



Architect of Record: Manns Woodward Studios



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Qualifications for

City of Fort Lauderdale Design Services for Emergency Operations Center

RFQ Event No. 536

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City of Fort Lauderdale
Design Services for
Emergency Operations Center
RFQ Event No. 536



01.28.2026

Contact

David J. Pacheco, AIA
Senior Vice President,
Director of Operations

H2M Architects & Engineers, Inc.
951 Yamato Road, Suite 202
Boca Raton, FL 33431



866.970.6535 ext. 2031



dpacheco@h2m.com

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architects + engineers

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January 28, 2026

City of Fort Lauderdale, Procurement Services Division
Attn: Michelle Lemire, Procurement Administrator
101 NE 3rd Avenue, Suite 1650
Fort Lauderdale, FL 33301

**RE: Qualifications for City of Fort Lauderdale Design Services for
Emergency Operations Center | RFQ Event No. 536**

Dear Ms. Lemire:

The City of Fort Lauderdale's commitment to public safety and operational resilience is evident in its pursuit of a state-of-the-art Emergency Operations Center (EOC). This project encompasses the comprehensive design of a standalone, disaster-resistant safe room and back-up power system, ensuring City emergency personnel can operate without interruption during severe weather events or during other emergencies. We recognize that the scope of Phase I will include site surveying, engineering analyses, permitting, design, and the integration of advanced life-safety and hazard mitigation features, in compliance with FEMA P-361, ICC 500, and other applicable standards. **H2M Architects & Engineers, Inc. (H2M)** is prepared to deliver a design solution that meets these critical requirements and supports the City's long-term vision for community protection. Why should the City trust this important project to our team?

- ***Strong Understanding of EOCs:*** Based on our extensive mission-critical experience and back up power nationwide, we believe our team is eminently qualified to be a trusted partner for the design and construction of the City's EOC. The nature of response has evolved significantly in the last decade, and municipalities must continually innovate, think proactively, and do more with less while strategically balancing resources and provided services. We know of no other East Coast Architect that has more public safety, EOC, fire, police, and EMS projects built and under construction than H2M in the last 10 years. Notably, H2M led the design of a 64,000 square foot Saratoga County Public Safety EOC/911 Facility, as well as a new EOC and Public Safety Answering Point (PSAP) for Albany County, NY. We are currently designing a Regional EOC and training Center for Scranton, PA. To enhance our experience, our team includes Manns Woodward Studios, as our mission-critical specialist. The firm's recent projects include the Anne Arundel County EOC/911 Call Center, Harford County EOC, and Chester County 911 Call Center.
- ***Significant Generator Design Expertise:*** H2M brings extensive expertise in generator system design for mission-critical facilities, including EOCs, PSAPs, fire stations, law enforcement, and other public safety infrastructure. Our team has successfully designed and specified backup and redundant power solutions ranging from diesel, propane and natural gas generators to advanced automatic transfer switch systems, wind-rated enclosures, and integrated fuel storage. We are adept at tailoring generator capacity and configuration to meet stringent operational requirements, such as FEMA P-361 for funding compliance and continuity-of-operations standards. H2M is currently working with the Town of Davie, FL Police Department on the design of a replacement back-up generator above the design flood elevation **funded by the FEMA Hazard Mitigation Grant Program.**

- **Working Relationship with the City of Fort Lauderdale:** H2M's relationship with the City is built on a foundation of trust, collaboration, and proven performance. Our team recently partnered with the City to prepare design criteria packages for Fire Stations 13 and 88, a process that deepened our understanding of the City's operational standards, project delivery expectations, and commitment to resilient public safety infrastructure. Through this engagement, H2M became intimately familiar with the City's review procedures, permitting requirements, and stakeholder coordination protocols. This experience has equipped us with valuable insights into the City's priorities and has fostered strong working relationships with City staff.
- **FEMA Hazard Mitigation Program Experience:** H2M has extensive experience administering grants for public infrastructure projects, managing all aspects from initial application through compliance and closeout. Our team is well-versed in the requirements of federal, state, and local funding programs, including the FEMA Hazard Mitigation Program, helping to ensure that documentation, reporting, and regulatory obligations are met. H2M has a dedicated grant administrator to coordinate with clients and funding agencies, track project progress, and oversee contractor compliance with requirements such as MBE/WBE/SVDOB participation and federal wage standards.

I will work with the City as our team's proposed Project Manager. I offer more than 30 years of relevant experience, having studied and/or overseen the design of 200+ emergency response facilities. Additionally, I developed national standards that altered how EOC's are planned across the country and served as an ASTM homeland security technical sub-committee member. As a Senior Vice President at H2M, I have the full authority to marshal the nearly 600 multidisciplinary professionals at H2M to successfully execute this work. Our team includes many of the same key H2M personnel and subconsultants involved in our Design Criteria Packages project, including CES Consultants, Inc. (MBE), for site/civil engineering and permitting; Longitude Surveyors, LLC (MBE), for land surveying; TSFGeo (MBE), for geotechnical engineering. Long-time H2M education and design partner firm Manns Woodward will serve as our mission critical specialist; and YA Group will prepare third-party cost estimates.

We look forward to continuing our successful partnership with the City of Fort Lauderdale. Please feel free to contact me at (866) 970-6535 ext. 2031 or via email at dpacheco@h2m.com should you have any questions or require additional information. Thank you for your consideration.

Very truly yours,
H2M Architects & Engineers, Inc.



David J. Pacheco, AIA
Senior Vice President, Director of Operations

TAB 1



Why H2M?

The City of Fort Lauderdale seeks a resilient, state-of-the-art Emergency Operations Center (EOC) to ensure uninterrupted operations during severe weather events. H2M Architects & Engineers, Inc. (H2M), supported by our trusted specialty subconsultants, offers unmatched expertise in mission-critical facility design, generator systems, and FEMA compliance. Within this RFQ response, we detail why the H2M team is the best consultant to lead the City of Fort Lauderdale in this effort.

- Mission-Critical Expertise**
 H2M has led numerous public safety projects, including the 64,000 sq. ft. Saratoga County Public Safety Facility and Albany County PSAP. Manns Woodward Studios adds specialized EOC experience with projects for Anne Arundel, Harford, and Chester Counties.
- Generator Design Leadership**
 H2M has proven success in designing robust backup power systems for emergency facilities, including FEMA-compliant solutions for continuity of operations. Current work includes generator upgrades for the Town of Davie Police Department.
- Established Relationship with the City**
 Our recent collaboration on Fire Stations 13 and 88 design criteria packages provides deep familiarity with City standards, permitting, and stakeholder coordination. We are also proposing to utilize the same subconsultants on the H2M team for Stations 13 and 88.

- FEMA Hazard Mitigation Program Expertise**
 H2M brings extensive experience managing federally funded projects, including several programs funded through the FEMA Hazard Mitigation Program, ensuring compliance with documentation, reporting, and contractor requirements. We have a dedicated in-house grant coordinator that can be utilized as needed by the City.
- Leadership & Resources**
 David J. Pacheco, AIA, Senior Vice President, will serve as Project Manager, bringing 30+ years of experience and authority to mobilize H2M's 580+ multidisciplinary professionals. Key partners include CES Consultants (site/civil), Longitude Surveyors (land surveying), TSFGEO (geotechnical), Manns Woodward Studios (mission-critical design), and YA Group (cost estimating).

► Client Testimonial - South Florida Municipality

"H2M Architects and Engineers does an excellent job delivering the services required to help us meet our goals. Their professionalism, attention to detail, and commitment to supporting our priorities make them a strong and reliable partner."

-Municipality Senior Project Manager

TAB 2



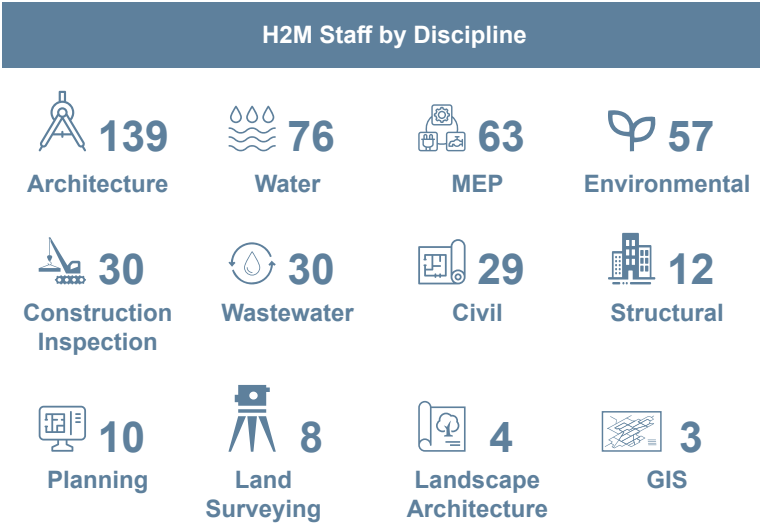
H2M was organized in 1933 and founded on the principles of professional excellence, hard work, and integrity.

Practical Approach. Creative Results.

H2M is a multi-disciplined professional consulting and design firm with a proud legacy of client service and a proven ability to tackle complex architectural, engineering, and environmental challenges. Since 1933, we have played a vital role in shaping local communities — designing and improving essential infrastructure such as water treatment plants, emergency response facilities, schools, roadways, public buildings, and more.

With decades of experience, we have built a reputation for delivering high-quality, client-focused solutions that balance innovation with practicality. Our approach is rooted in collaboration, technical excellence, and a deep understanding of the communities we serve. Whether navigating regulatory complexities, addressing evolving environmental concerns, or designing spaces that enhance everyday life, H2M remains committed to providing sound judgment, creative problem-solving, and exceptional service at every stage of a project.

H2M takes pride in the depth and diversity of our comprehensive in-house service capabilities. With a team of over 580 professionals — including architects, engineers, surveyors, scientists, planners, landscape architects, inspectors, and technical support specialists — we provide a fully integrated, multidisciplinary approach to our clients.



OPERATING PHILOSOPHY	
MISSION	Our People We commit to developing our people and rewarding hard work with growth opportunities in an inclusive professional environment.
	Our Clients We commit to being trusted advisors for our clients and delivering problem solving value and quality on every project.
	Our Communities We commit to creating thriving and healthy communities by giving of ourselves and developing sustainable solutions that benefit everyone.
VISION	We exist to improve the quality of life for everyone in our reach by empowering our diverse talent to sustainably solve the challenges of the built environment.
VALUES	We Stand as One H2M Inclusive. Supportive. Collaborative. No matter where you are.
	We Challenge One Another We show up curious and push boundaries.
	We Do the Right Thing Our character is built on doing what is right and ethical.
	We Work Safely We care for the lives of our people and their families.
	We Own it We hold ourselves accountable for team success and personal achievement.
	We Embrace Diversity We acknowledge and honor the fundamental value and dignity of all individuals.



Architecture

- Architectural design
- Comprehensive grant programs
- LEED design processes
- Interior design
- Removal of barriers to the handicapped
- Master plans and revisions
- Needs assessments
- Planning studies
- Building conditions surveys
- Restoration of historic structures
- Restaurant and kitchen design
- Zoning ordinance review
- Educational facilities design
- Assisted living facilities design

Civil/Site & Structural Engineering

- Roadway reconstruction and resurfacing
- Site plan design
- Street lighting
- Flood control and drainage
- Irrigation systems
- Sidewalks and curbs
- Storm drainage systems
- Water mains
- Local roadway study and design
- Subdivision design
- Streetscape design and improvements
- Parks, playgrounds, athletic fields
- Parking fields
- Highway planning studies
- Intersection design and improvements
- Visual impact analyses
- Geographic Information Systems (GIS)
- Green infrastructure design
- Structural conditions assessments
- Structural building design
- Structural renovations/alterations
- Cause and origin investigations
- Retaining walls, bulkhead, and culvert design
- Storm hardening/resiliency
- Expert testimony

Construction Phase Services

- Construction management/administration
- Resident engineering
- Construction inspection (F/T or P/T)
- Daily/weekly/monthly project reporting
- Utility coordination
- Weekly job progress meetings/minutes
- Schedule review
- Change order processing
- Payment requisition processing
- Project startup
- Commissioning
- Prepare punch list
- Project closeout
- Record drawings

Environmental Engineering & Sciences

- Air and water pollution control
- Hazardous waste management
- Hazardous materials storage design
- Waste minimization
- Environmental Impact Statements (EISs)
- Wetland delineation
- Environmental Site Assessments (ESAs)
- Environmental compliance audits
- Environmental permitting
- Site investigations
- Brownfield assessments

- Solid waste management facility design
- Solid waste facility operational assessments
- Waste and materials quantification and characterization analysis
- NYSDEC Part 360 regulatory compliance and permitting
- Remedial investigations/feasibility studies
- Risk assessments
- Above and underground tank management
- Soil and groundwater remediation
- Soil vapor intrusion studies
- Regulatory compliance programs
- Industrial hygiene
- Indoor air quality
- CM/LBP/mold inspections and abatement
- Computer modeling
- Asbestos investigation and removal
- Geographic Information Systems (GIS)

Land Surveying

- Boundary and title surveys
- Topographical surveys
- Horizontal and vertical control surveys
- Hydrographic surveys
- Route surveys
- Subdivision planning
- Sanitary and drainage study maps
- Legal descriptions
- Construction layout services
- As-built surveys
- Architectural surveys
- Structural surveys
- Under-construction inspection surveys
- Easement survey and description

Landscape Architecture

- Tree inventory and assessment
- Tree mitigation
- Landscape design and restoration
- Conceptual site design
- Landscape planning
- Illustrative renderings
- Landscape architectural detailing
- Streetscape and urban design
- Parks and playgrounds design
- Campus landscape design
- Private estate and residential design
- Planting design
- Wetlands mitigation
- Green infrastructure

MEP Engineering

- Electrical systems design
- Feasibility and implementation studies
- Power supply
- Exterior and interior building services
- Closed-circuit television security systems
- Emergency power generation
- Site/systems and load evaluations
- Energy studies
- Site lighting design
- Fire and security systems
- SCADA systems
- Utility company rebates and incentives
- HVAC systems design
- Heat and cooling load analysis
- Steam systems
- Hydronics
- Heat recovery systems
- Chillers and cooling towers
- Laboratory ventilation systems
- Site/systems evaluations

- Feasibility/implementation studies
- Energy conservation
- Cost/benefit analysis
- Commissioning/testing

Planning

- Comprehensive master planning
- Parks, open space and recreation planning
- Environmental and natural resource planning
- SEQRA and EIS documentation and process support
- Community visioning
- Zoning ordinances and analysis
- Redevelopment studies and plans
- Geographic Information Systems (GIS)
- Urban design
- Strategic solid waste management planning
- Stormwater management program planning
- FEMA hazard mitigation and resilience planning
- Design guidelines
- Renderings
- Feasibility studies and conceptual plans
- Downtown revitalization
- Expert private testimony
- Municipal board representation

Wastewater Engineering

- Characterization/quantification of waste
- Treatment facility evaluation
- Scavenger waste facility design
- Outfalls and leaching systems design
- Chemical feed systems design
- Monitoring and control systems
- Nutrient removal treatment systems design
- Facility planning studies
- Wastewater treatment studies
- Wastewater treatment plant design
- Wastewater reuse design
- Standby power systems
- Sludge thickening, dewatering
- Sludge treatment, disposal
- Odor control
- UV and chemical disinfection systems
- Sewer system extension planning
- User cost analysis
- Sanitary sewer design
- Sewer rehabilitation studies and design
- Infiltration/Inflow evaluation
- Pump station evaluations and design
- Sewer flow modeling
- Security systems
- Geographic Information Systems (GIS)
- Discharge monitoring reports
- Plant performance monitoring
- Preparation of O&M manuals
- Facility start-up and operations
- Groundwater/effluent monitoring programs
- Operator training
- Industrial pretreatment programs
- Prepare/revise sewer use ordinance

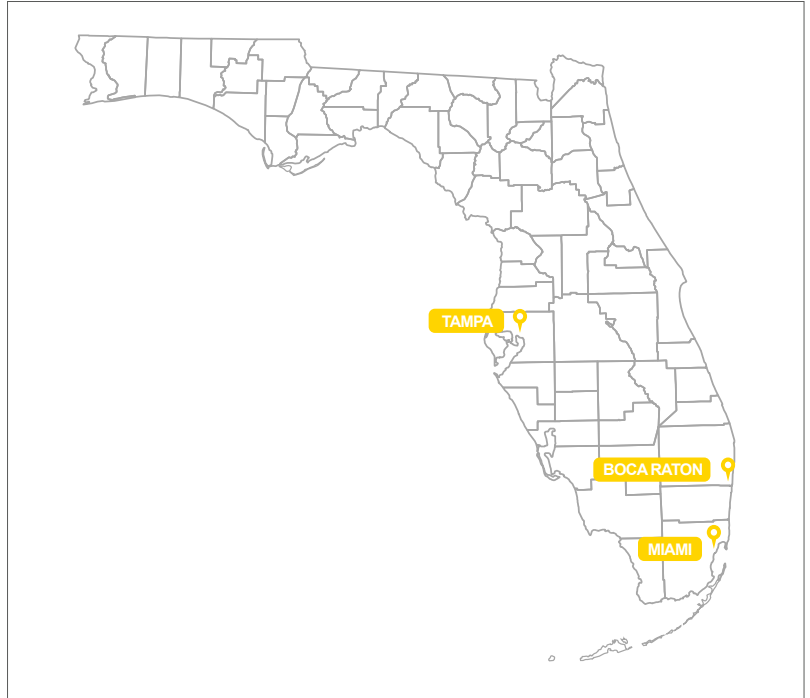
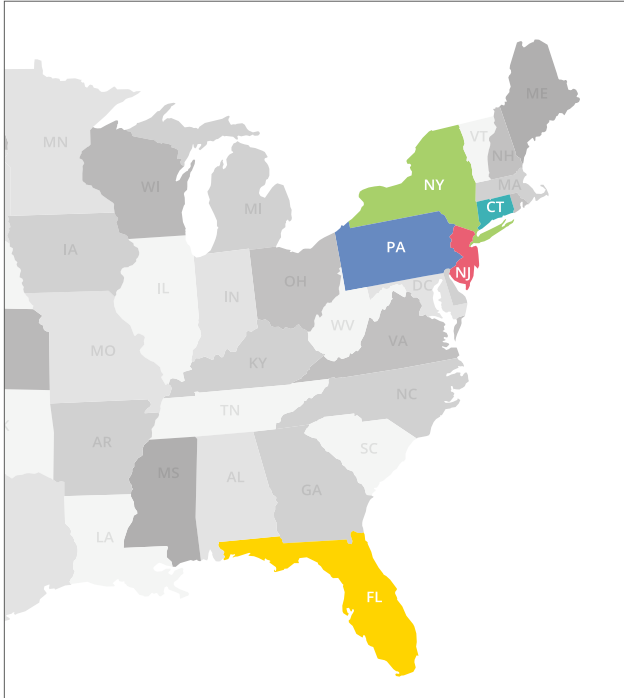
Water Engineering

- Supply well design
- Plant rehabilitation design
- Water treatment systems
- Water filtration systems design
- VOC removal treatment systems design
- Distribution system analysis and design
- Distribution hydraulic modeling
- Automated mapping/facilities mapping
- Storage tank rehabilitation/repainting
- Storage tank design
- Tank and coatings inspection
- Instrumentation and computer control designs
- Comprehensive groundwater modeling
- Geographic Information Systems (GIS)
- Aquatics and park design
- Public swimming pool design
- O&M programs
- Training programs
- Asset management



H2M Office Locations | Florida Offices

Distance from our Boca Raton office to
the City of Fort Lauderdale EOC



-  538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
-  230 West 38th Street, 14th Floor
New York, NY 10018
-  737 Roanoke Avenue
Riverhead, NY 11701
-  2 Executive Boulevard, Suite 401
Suffern, NY 10901
-  1133 Westchester Avenue, Suite N-210
White Plains, NY 10605

-  433 River Street, Suite 8002
Troy, NY 12180
-  119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
-  4810 Belmar Boulevard
Wall Township, NJ 07753
-  360 Bloomfield Avenue, Suite 406
Windsor, CT 06095

-  951 Yamato Road, Suite 202
Boca Raton, FL 33431
-  100 S. Ashley Drive
Tampa, FL 33602
-  333 SE 2nd Avenue
Miami, FL 33131
-  301 Grant Street, Suite 270
Pittsburgh, PA 15219

"H2M" refers to H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, D.P.C. and/or its subsidiary H2M Associates, Inc., and/or its affiliate H2M Architects & Engineers, Inc., as appropriate to the context. Each company's professional resources are available to the others to the maximum extent permitted by applicable state laws. H2M will not practice, and should not be interpreted to be offering to practice, any professional service for which it and its cognizant employees are not properly licensed.

H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, DPC (dba: H2M architects + engineers) is a NYS Design Professional Corporation. It maintains New York Certificates of Authorization to provide professional architecture, engineering, geology, land surveying, and landscape architecture services.

H2M Associates, Inc. is a New Jersey business corporation. It is a wholly owned subsidiary of the parent company. It maintains New Jersey Certificates of Authorization to provide professional engineering, land surveying, and landscape architecture services.

H2M Architects & Engineers, Inc. is a New Jersey business corporation. It is an affiliate of the parent company, being under the ownership and control of a group of appropriately licensed officers of the parent company. It maintains New Jersey Certificates of Authorization to provide architecture and professional engineering services. It is also appropriately structured to maintain certificates of authority to provide architecture and professional engineering services in Connecticut, Delaware, Florida, Louisiana, Massachusetts, Pennsylvania, Rhode Island, and Virginia.



