Professional Architectural /Engineering Services
New Westhill High School
CITY OF STAMFORD

RFP NO: 2023.0030

June 8, 2023

SLAM

AMENTA | EMMA

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COVER LETTER


ACADEMIC BUILDING

SLAM AMENTA | EMMA

June 8, 2023

Mr. Erik Larson, Purchasing Agent
Mr. Domenick Tramontozzi, Sr. Construction Manager
City of Stamford
888 Washington Boulevard
Stamford, CT 06901

RE: RFP #2023.0030 - City of Stamford - Architectural & Engineering (A/E) Services for New Westhill High School, 125 Roxbury Road, Stamford, CT. State Project #135-0280 N.

Dear Mr. Larson and Mr. Tramontozzi:

You know us. The S/L/A/M Collaborative (SLAM) has forged a trusted partnership with the City of Stamford since 2021 having expertly completed the following projects:

- Early Childhood Center Feasibility Study, Cost Estimate & Grant application (spring 2021)
- Stamford Public Schools Long Term Facility Master Plan (summer 2021 through fall 2022)
- South K8 School Educational Specifications, Feasibility Study, Cost Estimate & Grant Application (spring 2023)

Our team is excited about the opportunity to continue our existing partnership with Stamford on the transformation of their public-school portfolio to realize the master plan. We are available for an immediate start.

We are pleased to submit our Qualifications and Proposal for A/E services related to the design and construction of a new Westhill High School building and campus. **SLAM has teamed with Amenta-Emma Architects** (AEA) as an associate architect to offer the city of Stamford **an architectural team with a proven track record** delivering a successful and transformative comprehensive high school project with the $142M Weaver High School in Hartford, CT. AEA is a trusted architectural partner with SLAM due to our shared outcomes-based educational design philosophy, complimentary educational design expertise, and established trust and communication, which gives our team a synergy not found with first-time partnerships one might see assembled for a project with the size and complexity of Westhill.

SLAM is the Prime proposer, will be signatory to the contract and be the Architect of Record for the project. We teamed with AEA to offer the city of Stamford a seasoned team that can advance the Westhill project quickly and efficiently to deliver the new school within the timeframe identified in our proposed schedule and help Stamford get and keep this project on-track with the originally planned occupancy date of August 2028. We've established a division of work that was successful for Weaver HS and that our team is familiar with. Additionally, many of the same team members that worked together on Weaver are proposed for the Westhill team, so individual personalities are known, allowing us to advance your project with no "getting to know one-another" ramp-up time. **We strongly believe in our teams' ability to deliver a new Westhill campus that maximizes your investment while delivering unsurpassed design and performance.**

We have reviewed the information provided in the RFP, including all four addenda, and have assembled for your consideration an experienced team of staff and consultants who have designed several innovative and exciting Connecticut school facilities together over the past two decades. SLAM + AEA and our proposed consultant firms have extensive experience in the planning and design of public schools in Connecticut. **With the largest architectural office in CT, SLAM has 40 professionals in our Glastonbury Education design studio, 24 of which are dedicated specifically to understanding and advancing public education design. Your building committee will experience an attentive, focused local team and enjoy the depth of bench expertise available within a medium-sized (300+), national design firm.** Our entire team is outlined in part 4 of the information following this letter, and our organizational chart with resumes are presented in Section 4.

One key advantage of partnering with SLAM for this project is the personal commitment I will make as Principal in Charge to the city of Stamford. I will leverage the capabilities and resources of our collective Prime and Consultant teams toward your project during all phases, from visioning & program verification through design, construction, the ribbon cutting and beyond.

Our proposed team is particularly well suited for the new Westhill High School project, having just completed design (June 2022) of the new Torrington Middle/High School with Central Offices, which is currently under construction. The new 310,000 SF facility is currently being built on the high school site while the existing high school remains operational. Once the new building is occupied, the existing school will be abated & demolished, and athletic fields, parking and remaining site improvements will be completed. Refer to our technical response for more details on the project including example site logistic drawings.

Our team also recently completed the new Ox-Ridge Elementary School in Darien, CT (110,000 sf), Phase-1 of which was occupied in August 2022 and Phase-2 has just been completed. The Ox Ridge project included the construction of a new school in two phases on the same site while the existing school remained in operation. Phase-2 was enabled by the demolition of the existing building. Ox Ridge was a particularly challenging site with a "backyard" parcel with only one access road in and out. Our team worked closely with the owner and construction manager to align the new design with a complex site logistics plan.

Two additional projects, Rogers High School and Greenwich Central Middle School are projects where a new facility is being constructed on the same site where an existing school remains operational during construction, with demolition of the old facility at the end of construction. **Our team is very experienced with the issues and considerations related to multiple utility services, avoidance of existing sub-surface utilities, coordination of utility transfers from old to new, construction phasing and logistics planning, development of vehicular and pedestrian circulation systems that support two independent facility operations (even if temporary), among other considerations.** Within the last five years our studio has also completed Nonnewaug HS renovation, and East Hampton HS renovation, both of which were occupied-phased renovations, so our team is also adept at foreseeing and managing the logistics of occupied sites & buildings during construction projects.

The proposed schedule for occupancy by August 2028 is certainly achievable, and should be entrusted to a firm and team with the experience to guide your building committee through the design process in approximately 15-16 months. That will leave sufficient time for OSCG&R approvals, bidding and awarding contracts to enable ground-breaking in July 2025, leaving 36 months for construction of the new school. Our team has the experience, expertise and horsepower to make this schedule a reality.

REALIZING THE NEW WESTHILL HS - Several key factors will determine the project's success:

Design with/for Community: Our team will collaborate with you to engage the community in the process and keep Westhill families and immediate community apprised of progress during design and construction. SLAM's initial programming efforts and design process are structured to create an open and robust dialogue. This process identifies the specific needs for spaces that will be accessible to the community and enhances the critical relationship between school and community with safety and security measures that keep students and staff safe.

Enhanced Coordination / Integrated Design Services: SLAM offers what no other design firm in Connecticut can, an integrated practice that includes certified educational planners, architecture, landscape architecture, interior design, structural engineering and in-house construction services including cost estimating. While we are not suggesting SLAM as the constructor of your project, our design-build studio has built many schools and works side-by-side with our design teams to advise on constructability, real-time material sourcing and current market rates, cost estimating, construction phasing, site logistics and safety. Their participation in past State of CT K-12 projects has proven instrumental in helping our design teams develop well planned projects that maintain project budgets and schedules. Maintaining the project on budget from the outset will be a commitment we will make to the city of Stamford.

An Exemplary Past Performance Record is critical, especially regarding adherence to project schedules, budgets and minimizing construction change orders. In Section 4, our History of Performance for K-12 Projects matrix summarizes SLAM's extraordinary change order results for similar/recent school projects. The adherence of our staff and consultants to a rigorous quality assurance review made possible through Building Information Modeling (BIM) has made our past impressive record even better. SLAM has dedicated a senior level technical staff member to a firm-wide QA/QC position in recognition of the importance of excellent and thorough documents not only to best serve our clients, but to advance our professional reputation as well.

Relevant Local Expertise & Bench-Marking: SLAM's proposed team brings substantial experience working in CT school districts including East Hampton, Greenwich, Hartford, New Haven, Southington, Stamford, Torrington, Waterbury and Woodbury, as well as significant benchmarking knowledge across the current Connecticut K-12 construction market. Our teams' expertise with the State of CT DAS, OSCGR process is extensive, and our nationally recognized leadership in the design of educational facilities will see your new school become an exemplar to the town, state, nation and world for a modern community high school that will instill Stamford pride in "their new school".

Our proposed team has completed the following high school projects within the past decade. More details for the listed projects are in our submission:

- **New** Torrington Middle/ High School, Torrington, CT - (2022-design, currently in construction, 2025 occupancy);
- **New** Rogers High School, Newport RI – (2022-design, currently in construction, 2024 occupancy)
- Bulkeley High School + Central Administration, Hartford, CT - (2021-design, currently in construction, 2025 occupancy)
- Weaver High School, Hartford, CT - (2019-completed)
- Nonnewaug High School, Woodbury, CT - (2021-completed, phased, occupied construction)
- East Hampton High School, East Hampton, CT - (2017-completed, phased, occupied construction)
- **New** CREC Public Safety Academy (6-12), Enfield, CT - (2014-completed)
- **New** Waterbury Career Academy, Waterbury, CT - (2014-completed)
- Ellis Technical High School, Danielson, CT – (2014-completed, phased, occupied construction)
- **New** Journalism & Media Academy, Hartford, CT - (2013-completed)
- Renovation Capital Preparatory Magnet School (6-12), Hartford, CT - (2011-occupied)

Commitment Through Completion: During construction, SLAM assigns specialist construction administrators to supplement the design team and confirm that construction documents are adhered to. Our CA representatives are experienced professionals and excellent communicators that work closely with the SLAM PIC, project manager, in-house and consultant team, Owner's project representative and construction manager to resolve field issues and shepherd the project to completion in the most expeditious manner.

We offer the following additional considerations:

- **SLAM is a registered architect in the State of CT.** We were incorporated in 1976 and have remained in continuous operation since that time;
- **We are recognized nationally for our educational programming and planning expertise** in developing learning environments that promote student-centered teaching pedagogies and consider the wide range of student learning styles to enable all students to maximize their potential. **We are ranked #32 in top K12 school designers by the 2022 Building Design & Construction Giants 300 report;**
- **Sustainable Design is a core tenet of our practice. SLAM is ranked #45 in the 2022 Engineering News Record Top 100 Green Design Firms.** We employ over 70 LEED Accredited staff members in addition to five WELL Accredited Professionals, and have completed over 80 LEED certified projects successfully (with another 15 projects in progress), as well as **13 public school projects designed to CT High Performance Building Standards, nine (9) of which are LEED Gold equivalent.** We have also designed **one Net-Zero certified and four Net-Zero ready projects,** that are listed in the information at the end of this letter. Our depth of experience enables us to propose appropriate and affordable sustainable design initiatives for your project that align with your goals and budget. We will lead, and educate your building committee on the added value of doing what is right for the environment. This can be a win-win proposition for the project stakeholders, the environment, and the future operating budget of Westhill High School;
- **Our staff maintains strong relationships with the Office of School Construction Grants & Review (OSCGR) personnel** and leads our K-12 studio in maintaining a current knowledge of policy and procedural changes, including state legislative actions affecting school construction projects;
- **Our expertise in Building Information Modeling (BIM) includes the design of hundreds of projects using BIM (Revit®).** Your project will benefit from over **17 years of our firm's advancements** integrating BIM technology into all project phases, including construction and the development of three-dimensional coordination models;

We appreciate your consideration of our unique credentials and expertise presented herein and welcome the opportunity to work with your team on this transformational project. Please contact me at kmorhardt@slamcoll.com, or 860-368-4221 (office), 860-712-9233 (cell) with any questions.

Respectfully submitted,

Kemp A. Morhardt, AIA NCARB
Principal
CT Licensed Architect 14580

1 CORPORATION NAME AND ADDRESS
The S/L/A/M Collaborative, Inc. (SLAM)
80 Glastonbury Boulevard
Glastonbury, CT 06033

2 PERSON AUTHORIZED TO BIND CONTRACT
Kemp A. Morhardt, AIA, NCARB
Principal & Secretary
860.368.4221
KMorhardt@slamcoll.com

3 FIRM CONTACT FOR CITY OF STAMFORD
Kemp A. Morhardt, AIA, NCARB
Principal & Secretary
860.368.4221
KMorhardt@slamcoll.com

4 NAME AND ADDRESS OF ALL SUB-PROPOSERS

Associate Architect:
Amenta Emma Architects
201 Ann Uccello St, Hartford, CT

MEP/FP Engineer:
Consulting Engineering Services, Inc.
811 Middletown Street, Middletown, CT

Educational Planner:
MLP Integrated Design
Dawes Street, Newburyport, MA

Food Service Consultant:
Crabtree McGrath Associates
161 West Main Street, Georgetown, MA

Technology & Security :
D'Agonstino & Associates
477 Main Street, Monroe, CT

Community & Student Engagement
MEMASI
2 Lyon Place, White Plains, NY

Acoustics, Theater:
Cavanaugh Tocci Associates, Inc.
327F Boston Post Road, Sudbury, MA

Code:
Code Red Consultants, LLC
154 Turnpike Road, Suite 200,
Southborough, MA

FF&E Procurement & Installation:
Mathieu Hopkins Interior Design
2121 Durham Road, Madison, CT

Energy Modeling:
Thornton Tomasetti
10 N Main St Ste 307, West Hartford, CT

Pool/Aquatics:
Counsilman-Hunsaker & Associates
10733 Sunset Office Dr Ste 400, St Louis, MO

Cost Estimating:
PM&C
20 Downer Avenue, Hingham, MA

Civil, Traffic & Geotech:
Tighe & Bond
213 Court Street, Middletown, CT

Building Envelope:
RJ Kenney & Associates, Inc.
72 Washington Street. Plainville, MA

Site Environmental
Langan
555 Long Wharf Drive, New Haven CT

Agronomist:
Tom Irwin Advisors
13 A Street, Burlington, MA 01803

HBM:
Eagle Environmental Inc.
8 S Main St #3, Terryville, CT

5 RELATIONSHIP OF ANY PARENT COMPANY
None

6 RESUMES OF PROFESSIONAL STAFF
Please refer to **pages 119-176** detailed information and resumes for each team member:

7 DESCRIPTION OF SIMILAR PROJECTS
Please refer to **pages 15-61** for a brief description and imagery of successfully completed similar projects that our proposed team.

8 CERTIFICATION OF INSURANCE
SLAM will provide certification of insurance in the types and amounts specified, within ten days of selection by the City.

9 VALIDITY OF OFFER
The time for validity of the offer will be one hundred twenty (120) days from the due date of the proposal.

10 EXPERIENCE WITH SIMILAR PROJECTS W/ PROPOSED TEAM & CONSULTANTS

Many of the sub-consultants that SLAM has worked with on our public education projects are highlighted within these pages. We have worked together for a long time, and are familiar with one another and how we operate. This simplifies the entire planning and construction process. The new 310,000 SF Torrington Middle High School and the 380,000 SF Bulkeley High School Renovate as New are two large projects that make use of many of the same professionals that we have recommended for this project.

11 ABILITY TO ADEQUATELY STAFF PROJECTS & STAFF AVAILABILITY

The distance between the Westhill High School and the SLAM Collaborative office is approximately 1.25 hours. This allows our team to easily provide full-time on-site representation when required. We regularly service projects statewide and beyond from our Glastonbury Office.

With 300+ professionals on staff, SLAM is renowned for the breadth and depth of its experience and the resources it has at its disposal to complete your project. The suggested team has previous project-related experience and is available to start and finish the task.

Our project managers are adept at managing at keeping projects moving and on schedule while working on multiple projects at once. We maintain an in depth running forecast of our team workload, which enables us to precisely assign personnel and other resources for the most efficient completion of each project.

Our proposed staff is available for an immediate start.

12 REQUIRED QUALIFICATIONS:
1 HIGH SCHOOL AT $100M - PAST 5 YEARS
2 NEW CT CONSTRUCTION PROJECTS $50M FOR OSCG&R/PAST 5 YEARS

- *Weaver High School
  Construction Cost: $123.9M (2020)
- *Torrington Middle/High School
  Construction Cost: $152M (2025 Completion)
- *Bulkeley High School
  Construction Cost: $146M (2025 Completion)

- *Ox Ridge Elementary School
  Construction Cost: $54M (2023)
- Henry Winters STEAM Elementary School
  Construction Cost: $41.4M (2022)
- Groton Middle School
  Construction Cost: $66.5M (2020)
- *Waterbury Career Academy
- Construction Cost: $55.3M (2013)

*Please **pages 15-61** see our project sheets for more information about these projects.

13 AVAILABILITY OF STAFF WITHIN THE AREA

SLAM and Amenta Emma both have their corporate headquarters in Connecticut. The full architectural staff proposed for the project are local Connecticut residents and will avail themselves to service the project as demands arise. Most key consultants are local Connecticut residents as well with the exception of certain specialized consultants such as aquatics. Provisions have been made for out-of town consultants to service the project as necessary within the proposed fees.

14 LEED ACCREDITED PROFESSIONAL ASSIGNED TO PROJECT:

Our staff includes 70 LEED™ Accredited Professionals. We have over 80 projects in progress or completed, and the construction value of SLAM's sustainable design project work is in excess of six billion dollars. LEED Accredited Team Members include:

- Amy Samuelson, AIA, LEED AP
- Gregg Bergmiller LEED AP
- Dan Granniss, ASLA, LEED AP
- Robert Swain, LEED AP
- Michael Tyre, LEED AP
- Jenna McClure, LEED AP
- Robert Larson, LEED AP BD+C
- Joy Ortiz-Colon, LEED Green Associate

15 HIGH PERFORMANCE BUILDING PROJECTS

The following completed projects have been designed to meet, or exceed the requirements of CT HPBS standards:

- Central CT State University Dorms - LEED Silver Certified
- CREC Public Safety Academy - LEED Gold Equivalent
- East Hampton High School - LEED Silver Equivalent
- Eastern CT State University, Fine Arts Instructional Center - LEED Silver
- Gilmartin PreK-8 School - LEED Silver Equivalent
- Groton Middle School - LEED Gold Equivalent
- Journalism & Media Academy - LEED Gold Equivalent
- Nonnewaug High School - LEED Gold Equivalent
- Waterbury Career Academy - LEED Gold Equivalent
- Weaver High School - LEED Gold Equivalent

The following projects are under construction to meet or exceed the requirements of **CT HPBS standards:**

- Bulkeley High School - LEED Gold Equivalent
- Ox Ridge Elementary School - LEED Gold Equivalent
- Torrington Middle School/High School & Central Office - LEED Gold Equivalent

The Following completed projects have been designed to meet or exceed the requirements of the Northeast Collaborative for High Performance Schools (NE-CHPS)

- Stephen Olney Elementary School - LEED Gold Equivalent
- James McGuire Elementary School - LEED Gold Equivalent
- Rogers High School - LEED Gold Equivalent
- Philips Exeter Academy Student Dormitory
- Providence Career & Technical Academy
- Henry Winters STEAM Elementary School

NetZero Certification

- Rutgers University Student Project Studio, Piscataway, NJ

NetZero Ready

- Bellflower Radiation Oncology, Bellflower, CA
- Emory University RRR Health Science Building, Atlanta, GA
- Rogers High School, Newport, RI
- Waterbury Career Academy, Waterbury, CT

16 STATE OF CONNECTICUT LICENSE:

The SLAM Collaborative is licensed in the State of Connecticut. as a Joint Practice.
Registration number JPC.0000005
Effective Date: 5-1-2023
Expiration Date: 4-30-2024

17 SUB CONSULTANTS EXPERIENCE AND AVAILABILITY

Please refer to **pages 142 - 177** for sub consultants qualifications and experience.

