

## About Us

M&J is a quality multidisciplinary consulting engineering firm. Since its inception in 2004, M&J has grown to over 90 employees providing engineering, environmental, construction and technology services to a broad range of clients. M&J provides a wide spectrum of professional services mainly, in the area of construction management, construction inspection and Intelligent Transportation Systems (ITS).

Headquartered near Denver, Colorado, employee-owned **CH2M** is a global leader in consulting, design, design-build, operations and program management for government, civil, industrial and energy clients. The firm's work is concentrated in the areas of water, transportation, environment, nuclear, energy, facilities and urban environments. With US\$6.1 billion in revenue and 25,000 employees, CH2M is an industry-leading program management, construction management and design firm, as ranked by *Engineering News-Record* and named a leader in sustainable engineering by Verdantix.

## Contact Us

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## M&J Engineering Leadership

M&J's management team is comprised of highly experienced managers and engineers who focus on growth and stability and strive to build long term relationships with our clients.



**Maqsood Malik, P.E.**  
*President*

- 20+ years of experience
- Masters, CE, New Jersey Institute of Technology
- BS, CE, University of Engineering & Technology Lahore
- Professional Engineer: NY
- Project Manager for M&J ITS and civil projects and brings skills critical to leading M&J staff and achieving client objectives of the clients



**Shawn Kelly, P.E.**  
*Project Manager (PM)  
 Resident Engineer (RE)*

- 26 Years of Experience
- M.B.A, Fordham University, NY, 2002
- BE, Civil Engineering, 1989
- Professional Engineer: NY, NJ
- PM for construction oversight of operational improvements at Alexandria Hamilton Service area
- RE for reconstruction of Newark Bay Bridge on New Jersey Turnpike
- PM for construction inspection for replacement of six bridges in Yonkers, NY



**Manuel Silva, P.E.**  
*Director of  
 Construction Services*

- 32 Years of Experience
- ME, Civil Engineering, Manhattan College
- BE, Civil Engineering, Manhattan College
- Professional Engineer: NY
- Regional Construction Manager for NYSDOT, Region 11, Long Island City, 10 construction contracts
- Area construction supervisor for NYSDOT, Region 11, Long Island City, 24 construction contracts



**Albert Pozotrigo, P.E.**  
*Project Manager (PM),  
 Resident Engineer (RE)*

- 35+ Years of Experience
- BS, Civil Engineering, Rutgers University, 1978
- Professional Engineer: NY, PA, CT
- ASCE President of Met Section (2015)
- RE for Rehabilitation of Alexandria Hamilton Bridge
- RE for Route 99 Post 9/11 World Trade Center Reconstruction Project
- PM for Smart Move 2014 South CCTV cameras, Bluetooth traffic detectors, fiber-optic cables, and ITS



**Alex Constantinides P.E.**  
*Resident Engineer (RE),  
 Project Scheduling  
 and Controls*

- 22 Years of Experience
- MS, Civil Engineering, 2002
- BE, Civil Engineering, 1992
- Professional Engineer: NY
- Primavera Expedition 7.0 for Contract Administration
- Primavera P3 / P6 for CPM Scheduling
- RE for Superstorm Sandy Restoration and Rehabilitation of Tunnel Walls
- RE for ITS Systems Preventative Maintenance and Repairs, New York City
- RE for Queens Midtown Tunnel



**Raouf Girgis**  
*Senior Project  
 Manager (PM),  
 Project Scheduler*

- 25+ Years of Experience
- MS, Civil Engineering, 2002
- BE, Civil Engineering, 1992
- Professional Engineer: NY, PMI, PMP
- Project management, program coordination, construction management, contract administration, project controls and technical support
- Construction PM for USACE at various US military bases in Egypt and Middle East
- PM forward for USACE on design and construction of a pier in Yemen

M&J Engineering, P.C. (M&J), is a certified DBE/MBE/SBE multi-discipline consulting engineering firm. M&J's expertise includes construction management, inspection, and design services related to large scale surface transportation projects such as major and complex bridge and highway reconstruction projects, road and rail/transit tunnels, communication and security systems, and intelligent transportation system (ITS) design. In July 2016, M&J and CH2M entered into a SBA-approved 8(a) Mentor-Protégé relationship to help M&J grow and diversify its service offerings, both technically and geographically.

## M&J Engineering Services



Electrical Engineering



Mechanical Engineering



Technology—Smart Cities,  
 Cyber Security



Construction Engineering and  
 Management—Supervision,  
 Management, and Inspection



Condition Evaluations



Program Management,  
 Project Controls, CPM  
 Scheduling and Construction  
 Cost Estimating



Civil Engineering



Structural Engineering



Transportation, Intelligent  
 Transportation Systems



Environmental Engineering



Water Resources Engineering



Industrial/Occupational  
 Hygiene



## An Example of M&J's Success

On November 23, 2013, M&J received a Special Proclamation Award by former Mayor Michael Bloomberg for being one of the Top Building & Construction Industry leaders in the New York City Metropolitan area.



CH2M has  
**successfully mentored**  
**43 Protégé firms**  
 since 1993

## M&J Engineering History





Protégé Firm **M&J** Select Experience

As members of the engineering profession, M&J exhibits the highest standards of honesty and integrity, adhering to the highest principles of ethical conduct. This business philosophy provides the foundation for all the engineering services we provide and the relationships we hold and grow. As shown in the project summaries below and on our website (<http://mjengineers.com/>), M&J provides a wide array of infrastructure and transportation related engineering services. The North American Industry Classification System (NAICS) codes we currently hold include 541330 - Engineering Services; 541310 - Architectural Services; 541340 - Drafting Services; and, 541370 - Surveying And Mapping (Except Geophysical) Services.