Core of Excellence

The Core of Excellence is an H2M exclusive initiative that sets us apart from the competition with a focus on excellence and quality as a core element of our services. It's a firm-wide commitment to deliver excellence through innovative and best-in-class service to our clients, colleagues, and ourselves. H2M's Core of Excellence is comprised of four key components:



QA/QC

We demonstrate our commitment to ensuring quality at the corporate level through our appointment of a full-time Director of Corporate QA/QC to lead the development, implementation, and oversight of H2M's Quality Management System (QMS). This commitment is further reinforced by established quality assurance team members who, independent of the project design team, assure that H2M's components of quality are incorporated. H2M's QMS is comprised of a combination of processes, tools and resources available to all H2M staff. These include Quality Control Checklists, established QA/QC communication channels, and templates all made accessible thorough H2M's comprehensive Project Management Framework.



SCHEDULING

We recognize the importance of timely project delivery and take great pride in our ability to quickly mobilize, assign staff, and complete projects on time. H2M developed a custom scheduling interface allowing for consistent data inputs from the entire firm on a bi-weekly basis. This is transitioning to a centralized scheduling database that allows real-time total team scheduling updates and awareness, allowing H2M to actively adapt our resources to meet the needs of even the most demanding project schedules. We can share detailed , easy to read graphic schedules with our clients, allowing them to always have their finger on the pulse of their project's timeline.



SPECIFICATIONS

Our focus and commitment to excellence and quality is further reflected in our Master CSI-based Specifications Library. A dedicated, full-time Specifications Manager oversees the continual development, standardization, and maintenance of our Master Specifications. H2M utilizes a cloud-based specification software platform that allows all users direct access to our Master Specifications Library to develop project-specific spec books. This process ensures that our project specifications include the latest updates in product data and reference standards.



BIM/CAD

Building Information Modeling (BIM) has revolutionized the A/E/C industry. By using intelligent 3-D digital models to generate our designs, H2M can achieve a higher level of quality, consistency, and efficiency in our production process, minimizing the potential for change orders during construction. We employ a full-time, dedicated, and independent team comprised of design professionals and BIM-CAD specialists whose primary responsibilities are to create, deploy, and maintain company-wide standards, templates, procedures, and workflows. Our adoption of BIM has been the single most important change in how we design and manage our projects.



SAFETY

Safety is essential at H2M. We employ a dedicated corporate health and safety manager within the Core of Excellence. H2M has established mandatory safety training and is actively implementing the Plan-Do-Check-Act methodology. By incorporating safety into our overall quality management systems, we ensure that all of our staff can get home safely each day and that we proactively respond to our clients' health and safety requirements.



CLIENT BENEFITS

- ★ Well-coordinated construction documents that reduce project change orders and minimize cost overruns
- ★ Consistent quality and proven performance
- ★ Optimized resource allocation to meet project demands
- ★ Increased compliance with the latest industry and regulatory standards
- ★ Enhanced project visualization via 3D modeling
- ★ Improved collaboration among all project stakeholders



CENTRAL ISLIP FIRE DEPARTMENT NEW STATION 3

2025 F.I.E.R.O. Station Design Award
2025 Firehouse Station Design Award



CITY OF GREENFIELD NEW FIRE HEADQUARTERS

2025 F.I.E.R.O. Station Design Award
2025 ACEC NY Engineering Excellence Award



MASSAPEQUA PARK HOUSE

2024 F.I.E.R.O. Station Design Award



INCORPORATED VILLAGE OF MINEOLA NEW FIRE HEADQUARTERS

2023 F.I.E.R.O. Station Design Award



WEST NATICK FIRE STATION #4

Architect of Record: Tecton Architects | Photo Credit: Nat Rea Photography

2024 AIA Eastern NY Design Award
2024 AIA Eastern NY Best of the Best
2024 AIA NY State Design Award
2023 AIA Long Island Sustainable Design Award
2023 Firehouse Magazine Station Design Award
2023 F.I.E.R.O. Station Design Award



PRINCETON FIRST AID AND RESCUE SQUAD

Photo Credit: Don Pearce Photographers

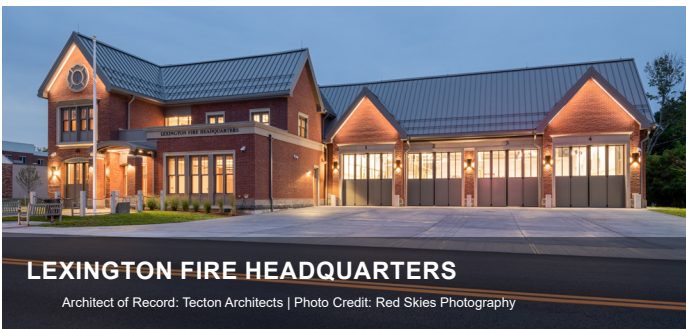
2023 NJ Alliance for Action Distinguished Engineering Award
2022 ACEC NJ Engineering Excellence Award
2022 AIA Eastern NY Design Award
2020 Associated Builders & Contractors of Eastern Pennsylvania Excellence in Construction Award
2020 Firehouse Magazine Station Design Award



2022 Firehouse Magazine Station Design Award



2018 Firehouse Magazine Station Design Award



2021 Firehouse Magazine Station Design Award

2021 F.I.E.R.O. Station Design Award



2019 Firehouse Magazine Station Design Award



2019 Firehouse Magazine Station Design Award

2019 ACEC NY Engineering Excellence Award



2016 F.I.E.R.O. Station Design Award

2016 F.I.E.R.O. People's Choice Award

2016 Connecticut Green Building Council Honor Award

2015 Firehouse Magazine Station Design Award

2014 Build Connecticut Construction



2021 ACEC NY Engineering Excellence Award

2020 ACEC NY Engineering Excellence Award

2020 Firehouse Magazine Station Design Award

2020 Law Enforcement Training Magazine Design Award



2024 Firehouse Magazine Station Design Award

2024 U.S. Department of Energy, National Nuclear Security Administration Excellence Award

Public Safety Clients

Albany County 911
Albertson H. & L.E. & H. Co. 1, Inc.
Apalachin Fire District
Atlantic Beach Fire District
Baldwin Fire District
Bayport Fire District
Bay Shore Fire District
Bedford Fire District
Bellmore Fire District
Bellmore-Merrick Volunteer Ambulance Company
Bethpage Fire District
Bohemia Fire District
Borough of Metuchen, NJ
Borough of Somerville, NJ
Brentwood Fire District
Brentwood Legion Ambulance Service
Brookhaven Fire District
Brunswick Fire Department, ME
Capitol View (Morrisville) Fire Company, PA
Carlisle Fire District #1, PA
Cardinal Joint Fire District, OH
Carmel Fire Department
Catskill Fire District
Center Moriches Fire District
Central Islip Fire District
Charlton Volunteer Fire Department
Church Hill Volunteer Fire Co., MD
City of Auburn Public Safety
City of Barre, VT
City of Beacon Fire Department
City of Calgary, AB
City of Dunkirk
City of Fort Lauderdale, FL
City of Greenfield, MA
City of Lethbridge, AB
City of Lincoln, NE
City of New Rochelle Fire Department
City of New York (FDNY)
City of Norwalk, CT
City of Poughkeepsie
City of Pueblo, CO
City of Jersey City Fire Department, NJ
City of Rensselaer Police
City of Schenectady
City of Scranton, PA
City of Stamford Fire Rescue, CT
City of Watervliet
City of Wolforth, TX
City of Worcester, MA
Clarks Summit Fire Company #1, Inc., PA
Cold Spring Harbor Fire District
Colmar Fire Company, PA
Conshohocken Fire Company #2, PA
Consolidated Nuclear Security (Y-12), TN
County of Fairfax, VA
County of Saratoga
Copague Fire District
Cortez Fire Protection District, CO
Dewitt Fire Department
East Greenbush Fire Company
East Islip Fire District
East Meadow Fire District
East Northport Fire District
East Syracuse Fire and State Police
Elmont Fire District
Elmwood Park Fire District
Exchange Ambulance of the Islips
Fairfax County, VA
Fair Harbor Fire District
Fayetteville Fire & EMS
Floral Park Fire Department
Fort Washington Fire Company, PA
Franklin Square & Munson Fire District
Fuller Road Fire Department

Garden City Park Fire District
Glenville Hill Fire District
Glenwood Fire Company
Good Will Fire Company #1, PA
Gordon Heights Fire District
Great Barrington Fire Department, MA
Greenlawn Fire District
Guilderland Fire District
Hagerman Fire District
Halfmoon-Waterford Fire District
Hamden Fire Department
Hampton Bays Fire District
Hauppauge Fire District
Henrico County, VA
Herman Volunteer Fire Company, PA
Hicksville Fire District
Horsham Township Battalions 1 & 2, PA
Huntington Community First Aid Squad
Huntington Fire District
Huntington Manor Fire District
Islip Fire District
Jackson County 911, MO
Jericho Fire District
Jonesville Fire District
Keene Fire District
Kings Park Fire District
Kingston Fire Department, PA
Kent Island Volunteer Fire Dept & EMS, MD
Lansing Fire District
Lehigh Fire Department, PA
Levittown Fire District
Long Lake Fire District
Manhasset-Lakeville Fire District
Manorville Community Ambulance
Manorville Fire District
Massapequa Fire District
Mastic Beach Ambulance Company
Mastic Fire District
Mastic Volunteer Ambulance
McKownville Fire District
Meadowmere Fire District
Melrose Fire District
Melville Fire District
Middle Island Fire District
Mill Creek Fire Company, DE
Millstone Township Fire Company, NJ
Monroe Township Fire District #1, NJ
Monroe Township Fire District #2, NJ
Monroe Township Fire District #3, NJ
Monroe EMS, NJ
Moon Township, PA
Mount Sinai Fire District
Municipality of Bethel Park, PA
Nashville/Davidson County, TN
New Hyde Park Fire District
New York Air National Guard
Niskayuna Fire District #1
North Amityville Fire Company
North Massapequa Fire District
North Merrick Fire District
North Sea Fire District
Oceanside Fire District
Ocean Grove Fire Department, NJ
Orient Fire District
Perth Amboy Fire Department, NJ
Plainview Volunteer Fire Department
Pleasantdale Fire Department
Pleasant Valley Fire District
Port Henry Fire Department
Port Washington Police District
Prince Georges County, MD
Princeton First Aid & Rescue Squad, NJ
Prince William County, VA
Ridge Fire District
Riverhead Volunteer Ambulance Corp.
Riverhead Fire District
River Oaks Fire & Rescue Squad Station 23, VA

Ronkonkoma Fire District
Roosevelt Fire District
Roslyn Highlands Hook & Ladder, Engine & Hose Fire Company
Roslyn Rescue Fire Company
Rotterdam Fire District
Saltaire Fire Department
Seaford Fire District
Setauket Fire Department
Silver Lake Fire District
Sound Beach Fire District
South Farmingdale Fire District
Speigletown Fire District
Suffolk County Department of Public Works
Suffolk County Sheriff's Department
Stanford Heights Fire District
Stillwater Fire District
Stony Brook Fire District
Thiells-Roseville Fire District
Thompsonville Fire District #2, CT
Tyngsborough MA Public Safety
Ticonderoga Fire District #1
Town of Auburn, MA Public Safety
Town of Avon, CT
Town of Becket Fire Department, MA
Town of Bellingham, MA
Town of Bloomfield, CT
Town of Brattleboro, VT Police
Town of Bristol Police, VT
Town of Brookhaven
Town of Charlton, MA Public Safety
Town of Chilmark Fire Department, MA
Town of Davie, FL
Town of East Lexington, MA
Town of East Windsor, CT
Town of Hudson Fire Department, NH
Town of Lexington, MA
Town of Natick, MA
Town of Riverhead
Town of Southampton Police Department
Town of Spencer Fire Department, MA
Town of Warren, MA
Town of West Hartford, CT
Town of Weston, MA
Town of Westminster, MA
Town of Wilbraham, MA
Uniondale Fire District
Union Fire District, RI
Vails Gate Fire District
Vigilant Hose & Cumberland Valley Hose, PA
Village of Bellerose
Village of Colonie
Village of Farmingdale
Village of Mamaroneck
Village of Manlius
Village of Mount Kisco
Village of Ocean Beach Fire Department
Village of Rockville Centre Police Department
Village of Sag Harbor Fire Department
Village of Sea Cliff
Village of Scotia
Village of Valley Stream
Village of Waterford
Walden Fire District
Westbury Fire District
Westhampton Beach Fire District
West Crescent Fire District
West Hempstead Fire District
West Sand Lake Fire District
Woodmere Fire District
William P. Faist Ambulance Corps.
Windsor Public Safety, VT

Key Personnel

In any business endeavor, effective leadership helps create confidence among participants and encourages a professional and positive environment. We have hand-selected a team of public safety facilities experts to work with the City of Fort Lauderdale on this exciting project to design a FEMA P-361-compliant hurricane safe room at the City's Emergency Operations Center (EOC). They will leverage their lessons learned on similar EOC projects to make this project a success.

Below, we have identified our proposed leadership team, one that has proven to be effective on the Design Criteria Packages for Fire Stations 13 and 88 project. Should additional resources be needed, H2M has nearly 600 technical and support personnel spanning all disciplines that the City can rely on for help.



Joseph M. Mottola, AIA | Principal-in-Charge

Mr. Mottola has 40 years of experience in the field of architecture, design, and construction, specializing in public safety projects. As an active member of the volunteer fire service for more than 40 years, he has demonstrated a long commitment and passion to serving and protecting the public. As Principal-in-Charge, Mr. Mottola has the authority to commit and apply the resources necessary to meet the City's technical requirements and schedule.



David J. Pacheco, AIA | Project Manager

Mr. Pacheco has 30+ years of architectural experience and is H2M's Director of Operations. 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. Mr. Pacheco is a skilled project manager and currently manages our Design Criteria Packages for Fire Stations 13 and 88 project with the City of Fort Lauderdale.



Patrick O. Stone R.A., LEED AP | Subject Matter Expert & QA/QC

Mr. Stone has 18 years of experience in developing and managing various mission-critical projects. He has focused on public works projects, specifically in the design of public safety facilities, and takes great pride in engaging in community driven projects. Mr. Stone is an active thought leader in the industry and actively contributes through teaching, writing, and educating. He is currently an SME for the National Fire Academy and works with FEMA to develop firematic training programs at the academy. In the community, he is a 20-year member of the fire service.



Dennis A. Ross, AIA | Subject Matter Expert & QA/QC

Mr. Ross has 50 years of experience in architectural design, focusing on emergency response facilities. With additional experience in construction management, feasibility studies, and land evaluations, Mr. Ross is able to assess projects from multiple points of view. He leverages his expertise and experience through teaching, writing, and speaking at numerous national engagements. Mr. Ross is one of the leaders and co-founder of the critically acclaimed 1-on-One™ Fire Station Design Symposium.

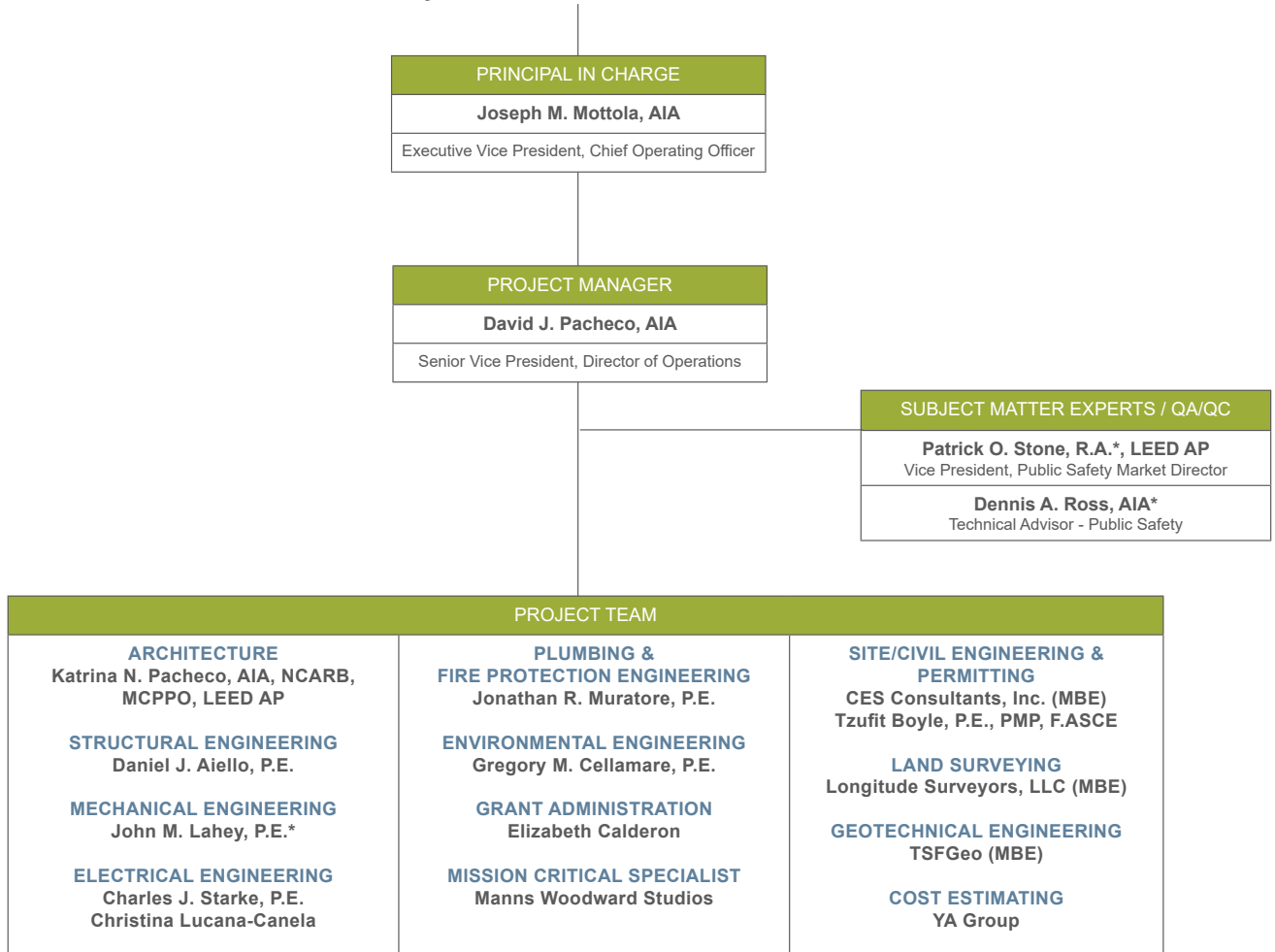
► Qualifications & Experience of the Firm/Team



Katrina N. Pacheco, AIA, NCARB, LEED AP, MCPPO | Lead Architect

Mr. Pacheco has 30+ years of ar Ms. Pacheco has more than 30 years of architectural design experience and focuses on standardization within design projects and specializes in CAD/BIM integration to bring tangible value to the firm's clients. Focusing on the design of public safety buildings for over 25 years, she has been involved in the production, evaluation, and construction administration of over 100 such facilities. Ms. Pacheco is currently working closely with the City of Fort Lauderdale on our Design Criteria Packages for Fire Stations 13 and 88 project.

City of Fort Lauderdale



* - Licensed Outside Florida



Resumes for the above referenced key personnel are provided following this page.



Joseph M. Mottola AIA

Executive Vice President | Chief Operating Officer



Mr. Mottola has 40 years of experience in the field of architecture, design, and construction, specializing in public works projects in the New York metropolitan area. As Chief Operating Officer, Mr. Mottola is responsible for working with the CEO and the executive management team in leading the firm's technical operations and managing the successful implementation of strategic initiatives; such as monitoring or creating new systems and processes to improve efficiency and the quality of the work product.

Prior to assuming the position of COO, Mr. Mottola served as the Director of Architecture and Structural Engineering for the firm. Mr. Mottola managed three architectural studios which specialized in municipal work, educational work and private sector work. He also managed the firm's architectural studio in White Plains, Albany, and NYC; and managed the firm's structural engineering division. As part of the overall management and supervision of these five groups, Mr. Mottola was responsible for overall department performance, providing department leadership, client service and satisfaction, business development and the pursuit of new clients, staff oversight and mentoring, promoting outstanding communication, ensuring that department guidelines, policies and procedures are in place so that business expectations of the company are being met, and ensuring that employees have the opportunity to grow and be given the opportunity for upward mobility and growth within the department.

Mr. Mottola is actively involved in assisting in the public safety market. Being an active member of the volunteer fire service for more than 40 years, Mr. Mottola has demonstrated a long commitment and passion to serving and protecting the public. As a result, Mr. Mottola has built his professional career on providing service excellence to the firm's public safety clients.

Selected client experience within the Public Safety Market

- City of Fort Lauderdale Fire Rescue
- Baldwin Fire District
- Bellmore Fire District
- Elmont Fire District
- Lehighton (PA) Fire Department
- Rockville Centre Fire Department
- Roslyn Rescue Fire Company
- Setauket Fire District
- Manhasset-Lakeville Fire Department
- Massapequa Fire District
- Garden City Park Water/Fire District
- Hicksville Fire District
- Central Islip Fire District
- Exchange Ambulance of the Islips
- Patchogue Fire Department
- Copiague Fire District
- Oceanside Fire District
- Riverhead Fire District

Mr. Mottola understands the need for balancing the inherent conflicts of the design process and utilizes sound decision making that promotes good design, project scoping, scheduling, budgeting, quality and outstanding client service, resulting in overall client satisfaction.

