

COUNTY OF ALBANY

COST PROPOSAL FORM

PROPOSAL IDENTIFICATION:

Title: NEW YORK STATE LICENSED ARCHITECT/ENGINEER TO PROVIDE CONSULTING, DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR THE DESIGN OF THE NEW ALBANY COUNTY SHERIFF'S E-911 EMERGENCY MANAGEMENT FACILITY AT THEIR CLARKSVILLE PUBLIC SAFETY CAMPUS

RFP Number: 2020-098

New E-911 Emergency Management Facility Project

a. Design Development Phase	\$ 225,500.00
b. Construction Document Phase	\$ 213,375.00
c. Bidding and Contract Negotiation phase	\$ 16,175.00
d. Contract Administration Phase	\$ 183,200.00

NOT TO EXCEED TOTAL LUMP SUM FEE (a+b+c+d)

\$ 638,250.00

(All reimbursable expenses must be included in total lump sum fee)

e. Alternate Fee – Construction Management Phase \$ 175,000.00 Not to Exceed

COMPANY: H2M architects + engineers

ADDRESS: 3 Lear Jet Lane, Suite 205

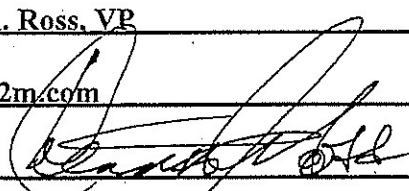
CITY, STATE, ZIP: Latham, NY 12110

TEL. NO.: 518-765-5105

FEDERAL TAX ID NO.: 11-2235604

REPRESENTATIVE: Dennis A. Ross, VP

E-MAIL: dross@h2m.com

SIGNATURE AND TITLE  V.P.

DATE: 09/22/2020



architects + engineers

3 Lear Jet Lane, Ste 205
Latham, NY 12110 | tel 518.765.5105



Fee Proposal – RFP 2020-098, Albany County Sheriff E-911 Emergency Management Facility

Lump Sum Fee Total

\$638,250.00

Reimbursable expenses are included in the lump sum fee

Additional Lump Sum Fee for CM (Enhanced Construction Administration) \$175,000.00 NTE

Notes to Compensation:

- Due to the current requirements and issues caused by the Corona Virus, we anticipate some meetings may be virtual as needed and where feasible. Construction Administration will be in-person visits.
- The County is a public entity subject to NYS Labor Department wage rate guidelines and the bidding requirements of General Municipal Law Article 101-5A (Wicks Law) requiring a minimum of four (4) separate prime contractors for a construction project. Budgets and design will reflect these requirements.
- This proposal is based on a single-story building of an approximate range of 8,000 – 12,000 sq. ft. The total combined hard and soft cost budget for the County is \$10 mil.
- Consultants such as survey, geotechnical, commissioning, estimating are included in the lump sum fee. Please refer to the various "scopes of work" specified below.
- The County may or may not impose its approval process on the project. We assume SEQRA, Health Department, DEC and similar agency approvals will be required and are included in our proposal.
- Our Team will use the NY State Building Code requirement for BMF facilities as "essential facilities" in our recommendations for the designs and budgets.
- The Contract Administration Phase is assumed to be twelve (12) months with two (2) months for project closeout.
- Our specifications will utilize AIA documents for all aspects of the project.
- For this proposal and budgeting purposes, we assume that the site has soil that is International Code seismic classification of 'C' or better.
- Designs will comply with applicable provisions of the American Disabilities Act (ADA).
- Billing will be monthly in accordance with the percentage of work completed the prior month. H2M will maintain the copyright and intellectual property for the design. The County will own the work product.
- We assume the County is tax exempt and will supply a certificate stating this.
- Services for off-site design, hazardous materials removals, environmental studies, traffic studies and other services are not anticipated and therefore not included in our proposal.
- This proposal is valid for ninety (90) days.

A Description of Various Services are Described Below. Typical Structural and MEP services (both with resiliency, hardening and NFPA 1221 recommendations) have not been detailed.

Enhanced Construction Management – AKW Construction Consulting, Inc.:

- Pre-Bid review of Construction Documents for quality control.
- Bid Review, Contractor Qualifications and recommendations to Owner.
- Project Supervision and Management. Oversee job progress and product quality. Ensure positive construction scheduling and progress and adherence to Contract Documents and Standards.
- Establish and maintain a master Construction Progress schedule by working with all contractors.
- Work closely with Owner and Team to identify and resolve construction issues.
- Review and approve Schedules of Values for determining percentages of completion for requisitions.
- Review and negotiation of all Change Order Requests. Make recommendations to Owner based on careful review of all added work costs and options. Ensure fair pricing on legitimate change orders.
- Project/Coordination/Foreman's Meetings: Attend meetings to coordinate work between all contractors, produce Project Meeting Minutes, and troubleshoot immediate and foreseen issues.
- Maintain records in an efficient manner including all correspondence, Contract Documents, daily logs, monthly requisitions, change orders, As-Built Drawings, shop drawings, product data, warranties, samples, color schedules, etc.
- Project Photos: Record Project progress, subsurface conditions, below slabs, above ceilings and in walls for future reference.
- Punch Lists: Complete punch list at the close of the Project; follow through with contractors to ensure all items have been satisfactorily completed.
- Project Closeout: Finalize and closeout all contracts including negotiating settlement of outstanding change orders, requisitions and retainage. Compile for the Owner, all contractor closeout documentation.

Commissioning – Fusion Systems Engineering DPC Acceptance Phase:

- Develop the Commissioning plan. Consult with Owner and Project Team regarding specific issues that should be addressed or incorporated into the commission process.
- The Commissioning plan shall include:
 - Narrative of Cx activities.
 - List of equipment to be commissioned, sequences of operations, prerequisites, and description of test procedure.
 - List of functions to be tested.
 - Conditions tests will be performed.
 - Measurable criteria for conformance.
- Coordinate the commissioning work during the acceptance phase of the project.

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TAB 6

ATTACHMENT "A"
NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO
SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.

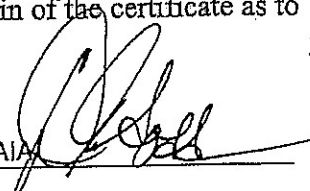
(2) Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where (1), (2), and (3) above have not been complied with; provided, however, that in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where (1), (2), and (3) above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation


Dennis A. Ross, AIA
Signature

Vice President
Title

H2M architects + engineers
Company Name

8/26/2020
Date

ATTACHMENT "B"
ACKNOWLEDGMENT BY PROPOSER

If Individual or Individuals:

STATE OF _____)
COUNTY OF _____) SS.:

On this _____ day of _____, 20____, before me personally appeared _____ to me known and known to me to be the same person(s) described in and who executed the within instrument, and he (or they severally) acknowledged to me that he (or they) executed the same.

Notary Public, State of _____

Qualified in _____

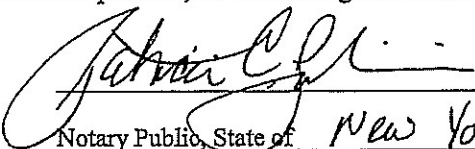
Commission Expires _____

If Corporation:

STATE OF New York)
COUNTY OF Albany) SS.:

On this 26th day of August, 2020, before me personally appeared Dennis A. Ross, AIA to me known, who, being by me sworn, did say that he resides at (give address) 323 Highgate Drive, Slingerlands, NY 12159; that he is the (give title) Vice President of the (name of corporation) H2M architects + engineers, the corporation described in and which executed the above instrument; that he knows the seal of the corporation, and that the seal affixed to the instrument is such corporate seal; that it was so affixed by order of the board of directors of the corporation, and that he signed his name thereto by like order.

PATRICIA C. BIANCHINI
Notary Public, State of New York
Registration #01B16265321
Qualified In Albany County
Commission Expires July 9, 2024


Notary Public, State of New York

Qualified in Albany County

Commission Expires 7/9/2024

If Partnership:

STATE OF _____)
COUNTY OF _____) SS.:

On the _____ day of _____, 20____, before me personally came _____, to me known to be the individual who executed the foregoing, and who, being duly sworn, did depose and say that he / she is a partner of the firm of _____ and that he / she has the authority to sign the same, and acknowledged that he / she executed the same as the act and deed of said partnership.

Notary Public, State of _____

Qualified in _____

Commission Expires _____

ATTACHMENT "C"
ALBANY COUNTY
VENDOR RESPONSIBILITY QUESTIONNAIRE

1. VENDOR IS: ☒ PRIME CONTRACTOR			
2. VENDOR'S LEGAL BUSINESS NAME H2M Architects, Engineers, Land Surveying and Landscape Architecture, DPC		3. IDENTIFICATION NUMBERS a) FEIN # 11-2235604 b) DUNS #05-499-2334	
4. D/B/A - Doing Business As (if applicable) & COUNTY FIELD: H2M architects + engineers		5. WEBSITE ADDRESS (if applicable) www.h2m.com	
6. ADDRESS OF PRIMARY PLACE OF BUSINESS/EXECUTIVE OFFICE 538 Broad Hollow Road, 4th Floor East, Melville, NY 11747		7. TELEPHONE NUMBER 631-756-8000	8. FAX NUMBER 631-694-4122
9. ADDRESS OF PRIMARY PLACE OF BUSINESS/EXECUTIVE OFFICE <i>IN NEW YORK STATE, if different from above</i>		10. TELEPHONE NUMBER	11. FAX NUMBER
12. AUTHORIZED CONTACT FOR THIS QUESTIONNAIRE Name Dennis A. Ross, AIA Title Vice President Telephone Number 518-765-5105 Fax Number 518-765-5107 e-mail dross@h2m.com			
13. LIST ALL OF THE VENDOR'S PRINCIPAL OWNERS.			
a) NAME Please see attached	TITLE	b) NAME	TITLE
c) NAME	TITLE	d) NAME	TITLE
A DETAILED EXPLANATION IS REQUIRED FOR EACH QUESTION ANSWERED WITH A "YES," AND MUST BE PROVIDED AS AN ATTACHMENT TO THE COMPLETED QUESTIONNAIRE. YOU MUST PROVIDE ADEQUATE DETAILS OR DOCUMENTS TO AID THE COUNTY IN MAKING A DETERMINATION OF VENDOR RESPONSIBILITY. PLEASE NUMBER EACH RESPONSE TO MATCH THE QUESTION NUMBER.			
14. DOES THE VENDOR USE, OR HAS IT USED IN THE PAST FIVE (5) YEARS, ANY OTHER BUSINESS NAME, FEIN, or D/B/A OTHER THAN THOSE LISTED IN ITEMS 2-4 ABOVE? List all other business name(s), Federal Employer Identification Number(s) or any D/B/A names and the dates that these names or numbers were/are in use. Explain the relationship to the vendor. ☐ Yes ☒ No 			
15. ARE THERE ANY INDIVIDUALS NOW SERVING IN A MANAGERIAL OR CONSULTING CAPACITY TO THE VENDOR, INCLUDING PRINCIPAL OWNERS AND OFFICERS, WHO NOW SERVE OR IN THE PAST ONE (1) YEARS HAVE SERVED AS: a) An elected or appointed public official or officer? <i>List each individual's name, business title, the name of the organization and position elected or appointed to, and dates of service</i> b) An officer of any political party organization in Albany County, whether paid or unpaid? <i>List each individual's name, business title or consulting capacity and the official political position held with applicable service dates.</i> ☒ Yes ☐ No ☐ Yes ☒ No			

Response to #15A – Elected or Appointed Public Official or Officer

- David J. Pacheco, Vice President of H2M, is an elected Fire Commissioner for Niskayuna Fire District No.1, which is in neighboring Schenectady County. Serving from September 2018 to present (current term expires 12/31/23).
- David L. Mammina, Vice President of H2M, is an appointed Chairman of the Zoning Board of Appeals for the Town of North Hempstead. He has been serving in this position since 1992.