REQUIRED FORMS

Contractor's Statement

Pursuant to Section 103.1 of the Stamford Code of Ordinances, I hereby provide the following:

If a joint venture, trustee, partnership, limited liability company or partnership, the names and addresses of all joint ventures, beneficiaries, partners or members:

NA

If a corporation, the names and addresses of all officers, and the names and addresses of all parties owning over 10% of its common stock or over 10% of its preferred stocks. If any of said stockholders is a holding corporation, the names and addresses of all persons owning a beneficial interest in over 10% if the common or preferred stock of said holding company.

The S/L/A/M Collaborative, Inc. is a Corporation (not a holding corporation). One employee owns over 10% of preferred stock (see below) Officers of the firm include: Terri L. Finucane, IIDA, Chairperson; Gregory Coles, AIA, President; Kemp A Morhardt, AIA, Secretary; Daniel S. Kantor, Treasurer; Brenda Johnson, Asst. Secretary; Lucy Conway, Asst. Treasurer.

Kevin Herrick, AIA (holds 10.03% Stock)
80 Glastonbury Boulevard
Glastonbury, CT 06033

The names and positions of all persons listed hereinabove who are elected or appointed officers or employees of the City of Stamford.

NA

Name of Bidder/Proposer: Kemp A. Morhardt, AIA

Signature of Bidder/Proposer: 

Title: Principal & Officer

Company Name: The S/L/A/M Collaborative, Inc.

Address: 80 Glastonbury Boulevard, Glastonbury, CT 06033

Indicate if company submitting this proposal is: no MBE no WBE no DBE

Non-Collusion Affidavit

The undersigned, having been duly sworn, affirms and says that to the best of his/her knowledge and belief:

1. The prices in this Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other Proposer or with any competitor for the purpose of restricting competition.

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

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

Name of Proposer: The S/L/A/M Collaborative, Inc.

By: _____

Print Name: Kemp A. Morhardt, AIA

Title: Principal & Officer

ACKNOWLEDGMENT

STATE OF Connecticut

COUNTY OF Hartford ss. Glastonbury

Date: 6/6/23

Personally appeared Kemp A. Morhardt, AIA, as Principal & Officer of the above named firm, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief.

Michelle Metzler
Signature of Notary Public
My Commission Expires: _____

EFFECTIVE: 2/24/09

MICHELLE M METZLER
Notary Public
Connecticut
My Commission Expires Mar 31, 2027

City of Stamford

State of Connecticut Contractor Verification (in accordance with Public Act 16-67)

Compliance Affidavit

I, the undersigned, personally and on behalf of The S/L/A/M Collaborative (Contractor), having been duly sworn, affirm and say that I have read, understand and am in compliance with Public Act 16-67 Concerning the Disclosure of Certain Education Personnel Records, Criminal Penalties for Threatening in Educational Settings and the Exclusion of a Minor's Name from Summary Process Complaints, and that neither I nor said Contractor, to the best or my knowledge, is in possession of any information indicating a finding of abuse or neglect or sexual misconduct, or otherwise have knowledge of such a condition(s) for any employees working on the project identified in RFQ/RFP or Bid S-2023.0030 (RFQ/RFP or Bid Number). Further, if I or said Contractor become aware of any information indicating such a finding, or otherwise gain knowledge of such a condition, I and/or said Contractor will immediately forward such information to the City of Stamford.

Contractor Name: The S/L/A/M Collaborative, Inc.

Street Address: 80 Glastonbury Boulevard

City, State, Zip: Glastonbury, CT 06033

Title of person completing this form: Principal & Officer

Signature: [signature]

Printed Name: Kemp A. Morhardt, AIA

Date: 6/6/2023

ACKNOWLEDGMENT

STATE OF Connecticut

COUNTY OF Hartford ss. Glastonbury

Date: 6/6/23

Personally appeared Kemp A. Morhardt, AIA, as Principal & Officer of the above named Contractor, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief on behalf of himself and said Contractor.

[signature]
Signature of Notary Public

My Commission Expires: _____

MICHELLE M METZLER
Notary Public
Connecticut
My Commission Expires Mar 31, 2027

CERTIFICATE OF CORPORATE RESOLUTION
RFQ/RFP

I, Lucille Conway, Assistant Treasurer ~~SECRETARY~~ OF The S/L/A/M Collaborative, Inc.

A CORPORATION EXISTING UNDER THE LAWS OF THE STATE OF Connecticut, DO HEREBY CERTIFY THAT THE FOLLOWING IS A TRUE COPY OF CERTAIN RESOLUTIONS ADOPTED BY THE BOARD OF DIRECTORS OF SAID COMPANY, AT A MEETING THEREOF DULY CALLED AND HELD ON THE 2nd DAY OF February, 20 23.

"RESOLVED, THAT THE Secretary

OF THE CORPORATION BE AND IS HEREBY AUTHORIZED TO SIGN

A CONTRACT WITH THE CITY OF STAMFORD, CONNECTICUT FOR

Architectural/Engineering Services for New Westhill HS, RFP/RFQ No. 2023.0030".

I, FURTHER CERTIFY THAT, Kemp A. Morthardt, AIA IS THE DULY ELECTED Secretary OF The S/L/A/M Collaborative, Inc.

AND THE FOREGOING RESOLUTION HAS NOT BEEN MODIFIED OR REPEALED AND IS IN FULL FORCE AND EFFECT.

IN WITNESS WHEREOF, I HAVE, HEREUNTO, SUBSCRIBED BY NAME AND AFFIXED THE SEAL OF SAID CORPORATION THE 4th DAY OF May, 20 23.

~~SECRETARY~~
Asst. Treasurer

The S/L/A/M Collaborative, Inc. SEAL CONNECTICUT

PROPOSER'S INFORMATION AND ACKNOWLEDGEMENT FORM

RFP No: 2023.0030

Date: January 12, 2023

Proposer's Name: The S/L/A/M Collaborative, Inc.

Street Address: 80 Glastonbury Boulevard

Glastonbury , CT 06033

City State Zip

Business Telephone: 860-368-4221 (Kemp A Morhardt, AIA)

Email: kmorhardt@slamcoll.com

Unique Entity ID: J7CFXGWQNBN9 Tax Id. No.: 06-0950562

Indicate (Yes/No) if company submitting this proposal is:

no MBE no WBE no DBE

(If yes, attach relevant certification)

Signature: Date: 6/6/2023

Printed Name: Kemp A Morhardt, AIA

Title: Principal & Officer

Addenda Acknowledgement – check and note date of addendum

☒ Addenda No. 1 April 19, 2023	☒ Addenda No. 2 May 8, 2023
☒ Addenda No. 3 May 25, 2023	☒ Addenda No. 4 June 1, 2023
☐ Addenda No. 5	☐ Addenda No. 6
☐ Addenda No. 7	☐ Addenda No. 8
☐ Addenda No. 9	☐ Addenda No. 10
☐ Addenda No. 11	☐ Addenda No. 12

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ **Go to *www.irs.gov/FormW9* for instructions and the latest information.**

Give Form to the requester. Do not send to the IRS.

Print or type. See **Specific Instructions** on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

S-L-A-M Collaborative Inc

2 Business name/disregarded entity name, if different from above

The S/L/A/M Collaborative, Inc.

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☑ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

80 Glastonbury Boulevard

Requester's name and address (optional)

6 City, state, and ZIP code

Glastonbury, CT 06033-4415

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

0	6	–	0	9	5	0	5	6	2

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here | **Signature of U.S. person ▶** [signature] **Date ▶** May 15, 2023

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES
CONTRACT COMPLIANCE REGULATIONS
NOTIFICATION TO BIDDERS

(Revised 09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to "aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials." "Minority business enterprise" is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: "(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of Section 32-9n." "Minority" groups are defined in Section 32-9n of the Connecticut General Statutes as "(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4)Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . ." An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder's qualifications under the contract compliance requirements:

(a) the bidder's success in implementing an affirmative action plan;
(b) the bidder's success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
(c) the bidder's promise to develop and implement a successful affirmative action plan;
(d) the bidder's submission of employment statistics contained in the "Employment Information Form", indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
(e) the bidder's promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

INSTRUCTIONS AND OTHER INFORMATION

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder's good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) Definition of Small Contractor

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.

MANAGEMENT: Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

BUSINESS AND FINANCIAL OPERATIONS: These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

MARKETING AND SALES: Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

LEGAL OCCUPATIONS: In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

COMPUTER SPECIALISTS: Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists, systems analysts, and computer support specialists

ARCHITECTURE AND ENGINEERING: Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

OFFICE AND ADMINISTRATIVE SUPPORT: All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving o f written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

BUILDING AND GROUNDS CLEANING AND MAINTENANCE: This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.

CONSTRUCTION AND EXTRACTION: This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category.

INSTALLATION, MAINTENANCE AND REPAIR: Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

MATERIAL MOVING WORKERS: The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

PRODUCTION WORKERS: The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information) (Page 3)

White (not of Hispanic Origin)-All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East. Black (not of Hispanic Origin)-All persons having origins in any of the Black racial groups of Africa. Hispanic- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.	Asian or Pacific Islander- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa. American Indian or Alaskan Native- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

BIDDER CONTRACT COMPLIANCE MONITORING REPORT

PART 1 – Bidder Information

Company Name: The S/L/A/M Collaborative, Inc. Street Address: 80 Glastonbury Boulevard City & State: Glastonbury, CT 06033 Chief Executive: Daniel S. Kantor, CFO	Bidder Federal Employer 06-0950562 Identification Number: Or Social Security Number:
Major Business Activity: (brief description) SLAM is an Architectural / Engineering Firm	Bidder Identification (response optional/definitions on page 1) -Bidder is a small contractor? Yes☐ No☑ -Bidder is a minority business enterprise? Yes☐ No☑ (If yes, check ownership category) Black☐ Hispanic☐ Asian American☐ American Indian/Alaskan Native☐ Iberian Peninsula☐ Individual(s) with a Physical Disability☐ Female☐ -Bidder is certified as above by State of CT? Yes☐ No☑
Bidder Parent Company: N/A (If any)	
Other Locations in CT: None (If any)	

PART II - Bidder Nondiscrimination Policies and Procedures

1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes☑ No☐	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a Conn. Gen. Stat.? Yes☑ No☐
2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes☑ No☐	8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes☑ No☐
3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes☑ No☐	9. Does your company have a mandatory retirement age for all employees? Yes☐ No☑
4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes☑ No☐	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes☑ No☐ N/A☐
5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes☐ No☑	11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor? Yes☐ No☐ N/A☑
6. Does your company have a collective bargaining agreement with workers? Yes☐ No☑ 6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes☐ No☑ 6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of CT? Yes☐ No☑	12. Does your company have a written affirmative action Plan? Yes☑ No☐ If no, please explain. see attached 13. Is there a person in your company who is responsible for equal employment opportunity? Yes☑ No☐ If yes, give name and phone number: Renee M. Latulippe 860-657-8077

Part III - Bidder Subcontracting Practices

1. Will the work of this contract include subcontractors or suppliers? Yes ☑ No ☐

1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)

Please see Attached List

1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? Yes ☐ No ☑

PART IV - Bidder Employment Information

Date: 4/22/2022

JOB CATEGORY *	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Management	26	21	5								
Business & Financial Ops											
Marketing & Sales	7		7								
Legal Occupations											
Computer Specialists	4		4								
Architecture/Engineering	192	105	59	5		6	4	9	4		
Office & Admin Support	23	5	13		3		2				
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction											
Installation , Maintenance & Repair											
Material Moving Workers											
Production Occupations											
TOTALS ABOVE	252	135	84	5	3	6	6	9	4	0	0
Total One Year Ago	265	148	93	5	3	1	0	8	7	0	0
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

*NOTE: JOB CATEGORIES CAN BE CHANGED OR ADDED TO (EX. SALES CAN BE ADDED OR REPLACE A CATEGORY NOT USED IN YOUR COMPANY)

PART V - Bidder Hiring and Recruitment Practices

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)

SOURCE	YES	NO	% of applicants provided by source
State Employment Service	☐	☑	
Private Employment Agencies	☑	☐	15%
Schools and Colleges	☑	☐	30%
Newspaper Advertisement	☐	☑	
Walk Ins	☑	☐	5%
Present Employees	☑	☐	20%
Labor Organizations	☐	☑	
Minority/Community Organizations	☑	☐	10%
Others (please identify)	☐	☐	
Referrals	☑	☐	20%
	☐	☐	

2. Check (X) any of the below listed requirements that you use as a hiring qualification

(X)

x	Work Experience
x	Ability to Speak or Write English
	Written Tests
	High School Diploma
x	College Degree
	Union Membership
x	Personal Recommendation
	Height or Weight
	Car Ownership
	Arrest Record
	Wage Garnishments

3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination

Please see attached SLAM Affirmative Action/EEO Statement

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

(Signature)	(Title)	(Date Signed)	(Telephone)
	Director of Human Resources	5/24/2023	860-657-8077

Attachment for Part III – Bidder Subcontracting Practices Sub-Consultants	Scope
Cavanaugh Tocci Associates, Inc.	Acoustics, AV, Theater
Code Red Consultants, LLC	Code Consultant
Consulting Engineering Services, Inc. (CES)	MEP/FP
Counsilman-Hunsaker	Pool/Aquatics
Crabtree McGrath Associates	Food Service
D'Agostino & Associates	TECHNOLOGY AV & Security
Mathieu Hopkins Interior Design – MBE, SBE, WBE in CT & RI	FF&E Installation
Redniss & Mead	Land Use & Regulatory Approvals
Thornton Tomasetti	Energy Modeling
Tighe & Bond	Civil & Traffic
Tom Irwin Advisors	Agronomist
MLP Integrated Design	Educational Planner
Langan	Site, Environmental & Geotech
Eagle Environmental	HBM
RJ Kenney	Building Envelope
PMC, LLC	Cost Estimating
MEMASI	

AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY POLICY

Preface
The employment policies and practices of the architectural firm of The S/L/A/M Collaborative are to recruit and hire employees without discrimination because of race, creed, color, national origin, sex, age or physical handicap, and to treat employees equally with respect to compensation and opportunities for advancement. We submit this program to assure compliance with Federal and State law and to reaffirm our commitment to a program of equal opportunity and merit employment policies.

Dissemination Policy
Our firm will take appropriate action to ensure that all employees and the employment services utilized by us are advised of this policy of non-discrimination and of our interest in actively and affirmatively providing equal employment opportunity. We shall:

- Distribute this written document to all current employees and to all those individuals who apply for future employment.
- Specify in our advertisements for employees the words, "Equal Opportunity Employer".
- Notify our recruiting sources in writing that our firm will not discriminate in hiring or in advancement of employees on the basis of sex or minority group status, and will require that these sources recruit and refer for all positions in accordance with this policy.

Recruitment
In the event an increase in our design work responsibilities requires the expansion of our staff, this firm will actively encourage minority group applicants to apply for positions as project architects, designers and draftsmen. We shall accomplish this by:

- Requesting colleges, universities and technical schools to refer minority group applicants to apply for openings in our firm.
- Requesting employment agencies to recruit and refer minority group applicants to us.

When an opening does not exist within our organization, we shall refer applicants to other firms or consultants. Furthermore, we

shall make available professionals from our firm to participate in career day programs in high schools in the area which have a high minority enrollment in order to encourage minority students to seek technical training and professional careers in architecture. Our professional staff shall also be available to participate in regional and national programs conducted by the American Institute of Architecture that encourage or promote programs for the training and implementation of jobs for minority groups.

Training
To the extent our workload allows, our firm will participate in the in-house AIA intern program, without discrimination, for graduate architects and will assist in the training of employees to achieve their professional local high schools and technical colleges to provide work experience programs for minority students.

Facilities
The S/L/A/M Collaborative does not and will not maintain or provide any segregated facilities at its place of business and will not permit its staff members to perform these services at any location under its control, where segregated facilities are maintained.

Summary
In brief, it is the policy of the architectural firm of The S/L/A/M Collaborative to encourage and implement equal employment opportunity for all qualified individuals regardless of race, color, religion, sex, age, national origin or physical handicaps.

Contractor's Statement

Pursuant to Section 103.1 of the Stamford Code of Ordinances, I hereby provide the following:

If a joint venture, trustee, partnership, limited liability company or partnership, the names and addresses of all joint ventures, beneficiaries, partners or members:

If a corporation, the names and addresses of all officers, and the names and addresses of all parties owning over 10% of its common stock or over 10% of its preferred stocks. If any of said stockholders is a holding corporation, the names and addresses of all persons owning a beneficial interest in over 10% if the common or preferred stock of said holding company.

Anthony J. Amenta, AIA, LEED AP
Thomas J. Quarticelli, AIA, LEED AP
Robert E. Swain, AIA, LEED AP
Myles R. Brown, AIA, LEED AP
Michael B. Tyre, AIA, LEED AP

The names and positions of all persons listed hereinabove who are elected or appointed officers or employees of the City of Stamford.

N/A

Name of Bidder/Proposer: Robert E. Swain, AIA, LEED AP

Signature of Bidder/Proposer: 

Title: Principal

Company Name: Amenta Emma Architects, PC

Address: 242 Trumbull Street, Suite 201, Hartford, CT 06103

Indicate if company submitting this proposal is: _____MBE _____WBE _____DBE

__X__State of CT DAS Small Business Enterprise

Non-Collusion Affidavit

The undersigned, having been duly sworn, affirms and says that to the best of his/her knowledge and belief:

1. The prices in this Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other Proposer or with any competitor for the purpose of restricting competition.

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

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

Name of Proposer: Amenta Emma Architects, PC

By: 

Print Name: Robert E. Swain, AIA, LEED AP

Title: Principal

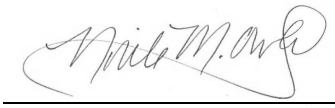
ACKNOWLEDGMENT

STATE OF Connecticut

COUNTY OF Hartford ss. Hartford

Date: 05/01/2023

Personally appeared Robert E. Swain, AIA, LEED AP, as Principal of the above named firm, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief.



Signature of Notary Public
My Commission Expires: 04/30/2028

EFFECTIVE: 2/24/09

City of Stamford
State of Connecticut Contractor Verification (in accordance with Public Act 16-67)

Compliance Affidavit

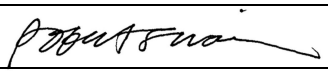
I, the undersigned, personally and on behalf of Amenta Emma Architects, PC (Contractor), having been duly sworn, affirm and say that I have read, understand and am in compliance with Public Act 16-67 Concerning the Disclosure of Certain Education Personnel Records, Criminal Penalties for Threatening in Educational Settings and the Exclusion of a Minor's Name from Summary Process Complaints, and that neither I nor said Contractor, to the best or my knowledge, is in possession of any information indicating a finding of abuse or neglect or sexual misconduct, or otherwise have knowledge of such a condition(s) for any employees working on the project identified in RFQ/RFP or Bid S- 2023.0030 (RFQ/RFP or Bid Number). Further, if I or said Contractor become aware of any information indicating such a finding, or otherwise gain knowledge of such a condition, I and/or said Contractor will immediately forward such information to the City of Stamford.