Education

B.Arch.; New York Institute of Technology
A.A.S., Civil Technology; Nassau County
Community College

Licenses/ Certifications

Registered Architect: NY, NJ, PA, CT, DE, FL,
OH, MA, RI, VA, KY, SC
NCARB Certified

Offices Held

Nassau County Firefighters Museum and
Education Center, Board Member
NYIT School of Architecture and Design,
Dean's Advisory Board

Memberships

American Institute of Architects
Construction Specifications Institute
Massapequa Fire Department, Ladder
Company 2
Nassau and Suffolk Association of
Fire Districts
National Fire Protection Association
Fire Department Safety Officer Association

Honors/Awards

Outstanding Community Service,
Island Harvest
AIA Community Service Award
H2M Employee Excellence Award
Firefighter's Leadership Award
Firefighter's Humanitarian Award



David J. Pacheco AIA

Senior Vice President, Director of Operations



Education

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

Licenses/Certifications

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

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 2019-2024

Director, AIA New York State – 2009-2010

Honorary Member: Grand Boulevard Fire Co. (NY) & Kingston Fire Department (PA)

Publications

"Air Quality in Your Fire Station," Firehouse Magazine, May 2020

"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 has more than 30 years of architectural experience, with 28 years of specialized knowledge in the design of emergency services facilities, and is Senior Vice President and Director of Operations at H2M. He oversees teams responsible for the development of project design, establishment of project schedules and budgets, the development of construction documents, submissions to government agencies, and all construction phase services administering architectural projects from their inception to completion. Mr. Pacheco leads the company's Core of Excellence – a select group of individuals across the company that together focus on ensuring H2M offers best-in-class services and deliverables to our clients. In this role, he oversees, establishes, and launches systems that are integrated across the company's markets, disciplines, and office locations to see that these company-wide goals are met.

Mr. Pacheco is a Professor of Professional Practice at Rensselaer Polytechnic Institute as well as a Fire Commissioner of Niskayuna Fire District, No. 1. Having studied and/or overseen the design of over 200 emergency response facilities, he extends his practical knowledge to the students he teaches and into the professional literature he writes for architecture and emergency services publications, while providing counsel regarding all aspects of the architectural design of public safety facilities. Mr. Pacheco has lent his proficiency to the development of national standards that altered how emergency services facilities are designed across the country, serves as a Director of the American Institute of Architects for the eastern New York chapter, is an ASTM homeland security technical sub-committee member, and has received major architecture design awards and professional recognition.

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Project Manager responsible for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts. The design criteria packages will involve a topographic and boundary survey, geotechnical soil sampling, engineering and architectural and other related tasks, 3D renderings of up to three design concepts, and 30% design plans and specifications. H2M will also identify all permits required, dewatering and stormwater pollution prevention requirements, and impacts to local business and residents, based on the data collection.
- City of Scranton Emergency Services Training Facility and Emergency Operations Center; Scranton, PA: Feasibility study, master planning, design, permitting, bidding, and construction administration services for a new, phased training facility and emergency operations center (EOC) for the City of Scranton.
- City of Norwalk Fire Headquarters; Norwalk, CT: Principal and Design Architect for the design of a new fire headquarters, which includes City-wide IT and the Fire Marshal. Helped to obtain a \$1 million grant for a federally funded Emergency Operations Center (EOC) and designed a four-story facility with a large mezzanine to add training space within the high bays. Corridors, walls, and roofs were successfully utilized to protect the living spaces from noise and pollution. The large mezzanine spaces were designed adjacent to the bays and classroom. The mezzanine was designed to incorporate numerous active training regimens, including a chargeable standpipe, interior rope training, rappelling points, windows, maze, bail out, smoke, blackout, ladder evolutions, floor-to-floor transfer, confined space, rescue hatch, and ability to create additional regimens. The building achieved LEED Gold certification.*
- Fort Washington Fire Company #1 New Station; Fort Washington, PA: Principal and Designer for the design of a new fire station. The Fire Company 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.*
- Saratoga County Public Safety Facility; Ballston Spa, NY: Client Contact, Principal, and Design Architect for the design of a critical essential service facility combining County Emergency Services, EOC, 911 Call Center, Sheriff, Public Health, and Probation Departments under one roof for efficiencies in space, coordination, communication, emergency power, community training, and outreach.
- Albany County E-911 Facility; Clarksville, NY: Client Contact and Design Architect for the design of a new emergency management facility for the Albany County Sheriff's Office to replace their outdated facility. The new facility is approximately 12,000 square feet including a large dispatch room that holds 16 console positions and one supervisor position, as well as 20 call-taker stations.

*Architect of Record: Pacheco Ross Architects, P.C.



Patrick O. Stone R.A., LEED AP



Vice President, Public Safety Market Director

Mr. Stone has 18 years of experience in architectural planning and design, with a focus on fire, police, ambulance, and other emergency response facilities. As H2M's Public Safety Market Director, he serves as a client manager for several clients and is responsible for the market's strategic growth. Mr. Stone's areas of expertise include pre-bond strategy development, planning, public engagement and presentation; project budgeting; development of preliminary designs and oversight of integrated design development approaches; oversight in the development of construction documents, contracts and specifications, and coordination of the respective project engineering disciplines; obtaining governmental and agency approvals; and construction administration through occupancy. Mr. Stone is a frequent presenter at national conferences, including the FIERO Station Design Symposium, FDIC International, Station Design Conference, and others. Notably, Mr. Stone led the planning and design of the "The Fire and Rescue Station of the Future" at FDIC International, which was built full-scale inside Lucas Oil Stadium and visited by more than 16,000 attendees. During this event, he led tours, answered questions, and explained the innovations within the station. This honor is the result of developing a reputation for innovative design, strong leadership, and depth of expertise. Mr. Stone's passion for public safety extends to his community — he is a 20-year member of the fire service.

Education

M.S., Construction Management;
New York University

B.S., Architectural Technology,
Minor in Construction Management;
New York Institute of Technology

Licenses/ Certifications

Registered Architect: NY

LEED Accredited Professional, USGBC

Project Management, Polytechnic Institute
of New York University

NYCDOB 40-Hour Site Safety Manager

OSHA 10-hour Construction Safety & Health

H2M Project Management Training

Memberships

American Institute of Architects (AIA)

Construction Specifications Institute,
Long Island Chapter

U.S. Green Building Council

Massapequa Fire Department
Volunteer Firefighter

National Fire Academy, Subject Matter
Expert

Publications

"Contamination Control Through Design",
Fire News (2024)

"Vehicle Exhaust Extraction Systems",
Crackyl Magazine (2024)

"The Ins and Outs of Vehicle Exhaust
Extraction Systems" Firehouse Magazine
(2022)

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: QA/QC Lead for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts. The design criteria packages will involve a topographic and boundary survey, geotechnical soil sampling, engineering and architectural and other related tasks, 3D renderings of up to three design concepts, and 30% design plans and specifications. H2M will also identify all permits required, dewatering and stormwater pollution prevention requirements, and impacts to local business and residents, based on the data collection.
- Georgetown County EOC and 911 Communications Center; Georgetown County, SC: Providing public safety subject matter expertise for the new Georgetown County Emergency Services Building that will house the Emergency Operations Center (EOC) and 911 Communications Center. This facility will serve as the critical hub for emergency services operations, public safety communications, and disaster response coordination within Georgetown County. The new building will incorporate state-of-the-art technology, enhanced security, and resilient infrastructure to ensure continuous operations during emergencies.
- City of Scranton Emergency Services Training Facility and EOC; Scranton, PA: Feasibility study, master planning, design, permitting, bidding, and construction administration services for a new, phased training facility and EOC for the City of Scranton.
- Port Washington Police District New Headquarters; Port Washington, NY: Provided programming and public awareness campaign services for the development of a new 30,000 Police Headquarters. The project includes a Public Safety Answering Point (PSAP), temporary EOC, community spaces, a Sally port, and more. The building will use a micro-grid system for emergency power and complies with COPS requirements.
- City of Greenfield New Fire Headquarters; Greenfield, MA: Designed a 20,000 square foot fire station on a compact urban site. The project was designed to net zero energy ready (targeting an Energy Use Intensity (EUI) of 35 or below). This target allows the City to secure the highest utility incentives, lowest operating costs, and will result in 0 to <1% in additional construction costs to be recouped in savings on building operation within the first few years. Worked with the City to maximize grant funding. The project received a \$1 million grant for the EOC and COVID-based design solutions.
- Village of Mineola New Headquarters; Mineola, NY: Planning, design, and construction administration services for a new three-story, 28,000 square foot fire headquarters. The bay facility replaced the Village's more than 100-year-old station. This building has been designed for the future. Apparatus bays include state-of-the-art IT, including monitors for chauffeurs with heads up displays. Electrical infrastructure has been strategically placed to support the newly formed drone unit. Anticipation of future electric apparatus and equipment fueled many decisions in the design of this space. Integrated training within the bays provide props for bail-out, mask confidence, standpipe, confined space, and other trainings.



Dennis A. Ross AIA

Technical Advisor - Public Safety



Mr. Ross has 50 years of experience in architectural design, focusing on emergency response facilities: fire, police, EMS, EOC, PSAP, and public safety. With experience in construction management, real estate development, feasibility studies, and land evaluations, Mr. Ross assesses projects from multiple points of view. He leverages his expertise and experience through teaching, writing, and speaking at professional conferences and symposiums. Mr. Ross is one of the leaders and co-founders of the critically acclaimed One-on-One™ Fire Station Design Symposium.

Earning his Bachelor of Architecture degree from Rensselaer Polytechnic Institute, Mr. Ross went on to become licensed in 15 states, NCARB certified, a board of governors 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. He is currently serving on the NFPA Technical Committee on "Emergency Responders Occupational Health". The Committee has been tasked to develop a new Standard for Contamination Control, NFPA 1585, which just went live. He led the task group for Chapter 5, Emergency Services Organization Facilities. In addition, Mr. Ross accepted a position as Executive Board Member on the NFPA AEBO (Architects, Engineers, Building Officials) Board.

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
National Council of Architectural Registration Board Certified (NCARB)

Memberships

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

Publications

*"How to Clear the Air in the Fire Station", Crackyl Magazine, 2024
"GIS May Be Key To The Future Of Emergency Response," Firehouse Magazine, 2021
"Air Quality in Your Fire Station," Firehouse Magazine, 2020
"Get it Done! 10 Strategies for Success," Fire Chief Magazine, 2019
""One-on-1" Program Offers Departments Feedback on Station Projects", Firehouse Magazine, 2017
"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," Jones & Bartlett Publishers in conjunction with IAFC, 2005

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Technical Advisor for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts. The design criteria packages will involve a topographic and boundary survey, geotechnical soil sampling, engineering and architectural and other related tasks, 3D renderings of up to three design concepts, and 30% design plans and specifications. H2M will also identify all permits required, dewatering and stormwater pollution prevention requirements, and impacts to local business and residents, based on the data collection.
- City of Scranton Emergency Services Training Facility and Emergency Operations Center; Scranton, PA: Feasibility study, master planning, design, permitting, bidding, and construction administration services for a new, phased training facility and emergency operations center (EOC) for the City of Scranton.
- City of Norwalk Fire Headquarters; Norwalk, CT: Project Executive and Co-Designer for the design of a new fire headquarters, which includes City-wide IT and Fire Marshal. Helped to obtain a \$1 million grant for a federally funded EOC and designed a four-story facility with a large mezzanine to add training space within the high bays. Corridors, walls, and roofs were successfully utilized to protect the living spaces from noise and pollution. The large mezzanine spaces were designed adjacent to the bays and classroom. The mezzanine was designed to incorporate numerous active training regimens including a chargeable standpipe, interior rope training, rappelling points, windows, maze, bail out, smoke, blackout, ladder evolutions, floor-to-floor transfer, confined space, rescue hatch, and ability to create additional regimens. The building achieved LEED Gold certification.*
- Fort Washington Fire Company #1 New Station; Fort Washington, PA: Project Executive and Co-Designer for the design of a new fire station. The Fire Company 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.*
- City of Lethbridge Fire HQ, Stations #4, and #5; Lethbridge, AB: Project Executive and Co-Designer for the design of the City's fire headquarters as well as renovations to Station #4 and new Station #5. The City wanted to combine its very busy Fire Department with the Regional EOC, 911 call answering point, City-wide IT center, Fire Marshal headquarters, and City fitness facility into one location. Worked with FWBA Architects on the design.*
- River Oaks Fire and Rescue Squad New Station; Woodbridge, VA: Project Executive and Co-Designer for the design of a new fire and rescue squad station with regional EOC. The Fire and Rescue Squad needed a facility that would provide ample training to the volunteer and career members. Developed as many training regimens into the building as possible by combining a training/hose tower and mezzanine with direct access to the bays. The training regimens include a five-flight tower stair; chargeable standpipe/Siamese connection; exterior rope training; rappelling points; window evacuation; ladder and floor-to-floor transfer training; confined space; rescue hatch; and state-of-the-art classroom training.*

* Architect of Record: Pacheco Ross Architects, P.C.

CAM #26-0696

Exhibit 4

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Katrina N. Pacheco

AIA, NCARB, LEED AP, MCPPO



Assistant Vice President,
Studio Director

Ms. Pacheco has more than 30 years of architectural design experience and focuses on standardization within design projects and specializes in CAD/BIM integration to bring tangible value to the firm's clients. Focusing on the design of public safety buildings for over 25 years, she has been involved in the production, evaluation, and construction administration of over 100 such facilities. Her responsibilities include client management, document coordination, materials research and selection, shop drawing review, bidding services, construction administration, and all other phases of project management.

Ms. Pacheco 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. She is an Adjunct Professor at Rensselaer Polytechnic Institute and teaches Professional Practice to both undergraduate and graduate students. Her experience with sustainable practices and public safety project expertise has enabled her to advise clients on various aspects of public safety facilities. Ms. Pacheco has served as a 1-on-One advisor at the Fire Chief Magazine's "Station Style Design Conference" and presented a seminar entitled "Tactical LEED for Fire Stations" in Kansas City, MO to a national audience.

Education

B.Arch.; Rensselaer Polytechnic Institute

B.S., Building Science; Rensselaer
Polytechnic Institute

Licenses/Certifications

Registered Architect: NY, FL, MA, CT

National Council of Architectural Registration
Board Certified (NCARB)

LEED Accredited Professional (AP)

Massachusetts Certified Public Purchasing
Official (MCPPO)

Memberships

American Institute of Architects (AIA)

RPI: Guest Studio Reviewer, 2018-2023;
Blast Off Career Talk; Portfolio Reviews
2016-2018

AIAENY: Design Award Committee Chair
2019-2021

St Francis de Sales, Troy: Parish Council/
Pastoral Planning Committee, Christian
Education Committee, Catechist Building
Renovation Consultant 2005-2009

Hillside Elementary School PTO, Niskayuna:
Fall Frolic Committee, Playground
Committee & Community-Build Installer

Bicycle & Pedestrian Task Force for Capital
District Transportation Committee

Niskayuna Fire District Building Committee

Honorary Member: Grand Boulevard
Fire Co. (NY)

Presentations

1-on-One Pre-Conference: Phoenix, AZ,
Denver, CO and Overland Park, KS 2006-2013

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Lead Architect for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts. The design criteria packages will involve a topographic and boundary survey, geotechnical soil sampling, engineering and architectural and other related tasks, 3D renderings of up to three design concepts, and 30% design plans and specifications. H2M will also identify all permits required, dewatering and stormwater pollution prevention requirements, and impacts to local business and residents, based on the data collection.
- Saratoga County Public Safety Facility; Ballston Spa, NY: Project Manager and Designer for the design of a critical essential service facility combining County Emergency Services, Emergency Operations Center (EOC), 911 Call Center, Sheriff, Public Health, and Probation Departments under one roof for efficiencies in space, coordination, communication, emergency power, community training, outreach, and with multiple outbuildings.
- Albany County E-911 Facility; Clarksville, NY: Project Manager and Architect for the design of a new Emergency Management Facility for the Albany County Sheriff's Office to replace their outdated facility. The new facility is approximately 12,000 square feet, including a large dispatch room that holds 16 console positions and one supervisor position, as well as 20 call-taker stations.
- City of Norwalk Fire Headquarters; Norwalk, CT: Project Captain, Designer, and LEED Project Administrator for a new fire headquarters, which includes City-wide IT Data Center and the Fire Marshal. Helped to obtain a \$1 million grant for a federally funded EOC and designed a four-story facility with a large mezzanine to add training space within the high bays. Corridors, walls, and roofs were successfully utilized to protect the living spaces from noise and pollution. The large mezzanine spaces were designed adjacent to the bays and classroom. The mezzanine was designed to incorporate numerous active training regimens including a chargeable standpipe, interior rope training, rappelling points, windows, maze, bail out, smoke, blackout, ladder evolutions, floor-to-floor transfer, confined space, rescue hatch, and ability to create additional regimens. The building achieved LEED Gold certification.*
- City of Lethbridge Fire HQ and Station #4; Lethbridge, AB: Project Captain and Visiting Project Architect for the design of the City's fire headquarters as well as renovations to Station #4. The City wanted to combine its very busy Fire Department with the Regional EOC, 911 call answering point, City-wide IT center, Fire Marshal headquarters, and City fitness facility into one location. Worked with FWBA Architects on the design.*
- Fort Washington Fire Company #1 New Station; Fort Washington, PA: Project Captain tasked with overseeing the design of a new fire station with the potential for future expansion. The Fire Company wanted to combine its Volunteer Fire Company and New Student Bunker Program into a single, flexible facility with public access for training, EOC, and township offices that would maintain secure separations without diminishing emergency response.*

* Architect of Record: Pacheco Ross Architects, P.C.



Daniel J. Aiello P.E.

Associate, Department Manager - Structural Engineering



Mr. Aiello is a structural engineer with more than 10 years of experience in the assessment and design of multi-story residential/commercial buildings, schools, storage facilities, barge bulkheads, and more. He serves as H2M's Department Manager of Structural Engineering. Mr. Aiello has effectively implemented his experience with steel, concrete, masonry, wood, and cold-formed design in all his projects. He applies his background in geotechnical engineering to design various foundation systems and retaining structures.

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Responsible for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts.
- Manhasset-Lakeville Fire District New Ambulance Building; Great Neck, NY: Structural design services for a new 10,000 square foot, two-story, four-bay ambulance building, including kitchen, lounge area, bunk rooms, meeting room, and offices. The District owns the existing site and has two existing buildings located on the rear of the site that H2M designed 10+ years ago.
- Copiague Fire District New Storage Building; Copiague, NY: Preparation of structural plans and specifications for a proposed storage building for the District. Design for this pre-engineered structure includes foundations, slab on grade, and interior mezzanine.
- Friendship Engine and Hose Co. New Fire Station; Merrick, NY: Responsible for the structural design of a new fire station to be built in Merrick, NY.
- Massapequa Fire District New Combined Fire/EMS Station; Massapequa Park, NY: Structural design for a new 21,600 square foot station containing seven bays, including one drive-through bay, that houses both a fire company and a rescue company; integrated hands-on training; transition zones between bays and the administration sides; company offices; fitness facilities; training classrooms; and public meeting spaces.
- North Massapequa Fire District Headquarters Additions and Alterations; North Massapequa, NY: Prepared structural plans and specifications for a two-story addition composed of an apparatus bay, storage mezzanine, and storage space above the new apparatus bay.
- Centereach Fire District Station 2 Addition and Alterations; Lake Grove, NY: Prepared structural drawings and specifications for the renovation and 9,100 square foot addition to Station 2 of the Centereach Fire District.
- Brooklyn Navy Yard Development Corporation (BNYDC) FEMA Boilers, Substations, and Isolated Electrical Work Contract; Brooklyn, NY: Structural Project Manager for the design of various FEMA-funded flood mitigation projects at 17 locations at the Brooklyn Navy Yard. Work was performed for designated flood zones and moderate wave action. The flood mitigation measures varied from elevated platforms, structural framing enhancement for equipment relocation, and flood wall design.
- SUNY Stony Brook University New Storage Warehouse Building; Stony Brook, NY: Structural design of a new pre-engineered warehouse to store dry good and miscellaneous property of the University. The design includes foundations and footings, slab, and wall and roof framing.
- Westchester County Daniel P. Thomas Material Recovery Facility Tipping Floor Slab Repair; Yonkers, NY: Engineering services to address structural deficiencies in the tipping floor slab located at the Westchester County Daniel P. Thomas Material Recovery Facility.
- Ørsted New York O&M Hub Building Renovation; East Setauket, NY: Supported the design of all structural elements of a building design for the alteration of an existing 60,000 square foot warehouse with an Operational and Control Data hub and office space. The design incorporates sustainable elements where possible to attain LEED certification.
- Peconic Environmental Services Construction and Demolition Rail Transfer Station; Medford, NY: Structural design to build a construction and demolition (C&D) debris transfer facility on a six-acre parcel that will move C&D in the most efficient manner possible from waste delivery trucks into railcars for disposal off of Long Island. The railcars will be covered and staged to leave the property after midnight each evening.

Education

M. Eng., Structural Engineering;
Syracuse University

B.A., Civil Engineering;
Syracuse University

Licenses/ Certifications

Professional Engineer: NY, NJ, CT, FL, MD,
PA



John M. Lahey P.E.

Senior Project Engineer - Mechanical Engineering



Mr. Lahey has more than 10 years of experience in the engineering industry, where he is well versed in all areas of HVAC experience across multiple sectors. Specifically, he has worked within local and foreign commercial and residential spaces and education spaces. Additionally, Mr. Lahey has five years of military experience with the United States Marine Corps including one year of deployment.