Response to #13, List all of the vendor's principal owners:

NAME	TITLE
Richard W. Humann, P.E.	Chairman, Chief Executive Office, President
Joseph M. Mottola, AIA	Chief Operating Officer, Executive Vice President, Secretary
Dennis M. Kelleher, P.E.	Chief Market Director, Executive Vice President
Steven J. Hyman, P.E.	Principal Office Director, Executive Vice President
Gregory C. Smith, CPA	Chief Financial Officer, Executive Vice President, Treasurer

16.	WITHIN THE PAST (5) YEARS, HAS THE VENDOR, ANY INDIVIDUALS SERVING IN MANAGERIAL OR CONSULTING CAPACITY, PRINCIPAL OWNERS, OFFICERS, MAJOR STOCKHOLDER(S) (10% OR MORE OF THE VOTING SHARES FOR PUBLICLY TRADED COMPANIES, 25% OR MORE OF THE SHARES FOR ALL OTHER COMPANIES), AFFILIATE OR ANY PERSON INVOLVED IN THE BIDDING OR CONTRACTING PROCESS:	☐ Yes ☒ No
a)	1. been suspended, debarred or terminated by a local, state or federal authority in connection with a contract or contracting process; 2. been disqualified for cause as a bidder on any permit, license, concession franchise or lease; 3. entered into an agreement to a voluntary exclusion from bidding/contracting; 4. had a bid rejected on an Albany County contract for failure to comply with the MacBride Fair Employment Principles; 5. had a low bid rejected on a local, state or federal contract for failure to meet statutory affirmative action or M/WBB requirements on a previously held contract; 6. had status as a Women's Business Enterprise, Minority Business Enterprise or Disadvantaged Business Enterprise, de-certified, revoked or forfeited; 7. been subject to an administrative proceeding or civil action seeking specific performance or restitution in connection with any local, state or federal government contract; 8. been denied an award of a local, state or federal government contract, had a contract suspended or had a contract terminated for non-responsibility; or 9. had a local, state or federal government contract suspended or terminated for cause prior to the completion of the term of the contract.	☐ Yes ☒ No
b)	been indicted, convicted, received a judgment against them or a grant of immunity for any business-related conduct constituting a crime under local, state or federal law including but not limited to, fraud extortion, bribery, racketeering, price-fixing, bid collusion or any crime related to truthfulness and/or business conduct?	☒ Yes ☐ No
c)	been issued a citation, notice, violation order, or are pending an administrative hearing or proceeding or determination of violations of: 1. federal, state or local health laws, rules or regulations.	☒ Yes ☐ No
17.	IN THE PAST THREE (3) YEARS, HAS THE VENDOR OR ITS AFFILIATES HAD ANY CLAIMS, JUDGMENTS, INJUNCTIONS, LIENS, FINES OR PENALTIES SECURED BY ANY GOVERNMENTAL AGENCY? Indicate if this is applicable to the submitting vendor or affiliate. State whether the situation(s) was a claim, judgment, injunction, lien or other with an explanation. Provide the name(s) and address(es) of the agency, the amount of the original obligation and outstanding balance. If any of these items are open, unsatisfied, indicate the status of each item as "open" or "unsatisfied."	☒ Yes ☐ No
18.	DURING THE PAST THREE (3) YEARS, HAS THE VENDOR FAILED TO: a) file returns or pay any applicable federal, state or city taxes? <i>Identify the taxing jurisdiction, type of tax, liability year(s), and tax liability amount the vendor failed to file/pay and the current status of the liability.</i> b) file returns or pay New York State unemployment insurance? <i>Indicate the years the vendor failed to file/pay the insurance and the current status of the liability.</i> c) Property Tax <i>Indicate the years the vendor failed to file.</i>	☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☒ No
19.	HAVE ANY BANKRUPTCY PROCEEDINGS BEEN INITIATED BY OR AGAINST THE VENDOR OR ITS AFFILIATES WITHIN THE PAST SEVEN (7) YEARS (WHETHER OR NOT CLOSED) OR IS ANY BANKRUPTCY PROCEEDING PENDING BY OR AGAINST THE VENDOR OR ITS AFFILIATES REGARDLESS OF THE DATE OF FILING? Indicate if this is applicable to the submitting vendor or affiliate. If it is an affiliate, include the affiliate's name and FEIN. Provide the court name, address and docket number. Indicate if the proceedings have been initiated, remain pending or have been closed. If closed, provide the date closed.	☐ Yes ☒ No
20.	IS THE VENDOR CURRENTLY INSOLVENT, OR DOES VENDOR CURRENTLY HAVE REASON TO BELIEVE THAT AN INVOLUNTARY BANKRUPTCY PROCEEDING MAY BE BROUGHT AGAINST IT? Provide financial information to support the vendor's current position, for example, Current Ratio, Debt Ratio, Age of Accounts Payable, Cash Flow and any documents that will provide the agency with an understanding of the vendor's situation.	☐ Yes ☒ No

Response to #16C

Date	Agency	Action
Pending Matters		
	None	
Resolved Matters		
2019	City of New York Dept of Environmental Protection	H2M was cited for failing to timely file an air monitoring report upon completion of project. H2M has filed the report and paid a stipulated penalty of \$1,500.
2019	City of New York Dept of Buildings	As architect of record for many Sandy-damaged homes in NYS Build-it-Back program, H2M was erroneously cited in two instances where contractors received a DOB stop work order. One violation against H2M was dismissed in advance of, and the other violation was dismissed at the administrative hearing.
2019	State of New Jersey Office of Attorney General	After investigating a report of an H2M employee allegedly providing unlicensed services in the state, the State Board of Professional Engineers and Land Surveyors found "insufficient cause" to take any action against H2M.
2018	Commonwealth of Pennsylvania Office of General Counsel	After inquiring into allegations of H2M practicing architecture on a lapsed license, the Prosecution Division closed the matter without taking any action against H2M.
2018	City of New York Dept of Environmental Protection	H2M paid a \$1,500 settlement penalty for a piece of air monitoring equipment missing its calibration sticker.
2017	City of New York Dept of Environmental Protection	As the Permit Holder for an asbestos remediation monitoring job, H2M was issued a \$1,000 civil penalty for its subcontractor's slight misplacement of a piece of air monitoring equipment.
2015	State of New York Office of General Service	H2M attended a show cause / responsibility meeting with, and submitted follow up materials to, NYS OGS concerning allegations of unsecured tools/documents at a correctional facility. The State's concerns were satisfied.

Response to #17

YEAR	PARTIES	SITUATION	DESCRIPTION	STATUS
2019	Kneeland Construction v. Mt. Pleasant School District v. H2M	Claim	Plaintiff (P) contractor sued H2M client (school district) for nonpayment of change orders on an elevator replacement project. District filed third-party action against H2M alleging lack of specificity in design documents as cause of construction change orders. H2M answered that docs were in sufficient detail and fine fitment is contractor's responsibility.	Case settled with no finding of fault against H2M.

21.	IN THE PAST FIVE (5) YEARS, HAS THE VENDOR OR ANY AFFILIATES ¹ :	☐ Yes	☒ No
	a) defaulted or been terminated on, or had its surety called upon to complete, any contract (public or private) awarded;		
Indicate if this is applicable to the submitting vendor or affiliate. Detail the situation(s) that gave rise to the negative action, any corrective action taken by the vendor and the name of the contracting agency.			

¹ "Affiliate" meaning: (a) any entity in which the vendor owns more than 50% of the voting stock; (b) any individual, entity or group of principal owners or officers who own more than 50% of the voting stock of the vendor; or (c) any entity whose voting stock is more than 50% owned by the same individual, entity or group described in clause (b). In addition, if a vendor owns less than 50% of the voting stock of another entity, but directs or has the right to direct such entity's daily operations, that entity will be an "affiliate" for purposes of this questionnaire.

FEIN

CERTIFICATION:

- Has not altered the content of the questions in the questionnaire in any manner;
- Has read and understands all of the items contained in the questionnaire and any pages attached by the submitting vendor;
- Has supplied full and complete responses to each item therein to the best of his/her knowledge, information ad belief;
- Is knowledgeable about the submitting vendor's business and operations;
- Understands that Albany County will rely on the information supplied in the questionnaire when entering into a contract with the vendor;
- Is under duty to notify the Albany County Purchasing Division of any material changes to the vendor's responses.

VP

Signature of ~~Owner~~

Printed Name of Signatory Dennis A. Ross, AIA

Title Vice President

Notary Public

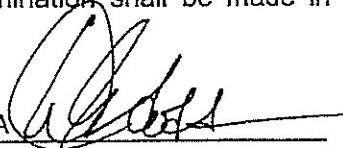
Dennis A. Ross, AIA

Printed Name _____

PATRICIA C. BIANCHINI Signature
Notary Public, State of New York
Registration #01BI6265321 8/26/2020
Qualified In Albany County Date
Commission Expires July 9, 2024

Attachment "D"
Certification Pursuant to Section 103-g
Of the New York State
General Municipal Law

- A. By submission of this bid/proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid/Proposal shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the bidder/proposer cannot make the foregoing certification set forth in Paragraph A above, the bidder/proposer shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefor. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid/proposal is made, or his designee, may award a bid/proposal, on a case by case business under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder/Proposer has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

Dennis A. Ross, AIA 

Signature

Vice President

Title

8/26/2020

Date

H2M architects + engineers

Company Name

Sheet MS4-1: Bidder/Proposer Certification Statement (to be used with Section 34 Part A – General Contracts)

As a bidder seeking to provide services on behalf of Albany County, I certify under penalty of law that I understand and agree to comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4 Permit) and Albany County Local Law 7 of 2007, and agree to implement any Best Management Practices or corrective actions identified by Albany County or an authorized representative thereof as necessary to maintain compliance. I understand that Albany County must comply with the terms and conditions of the aforementioned MS4 Permit, and that it is unlawful for any person to directly or indirectly cause or contribute to a violation of water quality standards. I am also aware that County Local Law 7 of 2007 prohibits any activities that cause or contribute to a violation of the County's SPDES permit. Further, I understand that any non-compliance by Albany County will not diminish, eliminate or lessen my own liability.

Name of Third Party Entity: H2M architects + engineers

Address: 3 Lear Jet Lane, Suite 205, Latham, NY 12110

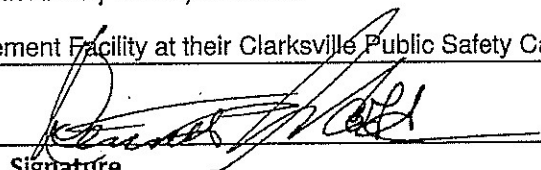
Phone Number(s): (518) 765-5105

Description of activities to be performed by your firm or organization within Albany County are related to the Albany County Storm Water Management Program (SWMP) (include any activities that have the potential to generate or prevent pollution and/or affect water quality):

None

Description of where the work is to be performed within Albany County facilities:

New Albany County Sheriff's E-911 Emergency Management Facility at their Clarksville Public Safety Campus


Signature

Dennis A. Ross, AIA

Printed Name

Vice President

Title

8/26/2020

Date

BORMANN

RFP #2020-098: NYS Licensed A/E to Provide Consulting, Design, and Construction Administration Services for the Design of the New ACSO E-911 Emergency Management Facility at their Clarksville Public Safety Campus

Proposal Rating Worksheet

Reviewer: Leon Bormann, Chief Deputy ACSO

	ANGERNAME	ARCHITECTURE +		ASBLEY McGRAW		C&S COMPANIES		CSARCH		C.T. MALE	
	Weight	Rate	Score	Rate	Score	Rate	Score	Rate	Score	Rate	Score
Proposer's comprehension of the required (work) Scope of Services.	25%	4	1	4	1	3	0.75	4	1	4	1
Prior experience in similar building construction projects.	25%	3	0.75	3	0.75	3	0.75	3	0.75	4	1
Professional Qualifications	10%	3	0.3	4	0.4	3	0.3	3	0.3	4	0.4
Total proposed price which must include all expenses (New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%	(\$529,900 / \$530,000) \$500,000		(\$595,000 / \$175,750) \$757,750		(\$1,374,113 / \$175,000) \$1,450,113		(\$559,854 / \$330,000) \$889,854		(\$541,400 / \$304,000) \$845,400	
Client References.	10%	2	0.2	2	0.2	3	0.3	3	0.3	3	0.3
TOTALS:	100%		3.45		3.85		3		3.25		3.9

NOTES:

	H2M	LABELLA		LOTHROP		MEMASI		WCGS	
	Weight	Rate	Score	Rate	Score	Rate	Score	Rate	Score
Proposer's comprehension of the required (work) Scope of Services.	25%	5	1.25	4	1	3	0.75	5	1.25
Prior experience in similar building construction projects.	25%	5	1.25	3	0.75	3	0.75	4	1
Professional Qualifications	10%	4	0.4	4	0.4	3	0.3	3	0.3
Total proposed price which must include all expenses (New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%	(\$638,200 / \$175,000) \$813,200		(\$686,900 / \$125,000) \$911,900		(\$774,900 / \$400,000) \$1,234,900		(\$630,435 / \$176,000) \$806,435	
Client References.	10%	5	0.5	4	0.4	3	0.3	3	0.3
TOTALS:	100%		4.9		3.45		3.3		3.75

NOTES:

Memoal - Numerous items were not included in the pricing. Section V Compensation page 71 stated construction planned for 8 months with \$22,000.00 for each additional month, this is estimated to be a 12 month project. Price did not include the cost for the Geotechnical exploration, site survey and hydrant flow test. They also indicated an additional fee for an Audio Visual consultant. We requested that all cost be included in the bid.