Contractor Name: Amenta Emma Architects, PC

Street Address: 242 Trumbull Street, Suite 201

City, State, Zip: Hartford, CT 06103

Title of person completing this form: Principal

Signature: 

Printed Name: Robert E. Swain, AIA, LEED AP

Date: May 1, 2023

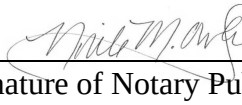
ACKNOWLEDGMENT

STATE OF Connecticut

COUNTY OF Hartford ss. Hartford

Date: 05/01/2023

Personally appeared Robert E. Swain, AIA, LEED AP, as Principal of the above named Contractor, and attested that the foregoing statements are true and accurate to the best of his/her knowledge and belief on behalf of himself and said Contractor.



Signature of Notary Public

My Commission Expires: 04/30/2028

CERTIFICATE OF CORPORATE RESOLUTION
RFQ/RFP

I, Anthony J. Amenta, AIA, SECRETARY OF Amenta Emma Architects, PC

A CORPORATION EXISTING UNDER THE LAWS OF THE STATE OF Connecticut, DO HEREBY CERTIFY THAT THE FOLLOWING IS A TRUE COPY OF CERTAIN RESOLUTIONS ADOPTED BY THE BOARD OF DIRECTORS OF SAID COMPANY, AT A MEETING THEREOF DULY CALLED AND HELD ON THE 27th DAY OF April , 20 23.

"RESOLVED, THAT THE Managing Partner, Robert E. Swain, AIA

OF THE CORPORATION BE AND IS HEREBY AUTHORIZED TO SIGN

A CONTRACT WITH THE CITY OF STAMFORD, CONNECTICUT FOR

Architectural/Engineering Services for New Westhill High School, RFP/RFQ No. 2023.0030".

I, FURTHER CERTIFY THAT, Robert E. Swain, AIA IS THE DULY ELECTED Authorized Signer OF Amenta Emma Architects, PC AND THE FOREGOING RESOLUTION HAS NOT BEEN MODIFIED OR REPEALED AND IS IN FULL FORCE AND EFFECT.

IN WITNESS WHEREOF, I HAVE, HEREUNTO, SUBSCRIBED BY NAME AND AFFIXED THE SEAL OF SAID CORPORATION THE 27th DAY OF April, 20 23.

SECRETARY

PROPOSER'S INFORMATION AND ACKNOWLEDGEMENT FORM

RFP No: 2023.0030

Date: 05/01/2023

Proposer's Name: Amenta Emma Architects, PC

Street Address: 242 Trumbull Street, Suite 201

Hartford, CT 06103

City State Zip

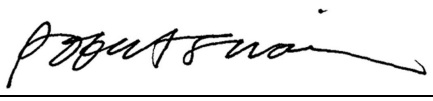
Business Telephone: 860-549-4725

Email: rswain@amentaemma.com

Unique Entity ID: X5JHHMQ6HAW5 Tax Id. No.: 06-1138945

Indicate (Yes/No) if company submitting this proposal is:

_____MBE _____WBE _____DBE
(If yes, attach relevant certification)

Signature:  Date: 05/01/2023

Printed Name: Robert E. Swain, AIA, LEED AP

Title: Principal

Addenda Acknowledgement – check and note date of addendum

X Addenda No. 1	☐ Addenda No. 2
☐ Addenda No. 3	☐ Addenda No. 4
☐ Addenda No. 5	☐ Addenda No. 6
☐ Addenda No. 7	☐ Addenda No. 8
☐ Addenda No. 9	☐ Addenda No. 10
☐ Addenda No. 11	☐ Addenda No. 12

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Amenta/Emma Architects, PC

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see Instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
242 Trumbull Street

Requester's name and address (optional)

6 City, state, and ZIP code
Hartford, CT 06103

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number
[ ][ ][ ] - [ ][ ] - [ ][ ][ ][ ]

or

Employer identification number
0 6 - 1 1 3 8 9 4 5

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification Instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here | **Signature of U.S. person** ▶ Nathalie [illegible] | **Date** ▶ 1/19/2023

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES
CONTRACT COMPLIANCE REGULATIONS
NOTIFICATION TO BIDDERS
(Revised 09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to "aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials." "Minority business enterprise" is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: "(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of Section 32-9n." "Minority" groups are defined in Section 32-9n of the Connecticut General Statutes as "(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4)Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . ." An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder's qualifications under the contract compliance requirements:

(a) the bidder's success in implementing an affirmative action plan;
(b) the bidder's success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
(c) the bidder's promise to develop and implement a successful affirmative action plan;
(d) the bidder's submission of employment statistics contained in the "Employment Information Form", indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
(e) the bidder's promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

INSTRUCTIONS AND OTHER INFORMATION

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder's good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) Definition of Small Contractor

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.

MANAGEMENT: Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

BUSINESS AND FINANCIAL OPERATIONS: These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

MARKETING AND SALES: Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

LEGAL OCCUPATIONS: In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

COMPUTER SPECIALISTS: Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists, systems analysts, and computer support specialists

ARCHITECTURE AND ENGINEERING: Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

OFFICE AND ADMINISTRATIVE SUPPORT: All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving o f written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

BUILDING AND GROUNDS CLEANING AND MAINTENANCE: This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.

CONSTRUCTION AND EXTRACTION: This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category.

INSTALLATION, MAINTENANCE AND REPAIR: Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

MATERIAL MOVING WORKERS: The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

PRODUCTION WORKERS: The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information) (Page 3)

White (not of Hispanic Origin)-All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East. Black (not of Hispanic Origin)-All persons having origins in any of the Black racial groups of Africa. Hispanic- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.	Asian or Pacific Islander- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa. American Indian or Alaskan Native- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

BIDDER CONTRACT COMPLIANCE MONITORING REPORT

PART 1 – Bidder Information

Company Name: Amenta Emma Architects, PC Street Address: 242 Trumbull Street, Suite 201 City & State: Hartford, CT 06103 Chief Executive: Robert E. Swain, AIA	Bidder Federal Employer 06-1138945 Identification Number: Or Social Security Number:
Major Business Activity: Architecture and Interior Design (brief description)	Bidder Identification (response optional/definitions on page 1) -Bidder is a small contractor? Yes ☑ No ☐ -Bidder is a minority business enterprise? Yes ☐ No ☑ (If yes, check ownership category) Black ☐ Hispanic ☐ Asian American ☐ American Indian/Alaskan Native ☐ Iberian Peninsula ☐ Individual(s) with a Physical Disability ☐ Female ☐ -Bidder is certified as above by State of CT? Yes ☑ No ☐
Bidder Parent Company: (If any)	
Other Locations in CT: (If any)	

PART II - Bidder Nondiscrimination Policies and Procedures

1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes ☑ No ☐	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a Conn. Gen. Stat.? Yes ☐ No ☐
2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes ☑ No ☐	8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes ☑ No ☐
3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes ☑ No ☐	9. Does your company have a mandatory retirement age for all employees? Yes ☐ No ☑
4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes ☑ No ☐	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes ☐ No ☐ N/A ☑
5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes ☐ No ☑	11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor? Yes ☐ No ☐ N/A ☑
6. Does your company have a collective bargaining agreement with workers? Yes ☐ No ☑ 6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes ☐ No ☐ 6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of CT? Yes ☐ No ☑	12. Does your company have a written affirmative action Plan? Yes ☑ No ☐ If no, please explain. 13. Is there a person in your company who is responsible for equal employment opportunity? Yes ☐ No ☐ If yes, give name and phone number:

1. Will the work of this contract include subcontractors or suppliers? Yes ☐ No ☐

1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)

1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? Yes ☐ No ☐

PART IV - Bidder Employment Information Date: 05/01/2023

JOB CATEGORY *	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Management	5	5									
Business & Financial Ops	1		1								
Marketing & Sales	2		2								
Legal Occupations											
Computer Specialists											
Architecture/Engineering	27	13	10			2	1	2			
Office & Admin Support	1		1								
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction											
Installation , Maintenance & Repair											
Material Moving Workers											
Production Occupations											
TOTALS ABOVE	37	19	14			2	1	2			
Total One Year Ago	31	15	12			1		3			
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees			1								

*NOTE: JOB CATEGORIES CAN BE CHANGED OR ADDED TO (EX. SALES CAN BE ADDED OR REPLACE A CATEGORY NOT USED IN YOUR COMPANY)

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)				2. Check (X) any of the below listed requirements that you use as a hiring qualification (X)		3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination
SOURCE	YES	NO	% of applicants provided by source			
State Employment Service	☐	☑		X	Work Experience	
Private Employment Agencies	☑	☐			Ability to Speak or Write English	
Schools and Colleges	☑	☐			Written Tests	
Newspaper Advertisement	☑	☐		X	High School Diploma	
Walk Ins	☑	☐		X	College Degree	
Present Employees	☑	☐			Union Membership	
Labor Organizations	☐	☑		X	Personal Recommendation	
Minority/Community Organizations	☑	☐			Height or Weight	
Others (please identify)	☐	☐			Car Ownership	
	☐	☐		X	Arrest Record	
	☐	☐			Wage Garnishments	

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

(Signature)	(Title)	(Date Signed)	(Telephone)
Robert E. Swain, AIA, LEED AP	Principal	05/01/2023	860-549-4725 xt 114

SLAM • AMENTA | EMMA

2

TECHNICAL RESPONSE

SLAM

AMENTA | EMMA

A 272.000-SF theme-driven community school for grades 9-12 now offers students three academic pathways under one roof

HIGH SCHOOL & DOC HURLEY FIELD HOUSE

HARTFORD, CT

SIZE:	272,000-SF
CONSTRUCTION COST:	$82.5M (PHASE 1+2), $41.4M (PHASE 3+4)
PROJECT COST:	$142M
COMPLETION:	August 2019 & April 2020
ENROLLMENT:	900 students

SLAM, in collaboration with Amenta Emma Architects, successfully transformed the 370,000-SF Weaver High School into a more refined and attractive campus for the North End community in Hartford. With a focus on education for grades 9-12, this newly converted 272,000-SF theme-driven community school now offers students three academic pathways under one roof, including The R. J. Kinsella Magnet School of Performing Arts, the Journalism & Media Pathway, and Hartford's Insurance and Finance Pathway.

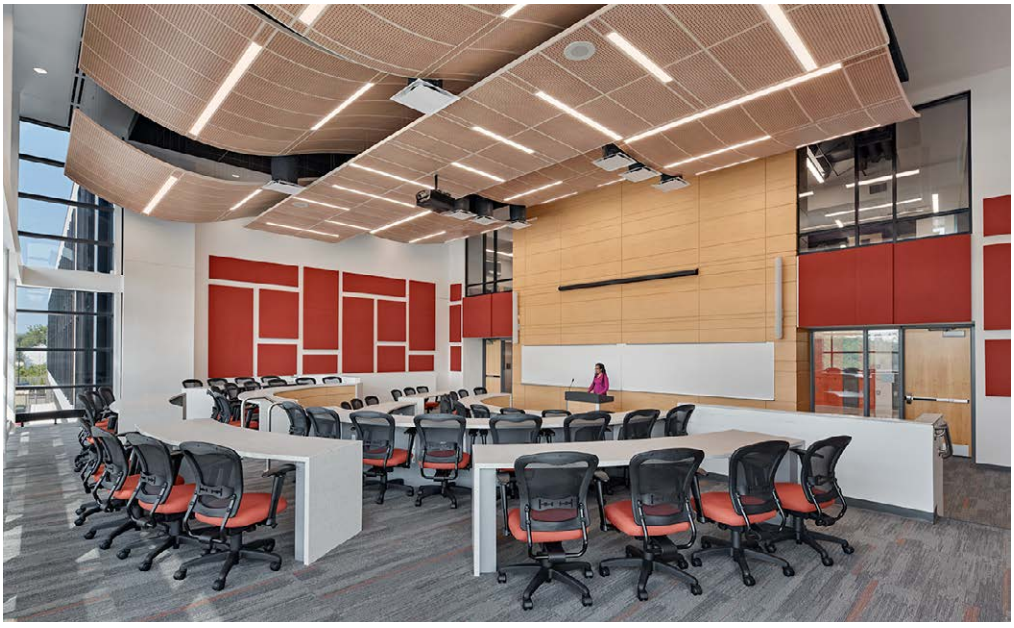
The school was originally designed in the 1970s with enclosed environments and limited views to minimize distractions and help students stay focused. Recent studies have now shown that natural light in learning environments enhances student performance. Public spaces, such as breakout zones and stairwells, had natural light, but the long facade had very few windows. To overcome these challenges, the team removed an entire floor from the building, several structural bays and stairwells to make way for an entrance, a transparent façade and stairwells creating a more inviting environment for students of all disciplines to interact.

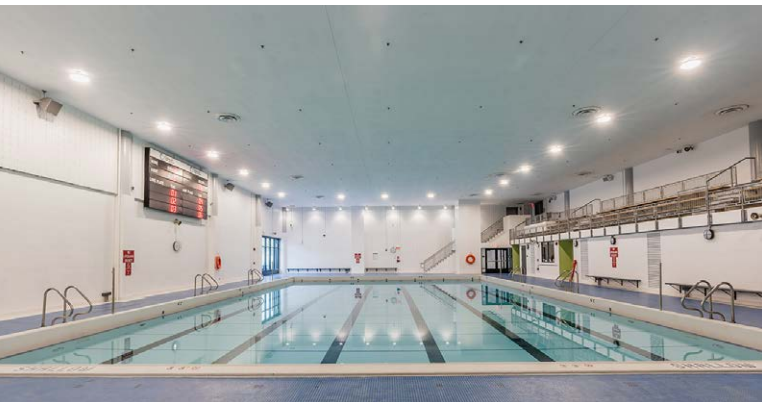
The campus has 18 active learning classrooms and six science labs, a broadcast booth for the WQTQ radio station, a black box theatre, and dance studios. The more public, multi-use spaces have been designed for after-hours use for the community.

The sustainability features include increased natural light, cost-effective materials, energy-efficient systems, and an environment that enhances student learning and wellness.

Designed to CT High Performance Building Standards & LEED Gold Equivalent

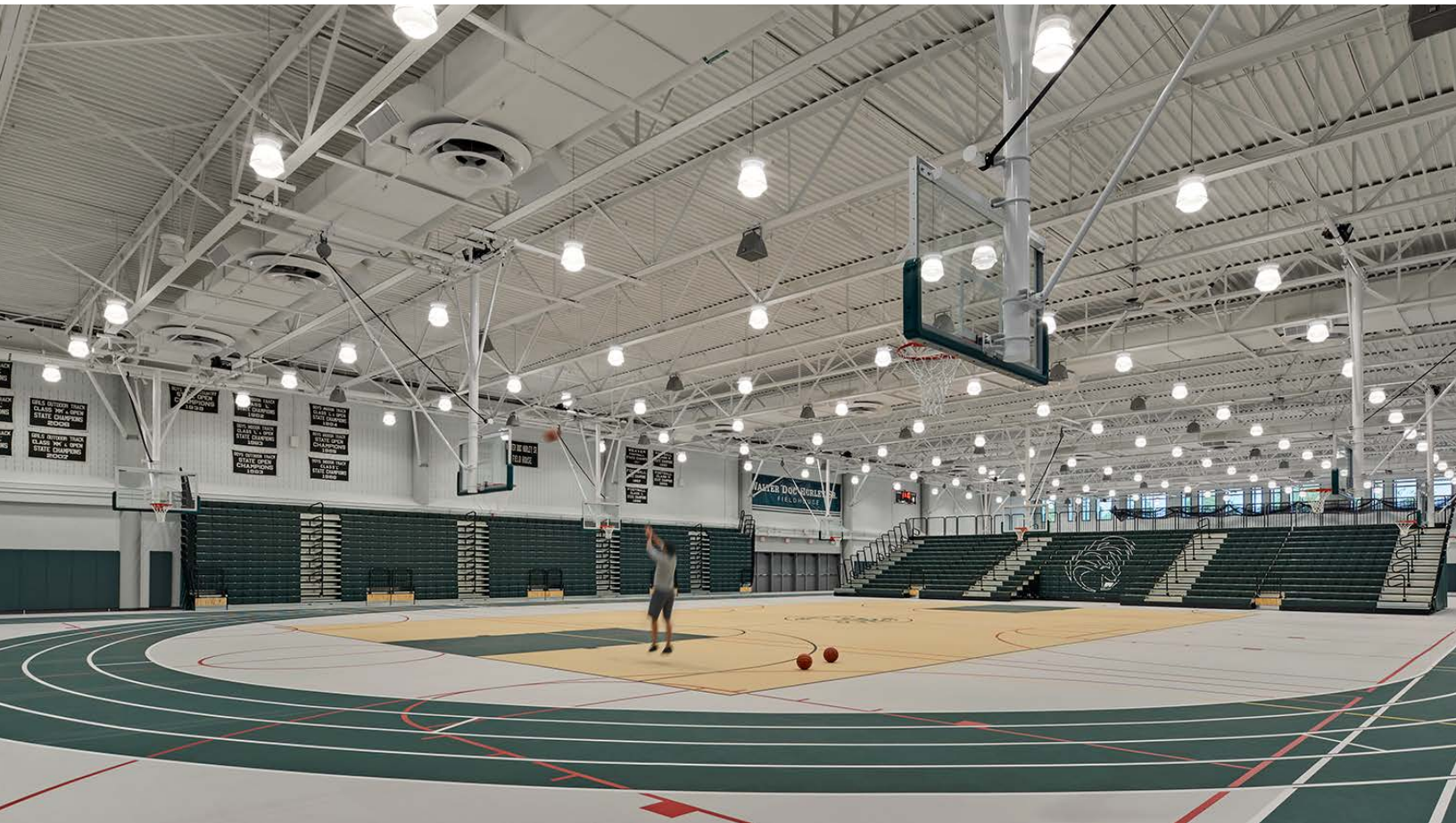
Sustainable design features include increased natural light and cost-effective, energy-efficient materials and systems