Selected project experience

- Inc. Village of Mineola New Fire Headquarters; Mineola, NY: Provided mechanical engineering services as part of the design of a new fire headquarters for the Village of Mineola. Designed VRF hyper heat system with a roof-mounted DOAS system serving the first and second floor office spaces. Provided three single-zone VAV rooftop units serving the third floor company rooms and meeting room. Designed hot water boiler plant and unit heaters serving apparatus bay. An apparatus bay was also provided with a gas detection system, general exhaust fan, vehicle exhaust system, and several high-volume low-velocity fans to de-stratify the space.
- Centereach Fire District Station 2 Addition and Renovation; Lake Grove, NY: Responsible for mechanical engineering design associated with the addition and alterations to Station 2. A new BMS was provided, as well as new HVAC systems throughout the entire building.
- Patchogue-Medford Library New Library Branch Building; Medford, NY: Provided mechanical engineering design for the new 5,500 square foot Medford Branch Library. Designed a 20-ton air-cooled VRF system and 1,600 CFM split gas-fired DOAS unit as part of a base bid. As an alternate, designed a 28-ton geothermal water cooled VRF system and 2,000 CFM DOAS unit with a 750 MBH boiler plant for space heat and condenser water injection. The geothermal systems were sized to accommodate future space fit-outs.
- Garden City Public Library Children's Room Renovation; Garden City, NY: Responsible for HVAC modifications to the existing HVAC system serving the Library's children's room including revising/adding additional ductwork, diffuser locations, and return grills to accommodate the approved layout. Coordinated with vendors to provide updated controls and thermostat locations within the space. Upgrades were integrated with the existing BMS system.
- Gold Coast Public Library New Library; Glen Head, NY: Responsible for mechanical engineering services for a new one-story, 11,000 square foot library to better serve community needs. Provided design services for a new gas-fired air handling unit, ductwork distribution systems, exhaust systems, and dedicated split system AC unit. Also responsible for energy code analysis for the mechanical equipment and coordination of all mechanical equipment, risers, and distribution with the architectural plans.
- Oceanside Public Library Additions and Renovations at Oceanside Library; Oceanside, NY: Providing mechanical engineering services for the renovation/addition at Oceanside Library. The existing Library was approximately 32,000 square feet, while the new design provides approximately 48,000 square feet. The Library is situated in a developed suburban area; parking and outdoor space were critical to maintain. Additional square footage was added by demolishing an existing one-story portion of the building, and constructing a lower level, first floor and second floor to match existing levels of the portion of the building to remain. Sustainability was a key factor in the decision-making process, with highly efficient HVAC and electrical systems, ultra-thermal fenestration packages, a robust building envelope, and low VOC/high recycled content materials and finishes specified throughout.
- Brooklyn Navy Yard Development Corporation (BNYDC) Building 270 Rehabilitation; Brooklyn, NY: Providing mechanical engineering services for the rehabilitation of Building 270 at Brooklyn Navy Yard. Hurricane Sandy caused extensive damage to the Brooklyn Navy Yard. The saltwater caused extensive permanent damage to electrical components. As a result, the FEMA and State of New York have obligated funds toward recovery and mitigation of facilities under the FEMA Public Assistance (PA) Program for Disaster DR-4085. Mechanical work involves designing a new boiler system to replace the existing boiler system of the same size, elevating the new boiler to an elevation above the design flood elevation (DFE), and designing a new fuel tank with flood mitigations measures.

Education

B.S., Mechanical Engineering;
Hofstra University

Licenses/ Certifications

Professional Engineer: NY, NJ

OSHA 10-Hour Construction Safety & Health

H2M Project Management Certification
Program Graduate, Project Manager

Memberships

American Society of Heating, Refrigerating,
and Air-Conditioning Engineers (ASHRAE)



Charles J. Starke P.E.

Assistant Vice President,
Assistant Department Manager - Electrical Engineering



Mr. Starke is an electrical engineer with 15 years of experience providing electrical design for water, wastewater, and industrial projects. As H2M's Assistant Department Manager of Electrical Engineering, he is responsible for leading a team of staff in the execution of high-quality electrical designs. Mr. Starke's areas of expertise include power distribution design, new electrical services and service upgrades, motor control centers, programmable logic controls (PLC), emergency generators and systems, interior and exterior lighting, fire alarm systems, CCTV and access control systems, and security alarm systems.

Selected project experience

- Town of Davie Police Department Emergency Generator; Davie, FL: Engineer of Record for the installation of a new exterior emergency generator at the Town's Police Headquarters. Due to failure of the generator during Hurricane Irma, the existing 750kw interior generator will be replaced by a new 750kw exterior generator. The existing generator is fueled by an existing 8,000-gallon underground storage tank and day tank. It will provide full back-up power for the Police Headquarters building and adjacent Fire Department Station 65 building.
- Exchange Ambulance of the Islips New Headquarters; East Islip, NY: Senior Project Engineer for the electrical systems of a new facility for the Exchange Ambulance of the Islips to improve the responders' operations and workflow, living environment, and health and safety; enabling smoother operations and an improved work environment for first responders.
- Massapequa Fire District Park House Fire Station Addition and Renovation; Massapequa, NY: Senior Project Engineer for electrical systems for the addition and renovation of an existing fire station for the Massapequa Fire District. The project included power distribution design, emergency generator design, interior and site lighting, and IT/AV/CCTV systems coordination.
- Village of Rockville Centre Police Station Renovation; Rockville Centre, NY: Provided electrical engineering services for the adaptive reuse of the Village of Rockville Centre's water district maintenance garage to house their Police Department, Fire Chief/Council Suite, and Water Department. The new Police Headquarters facility includes a 24/7 climate-controlled communication/dispatch center with numerous advanced monitors and CCTVs for constant surveillance. This facility also incorporated uninterrupted power supply, and full building generator and a control center.
- Inc. Village of Mineola New Fire Headquarters; Mineola, NY: Senior Project Engineer responsible for electrical engineering design for the Village's new state-of-the-art fire headquarters, which replaced the original headquarters built in 1913. Responsibilities included power distribution, lighting, emergency generator, and IT/AV/CCTV design.
- Centereach Fire District Headquarters Renovations; Centereach, NY: Senior Project Engineer responsible for electrical engineering design for upgrades to the District's headquarters, including meeting rooms, bathrooms, and communication console renovations. The scope also included elevator upgrades. Designed new LED lighting and electrical equipment throughout.
- Hicksville Fire District Parking Lot Improvements; Hicksville, NY: Senior Project Engineer responsible for lighting improvements at the parking lots utilized by the District's headquarters and Station 3.
- Roslyn Rescue Fire Company New Fire Station; Greenvale, NY: Project Engineer responsible for electrical engineering design for a proposed new fire station on Locust Street for the Roslyn Rescue Fire Company. Responsibilities included power distribution, lighting, and generator design.
- Town of Brookhaven Mastic Volunteer Ambulance Company Headquarters Addition and Alteration; Mastic, NY: Project Engineer responsible for electrical design for an addition and renovation to this volunteer ambulance headquarters. There are many sustainable features, including photovoltaic roof panels; daylight harvesting; low flow plumbing fixtures; a geothermal HVAC system; a white roof with a high solar reflectance index; building commissioning; and low-emitting materials. The facility achieved LEED Gold certification.

Education

B.S., Electrical and Computer Engineering;
New York Institute of Technology

Licenses/ Certifications

Professional Engineer: FL, NY, NJ

Dale Carnegie Training Program

H2M Project Management Training Program



Christina Lucana-Canela

Project Engineer - Electrical Engineering



Ms. Lucana-Canela is a project engineer with experience in electrical engineering. Her responsibilities including mapping site power distribution; design of new electrical services and service upgrades; and designing motor control centers, PLC controls, emergency generator systems, interior and exterior/site lighting, fire alarm systems, CCTV, and access control systems, and security alarm systems. Ms. Lucana-Canela is proficient in a variety of software applications, including AutoCAD, Revit, EDR, Comcheck, and AGI.

Selected project experience

- City of Homestead Wittkop Park Water Treatment Facility Chlorination Project; Homestead, FL: Design work for a new chlorine building, second chlorine feed building, chlorine disinfection system, and site work at the Wittkop Park Water Treatment Facility. H2M is also providing Class 3 level estimates and providing support during the bidding and award phase.
- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Responsible for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts.
- Town of Davie Police Department Emergency Generator; Davie, FL: Design for the installation of a new exterior emergency generator at the Town's Police Headquarters. Due to failure of the generator during Hurricane Irma, the existing 750kw interior generator will be replaced by a new 750kw exterior generator. The existing generator is fueled by an existing 8,000-gallon underground storage tank and day tank. It will provide full back-up power for the Police Headquarters building and adjacent Fire Department Station 65 building.
- Nassau County DPW Glen Cove Water Treatment Plant; Glen Cove, NY: Supported the electrical design to support a new preliminary wastewater treatment process for raw sewage. Work involved design for motor control center, interior lighting, conduit duct bank layout, and control/communication modifications.
- Nassau County DPW Bay Park Sewage Treatment Plant Hot and Chilled Water Piping; East Rockaway, NY: Supported the electrical design team to power new site-wide hot and chilled water piping.
- Nassau County DPW Bay Park Sewage Treatment Plant Electrical Upgrade and Substation; East Rockaway, NY: Designed an electrical upgrade for existing process buildings and new Unit Substation 2.
- Nassau County DPW Cedar Creek Water Pollution Control Plant; Wantagh, NY: Electrical design to upgrade wastewater treatment areas of process. The project involved enhanced power distribution to the upgraded areas, site lighting, HVAC power, conduit duct bank mapping, controls and instrumentation, and new power distribution for pipe galleries.
- Nassau County DPW, Bay Park Sewage Treatment Plant Pump Station Upgrades; East Rockaway, NY: Electrical design to support the upgrade of the Knott Drive, Morgan Park, Viola, and Roslyn pump stations. Work included electrical utility upgrades, motor control center design, HVAC and odor control power, lighting design, new generator design (both interior and exterior), and general power.
- Brooklyn Navy Yard Development Corporation (BNYDC); Brooklyn, NY: Designed medium-voltage switchgear at several buildings, upgraded power systems and distribution, and elevated electrical equipment and switchgear above flood zone locations to prevent future storm surge damage. Also provided electrical design to support a new boiler for an existing building, various elevator upgrades across the BNYDC campus, and fire alarm design.
- Islip Terrace Fire Department; Islip, NY: Electrical design for a new substation. This included design for general power and lighting, HVAC power, security/CCTV, emergency generator, and fire alarm. Coordinated with utility provider for new service.
- Village of Garden City; Garden City, NY: Assisted with the electrical requirements to implement both emergency and permanent installation of AOP/GAC treatment at Clinton Road, Wells 15 and 16. This involved coordination and preparation for new electrical service and emergency back-up generator, as well as design of upsized well motors, RVSS and VFD implementation to new motor control center design, interior lighting, HVAC power, instrumentation and controls, and security/CCTV.

Education

B.S., Electrical Engineering; SUNY Maritime

Licenses/ Certifications

H2M Business Practice 101

H2M Leadership One



Jonathan R. Muratore P.E.

Assistant Vice President, Department Manager -
Plumbing and Fire Protection Engineering



Mr. Muratore has more than 10 years of experience in plumbing and fire protection design and engineering for a wide variety of projects, including laboratories, higher education facilities, fire stations, municipal and state buildings, and public and private residences. He is knowledgeable in domestic water service and distribution systems, backflow prevention design and permitting, sanitary, waste and vent systems, grease interceptors, gas pipe sizing, double wall process waste piping, waste treatment, compressed air systems, fuel pumping stations, and fire sprinkler and standpipe systems. Mr. Muratore is skilled in AutoCAD and Revit MEP 3D design.

Selected project experience

- City of Fort Lauderdale Design Criteria Packages for Fire Stations 13 and 88; Fort Lauderdale, FL: Responsible for the development of two design criteria packages for Fire Station 13 and Fire Station 88 projects, which are intended to be completed under design-build contracts.
- Stanford Heights Fire District New Fire Station; Schenectady, NY: Plumbing and Fire Sprinkler Design Reviewer for a proposed new 24,000 square foot fire station.
- Inc. Village of Mineola Fire District New Headquarters; Mineola, NY: Plumbing and Fire Sprinkler Design Reviewer for a new 25,000 square foot fire district headquarters. The plumbing and fire protection design included evaluation of existing water service, new fire service, domestic and sanitary design, backflow prevention, gas service upgrade, and drainage and collection systems in the apparatus bay.
- Massapequa Fire Department Alterations and Addition; Massapequa Park, NY: Plumbing and Fire Sprinkler Design Reviewer responsible for the design of plumbing support systems for the bathrooms, showers, kitchen, and apparatus bay. The addition adds approximately 9,000 square feet of space to the existing building.
- Setauket Fire Department Headquarters Additions and Renovations; East Setauket, NY: Plumbing and Fire Sprinkler Design Engineer responsible for plumbing and fire protection design as part of a major renovation and new addition to the Setauket Fire Department headquarters building. The completed facility features additional and properly sized apparatus bays, improved access for all responders, a meeting room, training room, and adequate administrative and storage spaces.
- Wading River Fire Department Headquarters Fuel Storage and Dispensing Upgrades; Wading River, NY: Plumbing Design Engineer for the proposed fuel storage and dispensing system upgrades at the Wading River Fire District Headquarters.
- Westhampton Beach Fire District New Headquarters Facility; Westhampton Beach, NY: Plumbing and Fire Sprinkler Design Engineer for the new 30,000 square foot building that includes five drive-thru apparatus bays, bunker gear and apparatus support spaces, District and Department offices, training room, large multipurpose/meeting room with kitchen, fitness center, and lounge/recreation space. The facility achieved LEED Gold certification.
- New Jersey Department of Military and Veterans Affairs New Training Center and Maintenance Bay; Vineland, NJ: Plumbing and Fire Sprinkler Design Engineer for an approximately 41,000 square foot vehicle maintenance facility, including work and inspection bays, offices, classrooms, bathrooms, lockers, break room, tool room, storage rooms, and mechanical/electrical/telecommunications spaces.
- Borough of Brielle Borough Hall Addition and Renovations; Brielle, NJ: Design of plumbing systems for a major renovation and addition to the Brielle Borough Hall. The addition integrated a sally port and new elevator into the section of the building utilized by the Brielle Police Department. Additionally, the project involved making interior alterations, reallocating building space per the new addition, upgrading the building's mechanical and electrical systems, incorporating an emergency generator, and ADA accessibility enhancements.
- New York Institute of Technology New Campus Commons Building; Old Westbury, NY: Plumbing and Fire Sprinkler Design Engineer responsible for plumbing and fire sprinkler design for a new 88,650 square foot Commons Building, including food service, multi-purpose spaces, student programming, and community spaces.

Education

B.S., Mechanical Engineering: State
University of New York at Buffalo

Licenses/ Certifications

Professional Engineer: NY, NJ, CT, FL, MA, VA
H2M Project Management Certification

Memberships

American Society of Plumbing
Engineers (ASPE)

National Fire Protection Agency (NFPA)

Gregory M. Cellamare P.E.

Assistant Vice President, Boca Raton Office Director



Mr. Cellamare has over 25 years of experience in environmental engineering and is the Office Director for the Boca Raton, Florida office. His focus is growing the office and providing the necessary vision, planning, project execution, and technical direction for success in the Florida region. His responsibilities include collaborating with discipline, office, and market directors across H2M, to further develop H2M's presence in the local community, to lead and develop a strong discipline team, and to evaluate opportunities in the Florida region and prepare proposals.

Environmental engineering experience includes Engineer of Record (PE) responsibilities for several vapor barrier/sub-slab depressurization system designs, and multiple construction dewatering designs. He has particularly extensive experience implementing innovative remedial technologies to facilitate mitigation and remediation. Throughout his years in the industry, he has become extremely well versed in laws and regulations from various states and the Federal government. His experience also includes managing multi-year term contracts for public agencies. Mr. Cellamare's specific due diligence experience includes the completion of numerous soil, soil-vapor, and groundwater contamination investigations for sites governed by various states' laws, the USEPA, Federal Superfund, and RCRA. These investigations include delineation and remediation of soil and groundwater impacted by petroleum, chlorinated solvents, and metals. He has supervised underground storage tank removal/closure projects, and the installation, operation and maintenance of various types of remedial systems. He has provided environmental construction management services for numerous "mega-projects." Construction management experience includes management of spoils classification and disposal, noise and air quality impacts, groundwater treatment and disposal, permitting, and erosion and sediment control.

Selected project experience

- City of West Palm Beach Spill Prevention, Control, and Countermeasures (SPCC) Plan & Chemical Bulk Storage (CBS) Program Review; West Palm Beach, FL: Preparing an SPCC Plan and performing a review of the CBS program for the City's WTP. The SPCC will include information on prior spill events; a prediction of direction and flow for potential spill events; a description of existing storage systems and spill prevention equipment; a review of site drainage and facility transfer operations; a review of inspections and records, an assessment of the facilities security systems; and training staff on spill prevention procedures. The CBS program review will inspect all chemical bulk storage areas, including indoor and outdoor storage tanks, drums, and containers. The inspection will involve verifying the conditions of containment areas, spill control measures, secondary containment, and venting; evaluating labeling, signage, and hazard communication compliance; assessing chemical segregation practices to prevent incompatible chemical storage; an exterior visual assessment of the physical condition of storage tanks, piping, valves, and connections for signs of wear, corrosion, or leakage; and a review the facility's tank testing records and any recent maintenance or inspections. A gap analysis will be provided to the City for review and implementation.
- New York City Department of Environmental Protection (NYCDEP) Bureau of Water and Sewer Operations (BWSO) Environmental Health & Safety (EHS) Management Services; New York, NY: Provided EHS management services, including engineering and environmental consulting services for the NYCDEP BWSO. Work included a wide range of assignments related to EHS regulatory compliance; EHS health and safety program support; spill investigation and remediation support; program development and audits; and incident investigation support.
- PSEG Long Island: Serving as Project Manager for an on-call environmental services term contract. The three most recent projects completed under this contract involved pre-development activities for proposed new or renovated substations. Activities completed included the design and implementation of remediation and closure plans for seven underground injection control (UIC) wells and up to eight registered and unregistered underground storage tanks. In addition, designed and implemented several in-situ waste characterization plans, which were intended to ensure anticipated excavation areas and depths of excavations were adequately represented as per facility disposal sampling protocol, while effectively optimizing the number of borings to be installed and samples to be collected. The approach also intended to provide a simplistic approach to assigning excavated soils a classification (e.g., hazardous, non-hazardous, etc.) and facility destination as the excavation progresses real time. In addition, his design reduced environmental impacts (runoff, odors, dust, etc.) that are common with stockpiling.

Education

M.S., Environmental Engineering;
Manhattan College

B.S., Earth Science; Pennsylvania State
University

Licenses/Certifications

Professional Engineer: FL, NY

OSHA 40-hour HAZWOPER & 8-hour
refresher

OSHA Confined Space Entry

NJDEP Underground Storage Tank
Certification; Closure No. 22376

OSHA 30- & 10-hour Construction Safety
& Health

OSHA DOT Hazmat General & Security
Awareness Certification

NYS DOB Four Hour Supported Scaffold
Training

New Jersey Department of Environmental
Protection Industrial Site Recovery Act
(ISRA) Training

NYS Department of Health (NYSDOH) Soil
Vapor Intrusion Training

NYSDOH Regulatory Training in
Underground Storage Tanks

ESI Groundwater Flow & Contaminant
Transport Modeling Course, Washington
D.C.



Elizabeth Calderon

Assistant Project Compliance Manager



Ms. Calderon is a document control specialist with experience expediting permit filings and regulatory approvals, gathering property information/history, completing applications, coordinating with owners and municipalities, and maintaining project schedules. Her experience also includes maintaining, tracking, and coordinating project documents such as payment requisitions, submittals, change orders, and municipal submissions for projects in H2M's Water Department. Ms. Calderon is proficient in Microsoft Office and knowledgeable in E-Builder, Newforma, SpecLink, Adobe Acrobat and InDesign, Primavera, Procore, ADP EZLabor, and Everify.

Selected project experience

- Water Authority of Great Neck North Plant A Mitigation (FEMA Hazard Mitigation Grant Program); Great Neck, NY: Collaborated with the engineering team and the Water Authority to compile and submit required documentation for the FEMA Hazard Mitigation Grant application, ensuring compliance and timely delivery. Facilitated coordination during the RFI phase, including preparing and submitting responses to DHSES within designated deadlines. Managed updates and revisions to all documents and forms submitted throughout the RFI process, maintaining accuracy and consistency in grant records.
- West Hempstead Water District Birch Street Power Distribution System Resiliency (FEMA Hazard Mitigation Grant Program); West Hempstead, NY: Collaborated with the engineering team and District to prepare and submit documentation for the FEMA Hazard Mitigation grant application, ensuring timely submission. Coordinated responses during the request for information (RFI) phase, including tracking deadlines and submitting required materials to Division of Homeland Security and Emergency Services (DHSES). Managed document revisions and maintained accurate records of all forms and correspondence throughout the RFI process. Oversaw compliance with FEMA documentation requirements, supporting engineering team for necessary documents to be submitted by the contractor prior to construction. Provided ongoing support to the District by preparing supplemental documentation and assisting with grant-related reporting throughout the project. Served as a liaison between the engineering team and the District to facilitate communication.
- Plainview Water District AOP Plants No. 2, No. 4, and No. 7 NYSEFC WIIA Grant Compliance, Documentation Coordination, and Recordkeeping; Plainview, NY: Coordinated with prime contractors and the staff engineer to ensure timely submission of NYS EFC program-required documentation, maintaining strict adherence to grant deadlines. Supported the District in the preliminary review of contractor compliance documents, including MWBE and SDVOB solicitation records and waiver requests, ensuring alignment with NYSEFC WIIA grant requirements. Reviewed submitted documentation for completeness and accuracy, issued comments to contractors when compliance gaps were identified, and tracked resolution of outstanding issues. Facilitated communication between contractors and the District to streamline document flow and ensure readiness for NYS submission. Submitted finalized documentation to the District for compliance review and onward transmission to NYS for time-sensitive approval and grant processing. Maintained organized internal records of all submitted documentation to support historical tracking and to facilitate resubmission of documents when requested by NYS or required for audit purposes.
- Franklin Square Water District PFOS Treatment at Plant No. 1 Grant Compliance Coordination (New York State Department of Health [NYSDOH] Bipartisan Infrastructure Law [BIL] Emerging Contaminants Funding); Franklin Square, NY: Supported the District in managing BIL Emerging Contaminants grant funding through the NYSEFC. Ensured timely execution of the Project Finance Agreement (PFA) with NYSEFC by the required deadline of September 30, 2025. Coordinated with prime contractors and staff to ensure compliance with federal program requirements, including American Iron and Steel provisions; Build America/Buy America (BABA) domestic sourcing; and Federal Equivalency standards, such as DBE participation, MWBE/EEO goals, and federal signage installation. Reviewed contractor-submitted documentation for accuracy and completeness; provided feedback and coordinated revisions to meet NYS submission standards. Conducted monthly compliance check-ins with prime contractors to verify subcontractor payments and ensure ongoing solicitation efforts where applicable. Maintained detailed internal records of all submitted documentation to support historical tracking and facilitate resubmission or audit requests. Submitted required attachments and compliance documentation to NYSDOH within specified deadlines to ensure uninterrupted grant processing.