Rating Worksheet

RFP #2820-096: NYS Licensed A/E to Provide Consulting, Design, and Construction Administration Services for the Design of the New ACSO E-911 Emergency Management Facility at their Clarksville Public Safety Campus

Proposal Rating Worksheet

Reviewer: MLM

		ANGERNAME			ARCHITECTURE +			ASHLEY McGRAW			C&S COMPANIES			CSARCH			C.T. MALE								
	Weight		Rate	Score		Rate	Score		Rate	Score		Rate	Score		Rate	Score		Rate	Score						
Proposer's comprehension of the required (work) Scope of Services.	25%		4	1		3.5	0.875		4	1		4	1		5	1.25		4	1						
Prior experience in similar building construction projects.	25%		3	0.75		4	1		4	1		3	0.75		5	1.25		4	1						
Professional Qualifications	10%		4	0.4		5	0.5		4	0.4		4	0.4		5	0.5		4	0.4						
Total proposed price which must include all expenses (New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%		(5379,900 / 5338,000) \$41,900	4	1.2		(5395,000 / 5172,728) \$212,272	5	1.5		(51,274,113 / 5174,000) \$1,400,113	1	0.3		(5559,856 / 5338,000) \$221,856	3.5	1.05		(551,466 / 5504,900) \$4,953,434	4	1.2		(7794,500 / 5575,000) \$1,219,500	2	0.6
Client References.	10%		5	0.5		5	0.5		5	0.5		5	0.5		5	0.5		5	0.5						
TOTALS:	100%			3.85			4.375			3.2			3.7			4.7			3.5						

NOTES:

		JRM		LABELLA		LOTHROP		MEMASI		WGS						
	Weight	Rate	Score	Rate	Score	Rate	Score	Rate	Score	Rate	Score					
Proposer's comprehension of the required (work) Scope of Services.	25%	5	1.25	4	1	4	1	3.5	0.875	5	1.25					
Prior experience in similar building construction projects.	25%	5	1.25	4	1	3	0.75	5	1.25	4	1					
Professional Qualifications	10%	4	0.4	4	0.4	4	0.4	4	0.4	5	0.5					
Total proposed price which must include all expenses (New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%	(\$438,250 / \$175,000) \$263,250	4	1.2	(\$446,000 / \$215,000) \$231,000	3.5	1.05	(\$774,900 / \$450,000) \$1,224,900	2	0.6	(\$774,435 / \$174,000) \$286,435	4	1.2	(\$777,900 / \$444,000) \$1,231,900	2	0.6
Client References.	10%	5	0.5	5	0.5	5	0.5	5	0.5	5	0.5					
TOTALS:	100%		4.6		3.95		3.25		4.225		3.85					

NOTES:

Rating Worksheet

RFP #2020-098: NYS Licensed A/E to Provide Consulting, Design, and Construction Administration Services for the Design of the New ACSO E-911 Emergency Management Facility at their Clarksville Public Safety Campus

Proposal Rating Worksheet

Reviewer: John J. Neri

Reviewer: John J. Neri																			
		ANGERNAME			ARCHITECTURE + 3		ASHLEY McGRAW			C&S COMPANIES			CSARCH 1			C.T. MALE			
	Weight		Rate	Score		Rate	Score		Rate	Score		Rate	Score		Rate	Score		Rate	Score
Proposer's comprehension of the required (work) Scope of Services.	25%		4	1		4	1		4	1		4	1		4	1		4	1
Prior experience in similar building construction projects.	25%		2	0.5		3	0.75		4	1		3	0.75		5	1.25		3	0.75
Professional Qualifications	10%		4	0.4		4	0.4		4	0.4		4	0.4		5	0.5		4	0.4
Total proposed price which must include all expenses.(New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%	(\$519,900 / \$338,000) \$859,900		1.2	(\$595,000 / \$172,750) \$767,750	5	1.5	(\$1,274,113 / \$176,000) \$1,450,113	1	0.3	(\$559,856 / \$330,000) \$889,856	4	1.2	(\$541,600 / \$304,000) \$845,600	4	1.2	(\$796,960 / \$575,800) \$1,372,760	2	0.6
Client References.	10%		3	0.3		3	0.3		3	0.3		3	0.3		3	0.3		3	0.3
TOTALS:	100%			3.4			3.95			3			3.65			4.25			3.05

NOTES:

NOTES:

		H2M 2				LaBella		LOTHROP				MEMASI				WCCS			
	Weight		Rate	Score		Rate	Score		Rate	Score		Rate	Score		Rate	Score			
Proposer's comprehension of the required (work) Scope of Services.	25%		4	1		4	1		4	1		4	1		4	1			
Prior experience in similar building construction projects.	25%		5	1.25		3	0.75		4	1		4	1		4	1			
Professional Qualifications	10%		4	0.4		4	0.4		4	0.4		4	0.4		4	0.4			
Total proposed price which must include all expenses (New E-911 Emergency Management Facility Project/Alternate Construction Management Fee)	30%	(\$638,250 / \$175,000) \$813,250	4	1.2	(\$686,000 / \$225,000) \$911,000	4	1.2	(\$774,900 / \$450,000) \$1,224,900	2	0.6	(\$630,435 / \$176,000) \$806,435	4	1.2	(\$774,700 / \$444,800) \$1,219,500	2	0.6			
Client References.	10%		3	0.3		3	0.3		3	0.3		3	0.3		3	0.3			
TOTALS:	100%			4.15			3.65			3.3			3.9			3.3			

NOTES:

August 2, 2019

SEI Design Group
187 Wolf Road, Suite 304
Albany, New York 12205



Attn: Mr. Russell Brady, RA
P: (518) 435-2467
E: rob@seidesigngroup.com

Re: Geotechnical Engineering Report
Vehicle Warehouse
Clarksville, New York
Terracon Project No. JB195182

Dear Mr. Brady:

We have completed the Geotechnical Engineering services for the above-referenced project. This study was performed in general accordance with Dente Group Proposal No. PJB195182 which was approved by your office on 7/15/19. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations, floor slabs, and pavements for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,
Terracon Consultants-NY, Inc.

Edward C. Gravelle, P.E.
Senior Engineer

Fred A. Dente, P.E.
Principal



REPORT TOPICS

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Note: This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the **GeoReport** logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES
SITE LOCATION AND EXPLORATION PLANS
EXPLORATION RESULTS
SUPPORTING INFORMATION

Note: Refer to each individual Attachment for a listing of contents.

Geotechnical Engineering Report

Vehicle Warehouse

Albany County Sheriff Facility

Clarksville, New York

Terracon Project No. JB195182

August 2, 2019

INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed Vehicle Warehouse Building to be located at Albany County Sheriff Facility in Clarksville, New York. The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- Groundwater conditions
- Site preparation and earthwork
- Pavement design and construction
- Foundation design and construction
- Floor slab design and construction
- Seismic site classification per NYSBC
- Frost considerations

The geotechnical engineering Scope of Services for this project included the advancement of eight test borings to depths ranging from approximately 2.4 to 5.1 feet below existing site grades, site reconnaissance by a Geotechnical Engineer, and preparation of this report.

Maps showing the site and test boring locations are shown in the **Site Location and Exploration Plans** section.

SITE CONDITIONS

The Albany County Sheriff's facility is located on the site of the former Clarksville Elementary School at 58 Verda Avenue in Clarksville, New York. The new building is planned in the northeast corner of this site, north of an existing parking lot and immediately west of Graceland Avenue, in an area occupied by open lawns. The ground surface is relatively level to gently sloping with surface elevations in the approximate range of 197 to 199 feet.

The USDA Soil Survey of Albany County has mapped the surficial soils at the site as the Farmington silt loam. These soils are typically composed of silt loam to a depth of between 19 and 23 inches where unweathered bedrock should be present. On the Geologic Map of New York State, bedrock at the site is identified as Onondaga Limestone – Schoharie Formation Shale and Limestone.

We completed previous investigations for additions to the former Clarksville Elementary School and found various depths of fill material over native soils composed of clayey silt with trace to little sand and gravel. Bedrock was encountered at depths of 3.6 and 7.1 feet in two test borings. The rock was composed of Limestone with shale partings.

PROJECT DESCRIPTION

It is our understanding that the project will entail the construction of a pre-engineered steel building measuring about 80 by 130 feet in plan dimensions. An entrance road from Graceland Avenue will adjoin the north side of the building and access a new parking lot planned at the rear of the building. A smaller parking lot is also planned in front of the building along Graceland Avenue. We assume the pavements will be subject primarily to automobile traffic with occasional trucks.

The new building will be a single story, slab-on-grade structure with the ground floor elevation to be selected in the future after topographic surveys of the area are completed. For the purposes of this report, we have assumed that the floor elevation may be about 199 to 200 feet to set the building near to the elevation of Graceland Avenue. This will require the placement of nil to three feet of fill to establish the site grades.

No building load information was provided to us. For the purposes of this evaluation it has been assumed that column loads will be less than 150 kips and wall load less than 2 kips per foot.

GEOTECHNICAL CHARACTERIZATION

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, geologic setting and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical calculations and evaluation of site preparation and foundation options. Conditions encountered at each exploration point are indicated on the individual logs. The individual logs can be found in the **Exploration Results** and the GeoModel in the **Figures** sections of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at each boring location, refer to the GeoModel. Overall, these conditions were relatively similar to those expected based upon the USDA Albany County Soil Survey and our previous site explorations as discussed in the preceding section of this report.

Model Layer	Layer Name	General Description
1	Surficial Materials	Topsoil
2	Native Soils	Clayey Silt with varying amount sand and gravel
3	Bedrock	Shale or Limestone

The topsoil depths at the test locations were in the range of 2 to 6 inches. The underlying clayey silt layer extended to the surface of bedrock found at depths of 2.2 to 4.8 feet as tabulated below. The upper 12 to 24 inches of the clayey silt was of a soft consistency, and at greater depths the soils became medium stiff to very stiff consistency. The borings were ended when sample spoon and/or auger refusal was met at depths in the range of 2.4 to 5.1 feet. No coring was performed to determine the composition of the bedrock, however, based upon published geologic mapping the rock should be composed of limestone or shale.

Boring No.	Ground Surface El. (ft)	Bedrock Surface Depth (ft)	Bedrock Surface El. (ft)
B-1	199.2	2.2	197.0
B-2	198.6	3.0	195.6
B-3	198.4	4.8	193.6
B-4	198.3	3.0	195.3
B-5	198.0	3.5	194.5
B-6	197.4	3.0	194.4
B-7	197.7	4.7	193.0
B-8	197.2	3.0	194.2

Note: Elevations are referenced to the rim of a catch-basin southwest from the proposed building pad. A rim elevation equal to 195.24 feet was assumed based upon site plans provided to us.

Groundwater was present only in test boring B-1 where it appeared to be perched over the bedrock surface at a depth of 2.3 feet. No measurable groundwater or wet soil samples were found in the remaining test borings.

Fluctuations in groundwater level may occur because of seasonal variations in the amount of rainfall, runoff, and other factors that may differ from those present at the time the explorations were performed. Additionally, grade adjustments on and around the site, as well as surrounding drainage improvements, may affect the water table.

GEOTECHNICAL OVERVIEW

The site was found to be covered with about two to five feet of clayey silt overlying bedrock. Because nil to about three feet of fill may be placed to establish the ground floor elevation, conventional shallow spread foundations which are set at the standard frost depth may bear upon a combination of bedrock and native clayey silt soil up to a few feet thick. This condition should be acceptable provided that the foundations are designed for a soil bearing pressure, the bearing surfaces are prepared as recommended in the following report sections, and differential settlements up to about one-half inch between soil and rock bearing foundations can be tolerated.

It should be noted that the upper one or two feet of soil at this site may be very soft and unstable, particularly if wet weather conditions prevail prior to and/or during construction. Contingencies should be included in the project budgets for undercutting and replacement of soft subgrade soils. The

quantity of undercutting required can be reduced by planning for the site development during a seasonal dry period if this is possible. The soft subgrade conditions will also require a thicker than normal pavement section along with installation of edge drains and/or swales.

The following sections of this report provide more detailed recommendations to assist in planning for the geotechnical related aspects of the project. We should be provided with the opportunity to review plans and specifications prior to their release for bidding to confirm that our recommendations were properly understood and implemented, and to allow us to refine our recommendations, if warranted, based upon the final design. The **General Comments** section provides an understanding of the report limitations.

SEISMIC CONSIDERATIONS

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC).

Seismic Site Classification

Based on the soil properties encountered at the site and as described on the exploration logs and the results of shear wave velocity testing completed in similar subsurface profiles in the general project area, it is our professional opinion that the **Seismic Site Classification is B**. Subsurface explorations at this site were extended to a maximum depth of about 5 feet. The site properties below the boring depth to 100 feet were estimated based on our experience and knowledge of geologic conditions of the general area.

Liquefaction

Liquefaction of the soils should not occur in response to earthquake motions.

EARTHWORK

Earthwork is anticipated to include stripping of topsoil, proof-rolling and stabilization of the subgrade surfaces, and associated fill and backfill work. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria, as necessary, to render the site in the state considered in our geotechnical engineering evaluation for foundations, floor slabs and pavements.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the

information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

Site Preparation

If possible, site preparation should be planned during a seasonal dry period to reduce the adverse impacts of soft/wet subgrade conditions on the construction activities. The contractors should take precautions to maintain the subgrades in a relatively dry and firm condition. This may include sloping the subgrade surfaces to promote runoff away from the site, installation of interceptor trenches or drainage swales if necessary to divert surface runoff or perched groundwater away from the site, and restricting construction equipment from travelling directly over the subgrade soils when they are wet.

Site preparation should begin with clearing and stripping of the topsoil and surficial organic matter from the building pad and pavement areas. Prior to placing fills to raise site grades and/or after cuts are made to the plan subgrade elevations, the subgrades should be proof-rolled using a steel drum roller with a static weight of at least ten tons. The roller should operate in its non-vibratory mode, unless requested otherwise by the Geotechnical Engineer observing the work, and travel at a speed not exceeding three feet per second (two miles per hour). Soft areas identified by the proof-rolling should be investigated to determine the cause and stabilized accordingly.

It should be understood the subgrade soils were soft at the time of investigation and undercuts may be required and should be planned for to establish a more stable base for construction.

