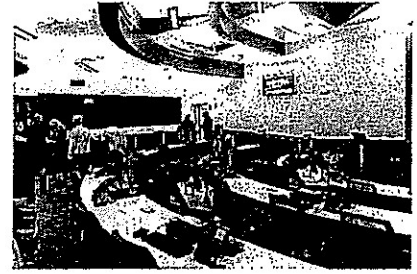
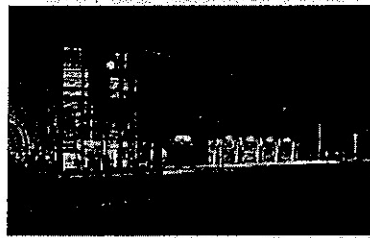
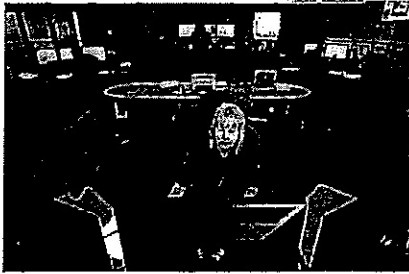


Ongoing Approach and Workplan

Design Development – Based on the schematic design, budget and work product to date, we undertake the tasks of further defining the systems, materials and budget.

- Mechanical, electrical, plumbing, fire protection, security and integration with County vendors will be programmed with the County.
- A Project Manager along with senior level MEP Engineers will lead the MEP Programming which includes security such as door fobs, cameras and PSAP software requirements.
- This scope identifies critical and functional issues of HVAC controls, lighting, electrical service, generator, redundancy, security, healthy working environment, plumbing fixtures, water use, etc.
- Should a septic system be required, the design and submission to the Dept. of Health will commence.
- The technology, security and critical functions of the PSAP and EOC will be programmed.
- Structural systems incorporating resiliency, hardening and security will be examined.
- Building Information Management (BIM) is started in earnest with the consultants. BIM will help to assure the County that systems work in concert and interferences are kept to a minimum.
- Further review of details and materials research will continue. Site plan approvals will address changes to footprint, parking or drives and revisions to stormwater drainage or exterior lighting.

- Carefully coordinate the electrical, security and special equipment installation as they progress.
- Help the County coordinate the live cutover for the PSAP.
- Attend site meetings and be available throughout the construction period with additional site visits when needed. Prepare construction reports based on each site visit.
- Create and maintain project records, correspondence, answer RFI's in a timely manner and conduct regular communications with the entire project team.
- Prepare additional information when needed to coordinate with the County.
- Review contractor's requests for payment and verify the amount of work accomplished, materials stored, and retainage before authorizing payment.
- Evaluate submittals, samples of materials and systems to determine their conformance with plan and specification requirements.
- Evaluate and research proposed change orders. We examine cost effectiveness, value and the impact on the project for the proposed change.
- Evaluate test results such as soil compaction, concrete strength, etc. Provide technical expertise and advice in the event of sub-standard test results or unexpected conditions.
- Advise and coordinate with the County for the "special inspections" required by the IBC for Essential Services Facilities.
- Affirm Substantial and Final Completion and assist with project closeout procedures, including review of operating manuals, warranties and final paperwork.
- Receive and review closeout documents such as consent of surety, final affidavits and similar indemnifications.
- Conduct a thorough punch list walk-through with the consultants.
- The Commissioning agent, the same company that performed the work on the SPSF, will perform commissioning on all the major systems.
- Conduct a one-year warranty walk-through with the Owner to identify issues and warranty items.
- Maintain ongoing communication with the County while the Sheriff's Department, Emergency Management and end users settle in and adapt to their new facility.
- Should the County elect to work with a CM, all our services will remain as stated. We will coordinate and work closely with AKW on all Bidding and Construction phase services.



Quality Response Deserves Quality Design™

TAB 5