Education

B.A., Marketing;
Dowling College

Memberships

Project Management Institute (PMI)



Tzufit Boyle P.E., PMP, F.ASCE

Senior Discipline Engineer - Water Resources



Ms. Boyle is a civil engineer with 25 years of experience in surface water design and operations, groundwater contamination, wastewater design, and solid waste design and planning. She is a strong project manager who helps teams meet challenging schedules and balance competing priorities while adjusting to the team's needs to reach a common goal. Ms. Boyle can see project needs on both a task scale, as well as a system-wide broad view. Her expertise includes managing large projects and teams, preparing and reviewing shop drawings, and coordinating office engineering activities including scheduling, pay applications, testing, and change order preparation. She is also experienced in field supervision and has provided engineering services during construction on multiple large-scale projects. Ms. Boyle believes in service to the industry and the community and is involved in leadership at ASCE and Scouting America.

Selected project experience

Education

B.S., Civil and Environmental Engineering;
Carnegie Mellon University

B.S., Engineering and Public Policy;
Carnegie Mellon University,

Licenses/ Certifications

Professional Engineer: FL

Project Management Professional (PMP)

Memberships

American Society of Civil Engineers
(ASCE), Fellow

ASCE 2024 Convention Local Planning
Subcommittee Chair

ASCE, Florida Section, Region 5 Governor

Environmental and Water Resources
Institute (EWRI), Member

Project Management Institute (PMI)

Honors/Awards

ASCE Palm Beach Branch Government
Engineer of the Year (2024)

ASCE Florida Section Government Engineer
of the Year (2024)

Outstanding Alumni Service Award,
Carnegie Mellon University (2022)

- City of Homestead Wittkop Park Water Treatment Facility Chlorination Project; Homestead, FL: Project Manager leading design work for a new chlorine building, second chlorine feed building, chlorine disinfection system, and site work at the Wittkop Park Water Treatment Facility. H2M is also providing Class 3 level estimates and providing support during the bidding and award phase.
- Solid Waste Authority of Palm Beach County Design and Construction of MW-1R; West Palm Beach, FL: As Project Manager, responsible for the coordination of consultants and contractors, as well as submissions to regulatory agencies for the new construction of a deep injection monitoring well, MW-1R, at the Palm Beach Renewable Energy Facility (PBREP). Other tasks included coordinating a testing program to establish the viability of the new well and plugging and abandonment of the old existing MW-1 monitoring well.
- Solid Waste Authority of Palm Beach County Design of Replacement Industrial Supply Water (ISW) Wells; West Palm Beach, FL: Project Manager responsible for the coordination of consultants for two separate projects for the replacement of aging ISW wells at the landfill facility at PBREP. Three distinct construction packages were developed for construction of 15 new replacement wells. Coordinated with regulatory agencies and various departments within the Solid Waste Authority.
- South Florida Water Management District (SFWMD) Lake Okeechobee Watershed Restoration Project; Various Locations, FL: As Project Manager, provided project management services to the Office of the Everglades Policy and Restoration. Tasks included the coordination of various disciplines within SFWMD, such as engineering, modeling, ecological, and water supply, to advance planning efforts within the Comprehensive Everglades Restoration Plan (CERP) related to the Lake Okeechobee Watershed, while coordinating with counterparts at the US Army Corps of Engineers (USACE) and other federal, state, and local agencies.
- SFWMD C-44 Pump Station RTA Design Documents; Indiantown, FL: As Project Engineer, provided design services for a new pump station. This work order included the continuation of the project design to Corrected Final/Ready to Advertise (RTA) design documents suitable for solicitation of a construction contractor.
- SFWMD C-44 Stormwater Treatment Area (STA) Engineering During Construction; Indiantown, FL: As Project Engineer, provided engineering services during construction for the following efforts at the C-44 Reservoir/STA site: system discharge structure; STA of approximately 4,000 acres; 1,100-cfs stormwater reservoir pumping station; and remediation of agriculturally impacted soils. Processed contractor submittals and provided engineering support for issues arising during construction.
- SFWMD Interim System Discharge Spillway; Indiantown, FL: As Project Manager, supported the SFWMD with augmenting staff for the construction of the Interim System Discharge Spillway Project for the C-44 Reservoir/STA.
- SFWMD C-44 Communications Tower; Indiantown, FL: As Project Manager, supported the SFWMD with augmenting staff for the construction of the Communications Tower project for the C-44 Reservoir/STA.

ROBERT MANN, AIA
Senior Principal Architect



Robert Mann, AIA is a founding principal of the firm. He carries over 20 years of experience and specializes in the design of public safety facilities such as fire stations, EMS stations, police stations, public safety training centers, and mission critical structures. He has a proven track record for providing meaningful, budget conscious and quality driven design solutions that meet the specific needs of first responders.

Rob is dedicated to the creation, coordination, and implementation of design solutions that improve the quality of life for first responders and their surrounding community. Rob's has had work and research published numerous times and regularly spoken at conferences on the topics surrounding public safety design at, FIERO, Firehouse, APCO, and IACP. Over the past decade, Rob's been instrumental in advancing the design of public safety buildings to mitigate first responder exposure to carcinogens and hazardous materials. As a result, his work, and the work of the firm have generated numerous national awards for design and construction excellence of public safety facilities.

POSITION / ROLE	YEARS AT MWS	YEARS OF EXPERIENCE	EDUCATION	REGISTRATION
Principal Architect	20	27	Master of Architecture Catholic University of America	Licensed Architect NCARB

HIGHLIGHTED PROJECTS



AA Co. EMERGENCY MGMT CTR ANNAPOLIS, MARYLAND

Principal Architect for the design of a new 52,532 SF emergency management center for Anne Arundel County. The project will provide a new joint 911 call center and emergency operations center with state of the art equipment and work stations.



MSP BERLIN BARRACK BERLIN, MARYLAND

Principal Architect for the design and construction of a new 24,900 SF state police barracks. The new building provides a large multipurpose classroom, offices and workrooms, polygraph office, PSAP, and detainment spaces. Half of the building is dedicated to a forensics lab.



MSP CUMBERLAND BARRACK CUMBERLAND, MARYLAND

Principal Architect for design and construction of a new 20,000 SF state police barracks. The building provides crime scene processing, conference rooms, meeting rooms, work rooms, and a PSAP.

EVAN GRAY, AIA
Studio Principal Architect



Mr. Gray serves as one of the lead designers and project architects for public safety facilities within the firm. Over the course of his career with the firm, he has been directly involved in the design of more than 30 fire stations, police stations, and emergency operations centers. His architectural experience is further complemented by his 15 years' experience in the construction industry.

As one of the firm's leading technical experts, Evan is responsible for quality assurance and control, design production, construction document standards, and implementing innovative strategies in the design of public safety buildings. He regularly engages in technically challenging and specialty projects such as firing ranges, communications centers, laboratories, and storm hardened structures. Evan also possesses direct FEMA experience where he worked to secure project funding to harden and replace public safety facilities compromised by Hurricane Sandy. He possesses immense knowledge regarding the nuisances associated with the renovation and construction of public safety facilities and, specifically, challenging sites.

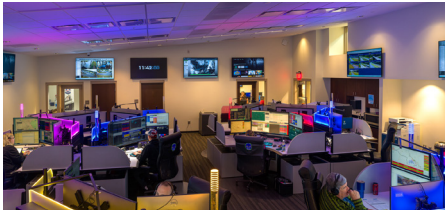
POSITION / ROLE	YEARS AT MWS	YEARS OF EXPERIENCE	EDUCATION	REGISTRATION
Principal Architect	14	17	Master of Architecture Savannah College of Art & Design	Licensed Architect NCARB

HIGHLIGHTED PROJECTS



WICOMICO COUNTY SHERIFFS HQ
WICOMICO COUNTY, MARYLAND

Project Manager for the design of a new 2-phase 68K SF sheriff's headquarters and emergency operations center for the Wicomico County Sheriffs Department. Phase 1 of the project consists of the 43K SF sheriff's headquarters and will include office space, duty desk, holding cells, evidence storage and processing, vehicle maintenance workshops, communications technology, interview rooms and meeting spaces.



DORCHESTER COUNTY EOC
DORCHESTER COUNTY, SOUTH CAROLINA

Project Architect for the design and construction of a new 13,000 SF EOC & 911 call center. The facility contains administrative offices, EOC, call center, situation room, mobile command bay, living quarters and support spaces. The building is designed to withstand a wind load of a category 5 hurricane.



N. PROVIDENCE PUBLIC SAFETY COMPLEX
N. PROVIDENCE, RHODE ISLAND

Project Architect for the design and construction of a new 60,000 SF joint public safety complex. The building combines fire, police, and a judicial branch under one roof. The building was designed as a hardened and secure structure that exemplifies the principles of layered security and user group access control.



JOSE CARABALLO, PE

Sr. Vice President & Director of Engineering; Permitting



YEARS EXPERIENCE

23

EDUCATION

BS, Environmental Engineering,
Louisiana State University, 2002

REGISTRATIONS & CERTIFICATIONS

Florida Professional Engineer
#73064

New York Professional Engineer
#094777

Mr. Jose Caraballo is a Florida-licensed Professional Civil Engineer and has 23 years of professional experience in the areas of civil, water, wastewater, stormwater, and drainage design, transportation and environmental engineering, and project management with various public entities, including more than 300,000 LF of residential water main, 200,000 LF of force main/sanitary sewer, and 50 pump and lift stations. He has been involved in a variety of civil and environmental engineering projects related to the improvement of roadways, public utilities, drainage systems, pump stations, lift stations, water and wastewater treatment plants, ports and airports, Class IV Freshwater Wetland Permitting and SFWMD Environmental Resources Permitting, amongst others. Jose has successfully overseen projects from the initial assessment, feasibility analysis and conceptual stages through completion, including full design, permitting, construction management/administration and close-out.

Experience includes:

City of Fort Lauderdale Design Criteria Services for Fire Stations 13 and 88, Fort Lauderdale, FL: CES Director of Engineering for the City of Fort Lauderdale's project to deliver design criteria professional services for Fire Stations 13 and 88—critical facilities supporting the City's emergency response operations. As the civil engineering subconsultant, CES plays a key role in addressing the site infrastructure requirements for both stations. Our team is assessing existing conditions and tackling critical components such as site grading, stormwater management, utility coordination, parking lot configurations, and vehicular access for emergency response vehicles. By focusing on safety, sustainability, and functionality, CES is delivering efficient and resilient site solutions that seamlessly integrate with the overall project goals.

Miami Dade College (MDC) North Campus School of Justice, Miami, FL: CES Director of Engineering. CES was the Civil Engineer for the team, led by Leo A. Daly, and provided site civil design and construction phase services associated with the renovation and repurposing of the existing Kennedy Center gymnasium to the MDC School of Justice. Design included site demolition, regrading, drainage, pavement resurfacing, sanitary and water connections. The sidewalks, walkways and parking areas were designed based on ADA standards and Miami-Dade County standards. Drainage, including the roof runoff collection system, was designed to meet Miami-Dade standards and engineering best management practices. Three manholes and approximately 250 LF of sanitary gravity lines were designed per FDEP and Miami-Dade standards. Additionally, CES provided engineering services for the design and construction of 600 LF of dual 8-inch welded iron pipe chilled water mains from the chiller at Building 700 to Building 400.

NW 13th Street 36-inch Force Main Replacement, Fort Lauderdale, FL: Sr. Project Manager/Engineer for the design, permitting, construction, testing and startup of a new 36" force main along NW 13th Street in an urban area of Fort Lauderdale, including connections to the existing pipe and reconnection of Pump Stations A-28 and A-29. The project also included the design, permitting, construction, and installation of a new plug valve and piping near NE 14th Avenue and 11th Street to replace the existing inoperable valve and provide isolation to perform the required tie-in work.

Fort Lauderdale Waterworks, Fort Lauderdale, FL: Project Manager providing management of inspection staff and verification of the construction quantity and quality of many new systems in the construction of the Fort Lauderdale Waterworks Program. The projects consisted of upgrading the water, sewer, pump and lift stations, and drainage systems at various locations within the City of Fort Lauderdale.



DAVID HOOT, PE

Sr. Vice President; Civil Engineering



YEARS EXPERIENCE

50

EDUCATION

BS, Civil Engineering,
Environmental Engineering &
Water Resources, Michigan Tech
University, 1976

REGISTRATIONS & CERTIFICATIONS

Florida Professional Engineer
#35970, 1985

Georgia Professional Engineer
#13518, 1982

PROFESSIONAL AFFILIATIONS

American Management Association
American Water Works Association
American Water Resources
Association

Ducks Unlimited, Wetland
Conservation

Florida Engineering Society
Solid Waste Association of North
America

Water Environment Federation

SPECIAL TRAINING

OSHA 40-Hour Hazmat/Health &
Safety Training

OSHA 8-Hr. Hazmat Supervisor/
Mgmt. Training

Wetlands Identification &
Permitting

Environmental & Wetlands
Permitting

Solid & Hazardous Waste Mgmt.
Short Course

Mr. David Hoot is a skilled professional with 50 years of experience. David has successfully functioned in many leadership and operational roles and has an extensive background in civil and environmental engineering. He has significant experience in project management and direction of civil/environmental engineering design and plan preparation involving neighborhood improvement; sustainability and resiliency; site development and pre-development services; roadway and transportation-related design; utilities and infrastructure improvements; water and wastewater transmission, collection and treatment systems; stormwater pipe/culvert design, environmental permitting and stormwater management; environmental impact studies and assessments; and CEI and construction management. David has directed, managed, designed, or provided quality control for various multidisciplinary water, wastewater, stormwater and water resource systems/projects throughout his career; and has provided professional/consulting services related to wastewater and stormwater system evaluation, technical support and design of various types and sizes of pump/lift stations and collection and FM systems, including reuse, and environmental restoration improvements and sustainability projects in the public and private sectors in Florida and the Southeast US.

Experience includes:

City of Fort Lauderdale Design Criteria Services for Fire Stations 13 and 88, Fort Lauderdale, FL:

Engineer-of-Record for the City of Fort Lauderdale's project to deliver design criteria professional services for Fire Stations 13 and 88—critical facilities supporting the City's emergency response operations. As the civil engineering subconsultant, CES plays a key role in addressing the site infrastructure requirements for both stations. Our team is assessing existing conditions and tackling critical components such as site grading, stormwater management, utility coordination, parking lot configurations, and vehicular access for emergency response vehicles. By focusing on safety, sustainability, and functionality, CES is delivering efficient and resilient site solutions that seamlessly integrate with the overall project goals.

Town of Davie Emergency Generator at Police Department, Davie, FL:

Engineer-of-Record. As a subconsultant, CES is providing design services for the paving, grading, and drainage improvements of the project, as well as the relocation of existing fire infrastructure that falls within the footprint of the new generator. This project consists of installing a new exterior emergency generator at the Police Headquarters. Due to failure of the generator during Hurricane Irma, the existing 750kw interior generator will be replaced by a new 750kw exterior generator. The existing generator is fueled by an existing 8,000-gallon underground storage tank and day tank. It will provide full back-up power for the Police Headquarters building and adjacent Fire Department Station 65 building.

Miami Dade College (MDC) North Campus School of Justice, Miami, FL:

Technical Advisor. CES was the Civil Engineer for the team, led by Leo A. Daly, and provided site civil design and construction phase services associated with the renovation and repurposing of the existing Kennedy Center gymnasium to the MDC School of Justice. Design included site demolition, regrading, drainage, pavement resurfacing, sanitary and water connections. The sidewalks, walkways and parking areas were designed based on ADA standards and Miami-Dade County standards. Drainage, including the roof runoff collection system, was designed to meet Miami-Dade standards and engineering best management practices. Three manholes and approximately 250 LF of sanitary gravity lines were designed per FDEP and Miami-Dade standards. Additionally, CES provided engineering services for the design and construction of 600 LF of dual 8-inch welded iron pipe chilled water mains from the chiller at Building 700 to Building 400.



INDUSTRY TENURE

40 years

LONGITUDE TENURE

21 years

EDUCATION

AA, Miami Dade College
(1993)

REGISTRATIONS

Professional Surveyor
and Mapper
FL License No. LS6313

AFFILIATIONS

Florida Surveying and
Mapping Society
Miami Chapter President

America Society of Civil
Engineers
Member

Utility Engineering Surveying
Institute
Member

Leading the team is **Eduardo “Eddie” M. Suarez, PSM**. Recognized for his exceptional leadership, technical proficiency, and commitment to delivering top-tier surveying services, he has successfully navigated complex projects in diverse sectors, including commercial, residential, transportation and infrastructure developments. Having established a reputation for quality, integrity, and client satisfaction, Eddie has built and nurtured strong professional relationships. His collaborative approach ensures seamless coordination between multidisciplinary teams, driving projects toward successful outcomes. With a keen eye for detail and a passion for precision, he orchestrates the team’s efforts with unwavering dedication

City of Ft. Lauderdale Fire Station No. 88, City of Ft. Lauderdale, Ft. Lauderdale, FL

Longitude Surveyors completed a comprehensive topographic survey for Fire Station 88 in the City of Fort Lauderdale, covering the entire right-of-way. The survey established detailed ground elevations to capture existing conditions and provide an accurate representation of the area for design and planning purposes. In addition to the topographic work, the team performed Subsurface Utility Engineering (SUE) services, designating underground utilities within the project limits to support engineering and construction activities with reliable data. To ensure accuracy, Longitude established vertical control by performing a bench run tied to two nearby National Geodetic Survey (NGS) benchmarks located to the west of the project. This process provided precise elevation references that were used throughout the survey effort. The combination of topographic mapping, right-of-way coverage, utility designations, and benchmark verification resulted in a thorough dataset that could be confidently used for engineering design and project development.

Town of Davie Police Department - 1230 South Nob Hill Road Davie, FL

Longitude Surveyors provided Surveying, Mapping, and Subsurface Utility Engineering (SUE) services for the Emergency Generator project at the Town of Davie Police Department, located at 1230 South Nob Hill Road, Davie, FL. The scope included a topographic survey establishing horizontal and vertical control, geo-referenced to the Florida State Plane Coordinate System (NAD83/11) with elevations tied to NAVD88. Aboveground features such as pavement, curbs, sidewalks, buildings, utilities, and trees (3” DBH) were documented, with elevations collected on a 15-foot grid, including the Finish Floor Elevation (FFE) of the adjacent generator room. SUE Quality Level “B” Designation services were also performed in accordance with ASCE standards to identify potential underground utility conflicts. Electromagnetic Locators and Ground Penetrating Radar (GPR) were used for detection, with field markings placed using a standardized color-coded system. Utility lines were shown in the final CAD deliverable with a horizontal margin of two feet on either side of each designated line.

North Bay Village Fire Station and City Hall North Bay Village, FL

Longitude Surveyors performed Subsurface Utility Engineering (SUE) Quality Level “B” Designation services at 1335 79th Street Causeway, North Bay Village, FL. The work was completed in accordance with ASCE standards using Electromagnetic Locators and Ground Penetrating Radar (GPR) to identify underground utilities.





KUMAR VEDULA, P.E.

Principal Geotechnical Engineer

29 Years Professional Experience



Education

MS in Geotechnical Engineering, University of Memphis, 1995

BE in Civil Engineering, Andhra University, 1992

Professional Organization and Registration

Professional Engineer 54873

American Society of Civil Engineers, Past President (Broward Branch)

Professional Experience

Mr. Kumar Vedula, P.E., Principal Engineer of TSFGeo, is a Florida Registered Professional Engineer, has over 29 years of experience providing engineering services for a wide variety of geotechnical projects involving foundation design, slope stability analysis, WEAP analysis and interpreting PDA reports, excavation support, and construction inspection. Mr. Vedula's extensive experience includes foundation inspections (shallow and deep foundations), soil modification (dynamic compaction, stone columns), preloading, excavations, backfilling, and post construction monitoring. Mr. Vedula has served as a principal inspector on numerous surcharging and settlement evaluations of organic laden soils assignments. His project experience includes 300+ geotechnical engineering studies for various projects types including aviation facilities, parks, piers, shoreline stabilization, dredging, bridges, roadways, utilities, high rise buildings, schools, and government facilities. Mr. Vedula has authored, and co-authored papers published in national and international publications.