Fill Material Types

Imported Structural Fill should be used as fill and backfill within the proposed building pad and pavement areas. The imported fill should consist of bank-run sand and gravel which meets the limits of gradation given below. The imported materials should be free of recycled concrete, asphalt, bricks, glass, and pyritic shale rock.

IMPORTED STRUCTURAL FILL

Sieve Size	Percent Finer
3"	100
1/4"	30 to 75
No. 40	5 to 40
No. 200	0 to 10

The on-site soils are not suitable for reuse and should be wasted off-site or in landscape areas only.

Fill Compaction Requirements

Fills beneath the building pad and pavements should be placed in uniform loose layers no more than about one-foot thick where heavy vibratory compaction equipment is used. Smaller lifts should be used where hand operated equipment is required for compaction. Each lift should be compacted to no less than 95 percent of the maximum dry density for the soil which is established by the Modified Proctor Compaction Test, ASTM D1557. In landscape areas, the compaction may be reduced to 90 percent of maximum dry density.

Temporary Excavation Slopes

As a minimum, temporary excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, "Excavations" and its appendices, for an OSHA Type B soil, and in accordance with any applicable local, and/or state regulations. The contractor should be aware that slope height, slope inclination, and excavation depth should in no instance exceed OSHA regulations. Steeper temporary slopes may be allowable if excavations are made into the bedrock. The allowable slope in rock should be determined by the Geotechnical Engineer based upon the conditions exposed in the excavations. OSHA regulations are strictly enforced and if they are not followed, the owner, contractor, and/or earthwork and utility subcontractor could be liable and subject to substantial penalties.

Construction Observation and Testing

The earthwork efforts should be monitored under the direction of the Geotechnical Engineer. Monitoring should include documentation of adequate removal of topsoil and unsuitable soils, proof-rolling, and mitigation of areas delineated by the proof-roll to require mitigation.

Each lift of compacted fill should be tested, evaluated, and reworked, as necessary, until approved by the Geotechnical Engineer prior to placement of additional lifts. Each lift of fill should be tested for density and water content at a frequency of at least one test for every 2,500 square feet of compacted fill in the building areas. One density and water content test should be performed for every 50 linear feet of compacted utility trench backfill.

Foundation bearing grades and subgrades for floor slabs and pavements should be evaluated under the direction of the Geotechnical Engineer. If unanticipated conditions are encountered, the Geotechnical Engineer should prescribe mitigation options.

It should be understood the actual subsurface conditions that exist will only be known when the site is excavated. The continuation of the Geotechnical Engineer into the construction phase of the project will allow for validation of the subsurface conditions assumed to exist for this study and the design recommended in this report, including assessing variations, providing recommendations and reviewing associated design changes.

SHALLOW FOUNDATIONS

If the site has been prepared in accordance with the requirements noted previously in **Earthwork** and below under the **Foundation Construction Considerations**, the following design parameters may be assumed.

Design Parameters – Compressive Loads

Item	Description
Maximum Net Allowable Bearing Pressure ^{1, 2}	3,000 psf
Required Bearing Stratum ³	Either bedrock or base of crushed stone placed over undisturbed native soils.
Minimum Foundation Dimensions	Columns: 36 inches Continuous: 18 inches
Ultimate Coefficient of Sliding Friction ⁴	0.45 (crushed stone base on native soils) 0.70 (bedrock)
Minimum Embedment below Finished Grade ⁵	Exterior footings: 48 inches Interior footings in heated areas: 24 inches ⁶ Interior footings in unheated areas: 48 inches
Estimated Total Settlement from Structural Loads ²	Less than about one-half (1/2) inch for soil bearing Negligible for rock bearing
Estimated Differential Settlement ^{2, 7}	Less than about one-half (1/2) inch

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied.
2. Values provided are for maximum loads noted in **Project Description**. The settlements should occur relatively quickly as construction is completed and each load increment is applied.
3. The bearing grades should be prepared per the recommendations presented below in the **Foundation Construction Considerations**.
4. Can be used to compute sliding resistance where foundations are placed on suitable soil/materials. Should be neglected for foundations subject to net uplift conditions.
5. Embedment necessary to minimize the effects of frost and/or seasonal water content variations.
6. The 24" embedment depth for interior footings does not apply to thickened slabs supporting interior walls. The embedment depth for interior foundations must also comply with local building code regulations.
7. Differential settlements between rock and soil bearing foundations.

Foundation Construction Considerations

The foundation bearing grades should consist either of bedrock which is cleaned of loose soil, mud and rock, or a minimum 12-inch thick base of crushed stone placed over the undisturbed native soils. In the latter case, the native soils should be trimmed to final grade using a backhoe equipped with a smooth-edged bucket. A stabilization fabric (Mirafi 500X or equivalent) should be placed on the subgrade after it is approved by the Geotechnical Engineer. The crushed stone

should be an ASTM C33 Blend 57 aggregate. The stone may be placed as a single lift and its surface thoroughly compacted using a mechanical tamper or reversible plate. The thickness of the crushed stone base may be modified by the Geotechnical Engineer based upon the conditions encountered at the time of construction.

All final bearing grades should be relatively firm, stable, and free of loose soil, mud, water and frost.

The Geotechnical Engineer should approve the condition of the foundation bearing grades immediately prior to placement of the reinforcing steel and concrete.

FLOOR SLABS

Floor Slab Design Parameters

The floor slabs should be constructed upon a minimum 12-inch thick subbase of imported Structural Fill and 6-inch thick base of crushed stone (ASTM C33 Blend 57 aggregate). A vapor retarder, Stego Wrap 15 mil Class A or equivalent, should be placed per ACI 302 and/or ACI 360 guidelines if a moisture sensitive coating or covering will be placed on the slabs. If no moisture sensitive coatings or coverings are planned, the vapor retarder may be deleted, and the base course changed to a crusher-run stone meeting the requirements for NYSDOT Item #304.12.

A vertical modulus of subgrade reaction equal to 150 pounds per cubic inch (pci) at the top of the stone base layer may be assumed for the slab design purposes.

Floor Slab Construction Considerations

Even with the base course and fabric recommended above, we caution that the subgrades may not support repeated heavy construction traffic or lulls without suffering rutting and weaving that may be especially severe during wet seasons. If the grades are to be repeatedly traversed by these types of equipment, they should be reinforced as necessary to support them. Areas which become disturbed should be excavated and stabilized accordingly.

The Geotechnical Engineer should approve the condition of the floor slab subgrades immediately prior to placement of the floor slab support course, reinforcing steel, and concrete. Attention should be paid to high traffic areas that were rutted and disturbed earlier, and to areas where backfilled trenches are located.

PAVEMENTS

General Pavement Comments

Pavement designs are provided for the site assuming the traffic will generally consist of automobiles with occasional delivery type trucks. A critical aspect of pavement performance is site preparation. Pavement designs noted in this section must be applied to the site which has been prepared as recommended in the **Earthwork** section.

The pavement sections recommended below were developed before site grading plans were prepared. A modification of the pavement sections may be possible based upon our review of the grading plans when they are available.

Pavement Section Thicknesses

Assuming the pavements are subject primarily to automobile traffic with occasional light delivery trucks, we suggest the following flexible pavement sections for consideration. The Light Section may be used for automobile parking and Heavy Section for entrance lanes and area subject to repeated truck traffic.

Asphaltic Concrete Design			
Layer	NYSDOT Item Number ¹	Thickness (inches)	
		Light Duty	Heavy Duty
Asphaltic Concrete Top	#402.127303	1.0	1.5
Asphaltic Concrete Binder	#402.257903	2.0	2.5
Crusher-Run Stone Base	#304.12	12 ²	18 ²
Stabilization Fabric ³	N/A	Single Ply	Single Ply

1. All materials should meet the current New York State Department of Transportation (NYSDOT) Standard Specifications for Construction and Materials.
2. The thickness of the base course may be reduced to 6" for Light Duty and 12" for Heavy Duty sections where it is underlain by at least 12" of Imported Structural Fill.
3. Stabilization Fabric should be Mirafi 500X or approved equivalent.

Pavement Drainage

Pavements should be sloped to provide rapid drainage of surface water. Water allowed to pond on or adjacent to the pavements could saturate the subgrade and contribute to premature pavement deterioration. Trench drains and/or swales should be provided along the pavement edges.

Pavement Maintenance

The pavement sections represent minimum recommended thicknesses and, as such, periodic maintenance should be anticipated. Therefore, preventive maintenance should be planned and provided for through an on-going pavement management program. Maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment. Maintenance consists of both localized maintenance (e.g., crack and joint sealing and patching) and global maintenance (e.g., surface sealing).

Temporary Construction Access Roadways

The recommended pavement sections are not designed to support heavy construction traffic which may require thicker sections. The contractor shall construct temporary haul and construction roadways and routes on site as appropriate for the specific weather conditions and equipment anticipated at the site.

Frost Considerations

It should be understood that sidewalks and pavements constructed upon the site's soils will heave as frost seasonally penetrates the subgrades. The magnitude of the seasonal heave will vary with many factors and result in differential movements. As the frost leaves the ground, the sidewalks and pavements will settle back, but not entirely in all areas, and this may accentuate the differential movements across the pavement areas. Where curbs, walks, and storm drains meet these pavements, these differential heave and settlements may result in undesirable movements and create trip hazards. To limit the magnitude of heave and the creation of these uneven joints to generally tolerable magnitudes for most winters, a 16-inch thick crushed stone base course, composed of Blend 57 aggregate, may be placed beneath the sensitive sidewalk, drive, etc. areas. The stone layer must have an underdrain placed within it.

GENERAL COMMENTS

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements and design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

FIGURES

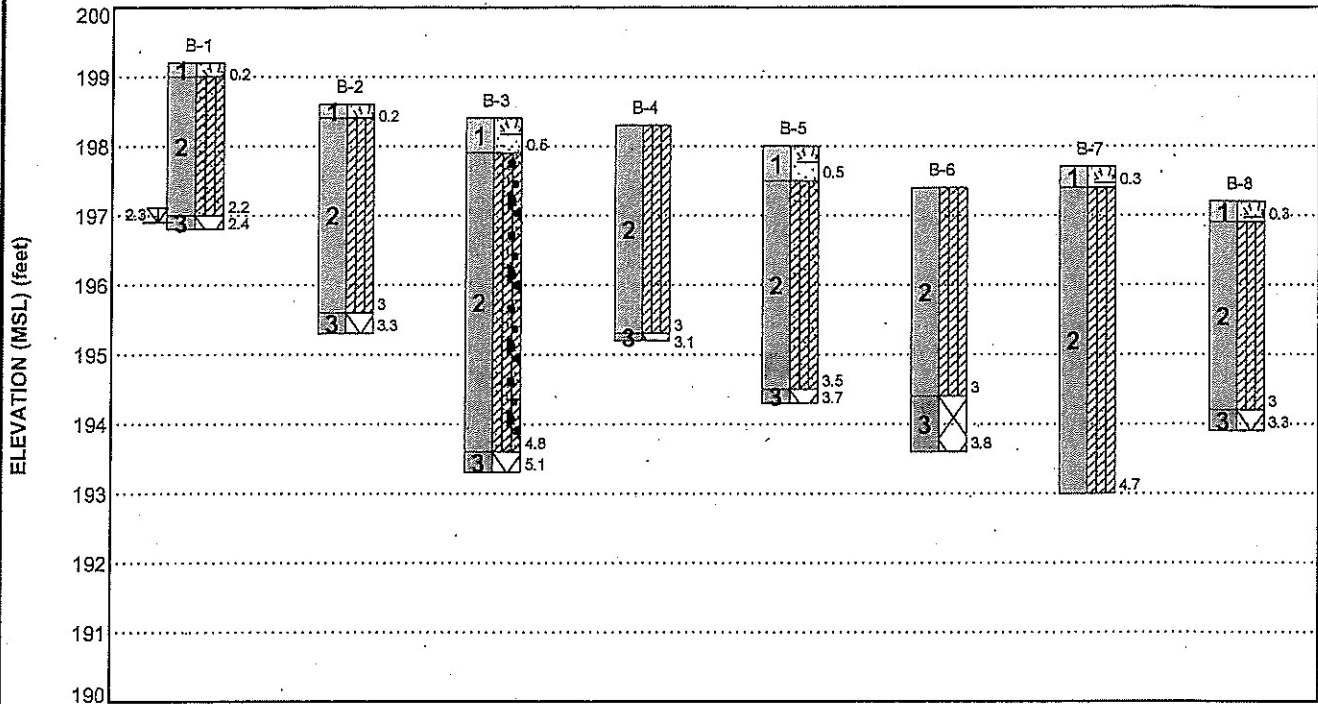
Contents:

GeoModel

GEOMODEL

Vehicle Warehouse ■ Clarksville, New York
Terracon Project No. JB195182

Terracon
GeoReport



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Surficial Materials	Topsoil
2	Native Soils	Clayey Silt with varying amount sand and gravel
3	Bedrock	Shale or Limestone

LEGEND

- Topsoil
- Silty Clay
- Sandy Silty Clay
- Sandy Silty Clay with Gravel
- Weathered Rock

Second Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:

Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES

Field Exploration

Number of Borings	Boring Depth (feet)	Location
8	2.4 to 5.1	Building Pad

Boring Layout and Elevations: The test boring locations were established by Terracon relative to existing site features. Approximate ground surface elevations were obtained by Terracon using standard differential leveling techniques, referenced to a benchmark elevation 195.24 feet for the rim of a catch-basin in the lawn area southwest from the proposed building pad.