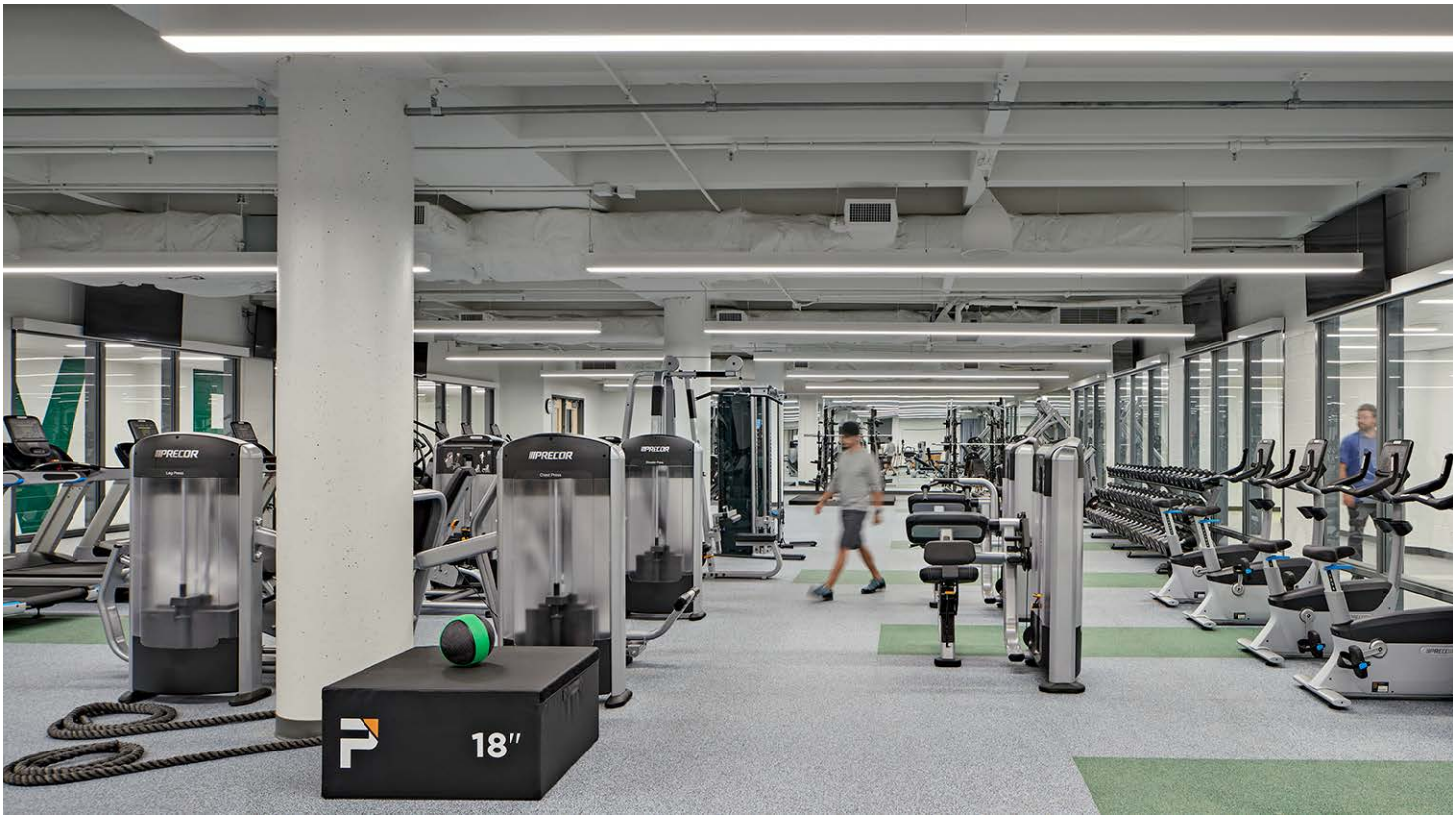


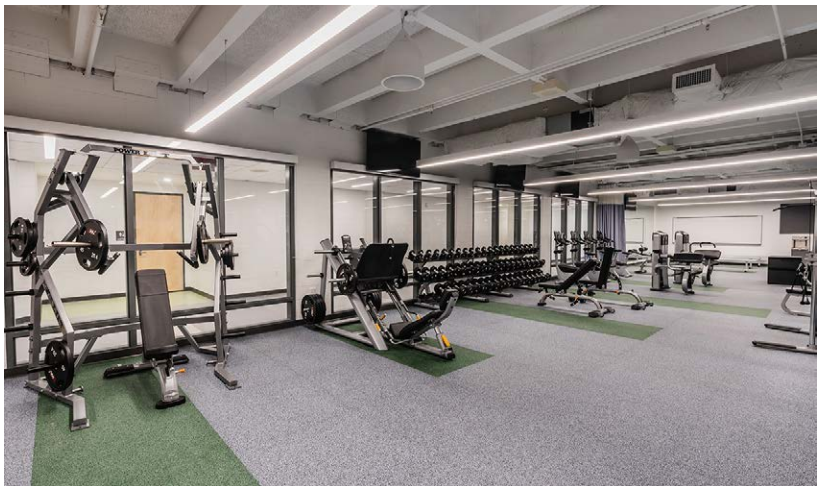


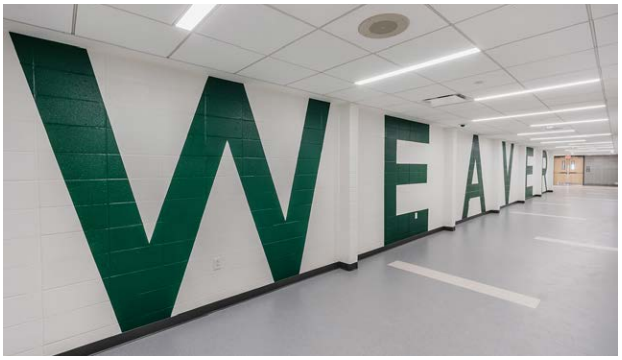
The school offers multi-court field house with natatorium, stadium field with spectator seating, auditorium, practice fields and tennis courts

WEAVER HIGH SCHOOL & DOC HURLEY FIELD HOUSE









Weaver High School is a member of the Connecticut Interscholastic Athletic Conference and offers a variety of athletic opportunities. The newly designed field house and athletic spaces provide a wonderful opportunity for a comprehensive athletics program that includes a fitness center and swimming pool.

Constructed while the current high school remains operational, the existing track and football field will remain in place and when complete, the campus will have additional new athletic fields and tennis courts shared by both schools

TORRINGTON MIDDLE / HIGH SCHOOL

TORRINGTON, CT

SIZE:	310,000-SF
CONSTRUCTION COST:	$152M
PROJECT COST:	$179M
COMPLETION:	August 2025
ENROLLMENT:	1,650 students

The City of Torrington wanted to consolidate their middle school, high school and central administration offices into one dynamic facility on the existing 31 acre high school campus. The new building will support rigorous 21st Century curricula and feature active learning classrooms as well as specialty environments supporting career education pathways with business classrooms, a nutritional foods lab, health classrooms with access to a trainer's lab, a preschool classroom in support of their early education pathway, design and engineering labs that have access to a construction technology shop. The campus will have additional new athletic fields and tennis courts shared by both schools. Enrollment for both schools will total 1,650 students with 645 students in grades 7-8 and 1,005 students in grades 9-12. The central administration suite will house about 30 staff.

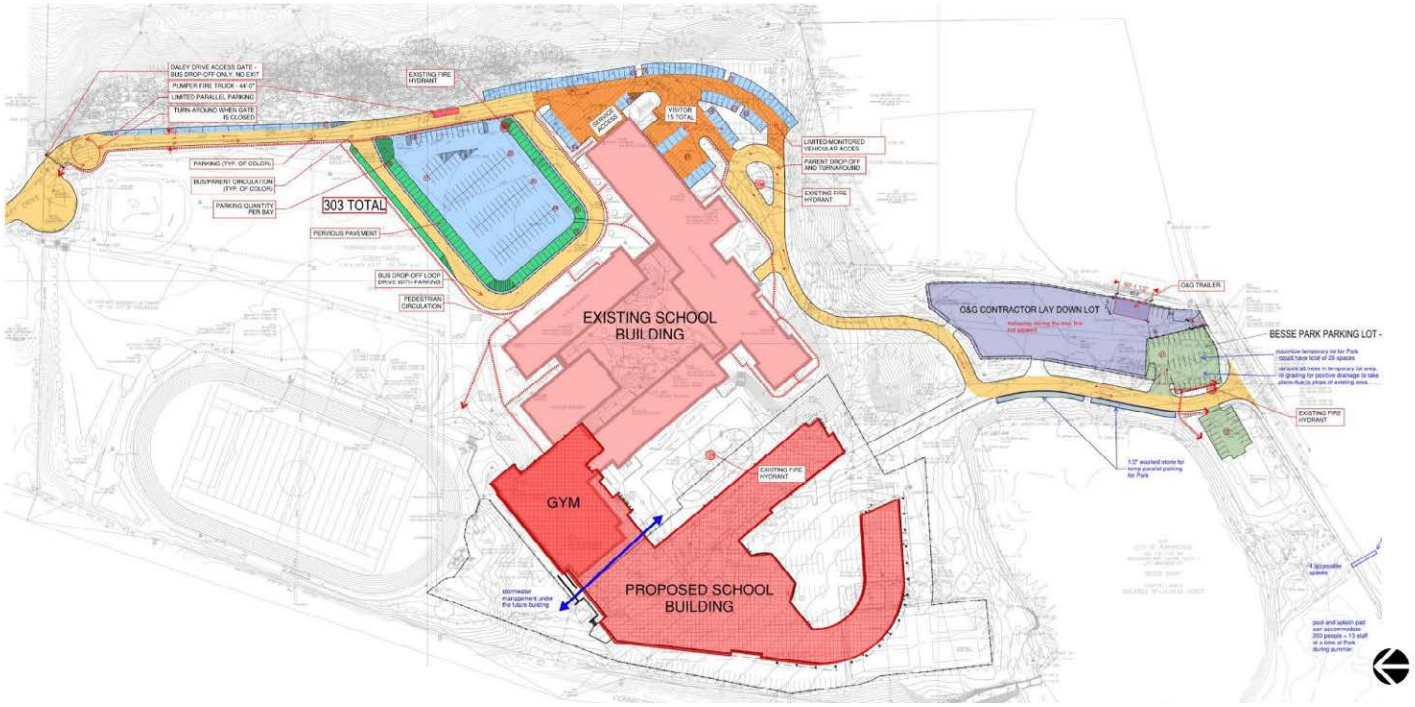
The new building will also have visual arts and music studios and a 475-seat performing arts theater. Torrington Middle / High School (TMHS) was designed to maintain separation between the two schools while capitalizing on shared infrastructure, building systems and campus amenities. The existing track and football field are to remain in place having just been completed six years ago. The relocation of the middle school to this campus is part of a larger district master plan that will permit the re-purposing of the existing middle school into a grade 4-6 building, thus transforming the existing elementary schools into grade K-3 buildings.

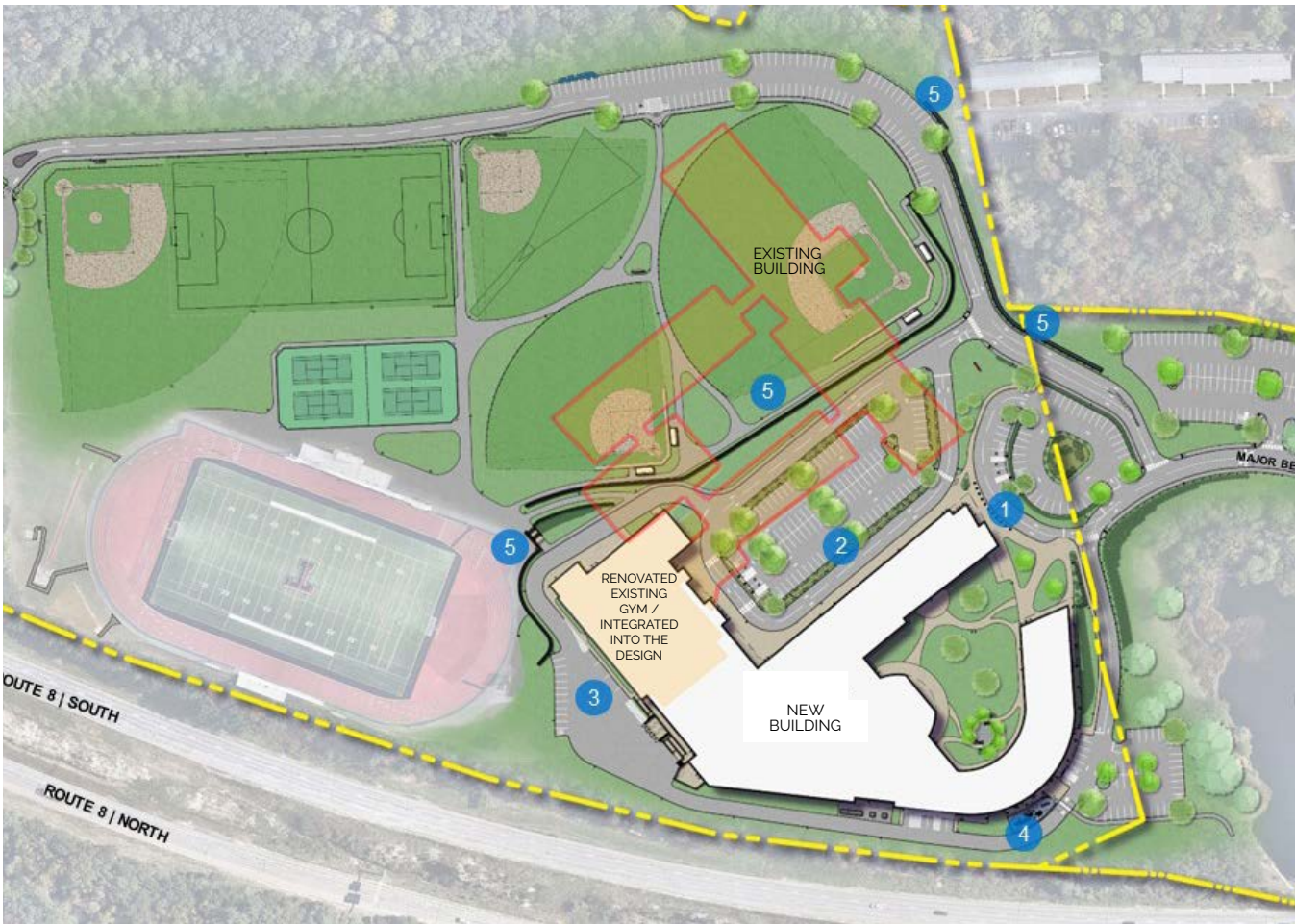
Designed to CT High Performance Building Standards & LEED Gold Equivalent

Cafeteria serves as a Student Commons at the heart of the campus

The new school will have separate entrances and wings for a three-story middle school and four-story high school, connected by a shared central space

Enabling Phase Site Plan





SLAM

Students are provided real world experiences through interactions with local business partnerships.

This new school will be constructed on the same site while the high school remains operational.

ROGERS HIGH SCHOOL

NEWPORT, RI

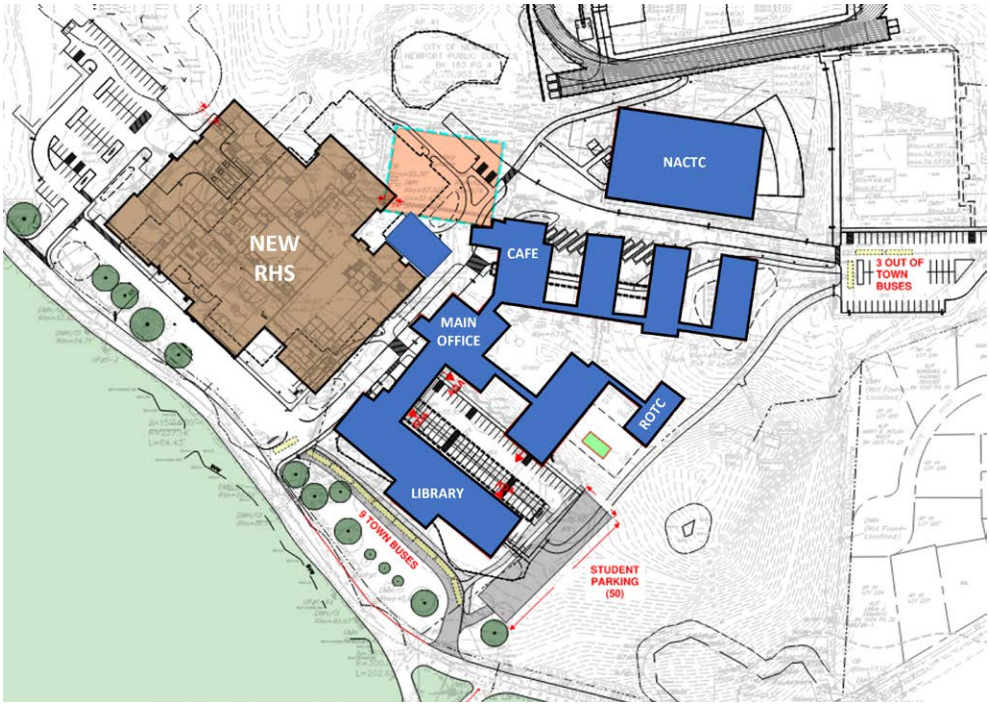
SIZE:	168,000-SF
CONSTRUCTION COST:	$90.4M (est.)
PROJECT COST:	$105M (est)
COMPLETION:	August 2024 (est.)
ENROLLMENT:	755 students

Designed to promote daylighting and views the new school is Net-Zero ready

SLAM is providing full architectural, programming, planning and interior design services for the new Rogers High School in Newport, RI. The new school will offer career and technical (CTE) programs as "career pathways" within a comprehensive high school for 755 students. The CTE program offers students real-world experiences by providing spaces for local businesses to interact with students which parallel employer needs in the Newport/Aquidneck Island/Rhode Island area.

The new high school will create a facility that fosters discovery and innovation by engaging students in an immersive environment that encourages interdisciplinary learning and hands-on experiences such as Culinary Arts, Construction Technology, Advertising, Design and New Media.

The building will be constructed while the existing school is operational. Students will access the building through a single point of entry, leading directly into a large a café style Student Commons, which will serve as a centralized "eat, meet, and greet" hub located adjacent to the Library / Learning Commons. The new high school will include specialty student services environments, such as Life Skills classrooms, simulated apartment, Alternative Learning Program suite, and a sensory OT/PT room. The Studio Theater has a capacity of 200 seats. Small group rooms and breakout seats will be located within the various academic areas to support pullout instruction, project space, and individual study.



The new high school will foster discovery and innovation amongst students, encouraging interdisciplinary learning and hands-on experiences.

OX RIDGE ELEMENTARY SCHOOL & EARLY LEARNING PROGRAM

DARIEN, CT

SIZE:	110,000-SF
CONSTRUCTION COST:	$54M
PROJECT COST:	$63M
COMPLETION:	PHASE 1: August 2022, Phase 2: August 2023
STUDENTS:	558

Flexibility was built into the design to allow for future expansion and multiple programmatic use of spaces.

The multi-level brick structure was built directly into the hillside of the existing elementary school site, maximizing space for the school's 500+ students. The 110,000 GSF elementary school provides inspirational learning environments to 428 students in grades K-5 and 150 Pre-K students in a district-wide Early Learning Program. The two schools share a common entrance to provide a controlled access point, but maintain separation for daily functions. Elementary school classrooms are organized around shared Learning Corridors and communal spaces connecting each grade's classrooms to encourage collaboration between students and teachers.