Abbreviated Relevant Project Experience

- Immokalee Seminole Tribe of Florida Medical and Mental Health Clinic and Public Safety Building
- Palm Beach County Sheriff's Office – West Palm Beach
- PBSO Evidence & Impound Facility
- West Palm Beach Main Detention Center
- Belle Glade West Detention Center
- Miramar Immigrations and Customs Enforcement (ICE)
- Palm Beach County Operation and Support Facility
- North Palm Beach County Governmental Center
- Boynton Beach Fire Station 40
- Boynton Beach Fire and Rescue New Station 49
- Delray Beach Fire Station 3
- Delray Beach Fire Rescue Station 45
- Minto Westlake Fire Station 22
- Westgate Fire Station 24
- Linton Fire Station
- Weston Fire Station 21
- Coral Springs Fire Station 80
- Margate Fire Station 2-58
- Southwest Ranches Fire Station
- West Palm Beach Fire Station 4
- West Palm Beach Fire Rescue Station 8
- West Palm Beach Fire Rescue Station 17
- West Palm Beach Fire Station 22
- West Palm Beach Fire Station 23
- West Palm Beach Fire Station 34
- Palm Beach Gardens Fire Station
- Lake Worth Fire Station 92
- Lake Worth Fire Station 48

Key Staff

Joshua Telenko *Senior Vice President*



Background

With over 20 years of experience in the construction industry, Josh brings a well-rounded and insightful perspective to the R.L. Young, LLC d/b/a/ YA Group team. His career reflects a rare balance of field and office experience, allowing him to understand how decisions at each phase of a project impact all stakeholders—from owners and design teams to contractors and end users.

Josh began his career in the field as a Laborer, gaining firsthand experience on a variety of projects throughout Pennsylvania and West Virginia. He later pursued both a Bachelor's and Master's degree at Indiana University of Pennsylvania, further strengthening his academic and technical foundation. After a brief tenure with FedEx, Josh returned to the construction industry.

Since then, Josh has expanded his role to include Owner's Representation, Construction Management Services, and broader Consulting Services. His thoughtful, process-driven approach is informed by his diverse professional background and has made him a trusted advisor on projects with complex phasing and logistical challenges.

Education

- *Indiana University of Pennsylvania*
B.S. – Business Management
M.B.A.

Project Experience

- City of Fort Lauderdale – Fire Stations 13 and 88
- City of Gadsden – Police Headquarters Addition & Renovation
- City of Rochester – Rochester Police Department (RPD) Special Operations K-9 Tactical Renovation & New Storage Building
- City of Schenectady – Fire Training Facility Renovation
- City of Scranton – New Emergency Operations Center Building
- Metuchen Fire Department and Emergency Services Center
- Orleans County Department of Public Works (DPW) – Emergency Management Building
- Town of Newington – Emergency Operations Center

TAB 3



Concept Rendering – City of Scranton, PA EOC

Understanding of the City's Objectives (Phase I)

The City seeks 100% bid-ready construction documents for a standalone ~15,000 square foot FEMA P-361 safe room protecting 300 Emergency Operations Center (EOC) personnel, plus a backup power system (baseline 500-kW diesel generator with ATS, wind-rated enclosure, fuel tank, pad, and all required electrical connections). H2M will be required to support permitting, peer review (ICC 500/ASCE 7), bidding for Phase II, and Hazard Mitigation Grant Program (HMGP) compliance.

Our approach is purpose-built to deliver concise, performance-oriented drawings and specifications that meet FEMA P-361, ICC 500, ASCE 7, and HMGP documentation requirements; integrate peer review; and anticipate constructability and cost control, mirroring our proven processes on mission-critical public safety facilities and EOCs.

Operations-Based Programming & Criteria Development

H2M starts every project with a series of structured kickoff meetings and in-depth stakeholder workshops (EOM leadership, public information, logistics/IT, Emergency Support Function (ESF) partners) to capture operational flows, staffing profiles, surge occupancy, adjacencies, and technology needs. This operations-based programming

model ensures the safe room and support spaces reflect real-world EOC operations, including incident action planning, situation awareness, JIC/media, policy group rooms, and break/sleep areas.

A few of the specific program deliverables that will be a primary focus are identified as follows:

- Space program and load calculations aligned to near-absolute protection and Risk Category IV requirements.
- Functional diagrams for ingress/egress, sheltering protocols, and response relationships.
- Preliminary N+1 systems strategy (power, HVAC, low voltage, comms/UPS). Note: the design can exceed N+1, should that be desired.

The program will ultimately be a space needs assessment integrated with detailed operational evaluations. H2M's team will provide this dynamic tool that will account for flexibility and changing requirements over time. The program will, at a minimum:

- Determine the scope and operations of the EOC by employing tools and techniques developed by H2M specifically for public safety and mission critical facilities. The program will anticipate additional needs, changing operations over time, and the flexibility to accommodate these needs.
- Describe critical functions, specific requirements, and activities within the facility and on the site.
- Identify crucial operations, priorities, security/public protocols, and operational efficiencies.

- Obtain from the program the desired program spaces, number of personnel, and determine current and future needs.
- Examine current operations and potential for flexibility and change over the foreseeable future. As security and operations transform over time, both interior and exterior flexibility will offer the facility opportunities to manage change.
- Identify special requirements required for a fully functional EOC.
- Pay particular attention to public interactions, procedures, public needs, and security issues.
- Examine the requirements for gender equity and the unique environment for the managers and staff as it relates to specific program spaces.
- Assess current and future technologies and how these can affect the various functions.
- Develop a strategy for facility hardening and mitigation as it relates to both natural and man-made disasters (critical infrastructure, redundant power, and communications, etc.). Special attention to be given to HGMP requirements. The design will need to address both “eligible hazard-mitigating components” vs. “non-eligible components”
- Discuss HVAC options to address individual comfort controls, while also providing systems that limit the transmission of airborne viruses.
- Address energy use and sustainability issues as they pertain to operations, scope, and long-term viability.
- Work with the City’s emergency communications team to develop a strategic plan (and budget) to outfit the facility with the appropriate infrastructure and equipment to accommodate EOC communications.

The result is a living program document becomes the basis for design, QA/QC, cost, and permitting, used throughout SD/DD/CD phases to keep scope, schedule, and budget aligned.

Technical Design Approach (SD/DD/CD)

H2M will provide all customary and industry standard deliverables for the Schematic Design, Design Development, and Construction Documentation. Highlights of each phase are as follows:

► Schematic Design (SD)

- Site test-fits on the parcel at 2200 Executive Airport Way, confirming setbacks, access, stormwater, utilities, wind-borne debris exposure, and protected equipment yards.
- Concept floor plans/elevations/sections illustrating shelter areas, hardened envelopes, protected egress, structural systems, and generator yard.

- Preliminary code/standard narratives for FEMA P-361/ICC 500/ASCE 7; peer review plan; and HMGP eligibility alignment.
- Note: The updated HMA Guide includes enhanced Environmental and Historic Preservation (EHP) rules that will require supporting data such as site maps, flood zone and wetland delineation. Biological, cultural, and historical constraints will also be analyzed as they become applicable.

► Design Development (DD)

- Engineering analyses (structural wind/uplift, impact-resistant envelope, anchorage; MEP loads; UPS/ATS), performance specs, and preliminary bid alternates (e.g., fuel capacity, UPS sizing, enclosure upgrades).
- Low-voltage/IT early coordination (dispatch, servers, network, radio, alerting, access control, CCTV) to lock critical pathways and maintain mission continuity.
- Resiliency/hardening detailing (blast/wind resistance, protected intakes, flood pathways, roof parapet/edge protection) based on H2M’s mission-critical playbook used in EOC/PSAP projects.

► Construction Documents (CD – 100%)

- Bid-ready plans and CSI specifications: civil, architectural, structural, mechanical, electrical, plumbing, fire protection, communications/security.
- Performance criteria for the 500-kW generator (or client-determined alternative), ATS, wind-rated enclosure, fuel system, concrete pad, and interconnections.
- Permit packages and peer-review submittals for community safe room (>50 occupants).
- Front-end documents that embed HMGP requirements and delineate eligibility/allowability (2 CFR Part 200; HMA/HMGP Guidance Addendum).

► Backup Power & Redundancy Strategy

As a baseline, a 500-kW diesel generator sized via load analysis (shelter occupancy, HVAC, comms/IT, lighting, sanitary, minimal galley) has been accounted for, and includes an ATS with closed-transition, wind-rated enclosure, local monitoring, and fuel storage to meet required duration. A UPS for mission-critical systems (servers, radio, access control) to bridge transfer and support power conditioning would also be provided, consistent with H2M’s public safety standards and mission-critical best practices.

In addition, H2M will investigate alternatives and review the options with the City. For example, we can evaluate scalable genset options, dual feeders, harmonic mitigation, and future PV/ESS integration pathways without compromising P-361 shelter operations. Some of these concepts taken

from NFPA 1225 and Critical Operating Power Systems (COPS – as covered by Article 708 of the National Electric Code) standards.

► Site Development, Stormwater, Utilities & Permitting

H2M will coordinate with our civil engineering partner, CES Consultants, Inc., to prepare documentation for grading, drainage, stormwater retention, utility service plans, parking, and protected equipment yards. Our team will coordinate closely with the City/Public Works and applicable agencies throughout this process.

Although this project is located in Fort Lauderdale, our permitting approach mirrors the parallel/expedited strategy we use across Florida projects: early pre-application meetings; concurrent reviews; and schedule-driven submissions. These same strategies are being utilized on the Fire Station 13 and 88 projects for the City of Fort Lauderdale.

Schedule & Deliverables (Phase 1)

Phase	Duration
Program & Site Due Diligence	6–10 weeks
SD	6–8 weeks
DD	8–10 weeks
CD (100% bid-ready)	8–12 weeks
Peer Review	Embedded at 60%/90% milestones
Permitting	6–12 weeks (run in parallel where feasible)
Bidding Assistance:	4–6 weeks

Cost Control, Value Consulting & Bid Strategy

We integrate third-party estimating at 30/60/90 checkpoints, align alternates with market conditions, and design for competitive means/methods. We proactively manage requirements around budget sensitivity reducing redesign risk through early alternates and constructability vetting.

This approach has been refined on H2M public safety programs over many years and was utilized effectively on Fire Station 13 for the City of Fort Lauderdale, saving the City both time and budget on the project. A relatively simple change, like removing a retaining wall, and utilizing the foundations of the proposed station, can significantly reduce the cost of construction, as well as reduce the construction duration, while enhancing the overall project. Outside-the-box thinking such as this defines our approach to design.

H2M's bid strategy includes clear performance and technical specifications, bid alternates (e.g., enclosure/hardening options, fuel autonomy), and unit pricing to improve comparability. We support pre-bid conferences and addenda management to protect schedule and fairness across the board. We will work closely with the City's procurement team to ensure all documents work in concert with each other. These strategies will ensure competitive pricing and protect the tax-payer dollar.

HMGP/2 CFR 200 Compliance & Documentation

H2M's approach is structured to ensure that every design decision, deliverable, and supporting document satisfies the federal requirements governing HMGP funding. These requirements are defined primarily in the Hazard Mitigation Assistance (HMA) Program and Policy Guide v2.1 (2025), 44 CFR Part 206 Subpart N, 2 CFR Part 200, and the technical criteria outlined in FEMA P 361 (2021) and ICC 500 2020. We understand that HMGP funded safe room projects must comply with all applicable federal laws, regulations, grant administration standards, and safe room construction criteria to remain eligible for reimbursement and FEMA approval.



► Mandatory HMGP & CFR Compliance Elements Embedded in H2M's Work

Alignment with HMGP Program Rules (HMA Guide v2.1)

H2M will develop the full design package in accordance with FEMA's HMA Guide v2.1, which incorporates updated requirements based on recent amendments to 44 CFR Part 206 and 2 CFR Part 200. These updates govern allowable costs, documentation standards, environmental compliance, and application timelines (now 15 months). Our design documentation will support the City's and State's ability to meet HMGP requirements for:

- Demonstrating that all proposed features represent permanent risk reduction measures.
- Justifying hazard mitigation eligibility and cost effectiveness.
- Aligning project scope with the City's FEMA-approved Local Hazard Mitigation Plan, required under 44 CFR 201.6.

Compliance with Federal Grant Administration Requirements (2 CFR Part 200)

HMGP projects must comply with federal procurement, cost reasonableness, documentation, and audit standards as defined in 2 CFR 200. The HMA Guide explicitly incorporates these requirements. H2M integrates these requirements by:

- Clearly differentiating eligible mitigation scope (hardened envelope, structural wind protection, generator/ATS, protected openings) from any non eligible architectural enhancements.
- Providing transparent and traceable design decisions, engineering calculations, and cost documentation.
- Maintaining the documentation standards required for federal reimbursement and audit readiness.

► FEMA P 361 & ICC 500 — Mandatory Safe Room Design Criteria

HMGP funded safe rooms must demonstrate compliance with FEMA P 361 (2021) and ICC 500 2020, as FEMA's extended grace period allowing older editions expired January 1, 2024. H2M will incorporate and document the following critical design criteria:

Structural & Life Safety Requirements

Per P 361 and ICC 500, safe rooms must provide near absolute protection against extreme wind events, including EF 5 tornado equivalent wind speeds and associated debris impacts. This includes:

- Wind design up to 250 mph (per P 361/ICC 500 guidance).
- Debris impact resistance per ICC 500 missile testing standards.
- Structural systems designed to withstand extreme pressure differentials and uplift forces.

Hardened Envelope & Protected Openings

H2M will detail and specify:

- Impact rated doors, frames, louvers, shutters, and hardware.
- Hardened wall, roof, and connection assemblies.
- Protected mechanical/electrical penetrations.

Mechanical, Electrical & Redundancy Requirements

We include design strategies supporting life safety continuity under extreme wind conditions:

- Backup power systems sized to support all essential life safety, HVAC, lighting, and communications loads.
- Wind rated generator enclosure, ATS, protected fuel system, and hardened pathways.

Occupant Capacity, Egress & Operational Design

Community safe rooms (>16 occupants) must meet occupancy, accessibility, sanitation, and duration of stay criteria outlined in P 361. H2M will ensure:

- Proper square footage per occupant.
- Compliant egress from hardened zones.
- Ventilation and environmental control strategies that maintain survivability conditions.

► Required Peer Review for Community Safe Rooms

Because this safe room is designed for 300 occupants, FEMA requires independent peer review as part of P 361/ICC 500 compliance. H2M will integrate peer review into our QA/QC workflow as follows:

- It is understood that the City will select an independent peer reviewer that is qualified in community safe rooms / Risk Category IV.
- Conduct two formal checkpoints: 60% DD and 90% CD, resolving comments in a closed-loop log managed by the City's preferred software. (H2M utilizes 'Newforma' in many cases)
- Provide final peer review certification letter and design professional seal.

► Documentation Required for HMGP Eligibility & FEMA Review

By embedding federal requirements into every design stage and documenting compliance clearly and thoroughly, H2M minimizes project risk and ensures the EOC safe room can achieve FEMA approval without redesign, delay, or eligibility challenges. H2M produces the following technical documentation needed for the City, State, and FEMA to process the project under HMGP:

Engineering & Technical Documentation

- Compliance matrix mapping each P 361 and ICC 500 requirement to drawings/specifications.
- Structural, wind load, and debris impact analyses.
- Generator sizing and power redundancy justification.
- Site/Civil mitigation measures (drainage, stormwater, protected equipment yards).

Environmental & Historic Preservation (EHP) Documentation

The HMA Guide includes updated EHP requirements reflecting changes to federal law and executive orders; H2M provides all necessary mapping, narrative, and technical data to support FEMA's review.

HMGP Cost Eligibility & Allowability Support

- Clear distinction between eligible vs. non eligible cost components.
- Quantifiable mitigation benefits and hazard risk reduction justification.
- Support for cost reasonableness evaluation under 2 CFR 200.

Administrative Documentation

As required by 44 CFR 206, H2M's deliverables enable the State to complete its application to FEMA, including final scope of work, cost summaries, and mitigation justification.

TAB 4



City of Norwalk, CT EOC

Introduction

H2M Architects & Engineers, Inc. (H2M) and its mission critical design partner, Manns Woodward Studios (MWS), bring a long and demonstrable record of delivering high reliability, hardened, and mission critical public sector facilities that meet or exceed the stringent requirements of FEMA P 361, ICC 500, ASCE 7, and other high resilience standards. (Note: some projects had different requirements, codes and/or standards at the time of design and construction)

For more than 90 years, H2M has specialized in the planning, architecture, engineering, and construction documentation of Emergency Operations Centers (EOCs), 911 call centers/PSAPs, public safety complexes, and multi agency command facilities, all requiring exceptional operational continuity, structural hardening, and redundant systems. This experience is reflected across hundreds of completed projects and numerous design awards.

Both H2M and MWS have a proven history of:

- Delivering accurate, biddable construction documents that minimize change orders.
- Achieving schedule adherence by tightly managing design milestones, reviews, and permitting windows.
- Ensuring budget accuracy, including FEMA funded cost eligibility documentation and high resilience construction detailing.
- Navigating complex multi agency permitting and coordinating required peer reviews for Risk Category IV or community safe room facilities.
- Providing rapid responsiveness and continuity of support through design, bidding, and construction.

H2M's internal quality systems, including a dedicated Corporate QA/QC program (CORE of Excellence), in house BIM/CAD standards team, and Master CSI based specifications library, ensure highly coordinated, clear, and compliant construction documents that reduce project risk for public owners.

Relevant Project Experience

H2M is pleased to present a selection of representative projects that demonstrate our proven performance in designing mission-critical, high-resilience public-sector facilities, complemented by the specialized expertise of our subconsultant, MWS. Beyond the experience outlined herein, our team is currently working with the City of Fort Lauderdale on the Fire Station 13 and 88 Design Criteria Packages, both of which are progressing successfully and reflect our deep familiarity with the City's operational standards, permitting pathways, and stakeholder coordination processes. We greatly value the strong working relationship we have built with City staff through these ongoing assignments, and we appreciate the trust placed in H2M as a continuing partner. We welcome the opportunity to bring this same level of commitment, responsiveness, and technical excellence to the City's new EOC project.

► History & Past Performance of the Firm/References

Saratoga County New County Public Safety Facility, Ballston Spa, NY

- *Contact:* Steve Gordon, Director of Emergency Communications, 6012 County Farm Road, Ballston Spa, NY 12020, (518) 885-2496, sgordon@saratogacountyny.gov
- *Year of Completion:* 2020
- *Construction Cost (Estimated/Actual):* \$26.7 million (estimated), \$25.1 million (actual)
- *Description:* Please see attached

Albany County New Emergency/911 Call Center, Clarksville, NY

- *Contact:* Lee Bormann, Past Chief Deputy, (518) 410-1155
- *Year of Completion:* 2023
- *Construction Cost (Estimated/Actual):* \$8.7 million (estimated), \$8.2 million (actual)
- *Description:* Please see attached

City of Scranton EOC & Emergency Services Training Facility, Scranton, PA

- *Contact:* John Judge IV, Chief, 340 N. Washington Avenue, Scranton, PA 18503, (570) 348-4132, jjudge@scrantonpa.gov
- *Year of Completion:* Ongoing
- *Construction Cost (Actual/Estimated):* \$10 million (estimated – Phase I)
- *Description:* Please see attached

City of Norwalk Fire Headquarters & EOC, Norwalk, CT

- *Contact:* Michele DeLuca, Deputy Director, Emergency Management, 121 Connecticut Avenue, Norwalk, CT 06854, (203) 854-0238, mdeluca@norwalkct.gov
- *Year of Completion:* 2015
- *Construction Cost (Actual/Estimated):* \$13.5 million
- *Description:* Please see attached

Town of Davie Police Department Storm Hardening Upgrades, Davie, FL

- *Contact:* Keith Pursell, Project Manager, 8800 SW 36th Street, Davie, FL 33328, (954) 797-1191, kpursell@davie-fl.gov
- *Year of Completion:* Ongoing
- *Construction Cost (Actual/Estimated):* \$1 million (estimated)
- *Description:* Please see attached

Anne Arundel County Emergency Management Center, Annapolis, MD

- *Contact:* Emma Pfefferkorn, DPW Senior Project Manager, 2662 Riva Road, Annapolis, MD 21401, (443) 805-1737, pwvpfe00@aacounty.org
- *Year of Completion:* Ongoing
- *Construction Cost (Actual/Estimated):* \$63 million
- *Description:* Please see attached

Wicomico County Public Safety Building, Salisbury, MD

- *Contact:* Mike Lewis, Sheriff, 401 Naylor Mill Road, Salisbury, MD 21803, (410) 548-4891, miklewis@wicomicocounty.org
- *Year of Completion:* 2024
- *Construction Cost (Actual/Estimated):* \$33.3 million
- *Description:* Please see attached

Grant Funding Support Experience

One of our most sought-after services is developing and executing successful public support campaigns for wide-ranging projects that rely upon varied financing sources. Much of our public support is for public projects that may have a single or multiple sources of funding. We are often tasked with developing campaigns to support public bond referendums, generate costs and financing models, generate comprehensive information for various types of grants and bank loans for construction, and support other means of financing.

After Hurricane Sandy, grant funding from FEMA was authorized for PSEG Long Island, specifically to strengthen mainline circuits and harden the existing distribution system. The primary focus was to reduce future damage and loss of function by a rate of 20%, as applied to over 1,025 miles of circuits identified as most vulnerable.