Test Boring Subsurface Exploration Procedures: The test borings were made using a standard rotary drill rig equipped with hollow stem augers. As the augers were advanced, the soils were sampled on a nearly continuous basis in accordance with the Standard Method for Penetration Test and Split-Barrel Sampling of Soils, ASTM D1586. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30-inches. The number of blows required to advance the sampling spoon the middle 12-inches of a normal 24-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. The borings were ended when sampling spoon and/or auger refusal was encountered. Upon completion of drilling the boreholes were backfilled with auger cuttings.

Our exploration team prepared field boring logs as part of the drilling operations. These field logs included visual classifications of the materials encountered during drilling and our interpretation of the subsurface conditions between samples. The sampling depths, penetration distances, and other sampling information was recorded on the field boring logs.

The soil samples were placed in appropriate containers and taken to our soil laboratory for classification by a Geotechnical Engineer. Final boring logs were prepared, and they represent the Geotechnical Engineer's interpretation of the field logs and include modifications based on observations and of the samples in our laboratory.

SITE LOCATION AND EXPLORATION PLANS

Contents:

Site Location Plan

Exploration Plan

Note: All attachments are one page unless noted above.

SITE LOCATION

Vehicle Warehouse ■ Clarksville, New York

August 2, 2019 ■ Terracon Project No. JB195182

Terracon
GeoReport

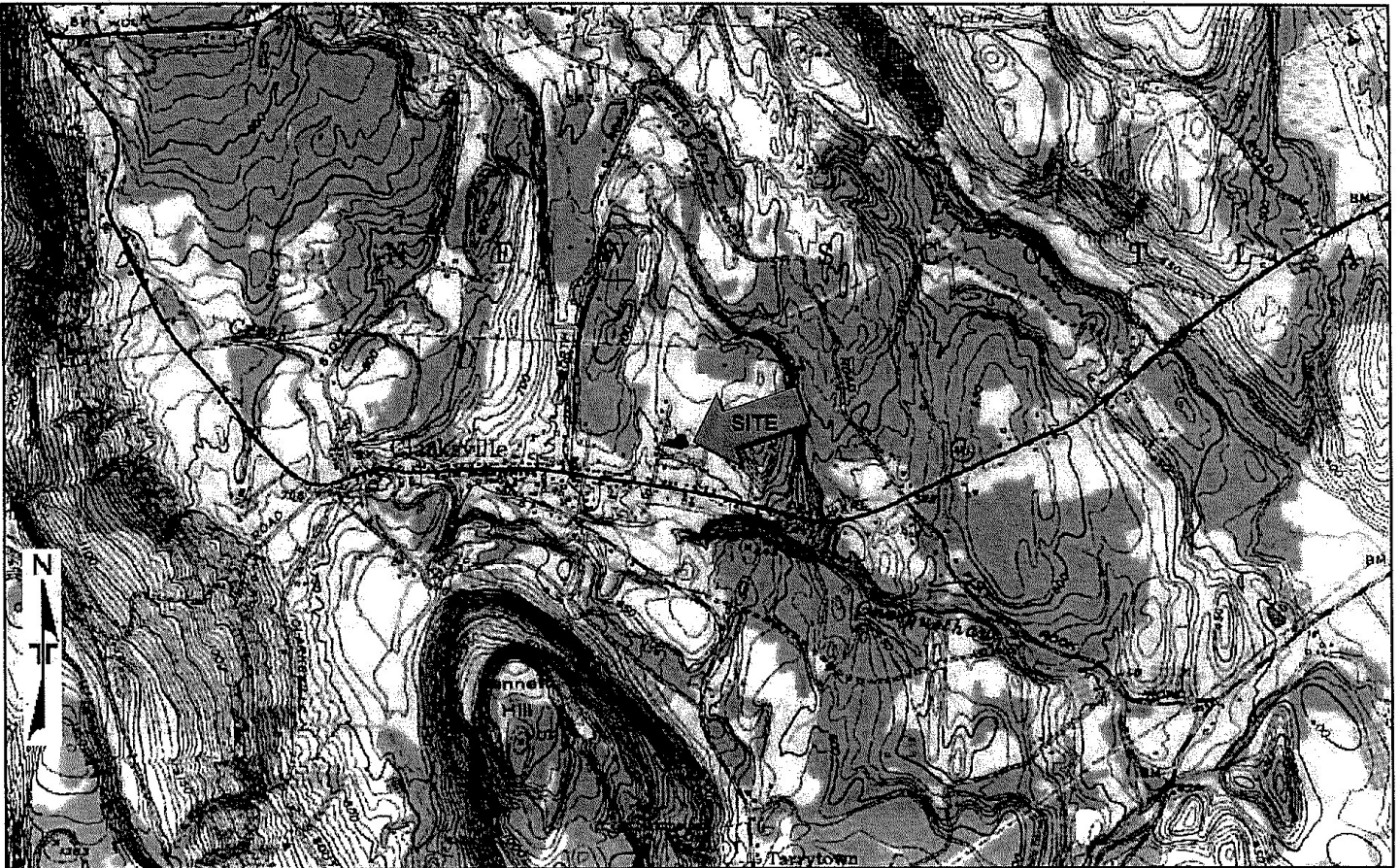


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: CLARKSVILLE, NY (1/1/1880).

EXPLORATION PLAN

Vehicle Warehouse ■ Clarksville, New York
August 2, 2019 ■ Terracon Project No. JB195182

Terracon
GeoReport

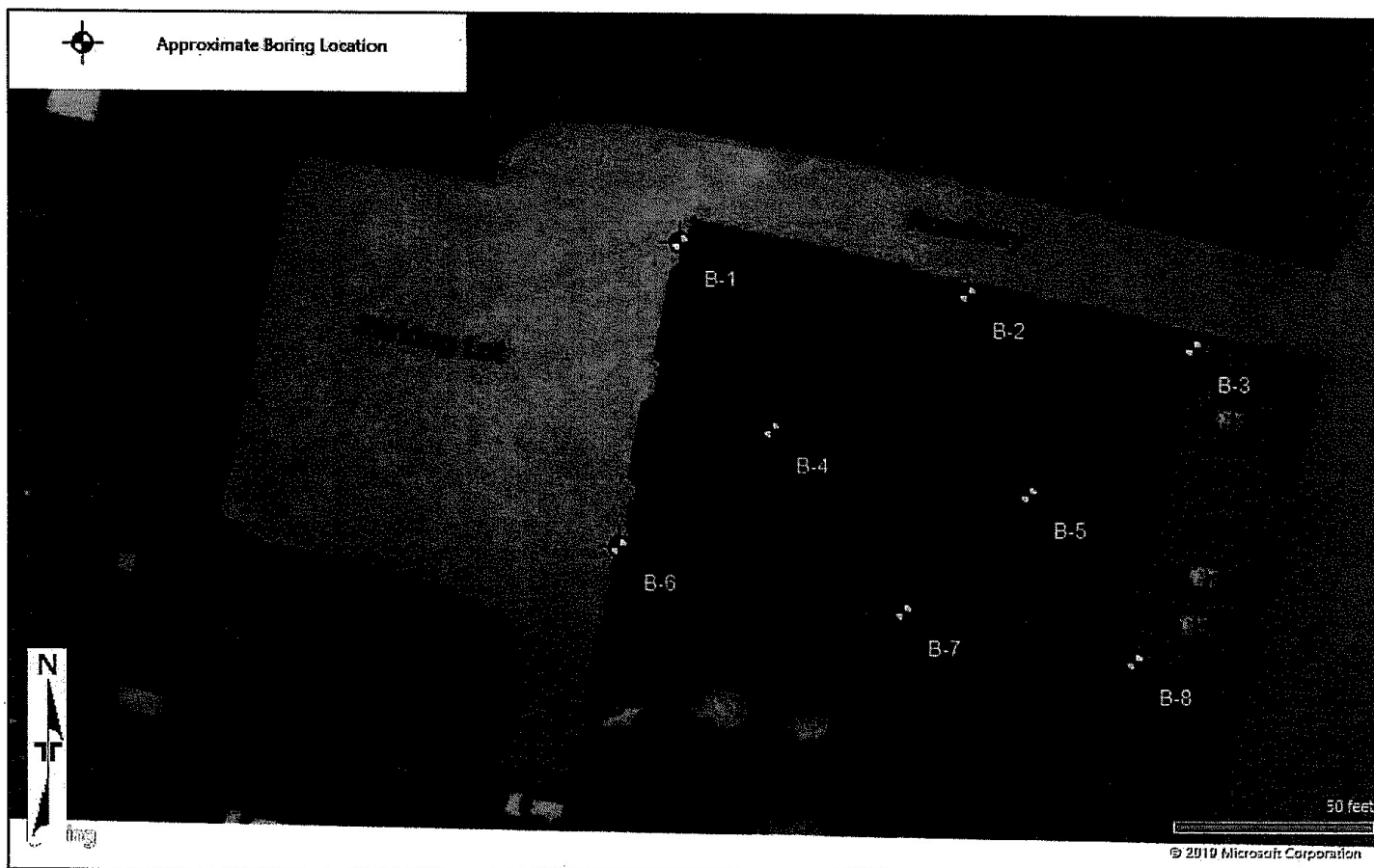


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

BASED ON AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS AND
THE PROVIDED SITE DEVELOPMENT PLAN.

EXPLORATION RESULTS

Contents:

Boring Logs (B-1 through B-8) (8 pages)

Note: All attachments are one page unless noted above.

BORING LOG NO. B-1

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5773° Longitude: -73.9539°	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
		DEPTH					
1		0.2' TOPSOIL					
2		CLAYEY SANDY SILT (CL-ML), trace gravel, mottled, brown to gray, moist to wet, medium-stiff				22	1-2-3-4 N=5
3		2.2'					
4		2.4' SHALE FRAGMENTS, gray, very dense				4	50/4"
		Sampler Refusal on Bedrock at 2.4 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

2.3 feet after boring completion

Terracon

594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loisele

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIFF.GPJ TERRACON_DATATEMPLATE.GDT 8/2/18

BORING LOG NO. B-2

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5772° Longitude: -73.9536°	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1		DEPTH					
2		0.2' TOPSOIL					
3		CLAYEY SILT (CL-ML), trace sand and gravel, mottled, brown to gray, moist, soft				12	2-2-2-3 N=4
4		3.0' SHALE FRAGMENTS, gray, very dense				16	3-4-50/3"
5		3.3' Sampler Refusal on Bedrock at 3.3 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loisel

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIF.GPJ TERRACON_DATATEMPLATE.CDT 8/2/19

BORING LOG NO. B-3

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5772° Longitude: -73.9534°	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1		0.5 TOPSOIL					
2		CLAYEY SILT WITH SAND AND GRAVEL (CL-ML), mottled, brown to gray, moist, soft to very stiff				19	WH-1-2-4 N=3
						19	3-10-10-12 N=20
3		4.8 SHALE FRAGMENTS, gray, very dense 5.1 Sampler Refusal on Bedrock at 5.1 Feet	5			1	50/1"

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

WH = Weight of Hammer

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon

594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loisele

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIF.GPJ TERRACON_DATATEMPLATE.GDT 8/2/19

BORING LOG NO. B-4

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5772° Longitude: -73.9538°	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
		DEPTH					
2		CLAYEY SILT (CL-ML), trace sand and gravel, mottled, brown to gray, moist, soft				22	WH/12"-2-3 N=2
		3.0				13	3-6-50/1"
		3.1 SHALE FRAGMENTS, gray, very dense Sampler Refusal on Bedrock at 3.1 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:
WH = Weight of Hammer

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loiselle

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIFF.GPJ TERRACON_DATATEMPLATE.GDT 8/2/19

BORING LOG NO. B-5

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5771° Longitude: -73.9536°	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1	0.5	TOPSOIL					
2		CLAYEY SANDY SILT (CL-ML), trace gravel, brown, moist, medium-stiff				8	WH-2-4-6 N=6
3	3.5	SHALE FRAGMENTS, gray, very dense				6	5-5-18-50/2" N=23
4	3.7	Sampler Refusal on Bedrock at 3.7 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

WH = Weight of Hammer

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon

594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loiselle

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIF.GPJ TERRACON_DATATEMPLATE.GDT 8/2/19

BORING LOG NO. B-6

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.5771° Longitude: -73.9539°	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
2		CLAYEY SILT (CL-ML), brown, moist, soft				10	1-2-2-4 N=4
3		SHALE FRAGMENTS, gray, very dense				5	1-4-50/4"
		Auger and Sampler Refusal on Bedrock at 3.8 Feet				0	50/0"

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loisele

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIFF GPJ TERRACON_DATATEMPLATE.GDT 8/2/19

BORING LOG NO. B-7

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.577° Longitude: -73.9537°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS
		DEPTH					
		0.3 TOPSOIL					
		CLAYEY SILT (CL-ML), trace sand and gravel, mottled, brown to brown, moist, soft to very stiff				19	1-2-2-4 N=4
						20	3-6-17-9 N=23
		4.7				0	50/0"
		No sample recovery at 4.7 feet Auger and Sampler Refusal on Bedrock at 4.7 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon

594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loiselle

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL .JB195182 ALBANY CO. SHERIF.GPJ TERRACON_DATATEMPLATE.GDT 8/2/19

BORING LOG NO. B-8

Page 1 of 1

PROJECT: Vehicle Warehouse

CLIENT: SEI Design Group
Albany, New York

SITE: 58 Verda Avenue
Clarksville, New York

MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 42.577° Longitude: -73.9535°	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1		DEPTH					
2		0.3 TOPSOIL					
3		CLAYEY SILT (CL-ML), trace sand and gravel, mottled, brown to gray, moist, soft				14	WH/12"-2-3 N=2
4		3.0				14	5-6-50/3"
5		3.3 SHALE FRAGMENTS, gray, very dense Sampler Refusal on Bedrock at 3.3 Feet					

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3 1/4" ID HSA

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).