Design Services



ITS Services



CM/CI Services



CI/ITS Services

**Troop G Traffic Management Center**

Client: **NYSDOT**  
Location: **Albany, NY**  
Services:

- Conceptual designs for the TMC operated by the NYSDOT Region 1 and the New York State Police
- Includes a state-of-the-art IP based Digital Video System (Axis)with integration to a large scale Video Wall (Barco)
- Interfaces to new Gig-E IP distribution system along with interfaces to the legacy components
- ATMS software
- Gig-E ethernet/ fiber-optic design/testing
- LAN/WAN configuration
- Video networks
- Interagency
- Rack layouts/server
- Design/configuration
- PS+E/RFP development
- National Transportation Communications for Intelligent Transportation System Protocol (NTCIP)
- Video wall
- System engineering
- Concept planning

**Stamford Urban Transitway ITS**

Client: **City of Stamford**  
Location: **Stamford, CT**  
Services:

- Design, construction support, integration, and field inspection for:
  - 3 Parking Availability Signs
  - 5 Next Bus Arrival Signs
- Extension of the Traffic Signal Priority (TSP) mechanism. The TSP operates by special software developed by M&J that obtains real-time bus information; updated information is provided for each intersection approach at three intersections.
- Concept planning
- Design/plans
- RFP development
- Software
- Integration/testing
- Communications
- Electronic signage/kiosk

**Rehabilitation of Alexander Hamilton Bridge**

Client: **NYSDOT**  
Location: **New York, NY**  
Services:

- Led resident engineering inspection team
- Rehabilitated 1,485-foot-long steel arch bridge with 505-foot-long main span
- Rehabilitated 6 ramp bridges
- Replaced 2 bridges
- Structural strengthening and seismic retrofit
- Bridge widening and new reinforced concrete decks
- Temporary bridges and many temporary shoring towers
- 6 Stages and complex work zone traffic control
- \$20 million park mitigation
- Paperless record keeping
- Project Controls – Oracle, Primavera P6, and Contract Manager

**Queens Midtown Tunnel**

Client: **MTA Bridges and Tunnel**  
Location: **Queens, NY**  
Services:

- Led resident engineering inspection team
- Repair to roadway, concrete liner, roadway ceiling slab and in exhaust and fresh air ducts
- Tunnel leak repairs
- Rehabilitation/replacement of tunnel curbs and gutters
- Replacement of the fire line system
- Replacement of tunnel finishes
- Cleaning and corrosion inhibitor application
- Rehabilitation of the cathodic protection system
- Replacement of the low-tension duct bank system and cables, catwalk and handrail
- Electrical replacement, tunnel traffic control and communication system, CCTV monitoring and fiber optic system
- Installation of emergency exit lights and signage

Mentor Firm **ch2m** Select Experience

At CH2M, everything starts with building relationships of trust and confidence, and with complete commitment to our clients. With that commitment we are dedicated to tackling our client’s toughest infrastructure and natural resource challenges with optimism and innovation. Below are select projects that demonstrate how we have partnered with our clients to deliver and turn challenge into opportunity.



Aviation Design, CI Services



Facilities Services



Sustainability



Roadway and Bridge Design Services

**Main Runway Rehabilitation, Phases 1 and 2**

Client: **U.S. Air Force Materiel Command**  
Location: **Wright-Patterson AFB, OH**  
Services:

- Design, procurement, construction administration, and inspection services
- Replacement of 2,600 foot segment of Runway 5L valued at \$19.2 million
- PCASE pavement design of airfield maintenance and repair project
- Major project with site investigative and full design completed in less than 3 months
- Included complete specifications for concrete reconstruction
- Cost estimating, construction scheduling, and design quality control
- Construction phasing to limit operational impacts to mission
- On-site construction inspection

**Common Mission Control Center (CMCC)**

Client: **USACE Sacramento District**  
Location: **Beale AFB, CA**  
Services:

- Prepared 100% design that included redundant power, HVAC and secure data communications, a complete audio visual system, FFE, a new electrical substation and associated power transmission lines
- Interconnection with other facilities on the site and allowance for future expansion
- Future expansion for HVAC/electrical systems
- Foundation and structural systems for high seismic conditions
- SCIF with multiple SAP areas
- Customized curtain wall systems for select areas of the CMCC
- BIM and CAD data development
- LEED Silver certification
- Construction phase services

**AFCEC Sustainable Infrastructure Assessments (SIA) and BUILDER SMS Assessments, Region IV**

Client: **U.S. Air Force**  
Location: **Air Force-wide, U.S.**  
Services:

- Conducted SIAs at 13 U.S. Air Force installations, encompassing 80.4 million SF assessed
- Developed an integrated approach to delivering the SIA program which included: facility condition assessments (FCA) in BUILDER™ Sustainment Management System (SMS) database, real property inventories, real property installed equipment assessments, energy audits, and space utilization studies
- Populated each installation’s BUILDER database/inventory and ran reports to support the short- and long-range maintenance plans
- Deliverables included 10-year work plans with costs estimates for systems, buildings, and the portfolio at-large

**Hawaii Program of Bridges**

Client: **Central Federal Lands, Highway Division**  
Location: **Hawaiian Islands – Oahu, Kauai, Hawaii**  
Services:

- Project management
- Highway design
- Environmental compliance
- Geotechnical engineering
- Bridge and structural Design
- Hydraulic and hydrologic engineering
- Surveying and mapping Services
- Right-of-way and utility services
- Transportation planning and traffic engineering
- Quality assurance/quality control
- Innovative delivery methods
- Project scoping
- Context sensitive solutions