H2M was retained as Program Manager supporting the FEMA funded Hazard Mitigation Program. Administered by FEMA under Section 406 of the Stafford Act, H2M's role was to provide overall program management. The project included multiple engineering consultants and construction contractors to be coordinated and integrated. The result was a successful **\$729 million program** that addressed the needs of the public utility, and the end-users served.

In addition, as a firm that began serving water suppliers more than 90 years ago, H2M has assisted and administered projects for well over **\$300 million dollars** for water infrastructure projects over the last five years through state revolving funds and grants, particularly in New York and New Jersey. We are well versed with all requirements of funding and with the procedures and agreements needed for the grants, including requirements for construction, such as the American

Iron and Steel, Build American, Buy American, and Davis-Bacon federal prevailing wage requirements. We assign a dedicated individual to handle and track all funding and grant projects administered by H2M. Their responsibilities include coordination with the client and the funding agency to ensure all paperwork is handled and submitted on schedule and tracking progress and ensuring the contractors are complying with their appropriate MBE/WBE/SVDOB requirements.

The Village of Keene, NY, saw its fire station destroyed by Hurricane Irene. As with many of the damaged buildings and infrastructure, FEMA was tasked with analyzing and subsequently funding the repair or replacement. Due to the extensive and wide-reaching damage, FEMA brought in analysts from all over the United States to assist in these tasks. H2M spent considerable time and effort to help them understand the specific design and needs of a modern fire station, why the costs in the Northeast varied from the analyst's home of the deep south, and prepared spreadsheets, comparisons, and breakdowns of systems and infrastructure necessary for the station. Concurrently, H2M also participated in a public support campaign for a bond referendum. The Village was able to secure \$700,000 from FEMA and \$500,000 from the bond, with the remainder of financing coming from the insurance payout.

Another example of funding was for the Cortez Fire Protection District, CO. In addition to local bank financing and proceeds from the sale of property, the District needed a grant from the Department of Local Affairs (DOLA) that specifically targeted rural essential services and municipal facilities. H2M wrote much of the fire station technical grant information, generated both construction hard costs and project soft costs, and represented the District in its City and DOLA meetings and presentations. The facility was designed to receive LEED Silver certification as a condition of the grant. Cortez received the last \$2 million maximum grant before the DOLA limit was lowered to \$1 million.

As an additional example of support and proactive involvement, H2M was instrumental in validating and preparing the underlying information for two other grants. Norwalk, CT Fire HQ received a \$1 million grant for its regional EOC and Greenfield, MA, received \$900,000 for its EOC and COVID storage/operation portion of an outbuilding. We prepared both hard and soft costs, defended needs and reasoning for the design, and attended meetings and presentations.

Summary of Firm Capability

Together, H2M and MWS offer the City of Fort Lauderdale a deep, verifiable track record in the successful delivery of:

- FEMA P 361 and ICC 500 aligned facilities.
- Risk Category IV structures.
- Multi agency EOCs and 911 call centers.
- Complex public safety hubs with hardened architecture and redundant infrastructure.
- Federally funded hazard mitigation projects requiring precise documentation and peer review.
- Accurate, biddable construction documents with strong QA/QC oversight.
- Full life cycle support including design, permitting, peer review coordination, bidding assistance, and construction phase consultation.

This experience directly aligns with the City's objectives for a resilient, standalone, 15,000 SF FEMA P 361 compliant hurricane safe room and generator system for the City's EOC. H2M's extensive public safety portfolio, combined with MWS's nationally respected mission critical expertise, provides a uniquely qualified team to deliver the City's high priority hazard mitigation project.

New County Public Safety Facility

H 2
M

Saratoga County Board of Supervisors

County of Saratoga, NY

Construction Cost: \$25.1 million

SERVICES PROVIDED

Feasibility Study
Site Evaluation
Schematic Design
Programming All Users
Budgeting
Construction Administration

Geotechnical
Phase 1A and 1B Cultural
Field Reconnaissance
Design Development
Construction Documents



Law Enforcement Training Magazine Awards: 2020 Bronze Award
Albany Business Review The List: Largest Construction Projects -- #10s
2020 ACEC NY: Gold Award

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 Emergency/911 Call Center

Albany County

Clarksville, NY

Construction Cost: \$8.2 million

SERVICES PROVIDED

Architecture

Programming

Preliminary Design

Design Development

Renderings and Models

Sanitary System Design

Construction Documents

Bidding Services

Accessibility

Code Analysis

Site Engineering

Stormwater Management

SWPPP Reports/Inspections

The County of Albany selected H2M to provide planning, evaluation/assessment of existing conditions, space planning, budget pricing, design and preparation of construction and bid documents, and construction administration for the Albany County Sheriff's E-911 Emergency Management Facility at their Clarksville, NY, Public Safety Campus.

The Sheriff's Office had outgrown their existing outdated facility and desired a new building on a former school campus site to serve as their headquarters, with separate utilities and backup power providing as many of the NFPA 1221 standard features as feasible within budget. The facility is approximately 12,000 square feet, including a large dispatch room that holds 16 console positions and one supervisor position, as well as 20 smaller call-taker stations. The dispatch room has acoustic materials on the walls and detailed soffits for improved sound control. The Emergency Operations Center (EOC) includes tiered curved tables with room for 40 coordinator positions, as well as curved soffits. It also includes display walls at the front and side of the room for viewing and monitoring. The site has two backup diesel generators with an option for hooking up a portable generator.

Our project team included diverse members throughout the design group. H2M's internal compliance with minority and women staffing goals has been documented monthly and is greatly appreciated by the client. Engineering and estimating consultants included MBE and WBE participation as we strove to meet compliance objectives.

The new site includes a pedestrian walkway connector to the former school building, which was added to the National Register of Historic Places in 2008. H2M applied to the State Historic Preservation Office (SHPO) to ensure the new building would not interfere with the existing school building aesthetic, nor disturb any potential indigenous or archaeological evidence. Native bat species were undisturbed during construction on-site.

Shallow bedrock presented a challenge to the design team, tasked with matching the floor level of the adjacent former school building and finding suitable locations for both sanitary sewer conveyance and stormwater retention. The design team employed Unit Pricing and Allowances to help the Sheriff's Office control costs for removal of bedrock in these areas. Replacing the former school's sand filtration system became the only solution; the scope expanded to include upgrades to that system when failed interfacing components were uncovered during construction.

With a tight time frame and difficult underlying bedrock condition, multiple structural systems were evaluated prior to bid for cost and protection level. The most cost and time effective structural design is composed of footings pinned to bedrock; poured-in-place 12" thick reinforced concrete bearing walls; and precast concrete double-tees for the roof. Exterior window and door openings are minimized for occupant protection from weather events and man-made threats; masonry veneer adds to ballistic protection.

The pedestrian walkway separates the two adjacent buildings to maintain independence of all building systems.



Emergency Services Training Facility & EOC



City of Scranton

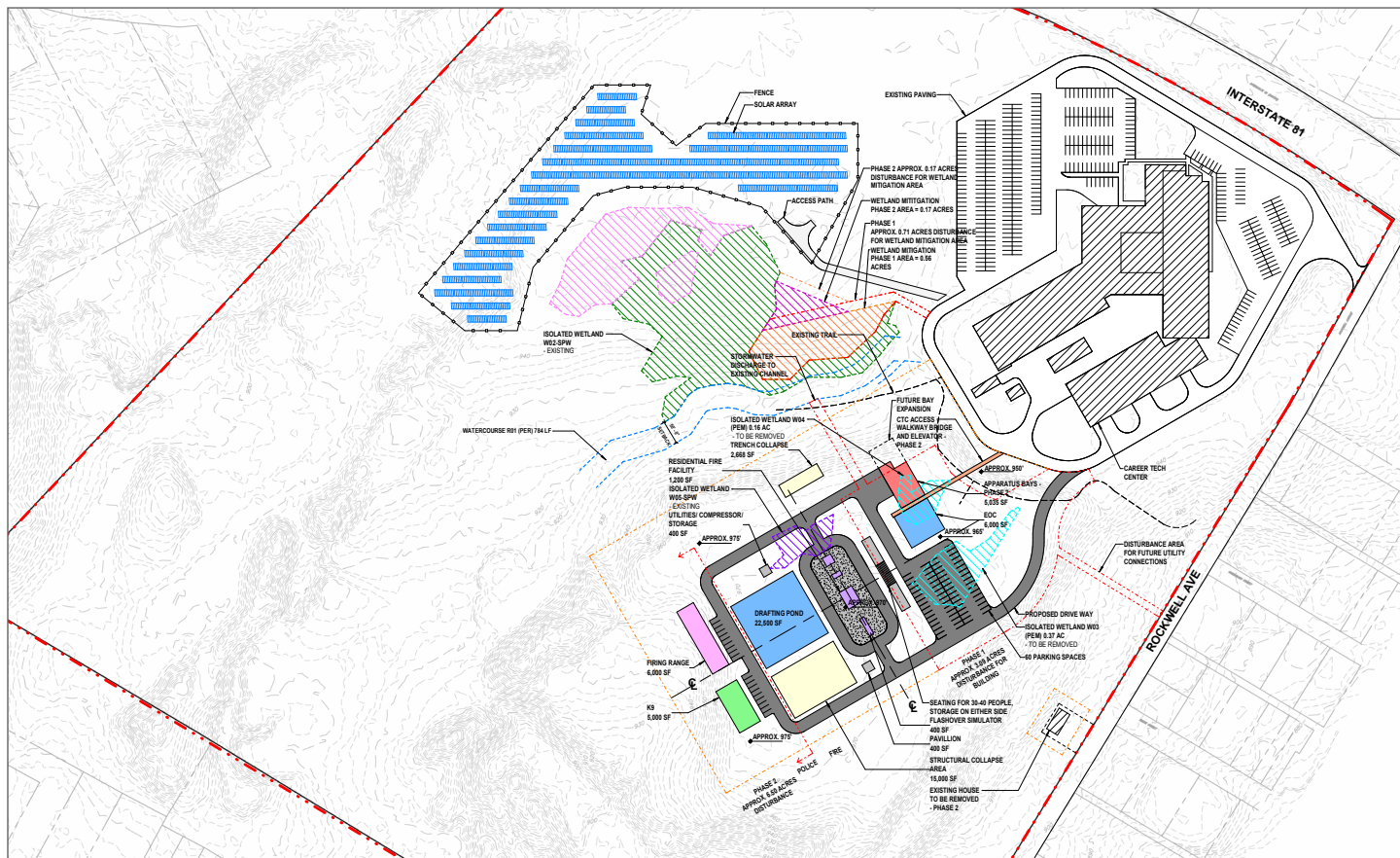
Scranton, PA

Construction Cost: \$10 million (Phase I), TBD (Phase II)

SERVICES
PROVIDED

Architecture

Planning



H2M was selected by the City to design a training campus and EOC next to the existing Career and Technology Center (CTC).

The project will be divided into two phases of development and construction. Phase I will include the utility tie-ins, EOC building, parking lot for future structure and site access, and approximately 3.5 acres of disturbance. Phase II will include design of structures, such as a drafting pond, burn building, flash over simulator, trench collapse training, firing range, K-9 training area, structural collapse area, and a three-bay structure for training vehicles, approximately 6.5 acres of disturbance.

The City requested that the training campus be designed in a way that enables it to be expanded in the future and that could easily be divided into construction phases. The campus will serve multiple entities, such as the City, its Fire and Police Departments, and the CTC. H2M has met with the aforementioned departments to establish program requirements and a phasing plan was developed to keep the project within budget.

New Emergency Generator

H 2
M

Town of Davie

Davie, FL

Construction Cost: \$1 million

SERVICES
PROVIDED

Electrical Engineering
Mechanical Engineering
Plumbing Engineering

Architecture
Environmental
Engineering



H2M is developing designs and preparing bid documents to construct a new emergency generator at the Town of Davie Police Headquarters.

The Town currently has an underground storage tank fuel delivery system and an existing 750 KW emergency interior generator. The existing generator system provides full building back-up power for the Town's Police Headquarters building and adjacent Fire Department building. During Hurricane Irma, the generator and emergency system failed and critical operation facility buildings were left without back-up power. The generator has been intermittently failing since the hurricane. The Town received FEMA Hazard Mitigation Grant Program (HMGP) funding for a replacement.

H2M is designing a new 750 KW exterior emergency generator that will tie back to the buildings' emergency electrical systems. The generator will also be tied back to the existing fuel storage tank. H2M reviewed the FEMA flood maps to elevate the generator as required above the Design Flood Elevation.

H2M is also responsible for permitting and approvals, bidding assistance, and construction administration services.



New Fire Station



City of Norwalk

Norwalk, CT

Construction Cost: \$13.5 million

SERVICES PROVIDED

Feasibility
Public Support Campaign
Regulatory Approvals
Programming
Schematic Design

Budgeting
Contract Documents
Public Bidding
Construction Administration
Project Closeout



AWARDS

- ♦ 2016 Connecticut Green Building Council Honor Award
- ♦ LEED Gold 2014

- ♦ 2015 Firehouse Station Design Awards Gold Winner
- ♦ F.I.E.R.O. Fire Station Design Awards 2016 Gold Winner

- ♦ F.I.E.R.O. Fire Station Design Awards 2016 People's Choice
- ♦ Build Connecticut 2014 Construction New Construction Award

The City of Norwalk wanted its Fire Department to reuse its existing, very narrow site between U.S. Route 1 and I-95 to build its new headquarters and Federally funded EOC. Due to the site's location and narrow dimensions, it was extremely important to factor in controlling noise pollution, extreme traffic conditions, and air quality throughout the design process.

Pacheco Ross Architects (PRA), a division of H2M, helped obtain a \$1 million grant from federally funded EOC and designed a four-story facility with a large mezzanine to add space within the high bays. Corridors, walls, and roofs were successfully utilized to protect the living spaces from noise and pollution. The large mezzanine spaces were designed adjacent to the bays and classroom. The mezzanine was designed to incorporate numerous active training regimens including a chargeable standpipe, interior rope training, rappelling points, windows, maze, bail out, smoke, blackout, ladder evolutions, floor-to-floor transfer, confined space, rescue hatch, and ability to create additional regimens. The new building achieved LEED Gold Certification by reusing the brownfield site, utilizing daylighting, passive solar gain, state-of-the-art

HVAC energy saving systems, noise abatement, and continuous soy-based insulation, recycled materials, and bamboo flooring.

PRA/H2M faced significant challenges on this project, specifically as it related to the site's narrow width. To manage this challenge, PRA/H2M coordinated the CM, City and Fire Department to acquire additional State owned land through negotiations with State and local DOT, City, and State agencies. The design allowed PRA/H2M to accommodate training facilities, firematic support, public areas, firematic offices, a highly secure city-wide IT center, apparatus bays, administrative spaces and the regional EOC within the new building.

Architect of Record: Pacheco Ross Architects, P.C.
(Pacheco Ross was acquired by H2M in 2016)

Photo Credit: David R. Miller

CAM #26-0696

Exhibit 4

Page 50 of 67



CONTACT

Emma Pfefferkorn
443-805-1737

PROJECT DETAILS

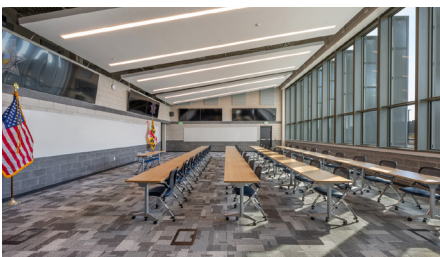
Completed - Est. 2028
Size - 52,532 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect

PROJECT BRIEF

This is a new construction project that will house the AACo 911 call center and the emergency operations center. The project is divided into 2 construction phases, the first includes the site work which consists of the voluntary cleanup program (VCP) site cleanup to address the contaminated soils from the site's previous use as a landfill, site grading to building pad, utility runs and base level paving. The second phase will consist of the building construction, final paving, landscaping and any final VCP efforts. The site is large, approx. 96 acres. The site will be subdivided to provide roughly 33 acres for this project, and to ease the requirements of the VCP process. This project is also aiming for LEED silver.



PROJECT BRIEF

The Wicomico County Public Safety Building is a new two-phase 68,000 GSF public safety headquarters facility located in Salisbury, Maryland. The first phase consists of a new 55,000 GSF headquarters facility for the Wicomico County Sheriff's Office. The infrastructure for the entire build out, inclusive of UPS systems, generators, and redundant communications systems are integrated into the first phase to allow for the seamless construction of phase II. The second phase will house the County's Department of Emergency Service and contain spaces consistent with Emergency Operations Centers and 911 Call Centers. Additional support spaces are provided for storage of deployment assets, inclusive of regional command vehicles. The project is compliant with CALEA, IACP, NFPA 1221, FEMA 543, and CPTED.

The design of the project incorporates all of the aforementioned best practices associated with site design and organization. Interior program elements include a dedicated Public Safety Answering Point (PSAP) and separate Police Communications Dispatch Office (PCO). Additional program elements include offices, duty desk, holding cells, evidence storage and processing, vehicle maintenance workshops, communications technology, interview rooms, and meeting spaces.

CONTACT

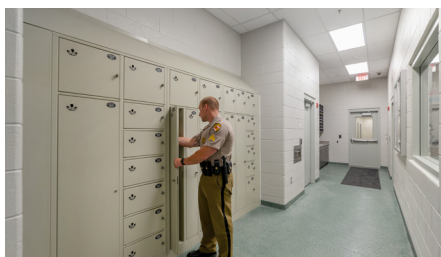
Mike Lewis, **Sheriff**
410-548-4891

PROJECT DETAILS

Completed - 2024
Size - 68,000 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect
Evan Gray, Project Manager



CONTACT

M. Greg Mayes
410-653-4263

PROJECT DETAILS

Completed - 2021
Size - 20,000 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect

PROJECT BRIEF

Cumberland Barrack "C" is Maryland State Police's (MSP) newest 20,000 SF facility providing law enforcement services for a large portion of rural Western Maryland. The project replaced an aged facility that was ridden with functional, safety, and building code issues.

The project provides sworn officers with a duty office overseeing the lobby and detainee environment, specifically designed to optimize sightlines and internal security. The lobby offers access to a training room for Troopers, which community members can also share. Additional law enforcement-specific spaces include a PSAP, Command Officers, Interview Rooms, Polygraph Center, Fire Marshal Suite, Investigations, Fitness, Break, and Bunk Facilities.

The Barrack includes a crime scene processing area and pass-through evidence lockers with dedicated evidence storage. Many passive site security design features are integrated into the building – one such example is elevating the lobby's access point to prevent vehicular intrusion. The building configuration and fencing provide perimeter security for staff parking areas, directly accessing MSP's first-ever sallyport. The sallyport is strategically located to allow troopers to move detainees into the dedicated processing area and holding cells safely and efficiently.

The secure rear lot provides additional access to a new 300' tall communications tower and MSP's fleet maintenance garage center, including a three-bay vehicle maintenance area.



PROJECT BRIEF

The Maryland State Police Barrack V - Berlin consists of a 24,850 SF barrack building and a 4,450 SF garage building. The project includes the phased demolition of the existing police barrack and the construction of the two new buildings on the same site. The new design embodies elements common to Maryland State Police Barracks such as the brick arches, while incorporating more modern design elements.

The new building is focused on expanding and updating the barrack's functions. It includes a large, multipurpose, classroom space with the capacity for 36 personnel that can be divided into two spaces when needed, offices and workrooms, a polygraph office, four private bunk spaces, a fitness room, and processing and detainment spaces for both adults and juveniles. At the rear of the building, there are two vehicle bays; one for vehicle exams, and the other a drive-thru sallyport that connects to the processing and detainment area. There is also a K-9 wash area located off of the sallyport. The barrack side also has tactical and evidence storage spaces.

The other half of the building will expand on the department's current in-house capabilities by dedicating half of their barrack building to forensic laboratory functions. The garage building has a vehicle maintenance area three bays wide with adjacent storage for parts, oil, and tires as well as a fourth bay for washing vehicles. The dedicated communications workshop and equipment is also located in the garage building.