Notes:

WH = Weight of Hammer

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

See Supporting Information for explanation of symbols and abbreviations.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
594 Broadway
Watervliet, NY

Boring Started: 07-25-2019

Boring Completed: 07-25-2019

Drill Rig: CME 45

Driller: S. Loiselte

Project No.: JB195182

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL JB195182 ALBANY CO. SHERIF.GPJ TERRACON_DATATEMPLATE.GDT 9/2/19

SUPPORTING INFORMATION

Contents:

General Notes

Unified Soil Classification System

Note: All attachments are one page unless noted above.

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

Vehicle Warehouse ■ Clarksville, New York

Terracon Project No. JB195182

Terracon
GeoReport

SAMPLING	WATER LEVEL	FIELD TESTS
 Split Spoon	 Water Initially Encountered  Water Level After a Specified Period of Time  Water Level After a Specified Period of Time Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	N Standard Penetration Test Resistance (Blows/Ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

STRENGTH TERMS

RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve) Density determined by Standard Penetration Resistance		CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve) Consistency determined by laboratory shear strength testing, field visual/manual procedures or standard penetration resistance		
Descriptive Term (Density)	Standard Penetration or N-Value Blows/Ft.	Descriptive Term (Consistency)	Unconfined Compressive Strength q_u (tsf)	Standard Penetration or N-Value Blows/Ft.
Very Loose	0 - 3	Very Soft	less than 0.25	0 - 1
Loose	4 - 9	Soft	0.25 to 0.50	2 - 4
Medium Dense	10 - 29	Medium Stiff	0.50 to 1.00	4 - 8
Dense	30 - 50	Stiff	1.00 to 2.00	8 - 15
Very Dense	> 50	Very Stiff	2.00 to 4.00	15 - 30
		Hard	> 4.00	> 30

RELATIVE PROPORTIONS OF SAND AND GRAVEL		RELATIVE PROPORTIONS OF FINES	
Descriptive Term(s) of other constituents	Percent of Dry Weight	Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	<15	Trace	<5
With	15-29	With	5-12
Modifier	>30	Modifier	>12
GRAIN SIZE TERMINOLOGY		PLASTICITY DESCRIPTION	
Major Component of Sample	Particle Size	Term	Plasticity Index
Boulders	Over 12 in. (300 mm)	Non-plastic	0
Cobbles	12 in. to 3 in. (300mm to 75mm)	Low	1 - 10
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)	Medium	11 - 30
Sand	#4 to #200 sieve (4.75mm to 0.075mm)	High	> 30
Silt or Clay	Passing #200 sieve (0.075mm)		

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A					Soil Classification	
					Group Symbol	Group Name ^B
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines ^C	$C_u \geq 4$ and $1 \leq C_c \leq 3$ ^E	GW	Well-graded gravel ^F	
			$C_u < 4$ and/or $[C_c < 1 \text{ or } C_c > 3.0]$ ^E	GP	Poorly graded gravel ^F	
		Gravels with Fines: More than 12% fines ^C	Fines classify as ML or MH	GM	Silty gravel ^{F, G, H}	
			Fines classify as CL or CH	GC	Clayey gravel ^{F, G, H}	
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands: Less than 5% fines ^D	$C_u \geq 6$ and $1 \leq C_c \leq 3$ ^E	SW	Well-graded sand ^I	
			$C_u < 6$ and/or $[C_c < 1 \text{ or } C_c > 3.0]$ ^E	SP	Poorly graded sand ^I	
		Sands with Fines: More than 12% fines ^D	Fines classify as ML or MH	SM	Silty sand ^{G, H, I}	
			Fines classify as CL or CH	SC	Clayey sand ^{G, H, I}	
Fine-Grained Soils: 50% or more passes the No. 200 sieve	Silts and Clays: Liquid limit less than 50	Inorganic:	$PI > 7$ and plots on or above "A" line	CL	Lean clay ^{K, L, M}	
			$PI < 4$ or plots below "A" line ^J	ML	Silt ^{K, L, M}	
		Organic:	Liquid limit - oven dried	< 0.75	OL	Organic clay ^{K, L, M, N}
			Liquid limit - not dried		Organic silt ^{K, L, M, O}	
	Silts and Clays: Liquid limit 50 or more	Inorganic:	PI plots on or above "A" line	CH	Fat clay ^{K, L, M}	
			PI plots below "A" line	MH	Elastic Silt ^{K, L, M}	
		Organic:	Liquid limit - oven dried	< 0.75	OH	Organic clay ^{K, L, M, P}
			Liquid limit - not dried		Organic silt ^{K, L, M, Q}	
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat	

^A Based on the material passing the 3-inch (75-mm) sieve.

^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

$$C_u = D_{60}/D_{10} \quad C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

^F If soil contains $\geq 15\%$ sand, add "with sand" to group name.

^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^H If fines are organic, add "with organic fines" to group name.

^I If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.

^J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

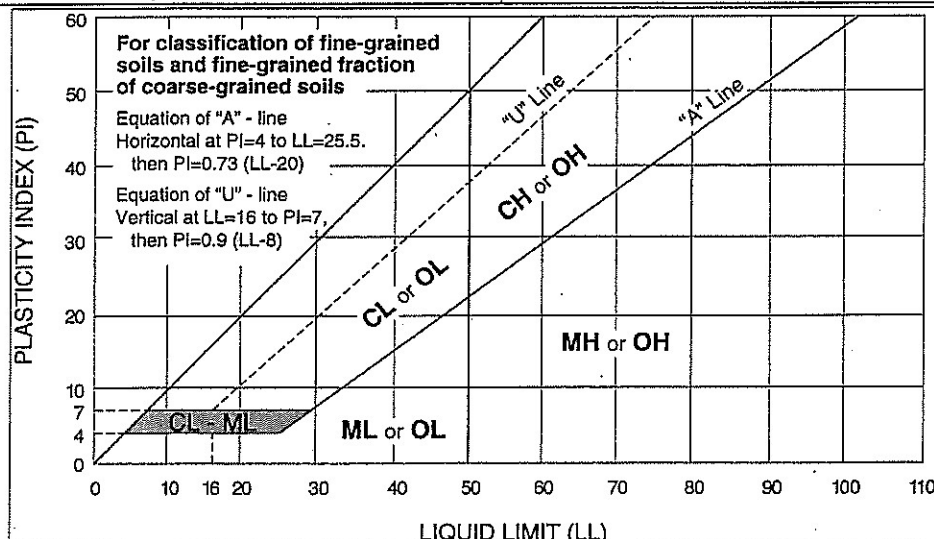
^L If soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $PI \geq 4$ and plots on or above "A" line.

^O $PI < 4$ or plots below "A" line.

^P PI plots on or above "A" line.

^Q PI plots below "A" line.


COUNTY OF ALBANY

PROPOSAL FORM

PROPOSAL IDENTIFICATION:

Title: **NEW YORK STATE LICENSED ARCHITECT/ENGINEER TO PROVIDE CONSULTING, DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR THE DESIGN OF THE NEW ALBANY COUNTY SHERIFF'S E-911 EMERGENCY MANAGEMENT FACILITY AT THEIR CLARKSVILLE PUBLIC SAFETY CAMPUS**

RFP Number: 2020-098

THIS PROPOSAL IS SUBMITTED TO:

Karen A. Storm, Purchasing Agent
Albany County Department of General Services
Purchasing Division
112 State Street, Room 1000
Albany, NY 12207

1. The undersigned Proposer proposes and agrees, if this Proposal is accepted, to enter into a Contract with the owner in the form included in the Contract Documents to complete all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Proposal and in accordance with the Contract Documents.
2. Proposer accepts all of the terms and conditions of the Instructions to Proposers, including without limitation those dealing with the Disposition of Proposal Security. This Proposal may remain open for ninety (90) days after the day of Proposal opening. Proposer will sign the Contract and submit the Contract Security and other documents required by the Contract Documents within fifteen days after the date of County's Notice of Award.
3. In submitting this Proposal, Proposer represents, as more fully set forth in this Contract, that:

- (a) Proposer has examined copies of all the Contract Documents and of the following addenda: (If none, so state)

Date

Number

(receipt of all of which is hereby acknowledges) and also copies of the Notice to Proposers and the Instructions to Proposers;

- (b) Proposer has examined the site and locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress or performance of the

Work and has made such independent investigations as Proposer deems necessary;

- (c) This Proposal is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Proposer has not directly or indirectly induced or solicited any other Proposer to submit a false or sham Proposal; PROPOSER has not solicited or induced any person, firm or a corporation to refrain from Proposing; and Proposer has not sought by collusion to obtain for himself any advantage over any other Proposer or over the owner.

- 4. Proposer will complete the Work for the following prices(s): (Attach Proposal)
- 5. Proposer agrees to commence the Work within the number of calendar days or by the specific date indicated in the Contract. Proposer agrees that the Work will be completed within the number of Calendar days or by the specific date indicated in the contract.
- 6. The following documents are attached to and made a condition of this Proposal:
 - (a) Non-Collusive Bidding Certificate (Attachment "A")
 - (b) Acknowledgment by Bidder (Attachment "B")
 - (c) Vendor Responsibility Questionnaire (Attachment "C")
 - (d) Iranian Energy Divestment Certification (Attachment "D")
- 7. Communication concerning this Proposal shall be addressed to:

Phone: _____

- 8. Terms used in this Proposal have the meanings assigned to them in the Contract and General Provisions.

COUNTY OF ALBANY

COST PROPOSAL FORM

PROPOSAL IDENTIFICATION:

Title: NEW YORK STATE LICENSED ARCHITECT/ENGINEER TO PROVIDE CONSULTING, DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR THE DESIGN OF THE NEW ALBANY COUNTY SHERIFF'S E-911 EMERGENCY MANAGEMENT FACILITY AT THEIR CLARKSVILLE PUBLIC SAFETY CAMPUS

RFP Number: 2020-098

New E-911 Emergency Management Facility Project

- | | |
|---|----------|
| a. Design Development Phase | \$ _____ |
| b. Construction Document Phase | \$ _____ |
| c. Bidding and Contract Negotiation phase | \$ _____ |
| d. Contract Administration Phase | \$ _____ |

NOT TO EXCEED TOTAL LUMP SUM FEE (a+b+c+d)

\$ _____

(All reimbursable expenses must be included in total lump sum fee)

- | | |
|--|----------|
| e. Alternate Fee – Construction Management Phase | \$ _____ |
|--|----------|

COMPANY: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TEL. NO.: _____

FEDERAL TAX ID NO.: _____

REPRESENTATIVE: _____

E-MAIL: _____

SIGNATURE AND TITLE _____

DATE: _____

ATTACHMENT "A"
NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO
SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.

(2) Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where (1), (2), and (3) above have not been complied with; provided, however, that in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where (1), (2), and (3) above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation

Signature

Title

Date

Company Name

ATTACHMENT "B"
ACKNOWLEDGMENT BY PROPOSER

If Individual or Individuals:

STATE OF _____)
COUNTY OF _____) SS.:

On this _____ day of _____, 20____, before me personally appeared _____ to me known and known to me to be the same person(s) described in and who executed the within instrument, and he (or they severally) acknowledged to me that he (or they) executed the same.

Notary Public, State of _____

Qualified in _____

Commission Expires _____

If Corporation:

STATE OF _____)
COUNTY OF _____) SS.:

On this _____ day of _____, 20____, before me personally appeared _____ to me known, who, being by me sworn, did say that he resides at (give address) _____; that he is the (give title) _____ of the (name of corporation) _____, the corporation described in and which executed the above instrument; that he knows the seal of the corporation, and that the seal affixed to the instrument is such corporate seal; that it was so affixed by order of the board of directors of the corporation, and that he signed his name thereto by like order.

Notary Public, State of _____

Qualified in _____

Commission Expires _____

If Partnership:

STATE OF _____)
COUNTY OF _____) SS.:

On the _____ day of _____, 20____, before me personally came _____ to me known to be the individual who executed the foregoing, and who, being duly sworn, did depose and say that he / she is a partner of the firm of _____ and that he / she has the authority to sign the same, and acknowledged that he / she executed the same as the act and deed of said partnership.