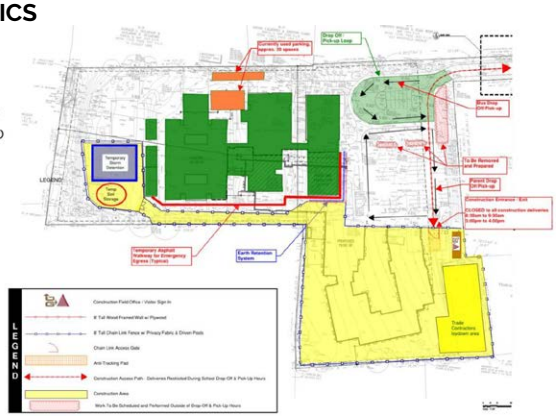
The two schools share a common entrance so as to provide a controlled access point, however maintain separation for their daily functions. Elementary school classrooms are organized around shared Learning Corridors, communal spaces connecting each grade's classrooms to encourage collaboration between students and teachers.

The design provides opportunities to maximize natural light with floor-to-ceiling windows and surrounds a courtyard that offers alternative discovery space for students. The multi-level outdoor 'classroom' will serve the school as an intimate amphitheater space, class gathering spot and a setting for hands-on science instruction.

The project exceeds Connecticut's High Performance Building Standards, achieving LEED Gold equivalent.

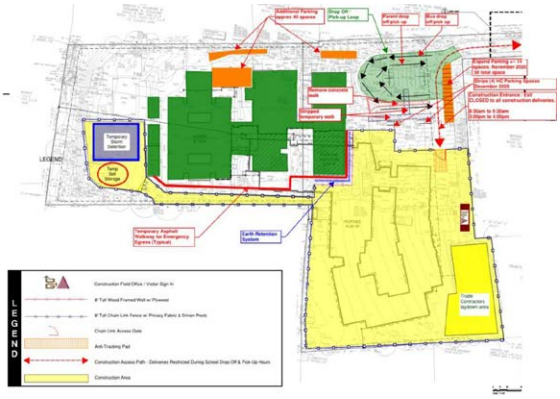
SITE LOGISTICS

Site Prep:
November 1, 2020 –
December 23, 2020



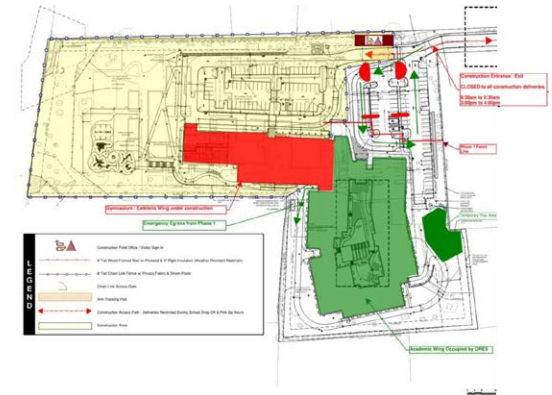
September 24, 2020

Phase 1:
December 23, 2020 –
March 1, 2022



September 24, 2020

Phase 2:
March 1, 2022 –
March 1, 2023



September 24, 2020

EXISTING

FINAL DESIGN

TOWN OF GREENWICH
NEW CENTRAL MIDDLE SCHOOL

GREENWICH, CT

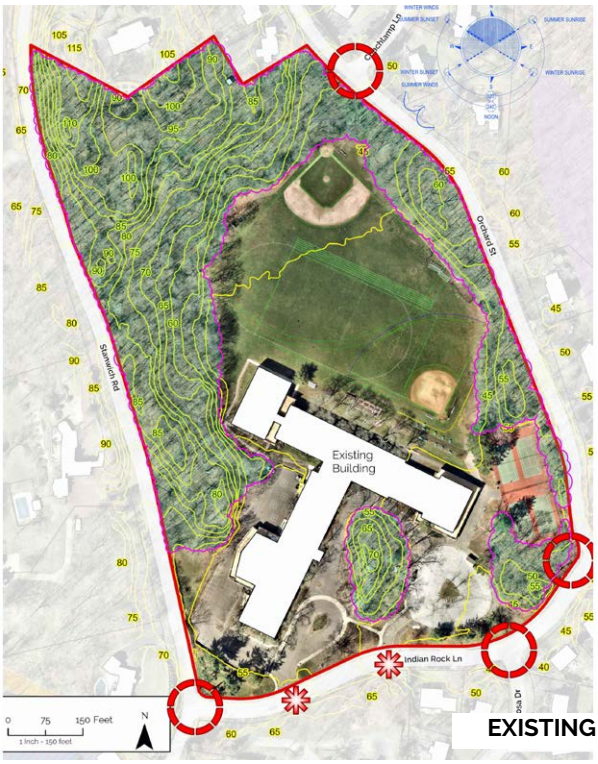
SIZE:	122,000-SF
CONSTRUCTION COST:	$85M (est.)
PROJECT COST:	$100M (est.)
COMPLETION:	December 2025
ENROLLMENT:	660 students

The Town of Greenwich conducted a feasibility study of their existing 1957 Central Middle School to determine whether to renovate or replace the school which was experiencing considerable masonry, structural and programming deficiencies. The study indicated that a new school would eliminate the ongoing expense of repairs and reestablish confidence in the structure of the school, giving students, parents, and staff peace of mind.

SLAM was selected to design and construct the new school in alignment with their long-range educational plan. The new school will be constructed on the same site while the existing school remains operational. SLAM's schematic design proposes nestling the new 660-student school partially into the hill at the northwest corner of the lot to help create more space on site for additional program amenities. This option reduces the scale of the overall building and its impact on neighborhood residences while taking advantage of the forested area to incorporate a nature walk and outdoor classroom learning environments. In this configuration, no elevation would appear to be more than 2 stories and the internal courtyard will allow natural light into the heart of the building.

The interior features will include the creation of active corridors for group learning and collaboration around small "neighborhoods". Other unique program elements are the learning commons, a unified arts program incorporating math, science, technology and arts, advanced security and technological options, and cross discipline learning. The design team is currently exploring the use of heavy timber construction and cross-laminated timber (CLT) to help control costs, reduce the carbon footprint of the construction and to create a "natural" character to the primary interior spaces. This schematic concept has been collaboratively developed as we work closely with Greenwich Board of Education, staff, teachers students and parents to produce a design that best suits the community's needs.

The new school will be constructed on the same site while the existing school remains operational. SLAM's schematic design proposes nestling the new school into the hill to create more space on site for additional program amenities.



EXISTING


PARKING COUNTS
STANDARD SPACES: 120
ADA SPACES: 2
TOTAL PARKING: 122
Coachlamp Ln.
DESIGNATED BUS ENTRY
SERVICE
FIRE LANE
PROPOSED SCHOOL BUILDING
BUS DROPOFF (FITS 8 BUSES
Orchard St.
PARENT DROPOFF
22
DESIGNATED BUS EXIT
THREE WAY STOP WI
RAISED CROSSWALK
POSSIBLE CONNECTI
TO COACH LAMP LA
Stanwich Rd.
14
MULTI-USE FIELD (300'X175')
EXISTING SCHOOL BUILDING
SOFTBALL FIELD
44
EXISTING TENNIS COURTS
BASEBALL FIELD
42
DESIGNATED PARENT ENTRY AND EXIT (AT EXISTING CURB CUT)
Indian Rock Ln.

PROPOSED

BULKELEY HIGH SCHOOL & BABE ALLEN FIELD HOUSE

HARTFORD, CT

SIZE:	380,000-SF
CONSTRUCTION COST:	$188M
PROJECT COST:	$245M
COMPLETION:	December 2025
ENROLLMENT:	850 students + 175 Central Admin Staff

The lower level and play floor of the existing gymnasium and natatorium wing will be fully renovated including new locker rooms, fitness room for the district wide premier sports competitions

The fully renovated Bulkeley High School (BHS) will be designed to serve 850 students in grades 9-12. The existing building was constructed in the early 1970's and was first occupied in 1974 with a student body of over 1,600 and comprised of three primary components; a Main Academic Wing, approximately 201,500 SF; a Gymnasium/Natatorium Wing, approximately 69,000 SF and an Auditorium Wing at 14,500 SF. The auditorium seats 902 and includes a thrust stage and high fly space.

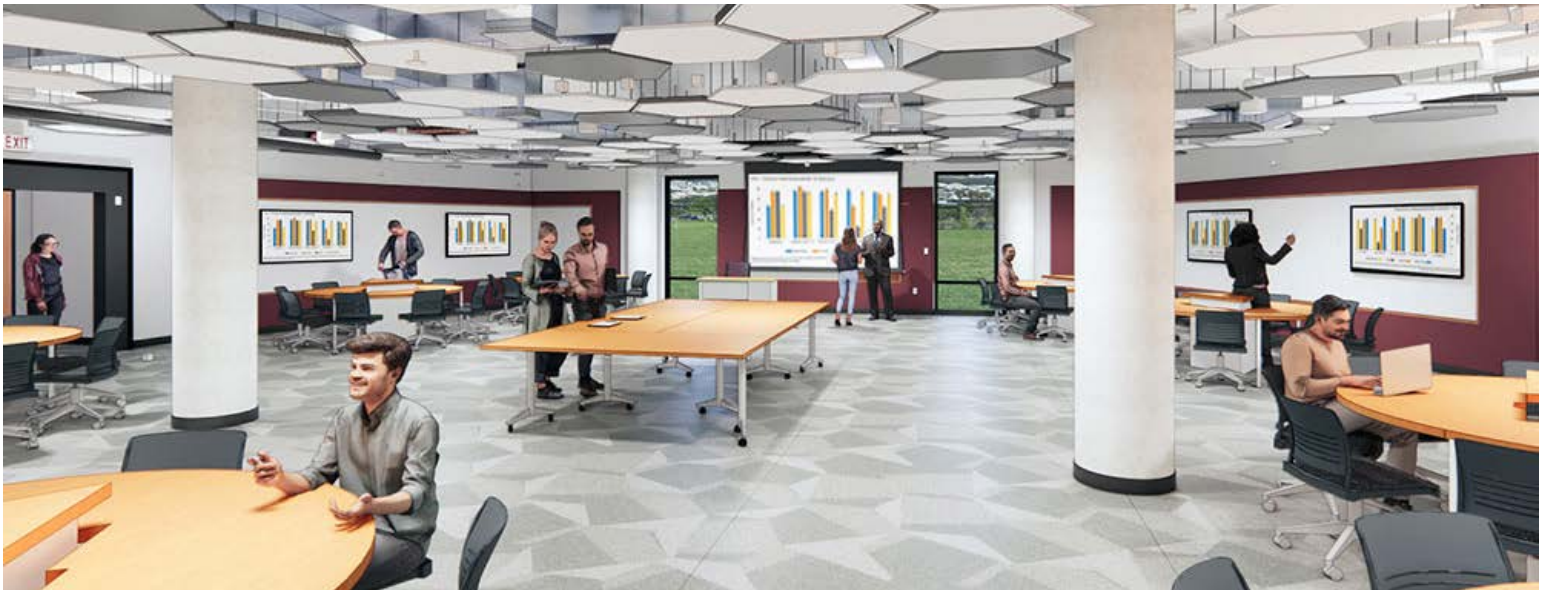
In the re-imagined facility, floors one through four of the Academic Wing will be fully renovated to accommodate a new system of student-centered learning environments. The lower level and play floor of the existing gymnasium and natatorium wing will be fully renovated to provide updated, accessible and equal access to support spaces like locker rooms, trainer's facility, fitness room and uniform laundry and storage for both BHS and district-wide premier sport competitions. The auditorium will also be refreshed to provide accessibility, updated finishes, seating and new theatrical lighting and staging components.

The flexible planning of the academic floors offers opportunities for easy reorganization over the life of the building as curriculum and teaching methodologies evolve. Small "learning communities" are also located amongst the core classrooms, creating schools within a school to provide a more student-centered experience by teachers, support services and administrators.

New construction and renovations in this project will also accommodate the district's Central Administration Offices for 175 employees, the family Welcome Center, print shop and Central Commissionary for Nutrition Services.

BULKELELY HIGH SCHOOL

Small "learning communities" are also located amongst the core classrooms, creating schools within a school to provide a more student-centered experience.




Waterbury Career Academy

Break-out spaces featuring student accessible visual technologies and scenic views are intermittently placed on each floor, fostering the ideal that "learning happens everywhere".

WATERBURY CAREER ACADEMY

WATERBURY, CT

SIZE:	150,000-SF
CONSTRUCTION COST:	$55.3M
PROJECT COST:	$72M
COMPLETION:	August 2013
ENROLLMENT:	800 students

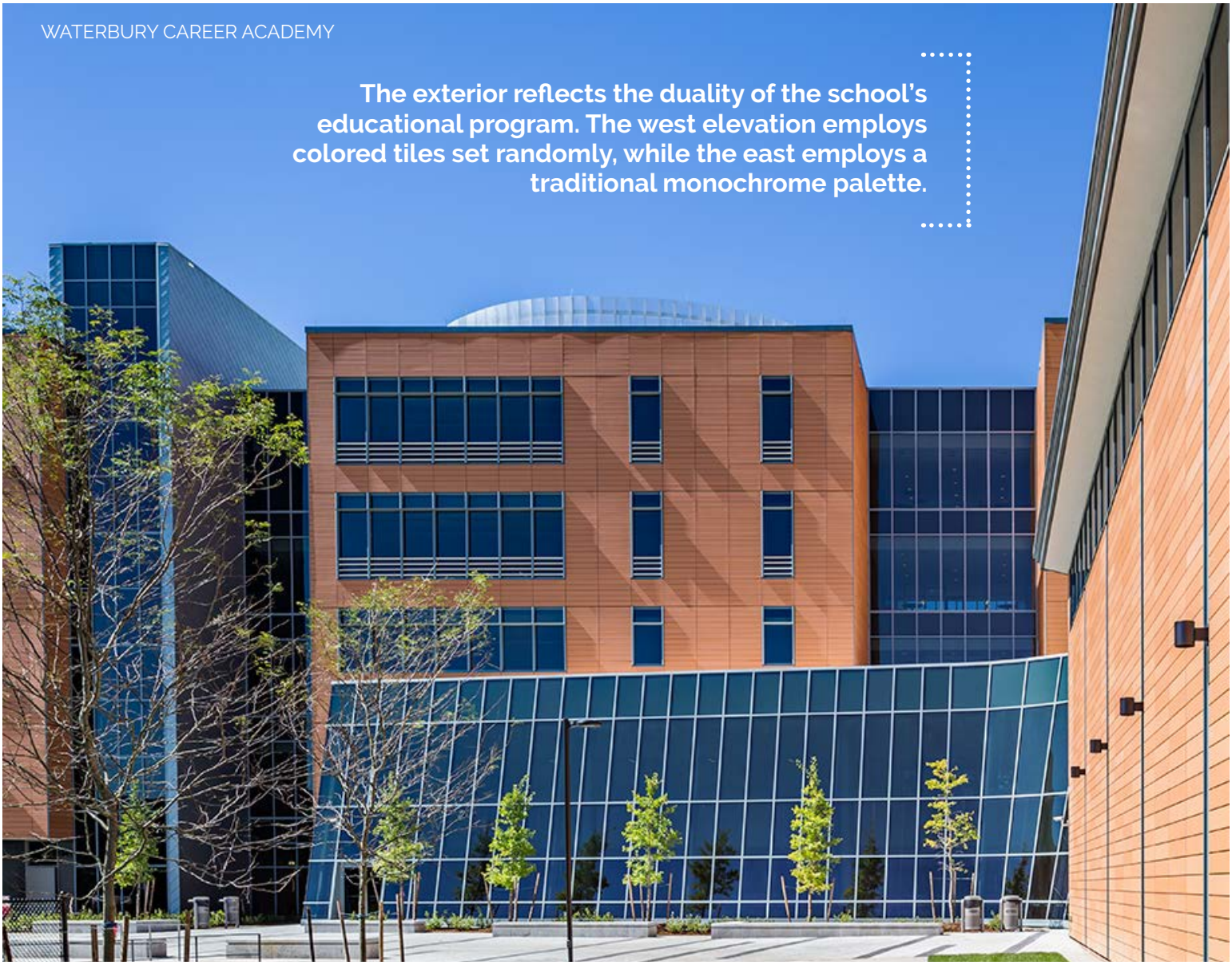
The primary design challenge was to fit a 150,000 GSF career-focused intra-district magnet high school and the equivalent area of a football field on a very steep site, while preserving existing wetlands and other natural features. The result is a five-story facility with a distinctive silhouette against the Waterbury skyline. The building takes advantage of beautiful panoramic views of the city to the west and rolling hills to the east. This dichotomy between the east and west, urban and rural, career pathways and academics was the impetus for the design. The site design also provides separate circulation routes for the various vehicles visiting the site during the course of a day.

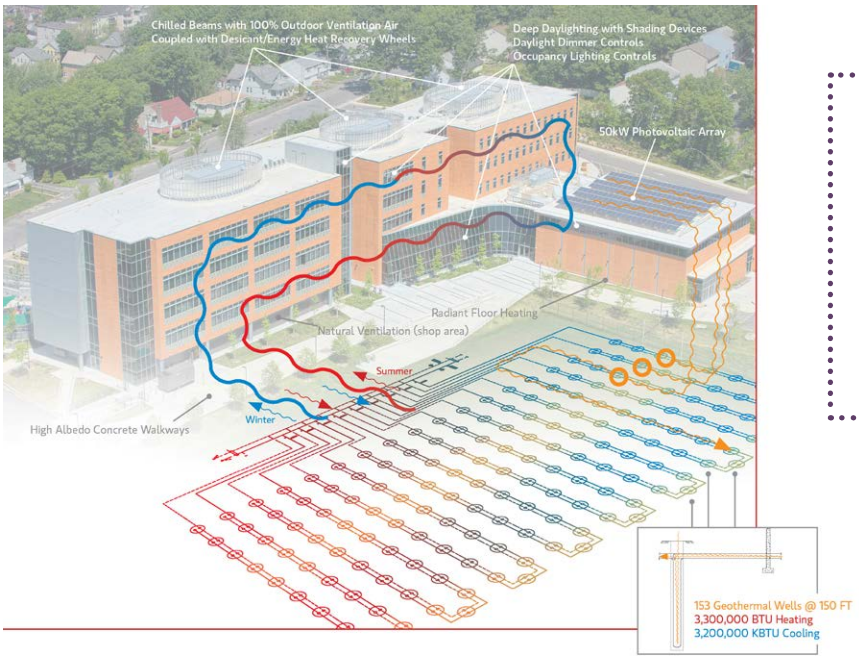
Waterbury Career Academy (WCA) provides a focused education in the areas of Engineering Technology, Computer Systems, Human and Health Services.

Learning environments are designed with state-of-the-art technologies throughout. Teachers are provided with mobile devices allowing them to "plug and play" anywhere in the facility. Break-out spaces featuring student accessible visual technologies and scenic views are intermittently placed on each floor, fostering the ideal that "learning happens everywhere".