CONTACT

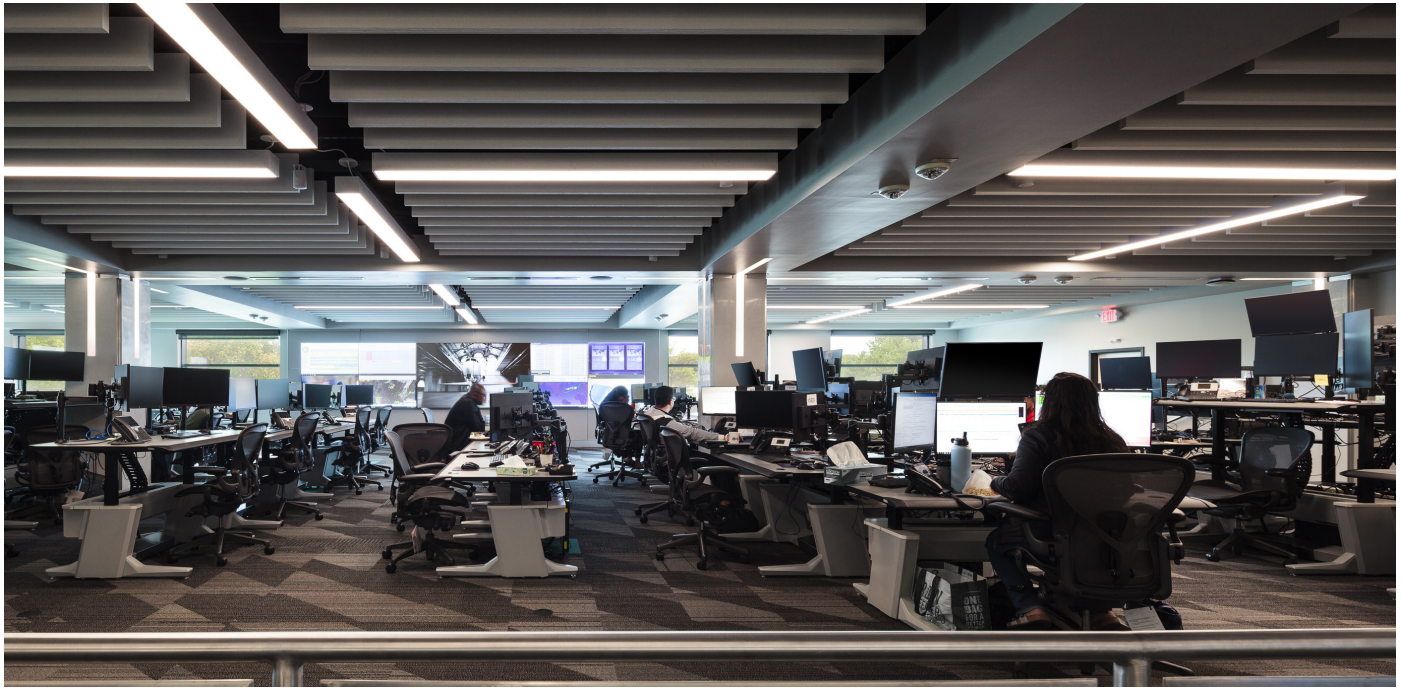
Earl Starner, **Lieutenant /
Commanding Officer**
410-641-3101 Ext. 6107

PROJECT DETAILS

Completed - Est. 2024
Size - 29,300 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect



PROJECT BRIEF

Collins Aerospace Building 4 is a mission critical facility for the nation's aviation security located in Annapolis, Maryland. The project consisted of a 15,300 SF renovation to the second floor within the existing three-story building. MWS worked with Rockwell Collins to provide design and documentation for renovated spaces including an operations center, show-room, conference rooms, communicating stair, break-rooms, training rooms, and bathrooms. The client's main goals for the project included a facility upgrade and modernization of their 24-hour mission critical operations center, a construction process that does not interrupt their existing mission critical systems on the first floor, and the creation of an impressive and inviting show-space to demonstrate their products and services to clientele. The design elements draw inspiration from the aeronautical industry. Concepts such as gravity and weightlessness are implemented throughout. The renovation also includes upgrades to the exterior shell. This includes weightlessness are implemented throughout. The renovation also includes upgrades to the exterior shell. This includes the construction of a new canopy and window replacement. the exterior work was designed to withstand hurricane impact forces. The remainder of the work involves the renovation of mechanical systems and addition of fire protection systems.

CONTACT

Chris Nahas, **Director**
410-266-4009

PROJECT DETAILS

Completed - 2019
Size - 15,300 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect



PROJECT BRIEF

The Baltimore Gas & Electric, Electric Operations Building (BGE EOB) is a top secured, mission critical facility which controls the electrical infrastructure grid for BGE's electrical grid. Manns Woodward Studios worked with BGE to provide design and documentation for renovated spaces such as a lobby, restrooms, café, break room, open office space and private offices, as well as two conference rooms and a large meeting room within the first floor of the building. The client's two main goals for the project were to maintain a secure and safe entrance for this 24-hour facility, as well as to provide flexible spaces that can instantly accommodate BGE storm crews when they must go into "storm mode" within the facility.

MWS explored multiple secure Lobby schemes for the client, and a scheme was selected which incorporates an enlarged secure vestibule entrance, new security desk with views towards the vestibule and parking lot, as well as security turnstiles which create a controlled entrance into the remainder of the facility for badged employees and contractors. The conference rooms and meeting room were designed equipped with video conferencing capabilities, as well as power and data drops within the ceiling for easy access when the rooms get reconfigured in "storm mode." MWS ensured that multiple table layouts were capable within spaces to allow for quick reconfiguration and higher occupant loads on short notice. The open and private office spaces provide connections between these critical spaces, while the café/break room include high top and booth seating with multiple laptop connections for personal work areas, cable TV, and a kitchen.

CONTACT

Brian Cashion
410-470-3474

PROJECT DETAILS

Completed - 2018
Size - 13,237 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect



PROJECT BRIEF

MWS Served as the public safety design consultant in association with Robinson Green Beretta (RGB), a local Rhode Island architect, and was responsible for providing programming and planning services for a new 60,000 SF public safety building for North Providence. The project is a joint-use public safety complex and provides dedicated space for fire, police, EOC, municipal court, and PSAP functions. The complex functions as a “one-stop-shop” for all public safety and municipal court needs.

The two-story building is tailored to fit a tight urban site in the city of North Providence. It has one shared secure two-story lobby that welcomes the public to and directs them to the different agencies that have their own dedicated program space. The structure has “21st-century building systems” and is designed with materials and assemblies intended to last 50 to 100 years with proper maintenance. Shared areas include the lobby, communication center, fitness center, and public bathrooms.

The building was designed as a hardened and secure structure that exemplifies the principles of layered security and user group access control. Police vehicles cruisers are located at the back of the site in a secure staff parking area, which is shrouded by the building itself. A significant site concept incorporated into the back of the site allows for a dedicated pull-through zone and apron. This approach provides Fire and Police Command Apparatus to loop around the back of the site to access multiple drive-through apparatus bays.

CONTACT

Andrew Romero
401-272-1730

PROJECT DETAILS

Completed - 2019
Size - 60,000 SF
Role - Public Safety Consultant

PROJECT TEAM

Robert Manns, Principal Architect
Evan Gray, Project Manager



CONTACT

Daniel Prentice
843-577-6073

PROJECT DETAILS

Completed - 2024
Size - 16,000 SF
Role - Public Safety Consultant

PROJECT TEAM

Robert Manns, Principal Architect
Evan Gray, Project Manager

PROJECT BRIEF

The ever-increasing emergency needs and fast-paced growth of Dorchester County have demanded the need for a new, state-of-the-art Emergency Operations & 911 Communications Center capable of safe and sustained operations for providing effective direction and control in the management of emergencies. The new facility will be the primary EOC and COMM Center for 5 municipalities and support improved communications and coordination assuring continuity of government/operations to provide citizens with basic needs and protecting lives and property.

The facility will consist of administrative offices, EOC, call center, situation room, mobile command bay, living quarters, and support spaces. The new facility will be designed to meet seismic requirements, to endure the wind load of a Category 4-5 hurricane, to withstand a terrorist attack by bombing, and built energy-efficient with an innovative design of wall and roof systems.

A spatial needs assessment was conducted before design phases to assess present and future needs of the facility. The assessment focused on the factors that affect facility size, projections for future needs, potential site, LEED/Green Building Intent, representative facilities, facility survivability, and facility staffing.



CONTACT

John Frank
301-334-7619

PROJECT DETAILS

Completed - Design Complete 2017
Size - 14,500 SF
Role - Architect of Record

PROJECT TEAM

Robert Manns, Principal Architect
Evan Gray, Project Architect

PROJECT BRIEF

This new Emergency Operations Center was designed in two separate phases. Phase I includes the construction of the entire building envelope (approximately 14,500 SF) and a partial fit-out of the interior. This initial build out constitutes the Emergency Operations Center and Public Safety Administration Offices and will occupy approximately 50% of the facility.

Phase II consists of a new primary 911 public safety answering point and the associated spaces to support PSAP operations.

This facility is tailored to meet both the national, regional, and local standards governing public safety facilities and the specific needs and procedures of the community and staff of Garrett County. Key spaces include the Emergency Operations Center with consoles for 40 personnel, training room, drug task force offices and secure entry, administrative offices and 24-hour dispatch center.

TAB 5

Risk Management & Hazard Mitigation Design Approach

H2M's approach to risk management and hazard mitigation is based on proven and recognized Threat and Hazard Identification and Risk Assessment (THIRA) and Stakeholder Preparedness Review (SPR) protocols that integrate into the National Incident Management System (NIMS) framework. It involves identifying threats and hazards, assessing likelihood, context, and impacts of those threats and hazards, establishing capability targets, and designing solutions to mitigate threats and hazards in the most efficient way possible.

Any project in Florida begins with review of the current Florida Division of Emergency Management (FDEM) Enhanced State Hazard Mitigation Plan, which categorizes the state's Natural Hazards and Human-Caused and Technological Hazards. Analysis includes detailed regional evaluation and anticipated impact specifically on first responders. H2M then conducts an Emergency Operations Center (EOC) Initial Questionnaire that collects general risk/threat information for the EOC such as whether an existing NFPA 1660/NFPA 1660 Section 5.2 Risk Assessment exists, proximity to Federal and State critical facilities, expected level of security, expected survivability, EOC activation levels (based on FEMA IS-775), EOC essential functions, EOC personnel needs, and site-specific information.

This process integrates many complimentary and sometimes competing standards. Principal among these are NFPA 1660 Standard for Emergency, Continuity, and Crisis Management: Preparedness, Response, and Recovery, FEMA P-361 Safe Rooms for Tornadoes and Hurricanes, ICC-500 Standard for the Design and Construction of Storm Shelters, Unified Facilities Criteria (UFC) 4-010-01 DoD Minimum Antiterrorism Standards for Buildings, UFC 4-026-01 Design to Resist Forced Entry, FEMA Hazard Mitigation Assistance Program and Policy Guide, and NFPA 1225, Standard for Emergency Services Communications. Balancing the requirements of these within the budget is always a challenge that needs to be addressed for EOCs.

Additionally, there are differences between FEMA P-361 and ICC 500 related to requirements for FEMA funding. Since this project includes grant funding, H2M will be utilizing FEMA P-361 Appendix D to verify conditions required for grant funding.

Checklists and verification are part of the design process. Both FEMA P-361 and ICC 500 require outside engineering review (peer review) for Risk Category IV essential facilities. This peer review is an understood and welcomed part of the process. This helps to ensure that the added complexity of FEMA P-361 and ICC 500 related to debris/load calculations, complex load paths, missile impacts, uplift, rollover, collapse, egress, ventilation, Mechanical/Electrical/Plumbing (MEP) systems, and fire safety are adequately addressed. It has the added benefit of allowing for independent evaluation of forced entry, antiterrorism and system redundancy. H2M is familiar with FEMA P-361 Designer Checklist in Appendix C and the need to verify that all 79 line-items related to general design, wind loading, wall/roof/window protective systems, general hazards, flood hazards, occupancy, accessibility, fire safety, ventilation, plumbing and standby electric service have been addressed if applicable.

H2M architects + engineers
433 River Street, Ste 8002
Troy, NY 12180 | tel 518.765.5105

**EMERGENCY OPERATIONS CENTER (EOC)
INITIAL QUESTIONNAIRE**

****Selections are highlighted in green**
Last Updated 10-26-2025**

A. GENERAL INFORMATION

EOC Population Served: **Estimated 66,000 permanent population (in 2024) plus seasonal summer tourists that can double the population (8 months out of the year)**

Facility is a (Circle One): **Primary** or Secondary EOC (See NFPA 1600-13 Section 6.7.1.1.1)

This will serve as the **primary** EOC for the county supporting the municipalities. There are 3 alternate sites identified.

Has an EOC Executive Policy including vision, mission statement, roles and responsibilities been developed (See NFPA 1600-13 Section 4.4): **Y** / **N**

If Yes Please Include a copy of the Executive Policy.

If No Please provide information on EOC vision, mission statement, and EOC response personnel roles and responsibilities.

Mission Statement to be provided to aid the design.

B. RISK/THREAT

Does an NFPA 1600-13 Section 5.2 Risk Assessment or Other Risk/Treat Assessment Exist: **Y** / **N**

If Yes Please Attach a copy of the assessment

If No Please Provide Evaluation of the following probable Hazards related to the EOC

1. Natural hazards (geologic, meteorological, and biological)
2. Human-caused events (accidental and intentional)
3. Technology-caused events (accidental and intentional)

- The analysis should address the requirements projected for the planned EOC. A checklist of considerations can be found in NFPA 1600-13 Table C.1
- Also include an overall summary of the major facility assets within the EOC zone. These may include for example, industrial facilities, colleges and universities, transportation routes/terminals, government buildings, power plants, medical centers etc.

H2M Architects, Engineers, Geology, Land Surveying and Landscape Architecture, PC (NY) offers its services in NY only
H2M Architects & Engineers, Inc. (NJ) offers its services in NJ, DE, CT, FL, LA, MA, PA, VA only
H2M Associates, Inc. (NC) offers its engineering, land surveying, landscape architecture services in NC only

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H2M will then proceed to an operations-based program (as noted in our project approach) that evaluates the needs of the EOC on a room-by-room basis, specifically based on how the facility responds and operates.

EOC Risk Assessment		
NFPA 1600 Table C.1 Hazards	Rating (Low-High)	Comments
Natural Hazards		
Earthquake	Low	
Landslide, Mudslide, Subsidence	Low	
Meteorological Hazards (Flooding, Flash Flooding)	Low/Medium	Proposed Location not in Floodplain
Water Control Structure	Low	Proposed Location not near flood control structures
Drought	Low/Medium	
Snow, Ice, Hail	Medium/High	
Windstorm, Hurricane, Tornado	Low/Medium	
Extreme Temperatures	Medium	Would not affect structure of building itself, but would affect work conditions inside
Wildland Fire	Low	
Lightning Strikes	Low	
Geomagnetic Storm	Medium/High	Unlikely, but would have extreme effects on EOC Tech
Human Caused Hazards		
Nuclear Powerplant Incident	Low/Medium	Not within EPZ, nearest Nuclear Powerplant within 40 Aeronautical Miles from proposed location

The advantage of H2M's approach is that it can help identify gaps in existing threat assessments. For example, on a recent EOC project, the client had not addressed the evolving threat posed by weaponized drones. An H2M-led threat assessment effort helped identify both the hazard level, which was determined to be high, and cost-effective design mitigation measures.

► Understanding of Potential Hazards

H2M realizes that continuity of operations is paramount with any EOC project. It is often when the continuity of emergency services is most threatened that the greatest demand for EOC services is needed. It is therefore critical to this project that the facility remains fully operational and supportable for the duration of any potential incident. The first Initial analysis indicates that Tropical Cyclone, Severe Thunderstorm, Tornado, Flood, and Extreme Heat are the primary Natural Hazards. Hazardous Materials Incident, Transportation Incident, Human Health Incident, Cyber Incident, Domestic Security Incident, and Civil Disturbance are the most likely Human-Caused and Technological Hazards. It is important to note that Florida State University Climate Center notes that "Florida has the dubious distinction of having a higher frequency of tornadoes per 10,000 square miles than any other state, including Oklahoma!" It is therefore critical that the entire facility, not just a portion thereof, should be fortified as a storm shelter using the FEMA P-361 and ICC-500 standards.

Technical challenges include a relatively small site with limited parking. The assumed two-story solution with parking underneath that formed the basis of the original application for funding presents a unique challenge of how to protect the facility from the underside. While not insurmountable, a detailed discussion of the THIRA will help best solve this situation. Proximity to active runways, need for integration with existing communications infrastructure on-site, and balancing hardening efforts and cost will be additional challenges to address.

► The H2M Advantage

H2M has a dedicated internal controls group known as The CORE of Excellence (CORE). This group is dedicated to efficient Project Management, Quality Control, Quality Assurance, BIM-CAD management, Electronic Integrity Review, and Risk Reduction. The CORE seeks to identify issues early through proper project planning and management. H2M's Project Management Framework, administered by the CORE, is a custom created project management and quality assurance framework that seeks consistency and quality in our professional product. In addition, H2M Project Managers undergo an intensive Project Management Certification course, to homogenize expectations, skillsets, internal controls and work product.

H2M is unique in that our expertise extends to the thought-leadership and creation of standards themselves, such as Project Manager David J. Pacheco, AIA, who helped develop ASTM E2668-10 Standard Guide for EOC Development as part of ASTM E54 Committee on Homeland Security Applications as the only architect nationwide serving on the committee. David was also the author of "Common-Sense Resiliency" which appeared in the September 2025 issue of Florida Fire Service Magazine and explored the hazards and mitigation techniques that should be considered for Florida emergency service facilities. In December 2025, David authored "7 Measures That Define Effective Security Around the Fire Station" that explored how to make fire stations hardened, resilient, safe, and secure without hindering response or community integration.

As outlined in Section 4 earlier, our personnel are intimately familiar with HMA programs and HMGP grant requirements. This understanding helps to align risk management and hazard mitigation design approaches and solutions with funding requirements.

TAB 6

Minority/Women (M/WBE) Participation

H2M is not a certified minority business enterprise.

We understand the importance of meaningful Minority-Owned Business Enterprise (MBE) and Women-Owned Business Enterprise (WBE) participation on our projects and make every effort to integrate them into our project teams with assigned key roles. H2M maintains its own database of over 100 subconsultants and subcontractors with M/WBE and other certifications who have previously worked with, or are qualified to work with, H2M and our clients. This directory is regularly updated through use of the MyFloridaMarketPlace (MFMP) Directory and other M/WBE directories, along with participation in networking events designed to connect certified and prime firms. Additionally, any certified firms who may be interested in doing business with H2M are invited to connect with us via our website, where we can begin the process of vetting a firm's qualifications and connecting them with appropriate members of our project management team.

To comply with M/WBE procurement goals under Florida Statutes 287.09451, the H2M team includes multiple M/WBE-certified firms, including:

- CES Consultants, Inc. (MBE) - Site/Civil Engineering and Permitting
- Longitude Surveyors, LLC (MBE) - Land Surveying
- TSFGEO (MBE) - Geotechnical Engineering



TAB 7

Subconsultants

H2M's specialty subconsultants for this project include:

- Manns Woodward Studios - Mission Critical Specialist
- CES Consultants, Inc. (MBE) - Site/Civil Engineering and Permitting
- Longitude Surveyors, LLC (MBE) - Land Surveying
- TSFGeo (MBE) - Geotechnical Engineering
- YA Group - Cost Estimating

Highlights of our subconsultants' qualifications are provided below.

► Manns Woodward Studios

8098 Sandpiper Circle, Suite H, Nottingham, MD 21236
Contact: Rob Manns, (410) 344-1460
rmanns@mwsarch.com

Founded in 2006 as an architectural firm that specializes in the design of mission-critical and public safety facilities, Manns Woodward Studios has designed countless EOCs, 911 call centers, training centers, police stations, and fire stations. The firm has been deeply involved in the development of best practice standards, spoken at national conferences regarding mission-critical and public safety facility design, and has received numerous awards for excellence in this realm. The firm has designed the Garrett County Emergency Operations Center; Chester County 911 Call Center; North Providence Public Safety Complex; Wicomico Sheriff's Office and 911/Emergency Operations Centers; and Maryland State Police - Cumberland and Berlin barracks. H2M and Manns Woodward is currently working together on the design of a fire station in New Brunswick, NJ.

► CES Consultants, Inc. (MBE)

880 SW 145th Ave, Suite 106, Pembroke Pines, FL 33027
Contact: Rachel Sak, (305) 479-6596, rsak@cesconsult.com

CES Consultants is a minority-owned, full-service engineering firm founded in 2001. The firm is headquartered in Broward County (Pembroke Pines), with additional offices in Miami, West Palm Beach, Tampa, Jacksonville, and Orlando. They deliver incomparable services using cutting-edge innovation while building lasting relationships with municipal, governmental, and private sector clients throughout Florida. Their diverse client base includes state agencies, counties, cities, water management districts, utilities, the Seminole Tribe, school districts, and private clients. CES has been responsible for civil engineering services on the Design Criteria Packages for Fire Stations 13 and 88.

► Longitude Surveyors, LLC (MBE)

7700 North Kendall Drive, Suite 705, Miami, FL 33156
Contact: Eduardo Suarez, PSM, (305) 463-0912,
esuarez@longitudefl.com

Longitude Surveyors, LLC, has been serving South Florida since 2004. The firm's services include a wide range of land surveys, construction surveys and support, 3-D laser scanning and building information modeling, subsurface utility engineering. Longitude has been responsible for land surveying services on the Design Criteria Packages for Fire Stations 13 and 88.

► TSFGeo (MBE)

2765 Vista Parkway, Ste 10, West Palm Beach, FL 33411
Contact: Bonni Funt, (561) 687-8536, bfunt@tsfgeo.com

Tierra South Florida, Inc d/b/a TSFGeo, is a full-service consulting geotechnical engineering, construction materials testing, and inspections firm. Since 2000, their professional team has been committed to providing quality, responsive service while establishing a reputation for adhering to the highest ethical, technical and business standards. With headquarters in West Palm Beach and offices in Miami, Tampa, and Orlando, they own and maintain state-of-the-art laboratories certified by Construction Materials Engineering Council (CMEC) for soil, concrete, and aggregate testing. Additionally, the firm's WPB laboratory is validated by the Florida Department of Transportation (FDOT) and United States Army Corps of Engineers (USACE). TSFGeo has been responsible for geotechnical engineering services on the Design Criteria Packages for Fire Stations 13 and 88.

► YA Group

4588 South Park Ave, Blasdell, NY 14219
Contact: Richard Chudzik, (716) 823-0006,
rich.chudzik@yagroup.com

YA Group, Planning & Construction Advisory Services provides independent construction cost estimating services grounded in decades of hands-on experience across diverse project types and market sectors. While capable of supporting projects from inception through completion, their greatest value lies in delivering objective, reliable cost intelligence during planning and design. These services support budgeting, scope development, pro forma analysis, and ensure stakeholder alignment from the outset. H2M frequently collaborates with YA Group, formerly Trophy Point, on public safety projects.