Notary Public, State of _____

Qualified in _____

Commission Expires _____

ATTACHMENT "C"
ALBANY COUNTY
VENDOR RESPONSIBILITY QUESTIONNAIRE

1. VENDOR IS: ☐ PRIME CONTRACTOR			
2. VENDOR'S LEGAL BUSINESS NAME		3. IDENTIFICATION NUMBERS a) FEIN # b) DUNS #	
4. D/B/A – Doing Business As (if applicable) & COUNTY FIELD:		5. WEBSITE ADDRESS (if applicable)	
6. ADDRESS OF PRIMARY PLACE OF BUSINESS/EXECUTIVE OFFICE		7. TELEPHONE NUMBER	8. FAX NUMBER
9. ADDRESS OF PRIMARY PLACE OF BUSINESS/EXECUTIVE OFFICE <i>IN NEW YORK STATE, if different from above</i>		10. TELEPHONE NUMBER	11. FAX NUMBER
12. AUTHORIZED CONTACT FOR THIS QUESTIONNAIRE Name Title Telephone Number Fax Number e-mail			
13. LIST ALL OF THE VENDOR'S PRINCIPAL OWNERS.			
a) NAME	TITLE	b) NAME	TITLE
c) NAME	TITLE	d) NAME	TITLE
A DETAILED EXPLANATION IS REQUIRED FOR EACH QUESTION ANSWERED WITH A "YES," AND MUST BE PROVIDED AS AN ATTACHMENT TO THE COMPLETED QUESTIONNAIRE. YOU MUST PROVIDE ADEQUATE DETAILS OR DOCUMENTS TO AID THE COUNTY IN MAKING A DETERMINATION OF VENDOR RESPONSIBILITY. PLEASE NUMBER EACH RESPONSE TO MATCH THE QUESTION NUMBER.			
14. DOES THE VENDOR USE, OR HAS IT USED IN THE PAST FIVE (5) YEARS, ANY OTHER BUSINESS NAME, FEIN, or D/B/A OTHER THAN THOSE LISTED IN ITEMS 2-4 ABOVE? List all other business name(s), Federal Employer Identification Number(s) or any D/B/A names and the dates that these names or numbers were/are in use. Explain the relationship to the vendor. ☐ Yes ☐ No 			
15. ARE THERE ANY INDIVIDUALS NOW SERVING IN A MANAGERIAL OR CONSULTING CAPACITY TO THE VENDOR, INCLUDING PRICIPAL OWNERS AND OFFICERS, WHO NOW SERVE OR IN THE PAST ONE (1) YEARS HAVE SERVED AS: a) An elected or appointed public official or officer? <i>List each individual's name, business title, the name of the organization and position elected or appointed to, and dates of service</i> ☐ Yes ☐ No b) An officer of any political party organization in Albany County, whether paid or unpaid? <i>List each individuals name, business title or consulting capacity and the official political position held with applicable service dates.</i> ☐ Yes ☐ No			

21. IN THE PAST FIVE (5) YEARS, HAS THE VENDOR OR ANY AFFILIATES: ☐ Yes ☐ No

a) defaulted or been terminated on, or had its surety called upon to complete, any contract (public or private) awarded;

Indicate if this is applicable to the submitting vendor or affiliate. Detail the situation(s) that gave rise to the negative action, any corrective action taken by the vendor and the name of the contracting agency.

1 "Affiliate" meaning: (a) any entity in which the vendor owns more than 50% of the voting stock; (b) any individual, entity or group of principal owners or officers who own more than 50% of the voting stock of the vendor; or (c) any entity whose voting stock is more than 50% owned by the same individual, entity or group described in clause (b). In addition, if a vendor owns less than 50% of the voting stock of another entity, but directs or has the right to direct such entity's daily operations, that entity will be an "affiliate" for purposes of this questionnaire.

**ALBANY COUNTY
VENDOR RESPONSIBILITY QUESTIONNAIRE**

FEIN #

State of:)
) ss:
County of:)

CERTIFICATION:

The undersigned: recognizes that this questionnaire is submitted for the express purpose of assisting the County of Albany in making a determination regarding an award of contract or approval of a subcontract; acknowledges that the County may in its discretion, by means which it may choose, verify the truth and accuracy of all statements made herein; acknowledges that intentional submission of false or misleading information may constitute a felony under Penal Law Section 210.40 or a misdemeanor under Penal Law Section 210.35 or Section 210.45, and may also be punishable by a fine and/or imprisonment of up to five years under 18 USC Section 1001 and may result in contract termination; and states that the information submitted in this questionnaire and any attached pages is true, accurate and complete.

The undersigned certifies that he/she:

- Has not altered the content of the questions in the questionnaire in any manner;
- Has read and understands all of the items contained in the questionnaire and any pages attached by the submitting vendor;
- Has supplied full and complete responses to each item therein to the best of his/her knowledge, information ad belief;
- Is knowledgeable about the submitting vendor's business and operations;
- Understands that Albany County will rely on the information supplied in the questionnaire when entering into a contract with the vendor;
- Is under duty to notify the Albany County Purchasing Division of any material changes to the vendor's responses.

Name of Business

Signature of Owner _____

Address

Printed Name of Signatory _____

City, State, Zip

Title

Sworn before me this _____ day of _____, 20__;

Notary Public

Printed Name

Signature

Date

Attachment "D"
Certification Pursuant to Section 103-g
Of the New York State
General Municipal Law

- A. By submission of this bid/proposal, each bidder/proposer and each person signing on behalf of any bidder/proposer certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid/Proposal shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the bidder/proposer cannot make the foregoing certification set forth in Paragraph A above, the bidder/proposer shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefor. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid/proposal is made, or his designee, may award a bid/proposal, on a case by case business under the following circumstances:
1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder/Proposer has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods or services for which the contract is offered. Such determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name

**Sheet MS4-1: Bidder/Proposer Certification Statement (to be used with Section 34 Part A --
General Contracts)**

As a bidder seeking to provide services on behalf of Albany County, I certify under penalty of law that I understand and agree to comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4 Permit) and Albany County Local Law 7 of 2007, and agree to implement any Best Management Practices or corrective actions identified by Albany County or an authorized representative thereof as necessary to maintain compliance. I understand that Albany County must comply with the terms and conditions of the aforementioned MS4 Permit, and that it is unlawful for any person to directly or indirectly cause or contribute to a violation of water quality standards. I am also aware that County Local Law 7 of 2007 prohibits any activities that cause or contribute to a violation of the County's SPDES permit. Further, I understand that any non-compliance by Albany County will not diminish, eliminate or lessen my own liability.

Name of Third Party Entity: _____

Address: _____

Phone Number(s): _____

Description of activities to be performed by your firm or organization within Albany County are related to the Albany County Storm Water Management Program (SWMP) (include any activities that have the potential to generate or prevent pollution and/or affect water quality):

Description of where the work is to be performed within Albany County facilities:

Signature

Printed Name

Title

Date



architects + engineers

3 Lear Jet Lane, Ste 205
Latham, NY 12110 | tel 518.765.5105



September 11, 2020

Karen A. Storm
Albany County Purchasing Agent
112 State Street, Room 1000
Albany, NY 12207

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

Dear Selection Committee,

Thank you for asking **H2M architects + engineers** to submit our proposal for this important new facility. We attended the walk-through at the site and have acknowledged receipt of the Addenda. **Why should the County, Sheriff's Department and end users trust its project to H2M?**

- o **Specific Local Expertise for your needs:** H2M is a nationally recognized leader in 911 and EOC design. We have successfully completed other PSAP, EOC and Emergency Management facilities, including the recently opened, state-of-the-art, NFPA 1221 designed Saratoga County Public Safety Facility. Additionally, we are currently designing two other public safety facilities with these same components.
- o **Team Dynamics:** H2M has assembled the same team of professionals that just completed the Saratoga County Public Safety Facility (SCPSF). We propose to work with **Chazen Companies** for Civil Engineering, landscaping, survey, SEQRA and other site related tasks: **Spring Line Design** (NYS-WBE) Structural Engineering: **Ken A. Hipsky P.E. and RZ Design** Mechanical, Electrical Plumbing (MEP) Fire Protection Engineering, security and data/communications: **Daniel Loucks, P.E.** Geotechnical Engineer: **Fusion Systems Engineering**, Commissioning Agent. As an addition to our team, we propose to include **DACK Consulting Solutions, Inc.** (MBE/WBE) for Cost Estimating. The professionals on our team have completed numerous projects together. Our collaboration is based on mutual respect and a proven ability to work side-by-side focusing on our Client's best interests.
- o **CM Services:** Should the County elect to have H2M work directly with a firm for enhanced construction administration, we propose to utilize **AKW Consulting Inc.** AKW worked for H2M and performed on-site coordination of the Owner's vendors, five prime contractors, handled daily construction observation and assisted in punch out and closeout services for SCPSF.
- o **Communication:** We steadfastly believe in our Team's ability to listen, garner feedback and respond positively to the County and Sheriff's Department concerns on the layouts, budgets, regulatory requirements, resiliency, flexibility for growth and state-of-the-art equipment.
- o **Expertise:** David J. Pacheco, VP and senior designer, was appointed to the ASTM Homeland Security Committee-Emergency Operations Center (EOC) Standards Committee. Mr. Ross is a member of the NFPA Technical Committee for Responder Occupational Health charged with creating the new Standard 1585 which will incorporate all other NFPA health and safety guidelines. Both will bring their knowledge and critical thinking to the benefit of the County and facility.



architects + engineers



Proposal for

New York State Licensed
Architect/Engineer to Provide
Consulting, Design, and
Construction Administration
Services for the Design of
the New Albany County
Sheriff's E-911 Emergency
Management Facility at their
Clarksville Public Safety
Campus | RFP No. 2020-098



09.11.2020

Contact

Dennis A. Ross, AIA
Market Director of Emergency
Services | Vice President

H2M architects + engineers
3 Lear Jet Lane, Suite 205
Latham, NY 12110



518.765.5105 ext. 2030



518.765.5107



dross@h2m.com

Title Page & Table of Contents

→ Cover Letter

→ SECTION I

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▶ H2M Team Qualifications/Staffing Plan &
Resumes.....2

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→ SECTION V

▶ Cost Proposal

→ SECTION VI

▶ Mandatory Documentation

TAB 2



Here at H2M, we value people.



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, proud of our long history of client service and consistent ability to meet tough architectural, engineering, and environmental challenges head-on. Since 1933, H2M has helped plan, design, and build many of our local communities: from firehouses to water treatment facilities, schools to road reconstruction, and Environmental Site Assessments (ESAs) to groundwater remediation. Since our early roots, our focus has remained steadfast: to provide quality service with sound judgment and serve our clients as an honest and professional resource. We offer a practical approach with creative results.

Our Staff

H2M prides itself on the breadth of its comprehensive in-house service capabilities. With a diverse staff of over 470 architects, engineers, surveyors, scientists, planners, landscape architects, and technical support specialists, we offer our clients the benefit of a full "under one roof" consulting network.



66

Registered
Architects



92

Professional
Engineers



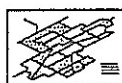
36

LEED
Accredited
Professionals



02

Registered
Landscape
Architects



06

Professional
Planners



14

LEED
Green
Associates



08

Professional
Geologists



02

Professional
Land Surveyors



05

Licensed Site
Remediation
Professionals

Operating Philosophy

The operating philosophy at H2M is based on the following core values:

Respect

We respect each other's ideas and contributions and are committed to open, honest communication.

Dedication

We are responsive to our clients' needs and go above and beyond to get the job done.

Integrity

We are honest and ethical in our business practices and build trust with our clients and staff.

Teamwork

We cooperate, collaborate and work together as part of a team.

Community

We are committed to the health of our local communities and our legacy.

Creativity

We believe in the importance of innovation and seek new, creative, and sustainable project solutions.

Practicality

We are dedicated to providing efficient, cost-effective solutions to our clients' problems.

Opportunity

Our success begins with our people. We value organic growth, empowering our employees, and fostering their development.

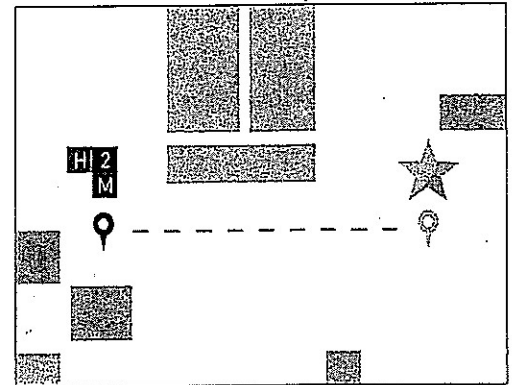
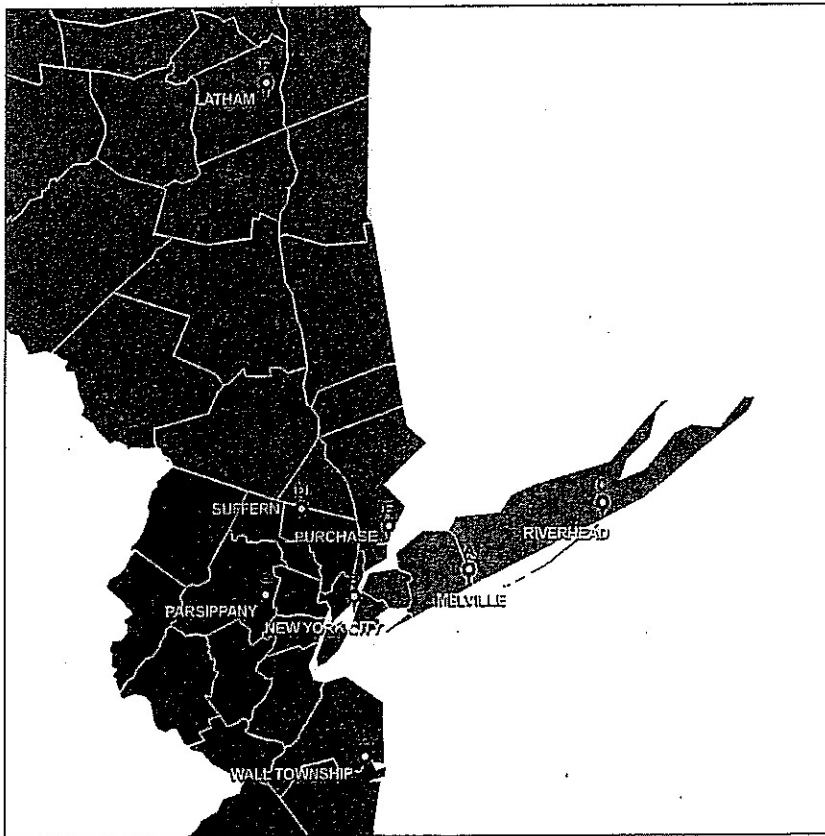


Distance from our
Latham, NY, office
to the Clarksville Public
Safety Campus:

20
miles

Office Locations

H2M serves the municipalities, public agencies, private utilities, and industries of the New York/New Jersey Metro Region, with eight office locations.