The project was designed in accordance with Connecticut High Performance Building Standards, LEED Gold equivalent.

The exterior reflects the duality of the school's educational program. The west elevation employs colored tiles set randomly, while the east employs a traditional monochrome palette.





Multiple sustainable systems were implemented including a high performance thermal envelope, a ground-coupled (geothermal) heating/cooling plant and a photovoltaic (solar) array saving the city considerable operational costs year over year.

The Student Commons: where dining, study and collaboration come together in a bright and welcoming space filled with natural light.

SLAM

"It was a difficult project, trying to run a school at the same time. But this new building helps us reach our mission of achieving 100 percent student success. If I had only one wish, it would be that I'd love to come back here as a student."

- Brian Mignault, Ph.D., Ellis Tech. High School Principal

H.H. ELLIS TECHNICAL HIGH SCHOOL

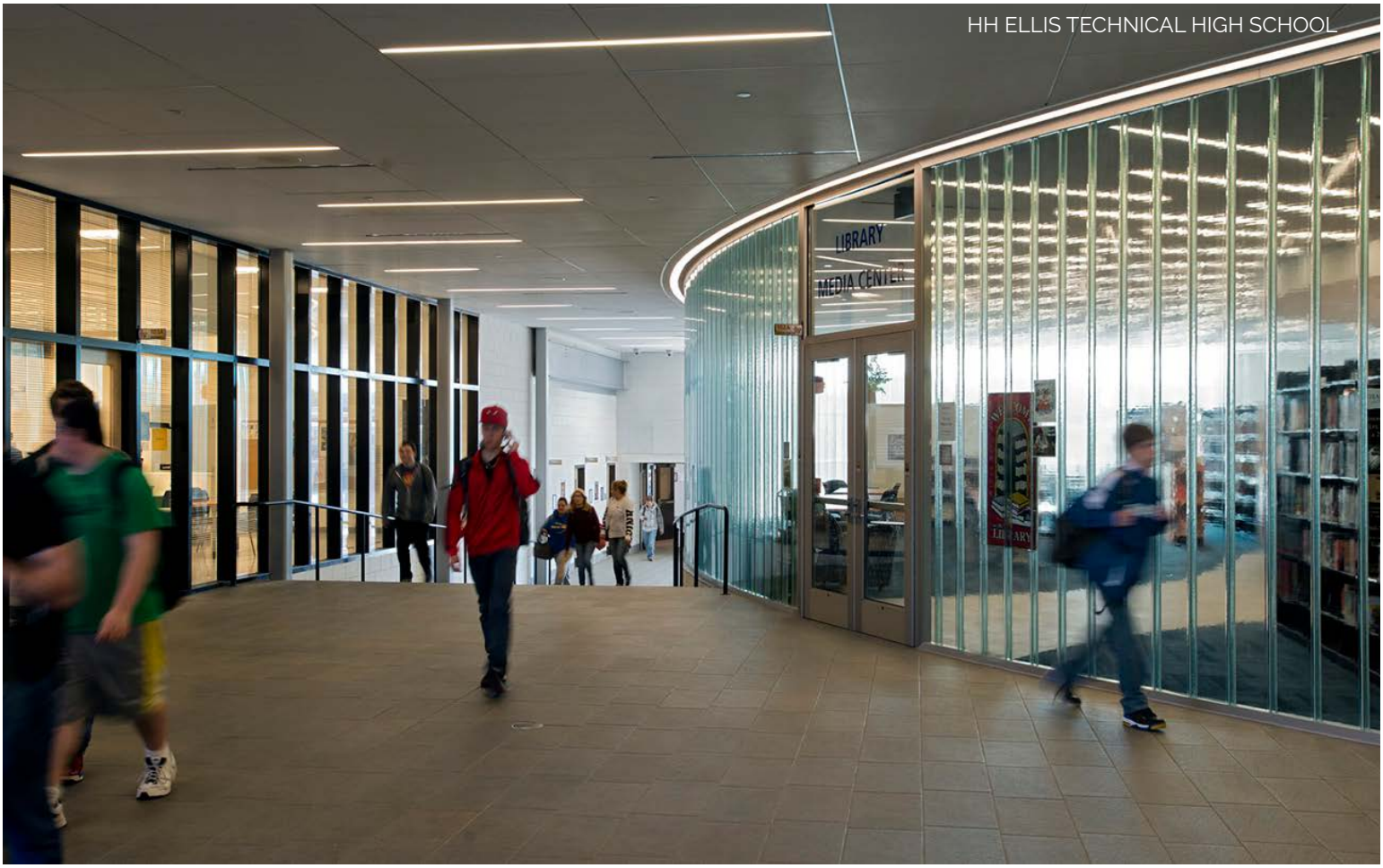
DANIELSON, CT

SIZE:	185,300-SF
CONSTRUCTION COST:	$52.2M
PROJECT COST:	$84M
COMPLETION:	May 2015
ENROLLMENT:	864 students

The Harvard H. Ellis Technical High School underwent an $84 million renovation project that was completed in May 2015[3]. The project increased the school's size by 68,000 square feet and renovated or added a total of 117,300 square feet[3]. The school's former factory-style layout was transformed into a modern and dynamic facility with a streamlined, contemporary image[3]. The new facility serves as a resource to students, local area residents and community members[3]. The composition and form of the school was restructured to allow each element of the school's diverse program – academic, vocational, athletic, and communal – to have a unique architectural expression on the street-facing facades[3].

The new updated school for 864 students embraced 21st century technology[3]. In addition to a complete academic program leading to a high school diploma, the school provides vocational education in 11 areas including culinary arts, hair dressing and cosmetology, manufacturing technology, plumbing and heating, carpentry, electrical, masonry and two automotive technologies[3]. Several programs offer regular low-cost services to the community[3].

The new gymnasium has positioned the school favorably in relation to competing schools for athletics, helping to increase the applications for enrollment in the school overall[3]. Many requests are received from the community to use this and other spaces including the Town of Killingly which currently uses the gymnasium for youth wrestling activities and programs[3].



The composition of the school was restructured to allow each element of the school's diverse program - academic, vocational, athletic, and communal - to have a unique architectural expression on the street-facing facades.

W.F. KAYNOR TECHNICAL HIGH SCHOOL

WATERBURY, CT

SIZE:	212,000-SF
CONSTRUCTION COST:	$51.2M
PROJECT COST:	$67M
COMPLETION:	September 2009
ENROLLMENT:	792 students

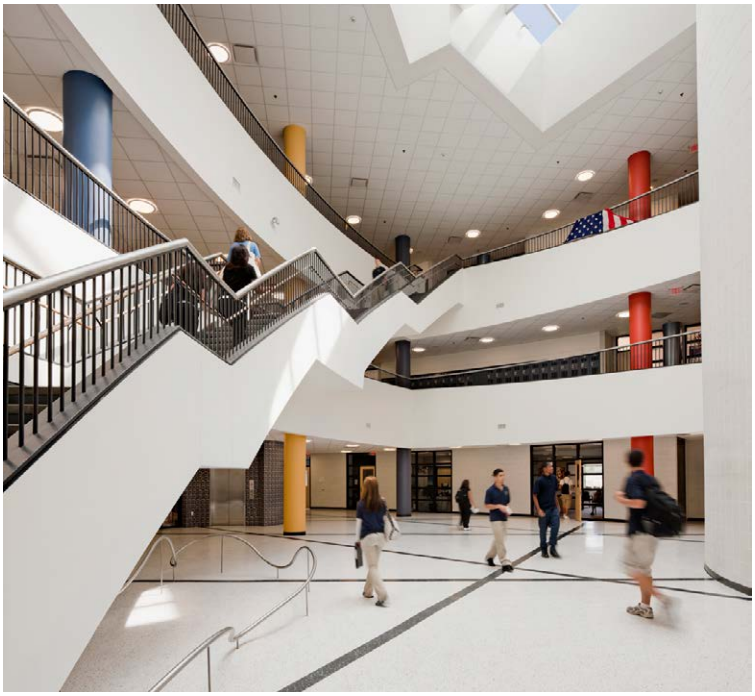
The acronym (STEM) relates to a mindset; a "best teaching practice" incorporating problem solving, project-based learning and critical thinking.

The existing W. F. Kaynor Technical High School was in poor condition, undersized, and in many respects obsolete. Major design goals of this renovation and expansion project included upgraded vocational shops, fully digital academic areas, improved site circulation, and creation of a new image. The client's desire was to improve the image of this school and to design a school that would attract students and help them take pride in attending a vocational school.

The resulting project consists of additions and renovations to provide a 200,000-SF technical high school to accommodate 792 students. The nucleus of the transformed school is a new three-story academic wing with a full-height, skylight capped atrium designed to bring a greater sense of community to the school, while adding a vertical dynamic to what had been a sprawling one-story building. An open stair winding up the side of the atrium makes a theatrical event out of regular classroom changes. The combination of the new vertical/radial classroom wing with the horizontal/linear organization of the shop wing provided a variety of spatial experiences that the school did not have previously.

Programs offered at Kaynor include: Automotive, CAD, Carpentry, Culinary Arts, Electrical, Electronics Technology, Fashion, Hairdressing, Health Technology, Informational Systems Technology, Mechanical Design and Engineering Technology, Plumbing & Heating, and Precision Machining Technology.


WF KAYNOR TECHNICAL HIGH SCHOOL



Featured on WFSB Eyewitness News Segment "Cool Schools" & Winner of 2010 Real Estate Exchange Best in Class for Education

NONNEWAUG HIGH SCHOOL

WOODBURY, CT

SIZE:	150,000-SF
CONSTRUCTION COST:	$54.8M
PROJECT COST:	$63.8M
COMPLETION:	September 2020
ENROLLMENT:	893 students

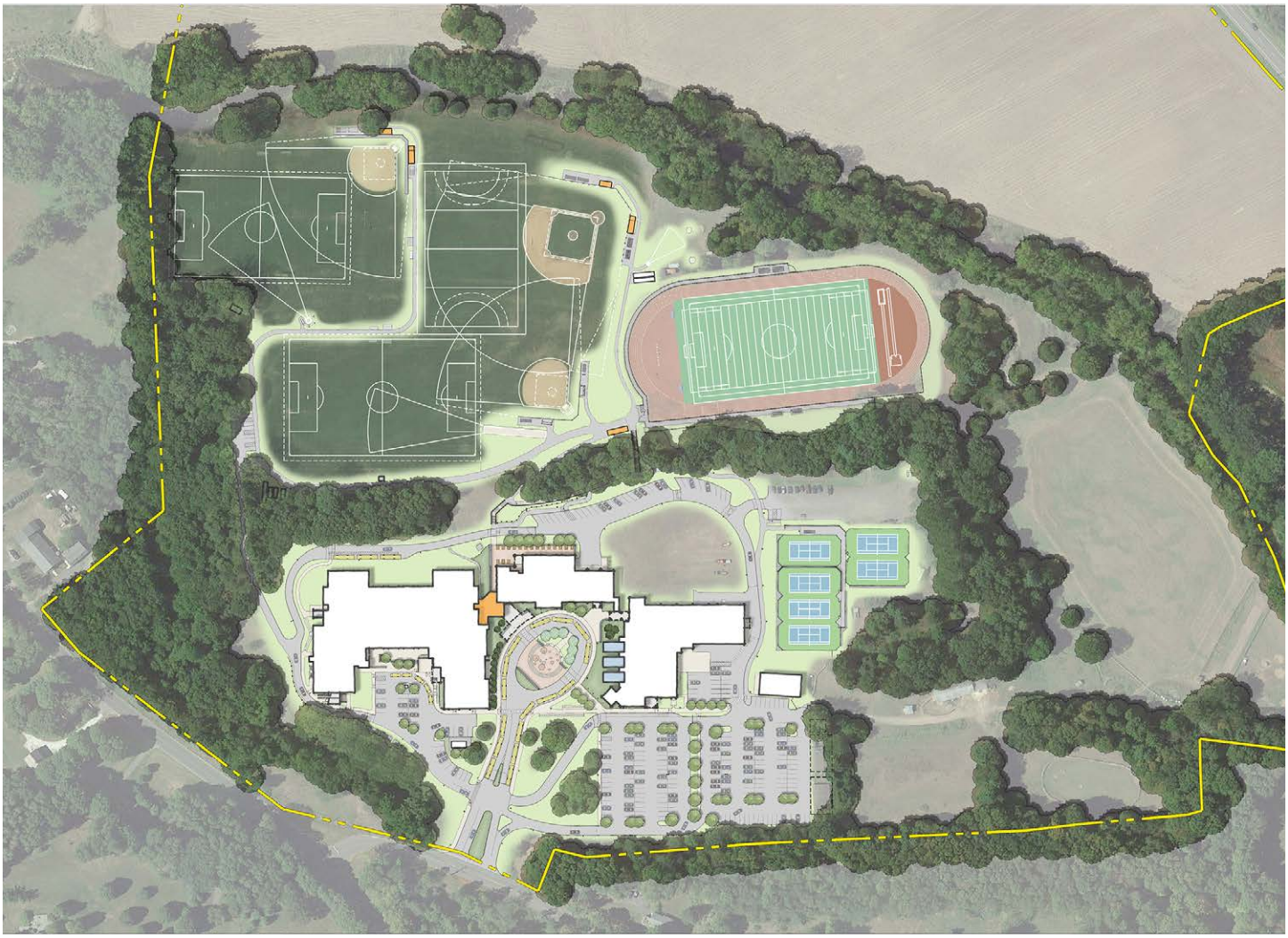
The school was designed to CT High Performance Building Standards LEED Gold Equivalent

This 150,000-SF renovate-as-new project includes replacement of science labs and classrooms with new state-of-the art learning environments; installation of new hands-on learning labs; renovation of dated auditorium with all new audience seating, acoustic wall and ceiling treatments, and appropriate accessibility; renovation of performance stage to include all new flooring, curtains, theatrical lighting, and sound system; renovation of the existing gymnasium by replacing the wood athletic floor, all gym equipment, spectator bleachers, and wall padding; renovation of library media center to include a maker space and updated technology; all new finishes and furniture in the cafeteria, kitchen, offices and conference rooms.

The existing 2-story main corridor is brightened with new finishes, new lockers, sleek metal railings, and sunlight reflecting solar tubes for lighting. To meet current energy codes, all HVAC systems were replaced, as well as plumbing fixtures and infrastructure, and old single-pane windows were replaced. The building was also upgraded to include new life safety measures including an entirely new fire suppression (sprinkler) system and to meet the CT guidelines for school safety infrastructure.

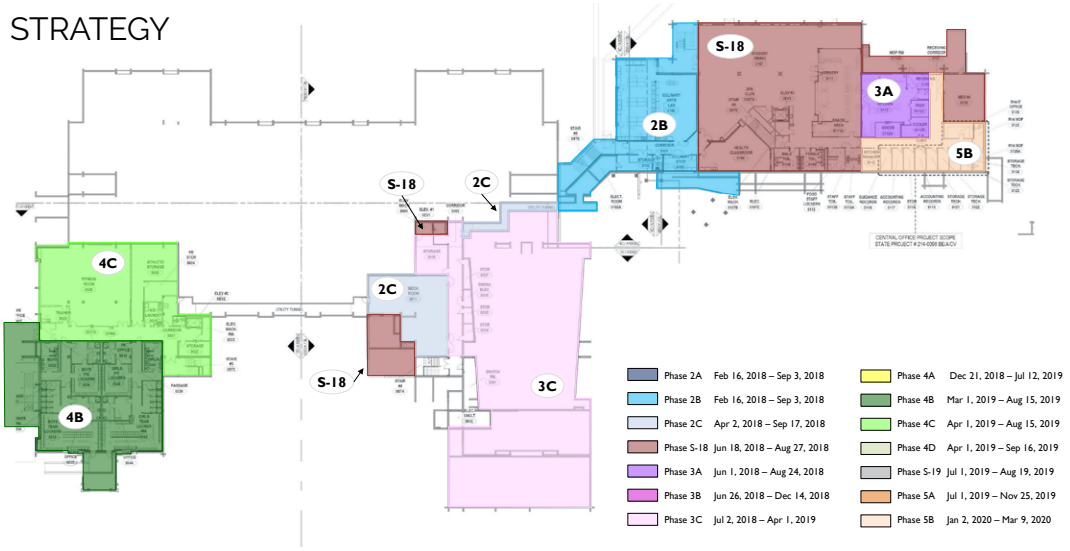
Site improvements included a CT DEEP Permitted septic system, new parking lots, reconfigured site circulation to improve safety, a beautiful entry and graduation plaza, and plantings. Natural athletic fields were renovated in place and will receive a new irrigation system, and a new multipurpose artificial turf field will be installed at the existing track.

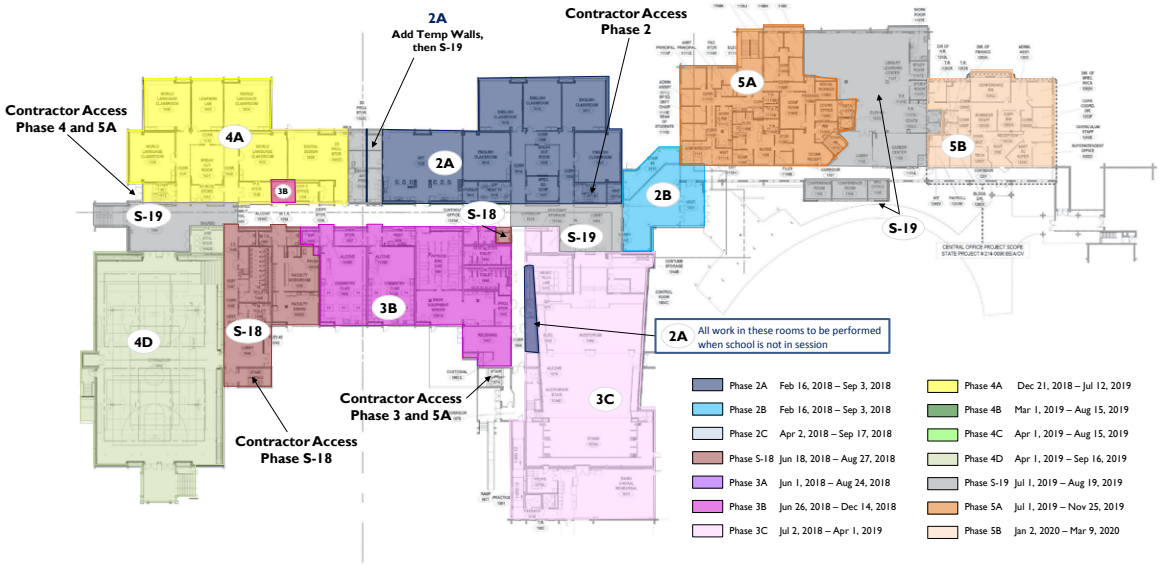
The Voag program offers courses in animal science, plant science, natural resources, and agricultural mechanics.

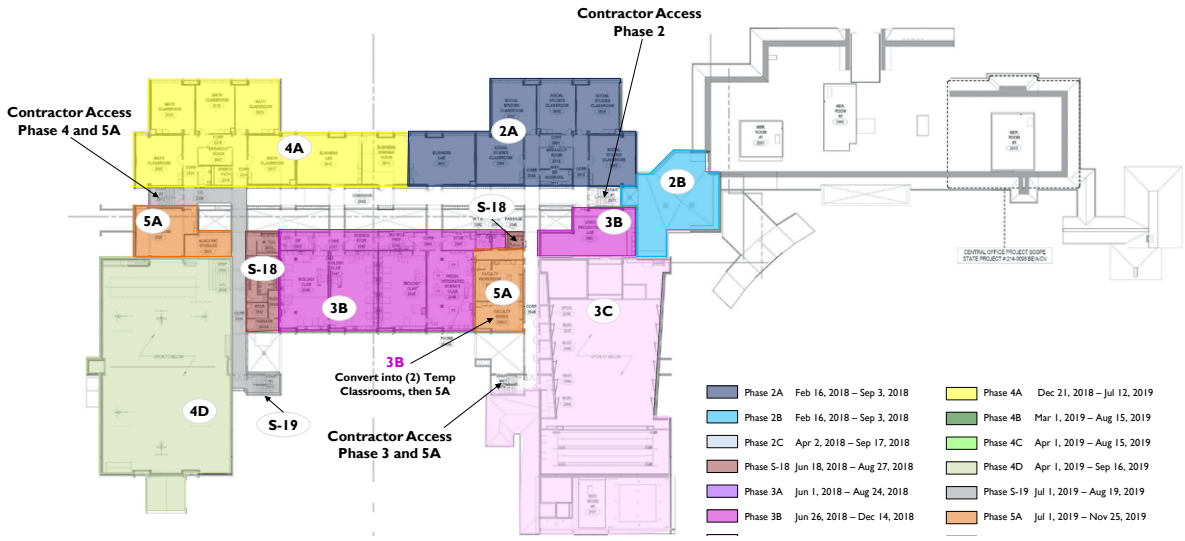



NONNEWAUG HIGH SCHOOL

PHASING STRATEGY







SLAM

EAST HAMPTON HIGH SCHOOL

EAST HAMPTON, CT

SIZE:	125,000-SF
CONSTRUCTION COST:	$43.7M
PROJECT COST:	$52M
COMPLETION:	June 2017
ENROLLMENT:	580 students

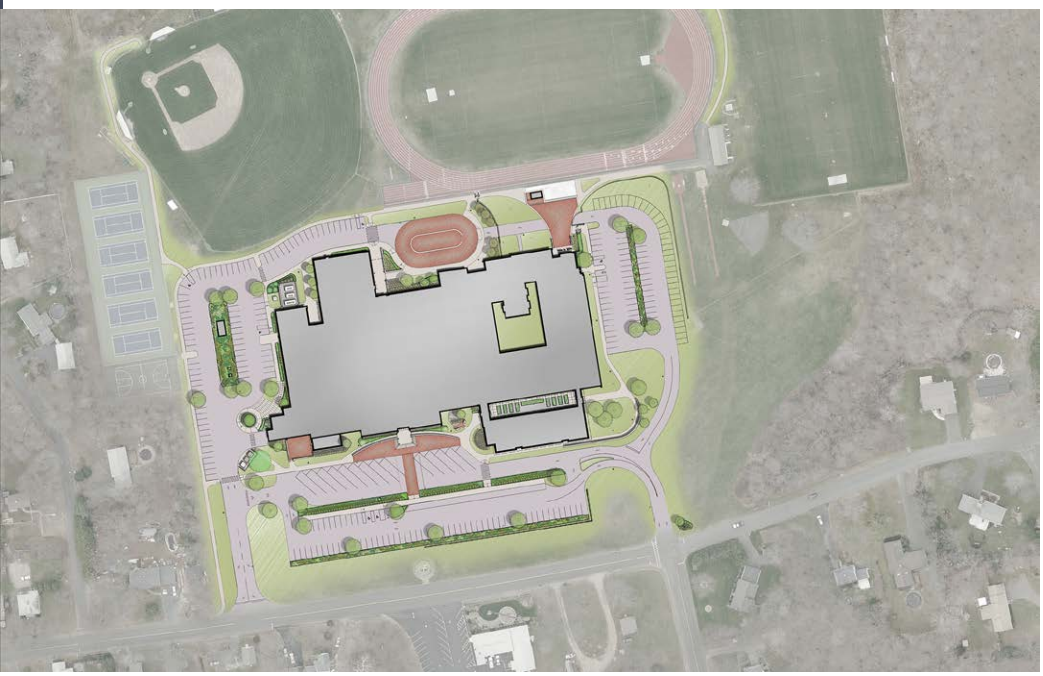
This Renovate-as-New Project provides a dynamic space for 21st century learning within an existing single-story high school

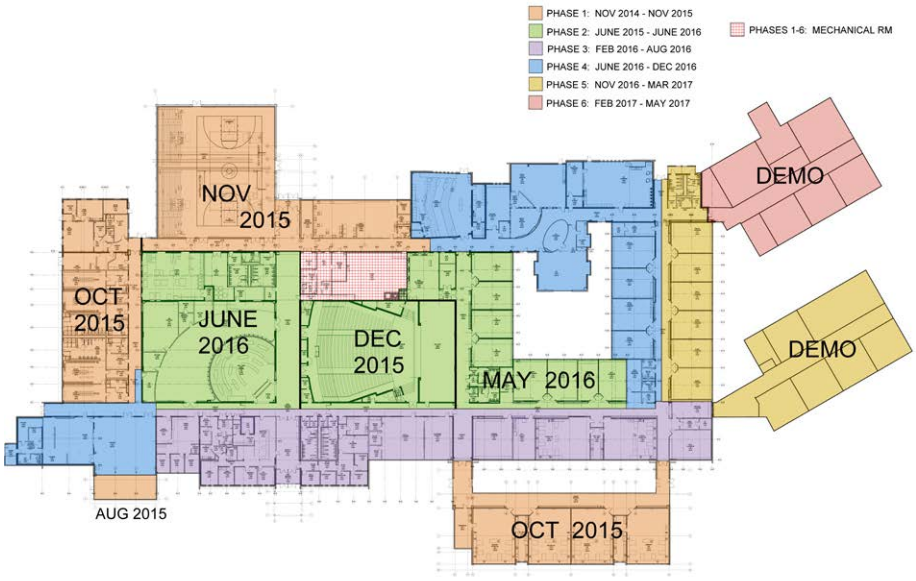
This **renovate-to-new** project provides a dynamic space for 21st century learning within an existing single-story high school (circa 1962), while also meeting current life-safety and accessibility codes, providing appropriate levels of security, and improving building energy efficiency, indoor air quality, and acoustics.

The project includes approximately 93,000 SF of academic, student and community space renovation and an addition of approximately 32,000 SF. The addition consists of a new science wing, a lecture hall, and expanded cafeteria and gymnasium areas. The renovation includes abatement of hazardous materials, complete new building systems, and reconfiguration of the interior to create a more efficient and effective use of space.

Site-safety improvements included the separation of bus loop, parent drop-off, and student parking, a fire department access lane around the entire school, additional parking to address athletic events and community use of the building, and site security enhancements.

Designed to meet Connecticut's High Performance Building Standards, LEED Silver equivalent.





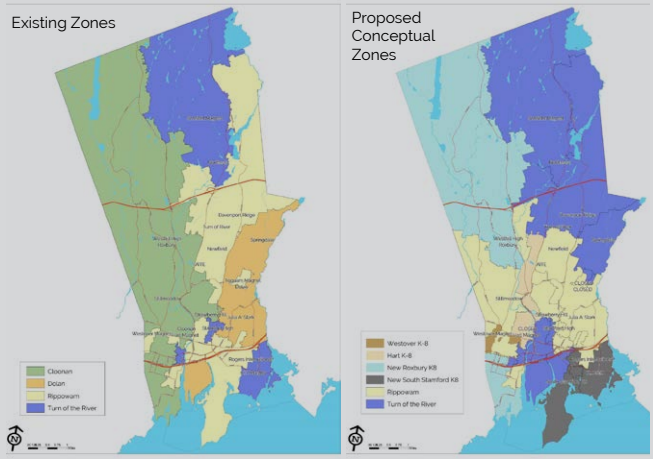
The construction of East Hampton High School was broken into six phases. The phasing plan built new additions first and used two outlying classroom wings as swing spaces. The building construction was designed to respond to New England Association of School and Colleges (NEASC) educational deficiencies and transform building and site circulation. The renovation of the high school continued apace with windows being installed in the final phases.

STAMFORD EXPERIENCE

83 LOCKWOOD AVENUE

EARLY CHILDHOOD CENTER

Feasibility study, cost estimate and grant application for a new facility for Stamford's Early Childhood Center program, Apples. Scope included three options: a complete renovation of the existing 101,015-SF and two new building options (Finger and Courtyard options). Total square footage, project costs, allowable area for grant and state reimbursement costs were compared for all three options. It was determined that the renovation option would have exceeded the state's allowable $450/SF for renovation status approval, in addition to other related building concerns, such as circulation issues, inefficient classroom sizes and program adjacencies. The selected Fingers Option accommodates the desired site program, provides strategic separation of building access points, secured playground spaces and maintains the Lockwood Ave entrances for visitor arrival. The building is comprised into six classroom clusters with two secured playgrounds for smaller groupings, and three gross motor rooms with direct access to the exterior playground.



Middle School Existing vs. Proposed Zones

EARLY CHILDHOOD CENTER

FEASIBILITY STUDY & GRANT APPLICATION

The selected Finger Option accommodates the desired site program, provides strategic separation of building access points, secured playground spaces and maintains the Lockwood Ave entrances for visitor arrival. The building is comprised into six classroom clusters with two secured playgrounds for smaller groupings, and three gross motor rooms with direct access to the exterior playground.

SOUTH SCHOOL ED SPECS

SLAM prepared Educational Specifications (Ed. Specs) for the South K-8 School project, which provides the rationale and justification for the project and serves as the link between the desired educational program and future design phases of the project. In collaboration with administrators and educators, SLAM worked to document the District's desired educational program, inclusive of the spatial requirements, locations, adjacencies, and characteristics of each space. A unique aspect of this project was the need to create a unified educational program that spanned two sites and grade groupings (K-4 and 5-8). This was achieved by providing consistent program spaces, building systems, materials, products, and accessories across both buildings, and leveraging shared services such as a shared School-Based Health Clinic.

LONG RANGE FACILITIES

PLANNING

Design and planning services for educational facility assessments and demographic study, resulting in comprehensive master plan for Stamford Public Schools (SPS). Evaluation of the physical condition of existing school facilities, assessing school capacity & utilization across the district and preparing a demographic study and 10 -year enrollment projections. The data generated from the investigative portion of the study will inform planning scenarios developed for facility-best-use, alignment of student attendance zones to schools and improved facility utilization over the next 20 years. The master plan will be used to guide the SPS with research-based knowledge of best models to incorporate its mission and educational vision, as well as national educational standards, and provide a framework for implementation.

SOUTH K8 SCHOOL

DUAL SITE PROGRAM ED SPECS

Architectural and engineering services for feasibility planning, cost estimating, and grant application for the Office of School Construction Grants and Review (OSCGR). The project involves developing options and cost estimates for two sites: 83 Lockwood Avenue and 19 Horton Street, a K-8 school with an estimated 1,064 students-the two school(s) will be developed on separate sites, one K-4 for 591 students (Lockwood) and one 5-8 for 473 students (Horton St). The scope of work includes submitting required supporting documentation, such as concept plans and educational specifications, as well as enrollment projections for eight years to support the size of the proposed facility with a logistic plan.

Vibrant accent colors, natural light, sleek surfaces and vistas in and through the building make it feel like a Silicon Valley work space, ideal for collaboration and flexibility.

PATHWAYS ACADEMY OF TECHNOLOGY AND DESIGN

EAST HARTFORD, CT

SIZE:	81,000-SF
CONSTRUCTION COST:	$38,680,000
PROJECT COST:	$48,350,000
COMPLETION:	2015
ENROLLMENT:	425 students

High school or Silicon Valley think tank? The convergence of the two ideas was intentional in the design of this new magnet high school for students excited about technology. The Academy sits on the edge of a college campus which promotes a strong connection between the two institutions and neighboring technology focused industries.

As a member of the National Academic Foundation, Pathways Academy of Technology and Design maintains an Industry Advisory Board, which fosters student professional development and internships. Its location on the College campus affords opportunities for secondary education, as well as direct relationships with nearby manufacturing entities such as the Connecticut Center for Advanced Technology and UTC's Pratt and Whitney.

Goodwin College was looking for a highly visible and transparent building to align with the modern, innovative character of the overall campus. The City of Hartford also wanted a building which broadcast the technical focus of the school. Amenta Emma created a building with a visually dynamic interior environment where all school functions are organized around a light-filled atrium.

The 81,000-sf four-story building provides a variety of interactive learning environments in magnet-themed spaces such as robotics, advanced energy and nanotechnology, physics/optics and photonics, video and music production, advanced design, and virtual reality. Collaboration lounges outside of classrooms are located on the upper floors of the atrium. Student projects are displayed in LED-light glass cases in high traffic common areas. The MDF (Main Distribution Frame) Room, normally hidden away in a discrete location is featured in the atrium and blinking lights, racks and cables are visible through a full-height glass wall and celebrated as the high-tech "heart" of the school.

The school was designed to CT High Performance Building Standards, LEED Silver Equivalent.

The creation of interior and exterior gathering spaces promote opportunities for students and the school community to connect, formally and informally.

QUINEBAUG VALLEY MIDDLE COLLEGE HIGH SCHOOL

DANIELSON, CT

SIZE:	480,000-SF
CONSTRUCTION COST:	$16,910,000
PROJECT COST:	$21,500,000
COMPLETION:	August 2014
ENROLLMENT:	165 students

Located on the campus of Quinebaug Valley Community College, Quinebaug Middle College is an innovative high school with a mission to educate and support at-risk students by engaging them in the academic context of a college environment.

In addition to significant renovation work on existing college spaces, the main project scope is a 40,000-square-foot addition that houses new classrooms, science and computer labs, music and practice rooms, art rooms, a gymnasium, and fitness space, administrative and faculty areas, Amenta Emma provided full architectural services, from programming through construction administration.

A key design element of the building is the creation of interior and exterior gathering spaces that promote opportunities for students and the school community to connect, formally and informally. The overall project also included expansion and renovation of the existing college library and cafeteria.

The new design of both areas creates state-of-the-art environments that promote student collaboration and gathering. The exterior wall assembly is a high-performance terra-cotta rain-screen.

The design highlights the building's relationship to its site and campus scale, creating visual transparency and reinforcing connections to formal and informal exterior space and the campuses wooded edges. Clad in a terra cotta rain-screen, the LEED® Silver building is an innovative interpretation of the campus's existing material palette. High performance glazing systems provide visual connections through the building to exterior landscaped common spaces and the wooded site beyond.

The school was designed to CT High Performance Building Standards, LEED Silver Certified.

Students explore along nature trails, plant in rooftop gardens, and engage in larger-scale robotics and engineering projects in connection with the school's STEM theme.

CREC DISCOVERY ACADEMY

WETHERSFIELD, CT

SIZE:	67,235-SF
CONSTRUCTION COST:	$29.2M
PROJECT COST:	$36,500,000
COMPLETION:	2015
ENROLLMENT:	522 students

An abandoned electric utility site is producing renewable energy in the form of a PK through Grade 5 magnet school devoted to literacy in STEM subjects. The award-winning project embodies the definition of adaptive reuse. Adjacent to both woods and a major road, the property included three abandoned multi-story 1950's-era buildings. Making the site ready for its reimagined new life included soil remediation, demolition of two buildings and partial demolition of a third. Reuse of the remaining building section required significant hazmat abatement. With the inclusion of a new addition, the sf area of the project is 72,000.

To address site safety concerns, a key element of the plan organization was the creation of two major entry points off the main lobby gathering space. A parent drop-off is on one side with a bus drop-off on the other. Sculptural protected canopies connect the edge of drop off areas with interior vestibules and collect rainwater for site reuse. A spine of pavers draws students into an atrium with a signature water feature. An addition containing a multipurpose assembly space for student dining, gym, and performance space, serves as the heart of the school. Colored accent elements of the exterior glazing system are designed to reflect light, representing the dynamic motion of the STEM theme and an allusion to the steady flow of vehicles on the parallel highway. The glazing accent elements also create a rhythm of shadows and movement across the façade.

Outside learning spaces include a roof top garden, an amphitheater, labyrinths, a gathering circle under a signature oak tree, a rain garden, planting beds, nature trails, boardwalks and bridges. The project included new athletic fields for both school and community use.

The school was designed to CT High Performance Building Standards, LEED Silver Equivalent.

AIA CT Design Awards – Education – Merit Award
AIA Quad Awards – Education – Honor Award
IIDA New England Design Award – Best in State
CT Building Congress Project Team Awards – First Place K-12 - and - Project Team of the Year
CREW CT Blue Ribbon Awards – Adaptive Reuse

Warmer tones, indirect lighting, higher ceilings and additional daylighting provide a comforting and nurturing environment.

ANNIE FISHER MONTESSORI AND STEM MAGNET SCHOOLS

HARTFORD, CT

SIZE:	17,000 SF (ADD.), 102,000 SF (REN.)
CONSTRUCTION COST:	$33.3M
PROJECT COST:	$42,300,000
COMPLETION:	August 2010
ENROLLMENT:	342 students

The Annie Fisher Montessori and STEM Magnet School in Hartford, CT project included two additions totaling 17,000 sf, consisting of a library/media center, cafeteria, kitchen, and a four-classroom wing, plus the full renovation of the existing 102,000 sf building, originally constructed in 1966. The school effectively has two independently administered academic magnet programs with shared public/assembly spaces. The overall "renovate as new" scope resulted in a complete transformation of the existing facility.

Respecting the dominant use of masonry and metal on the existing exterior, a terra cotta rain-screen façade with flat seam aluminum shingles above the existing brick datum line was introduced for the featured new addition housing the Library/ Media Center and Cafeteria/Kitchen addition. The existing mansard roofs of the main structure were reinterpreted as graceful, curved metal forms. The arc of the curve allows for clerestory lighting of the media center, an excellent natural light source for Media Arts. The form's 6-foot overhang controls direct glare and heat gain.

A significant aspect of the overall project involved major redevelopment and enhancement of the project site. The scope included significant changes to site access, parking areas, vehicular circulation, pedestrian circulation, play and athletic fields. The public street was utilized for bus queuing, controlling internal site traffic and safety concerns. The multi-bus queuing area is directly adjacent to a redesigned entry plaza and expansive new covered walkway element. The new bus, vehicular, and pedestrian entry sequences address safety and circulation flow while also creating clear wayfinding up to and around the property.