- A 538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
- B 132 West 31st St, Suite 604,
New York, NY 10001
- C 737 Roanoke Avenue,
Riverhead, NY 11701
- D 2 Executive Boulevard, Suite 401,
Suffern, NY 10901
- E 2700 Westchester Avenue, Suite 415,
Purchase, NY 10577
- F 3 Lear Jet Lane, Suite 205,
Latham, NY 12110
- G 119 Cherry Hill Road, Suite 110,
Parsippany, NJ 07054
- H 4810 Belmar Boulevard
Wall Township, NJ 07753

"H2M" refers to H2M Architects, Engineers, Land Surveying and Landscape Architecture, D.P.C. and/or its subsidiary H2M Associates, Inc., and/or its affiliate H2M Architects & Engineers, Inc. and Pacheco Ross Architects, a division of H2M architects + engineers, as appropriate to the context. Pacheco Ross Architects was acquired by H2M in 2016, and specializes in the design of emergency response facilities. 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, 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, 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, Massachusetts, and Pennsylvania.

Emergency Services Clients

Albertson H. & L.E. & H. Co.1, Inc.
 Atlantic Beach Fire District
 Baldwin Fire District
 Bayport Fire District
 Bay Shore Fire District
 Bellmore Fire District
 Bellmore-Merrick Volunteer Ambulance Company
 Bethpage Fire District
 Bohemia Fire District
 Brentwood Fire District
 Brentwood Legion Ambulance Service
 Brookhaven Fire District
 Cardinal Joint Fire District, OH
 Center Moriches Fire District
 Centereach Fire District
 Central Islip Fire District
 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 Schenectady
 City of Stamford Fire Rescue, CT
 Cold Spring Harbor Fire District
 Colmar Fire Company, PA
 County of Fairfax, VA
County of Saratoga
 Copiague Fire District
 Cortez Fire Protection District, CO
 East Islip Fire District
 East Meadow Fire District
 East Northport Fire District
 Elmont Fire District
 Exchange Ambulance of the Islips
 Fair Harbor Fire District
 Floral Park Fire Department
 Fort Washington Fire Company, PA
 Franklin Square & Munson Fire District
 Garden City Park Fire District
 Glenwood Fire Company
 Great Barrington Fire Department, MA
 Greenlawn Fire District
Guilderland Fire District
 Hagerman Fire District
 Hampton Bays Fire District
 Hauppauge Fire District
 Hicksville Fire District
 Horsham Township Battalions 1 & 2, PA
 Huntington Community First Aid Squad

Huntington Fire District
 Huntington Manor Fire District
 Islip Fire District
 Jericho Fire District
 Keene Fire District
 Kings Park Fire District
 Kingston Fire Department, PA
 Lehigh Fire Department, PA
 Levittown 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
 Meadowmere Fire District
 Melville Fire District
 Metuchen Fire Department, NJ
 Middle Island Fire District
 Mill Creek Fire Company, DE
 Millstone Township Fire Company, NJ
 Moon Township, PA
 Mount Sinai Fire District
 Municipality of Bethel Park, PA
 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
 Village of Ocean Beach Fire Department
 Perth Amboy Fire Department, NJ
 Plainview Volunteer Fire Department
 Princeton First Aid & Rescue Squad, NJ
 Ridge Fire District
 Riverhead Volunteer Ambulance Corp.
 Riverhead Fire District
 River Oaks Fire & Rescue Squad, VA
 Roosevelt Fire District
 Roslyn Highlands Hook & Ladder, Engine & Nose Fire Company
 Roslyn Rescue Fire Company
 Saltaire Fire Department
 Seaford Fire District
 Setauket Fire Department
 Silver Lake Fire District
 Sound Beach Fire District
 South Farmingdale Fire District
 Somerville Fire Department, NJ
 Suffolk County Department of Public Works
 Suffolk County Sheriff's Department
 Stony Brook Fire District

Thompsonville Fire District #2, CT
 Ticonderoga Fire District #1 & Town of
 Ticonderoga Police
 Town of Brookhaven
 Town of Lexington, MA
 Town of Natick, MA
 Town of Riverhead
 Town of Wilbraham, MA
 Uniondale Fire District
 Village of Bellerose
Village of Colonie
 Village of Farmingdale
 Village of Fayetteville
 Village of Mamaroneck
 Village of Manlius
 Village of Rockville Centre
 Village of Sea Cliff
 Village of Valley Stream
Village of Waterford
 Walden Fire District
 Westbury Fire District
 Westhampton Beach Fire District
 Woodmere Fire District
 William P. Faist Ambulance Corps.

***Bold Clients - Within 50 miles of
 Albany County***

Combination Facilities



Saratoga County, NY – Public Safety Facility

A new 64,000 sq. ft. 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.

Lethbridge, AB Canada – Fire Headquarters

A new four story 35,500 sq. ft. fire headquarters housing city-wide IT center, regional EOC and PSAP. This NFPA 1221 compliant PSAP with three levels of security covers a large, diverse geographic area. PSAP is self-contained including training pods, main floor, kitchen, restrooms, quiet room and balcony. EOC includes main response floor, tactical breakout, conference space, press briefing and support spaces. PRA was the design architect with Ferrari, Westwood, Babits, Architects in Lethbridge as the local architect of record. PRA programmed, designed, coordinated specialty equipment, security, furniture, systems and assisted in planning the live cut-over.

Town of Charlton, MA – Public Safety Facility

New Municipal 38,000 sq. ft., \$25 million Public Safety Facility for Fire and Police, Emergency Management, PSAP and EOC. Construction/design documents will be completed fall of 2020

City of Norwalk, CT – Fire Headquarters

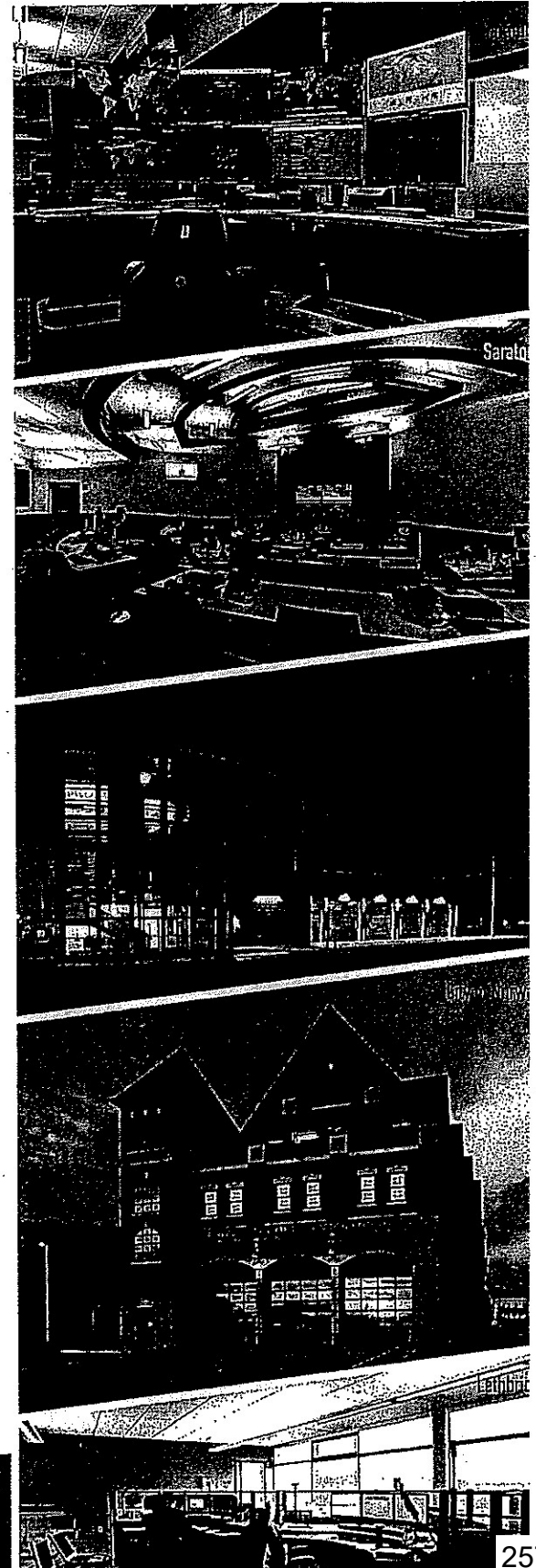
A new three story 35,000 sq. ft. facility housing a regional EOC that interacts directly with Hartford, CT and NYC emergency coverage. EOC includes main response floor, tactical breakout space, press briefing room and classroom. FM-200 city-wide IT center, emergency management department, fire department, fire administration, extensive training requirements and fire marshal offices.

Town of Auburn, MA – Public Safety Facility

New Municipal 45,000 sq. ft., \$27.5 million, Safety Facility for Fire, Police and EOC. Programming, multiple site test fits, conceptual design.

City of Mount Vernon, NY

A Federal grant funded EOC. Adaptive retrofit of portions of an existing fire station into a state-of-the-art shelter in place EOC facility. A 5,000 sq. ft. building including a main response floor, tactical breakout rooms, conference space, offices, press briefing room/classroom, IT room radio communications room and support spaces. Utilized ASTM EOC Development standards written in part by David J. Pacheco.



Awards + Honors

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Gold Medal

- 2019 Station Design Award, Firehouse Magazine: Setauket Fire District
- 2015 Station Design Award, Firehouse Magazine: City of Norwalk Fire HQ. LEED Gold
- 2013 Station Design Award, Fire Chief Magazine: Fort Washington Fire Company
- 2012 Station Design Award, Fire Chief Magazine: Niskayuna Fire District #1
- 2012 Station Design Award, Fire Chief Magazine: City of Lethbridge Fire HQ

Silver Medal

- 2016 Station Design Award: Mill Creek Fire Company Station #21
- 2011 Station Design Award, Fire Chief Magazine: Fayetteville Fire Department, LEED

Bronze Medal

- 2017 Station Design Award, Firehouse Magazine: Guilderland Fire District
- 2013 Station Design Award, Chief Magazine: Silver Lake District
- 2010 Station Design Award, Chief Magazine: Great Barrington Fire Station
- 2007 Station Design Award, Chief Magazine: City of Poughkeepsie Public Safety Facility
- 2006 Station Design Award, Chief Magazine: Stillwater Fire District

Honor and Merit Awards

- 2019 FIREHOUSE Notable Design: Cortez Fire Protection District
- 2018 FIREHOUSE Notable Design: Bethel Park Volunteer Fire Company
- 2016 F.I.E.R.O. Honor Award, Design Excellence & People's Choice: Norwalk Fire HQ
- 2015 CT Green Building and LEED-Gold: City of Norwalk Fire HQ
- 2014 Build CT Honor Award: New Construction – City of Norwalk Fire HQ
- 2012 F.I.E.R.O. Merit Award, Design Excellence: Village of Fayetteville
- 2011 ACI Excellence in Masonry Design and Installation: Fayetteville Fire Station
- 2010 Notable Design: River Oaks Fire and Rescue Station #23
- 2009 Notable Design: Orangeburg Fire District
- 2009 Town of DeWitt/East Syracuse FD
- 2008 Notable Design: Kent Island Volunteer Fire Department
- 2008 Notable Design: North Amityville Fire Department
- 2007 Notable Design: Horsham Battalion #2
- 2007 ACI Excellence in Masonry Design and Installation: Fayetteville Fire Station
- Service and Professionalism: Recognized by Mill Creek Fire Company Station #21

Architect of Record: Mitchell-Ross Associates Architects, P.C.

- 2006 City of Hudson Fire Station – Gold Medal
- 2005 North Castle Fire District #2, Fire Station – Gold Medal
- 2003 Cayuga Heights Fire Department – Gold Medal
- 2002 Verdoy Volunteer Fire Department – Silver Medal
- 2008 Notable Design: North Amityville Fire Company
- 2007 Notable Design: Chestertown Volunteer Fire District
- 2005 Notable Design: Horsham Battalion #1
- 2004 Notable Design: Herman Volunteer Fire Department