An enhanced building envelope, daylighting through skylights and clerestories, energy efficient lighting, low-flow plumbing fixtures and co-generation are some of the notable environmental features of the project.

A terra cotta rainscreen with generous glazing creates a high-performance exterior envelope.

The school was designed to CT High Performance Building Standards, LEED Silver Equivalent.

Arlington ISD Athletics Center
Arlington, TX

Photos courtesy of HKS

Reference:

Mike Parkos
Director of Facilities Planning & Construction
Arlington ISD
1201 Colorado Lane
Arlington, TX 76015
Phone: 972.837.9459
Email: mparkos@aisd.net

Natatorium Project Cost: $41,000,000
Aquatics Cost: $5,000,000

Date Completed: October 2020

Services Provided:
Aquatic Design & Engineering

In October 2020, Arlington ISD celebrated the grand opening of its new $84 million Arts & Athletics Complex which features a multi-purpose Athletic Center, and the Center for Visual & Performing Arts. Both facilities have been developed to serve the entire district, pre-kindergarten through grade 12, and are in the Arlington Entertainment District.

The district's new 98,000 sq. ft. Athletics Center includes a natatorium and gymnasium, providing competition and practice venues for sports lacking adequate space at high school campuses, including swimming and diving, competition and water safety training, competition wrestling, basketball, volleyball and elementary gymnastics.

The 1,000-seat facility gives AISD its first-ever district owned and operated aquatics facility, providing much needed training space for AISD swimming & diving athletes, and allowing the district to host many levels of aquatic competition. Serving the needs of student-athletes and extra-curricular programming have been a priority throughout the planning and design of this incredible facility. The Aquatics Center features a world-class 50-meter Competition Pool, utilizing proprietary Myrtha construction technology and boasting dual movable bulkheads, fully integrated electronic timing systems, and both 1M and 3M springboard diving. In addition to the primary competition venue, a 4-lane 25-yard Teaching Pool supplements the competitive aquatics programming, allowing dedicated space for learn-to-swim, fitness/wellness activities, and additional warm-up space during meets.

Features include:

13,100 sq. ft. Competition Pool

- Eight 50-meter competition lanes
- Twenty-two 25-yard cross-course lanes
- Myrtha pre-engineered pool construction
- Two moveable bulkheads (4 ft. and 6 ft.)
- Two 1-meter diving boards and two 3-meter diving boards
- "All-deep" depth profile
- Integrated competition timing systems with multiple LED displays

2,350 sq. ft. Teaching Pool

- Four 25-yard lap lanes
- Stair entry

Ensworth School
Nashville, TN

In May 2010, JJCA Architects and Ensworth School retained Counsilman-Hunsaker to prepare an Aquatic Business Plan to review revenue and expense estimations for a potential aquatic facility capable of training, fitness, swim meets, and wellness programming. The purpose of the plan was to provide the viability for the design and construction of a competition pool at Ensworth High School.

As a result of the study, in March 2011, the school district decided to move forward with the design of a new natatorium on the high school campus for training, fitness, wellness and competitive use. Counsilman-Hunsaker worked through a creative process to develop a unique elevated 50-meter competition pool due to the pool being located in a flood plain. Emphasis was placed on having a functional facility that could accommodate several simultaneous activities.

The natatorium features two separate bodies of water:

12,400 sq. ft. Competition Pool

- Ten lane 50-meter by 25-yards lanes
- Four 1-meter diving boards
- Two fiberglass moveable bulkheads to accommodate multiple racing and training configurations
- Spectator seating to accommodate up to 275 patrons

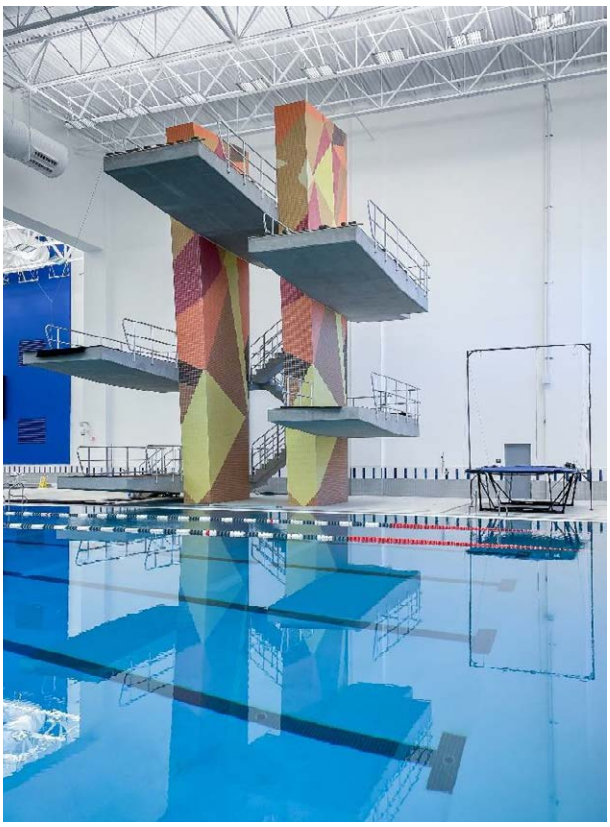
860 sq. ft. Teaching Pool

- Full-length staircase
- Color-changing LED lights

Project Cost: $19,000,000
Aquatics Cost: $2,350,000

Date Completed: December 2012

Services Provided:
Business Plan: 2010
Aquatic Design & Engineering: 2012



In January 2022, the City of Pharr coordinated with the University of Texas Rio Grande Valley (UTRGV) and the far San Juan Alamo Independent School District (PSJA ISD) to celebrate the grand opening of the city's first ever natatorium. The aquatic facility proved to be a huge benefit the athletes at both PSJA ISD and UTRGV for swim practices and regional/state competitions and provided an additional recreational facility for City of Pharr residents and surrounding areas.

The impressive 72,800 sq. ft. building features a 50-meter competition pool, a dive pool with diving boards and platform diving, making it the perfect location to host swimming & diving championships. The center also includes seating for 1,300 spectators, a state-of-the-art timing and scoreboard system, video boards, a visible running clock, a UV water treatment system, and numerous energy efficient design features.

Aquatic amenities include:

13,100 sq. ft. 50-meter x 25-yard Competition Pool

- Eight 50-meter lap lanes
- Eleven 25-yard lap lanes
- 6 ft. and 4 ft. bulkheads

4,650 sq. ft. Dive Pool

- Six 25-yard lap lanes
- Two 1-meter springboard diving boards
- Two 3-meter springboard diving boards
- Three centerline tower with 1-meter, 3-meter, 5-meter, 7.5-meter and 10-meter platform diving

Reference:
Ruben Alfaro, City Engineer
City of Pharr
118 S. Cage Blvd. 4th Floor
Pharr, TX 78577
Phone: 956.402.4221
Email: ruben.alfaro@pharr-tx.gov

Pool Contractor: Acapulco Pools
General Contractor: D Wilson Construction

Publications:
'Aquatic Design Portfolio' - 2023
Athletic Business magazine

Project Cost: $24,000,000
Aquatics Cost: $4,600,000
Date Started: January 2019
Date Completed: January 2022
Services Provided:
Aquatic Design & Engineering

Counsilman·Hunsaker
AQUATICS FOR LIFE

Shawnee Mission School District
Aquatic Center (SMSD)
Lenexa, KS

The SMSD Aquatic Center is home to the largest pool in Johnson County, serving local students and the entire community. This service is made possible through a partnership between the school district, Johnson County Parks and Recreation, and the City of Lenexa.

The design celebrates the spirit of competition with layers of transparency provided in each area of the building so that viewers both inside and out can see events happening within the building.

The SMSD Aquatic Center was constructed as part of a $223 million bond issue, approved by voters who reside in the Shawnee Mission School District in 2015. The 54,344 sq. ft. facility also features classrooms, locker rooms, a coaches' room, concession stands, and a dry land training area for athletes.

The 26,000 sq. ft. SMSD Aquatic Center was designed to attract regional and national swim meets in addition to hosting the District 5 high school swim meets. It can hold up to 500 competitors and 1,000 spectators.

Aquatic amenities include:

13,000 sq. ft. 50-Meter Competition Pool

- Eight 50-meter lap lanes
- 22 cross-course 25-yard lanes
- Two 4 ft. bulkheads
- 13 ft. diving well
- Two 3-meter boards and two 1-meter boards
- The ability to be used for swimming and diving competitions, water polo, swimming lessons, and more.

2,100 sq. ft. Instructional Pool

- Four 25-yard lap lanes
- Moveable floor that can adjust the depth from 0 ft. to 7 ft. deep
- The ability to be used for warm-up, cool-down, swimming lessons, and water aerobics

Publications and Awards:
2020 - 'Dream Designs' *Aquatics International* magazine
2020 - 'Special Citation' *American School and University* magazine
2020 - 'Architectural Showcase' *Athletic Business* magazine
2021 - 'Aquatic Design Portfolio' *Athletic Business* magazine

Reference:
Tyler Clubb
Executive Director of Facilities and Support Services
Shawnee Mission School District
8200 W. 71St.
Shawnee Mission, KS 66204
Phone: 913.993.8507
Email: tylerclubb@smsd.org
Project Cost: $28,000,000
Aquatics Cost: $3,850,000
Date Completed: November 2019

Services Provided:
Aquatic Design & Engineering

TECHNICAL RESPONSE

1 Similar projects completed in the last five (5) years by the proposed project team

- *Weaver High School
  Project Cost: $142M - Construction Cost: $123.9M (2020)
- *Torrington Middle/High School
  Project Cost: $179M - Construction Cost: $152M (2025 Completion)
- *Bulkeley High School
  Project Cost: $245M - Construction Cost: $146M (2025 Completion)

*please see **project sheets** detailed information about these projects.

2 Experience with State & Municipal agencies, school construction projects of $50,000,000+, environmental/regulatory and/or approvals for K-12 environment, renovations and OSF (now OSCGR) submittal

Our studio leadership maintains strong relationships with OSCGR personnel and leads our K-12 studio in maintaining a current knowledge of policy and procedural changes, including space standards and state legislative actions affecting school construction projects. SLAM has excellent working relationships with the OSCGR director and staff. We have a thorough understanding of the requirements and nuances surrounding OSCGR policies and procedures, for all grade level school configurations, which positions our team for guiding your project through the process and maximizing your reimbursement from the State. **Recent projects guided through the OSCGR process include:**

Bulkeley High School and Central Administrative Offices
Size: 380,000 SF
Cost: $1146M (est.) Construction Cost
Dates: 2019-2025

Ox Ridge Elementary School
Size: 110,000 SF
Cost: $54M (est.) Construction Cost
Dates: 2019-2023

Groton Middle School
Size: 155,000 SF
Cost: $69.3M Construction Cost
Dates: 2018-2020

Nonnewaug High School
Size: 150,000 SF
Cost: $54.8M Construction Cost
Dates: 2016-2020

Weaver High School
Size: 272,000 SF
Cost: $123.9M Construction Cost
Dates: 2015-2020

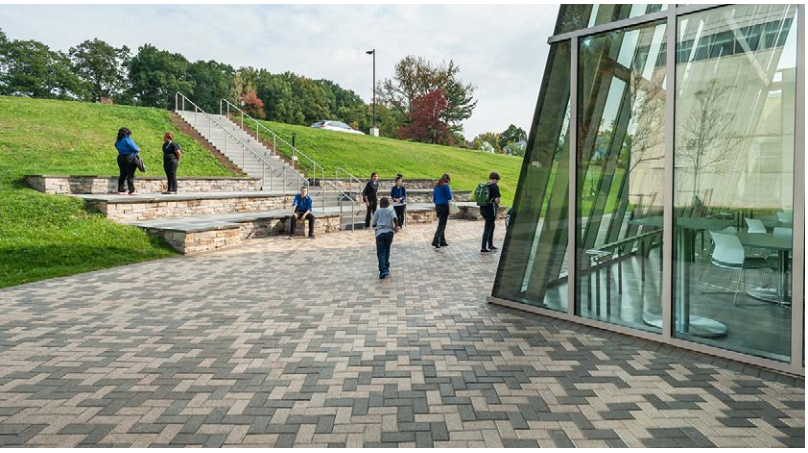
3 Submit a detailed statement including the organizational structure under which the firm proposes to conduct business
SLAM will be the prime proposer, signatory to the contract and the Architect of Record for this project. SLAM's project teams are structured to provide for our clients a single well-defined point of responsibility for decision-making and for the total contractual obligations of the firm and project team. The project will be led by Principal-in-Charge, Kemp Morhardt, AIA, SLAM's Public Education practice leader and member of the SLAM Board of Directors. He will have overall responsibility for project administration and final responsibility for decision making and will work in concert with Project Manager, Amy Samuelson, AIA, LEED AP and Craig DeJong, AIA who will have day-to-day responsibility for the progress of the project through all of the phases of the work.

Amenta Emma Architects (AEA) will work collaboratively with SLAM on the architectural components of the project. We have established a scope split where AEA is largely responsible for Core & Shell and SLAM is responsible for Programming/ Planning, Interior Architecture/Interior Design and overall project management. This scope split is the same arrangement we had for the successful Weaver High School project in Hartford and we are confident and comfortable with this arrangement.

Please refer to **Team Organization Chart** and **pages 119-176** for resumes all team members.

4 Identify and provide resumes for members of the proposed project team and sub-proposers
Please refer to **pages 119-176** for team resumes

5 Demonstration on past performance with regard to meeting project time and budget guidelines, including change order value vs bid
SLAM is committed to delivering exceptional architecture while simultaneously respecting our clients' budget and schedule requirements. We accomplished this by using project management tools and involving of our Construction Services Department which is composed of professional construction estimators and superintendents. Although we are proposing an outside Cost Estimating Firm, PMC, we have the added benefit of in-house professionals to help analyze our designs through the eyes of a constructor for budget and constructability. We



find this service to be invaluable, and our clients and their builders concur. It allows us to address budget issues early, realizing that cost relates not only to scope and schedule, but also systems, phasing, product availability and assemblies. Please refer to **page 182** for our History of Contract Performance for K-12 Projects.

We control costs by defining goals and objectives during the design process. This helps prevent changes in the field, which can be expensive. We also provide high-quality documentation and respond quickly to issues that arise in the field.

BIM helps resolve conflicts between design disciplines during the design documentation phase. Our use of Revit and Navisworks allows 3-D reviews of building structure and other systems that have historically been areas of conflict during the construction phase. The Construction Manager can use our BIM model for scheduling work and coordinating trades during their shop drawing phase to identify possible issues before construction begins. BIM can reduce Requests for Information and change orders during construction by 30% which represents a significant savings to the Owner.

During bidding, SLAM helps the CM ensure that contractor bids include the complete scope of work. This proactive role helps assure the progress of the project during construction. When change orders are presented, they will be reviewed by the team and one of our in-house cost estimators for validation of both scope and cost to ensure that the Owner is receiving maximum value for their contingency dollars.

6 Provide Firm's Brochure

7 Firm's experience in understanding and designing to meet the State's most recent school Security guidelines

Our Glastonbury public education practice has designed dozens of schools to meet, or exceed the Connecticut School Security Infrastructure Council guidelines. We work with each client to form a school security task force consisting of the Superintendent of schools, district security personnel, school administration, building committee members, and municipal first responders to discuss security strategies for each design. These discussions are generally held in executive session to avoid security design details to be made public, this further protecting the building's occupants.

Amy Samuelson is the Lead PM for this project and has an ASIS certification as a physical Security Professional. She has attended several Security Seminars on School Safety. Our company and its consultant team have completed many projects with high security requirements, ranging from securing a facility to meet international shipping requirements to equipping schools required to meet Department of Homeland Security (DHS) requirements.

Our philosophy on school security is different from our approach to the design of other facilities. We believe that school security should be the invisible hand that provides necessary protection but is ideally not part of a child's daily experience and does not detract from a healthy learning environment. School safety and security begins at the site. Every site selected for a school is different and poses its own unique challenges to provide a safe and secure school environment. Most new schools install basic security systems with controlled entrances, perimeter entrance monitoring and closed-circuit video

The Metropolitan Business Academy in New Haven - Utilizes bullet resistant glazing and special security entrance to protect students from external threats. It is transparent and does not disrupt the connection with the outside world.

Hartford Capital Preparatory Magnet School (HCPMS) - Utilizes ornamental fencing and gates styled to match the existing surrounding the historic Keney Park.

For more information regarding our Security process **see page 82.**

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3

REFERENCES

REFERENCES

Groton Middle School:
Construction Manager:
Mark Jeffko, Project Executive
O&G Industries
Main Office: 860-489-9261
Direct Office: 860-626-6432
Mobile: 203-943-8067
markjeffko@ogind.com

Ryan Benoit, Project Manager
O&G Industries
Main Office: 860-489-9261
Mobile: 860-883-9345
ryanbenoit@ogind.com

School Principal:
Peter Bass, Principal
Groton Middle School
Main Office: 860-445-0380
Direct: 860-446-4200
pbass@groton.k12.ct.us

Nonnewaug High School:
Building Committee:
George Bauer, Building Committee Chair
RSD14 Office: 203-263-4330
Mobile: 203-558-6994
gbauer@ctreg14.org

Construction Manager:
Mark Jeffko, Project Executive
O&G Industries
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Direct Office: 860-626-6432
Mobile: 203-943-8067
markjeffko@ogind.com

Nelson Reis, Project Manager
O&G Industries
Main Office: 860-489-9261
Mobile: 860-485-5587
nelsonreis@ogind.com

School Principal:
Pam Sordi, Principal – Pam is the 3rd Principal since the project started and joined the school approximately ¾ of the way through construction.
Main Office: 203-263-2186
psordi@ctreg14.org

Torrington Middle/High School
Susan Lubomski
Superintendent of Schools
355 Migeon Avenue
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Mr. Ed Arum
Co-Chair Building Committee
(860) 309-7913
edarum@homail.co

Mr. Mario Longobucco
Co-Chair Building Committee
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Mario.longobucco@cbcnrt.com

Ox Ridge Elementary School
Mr. Rusty Shriner
Darien Building Committee
2 Renshaw Road
Darien, CT 06820
203-321-8404
rshriner@darienct.gov

Weaver High School
Arcadis/O&G
Jack Butkus, Program Director
P: (860) 906-1577
E: jackbutkus@arcadis-ogind.com

Sal Salafia, Poject Manager
P: (860) 906-1577
E: salsalafia@acadis-ogind.com

Bulkeley High School & Central Administration Facilities
Arcadis/O&G
Jack Butkus, Program Director
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E: jackbutkus@arcadis-ogind.com

CM Reference:
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tomdimauro@newfieldonstruction.com

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Superintendent of Schools
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Cindy Grafstein
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Special Assistant to the Mayor

Louis Casolo
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City Engineer
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Stamford, CT 06901

Katherine LoBalbo AIA
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Director of School Construction.
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888 Washington Boulevard
Stamford, CT 06901

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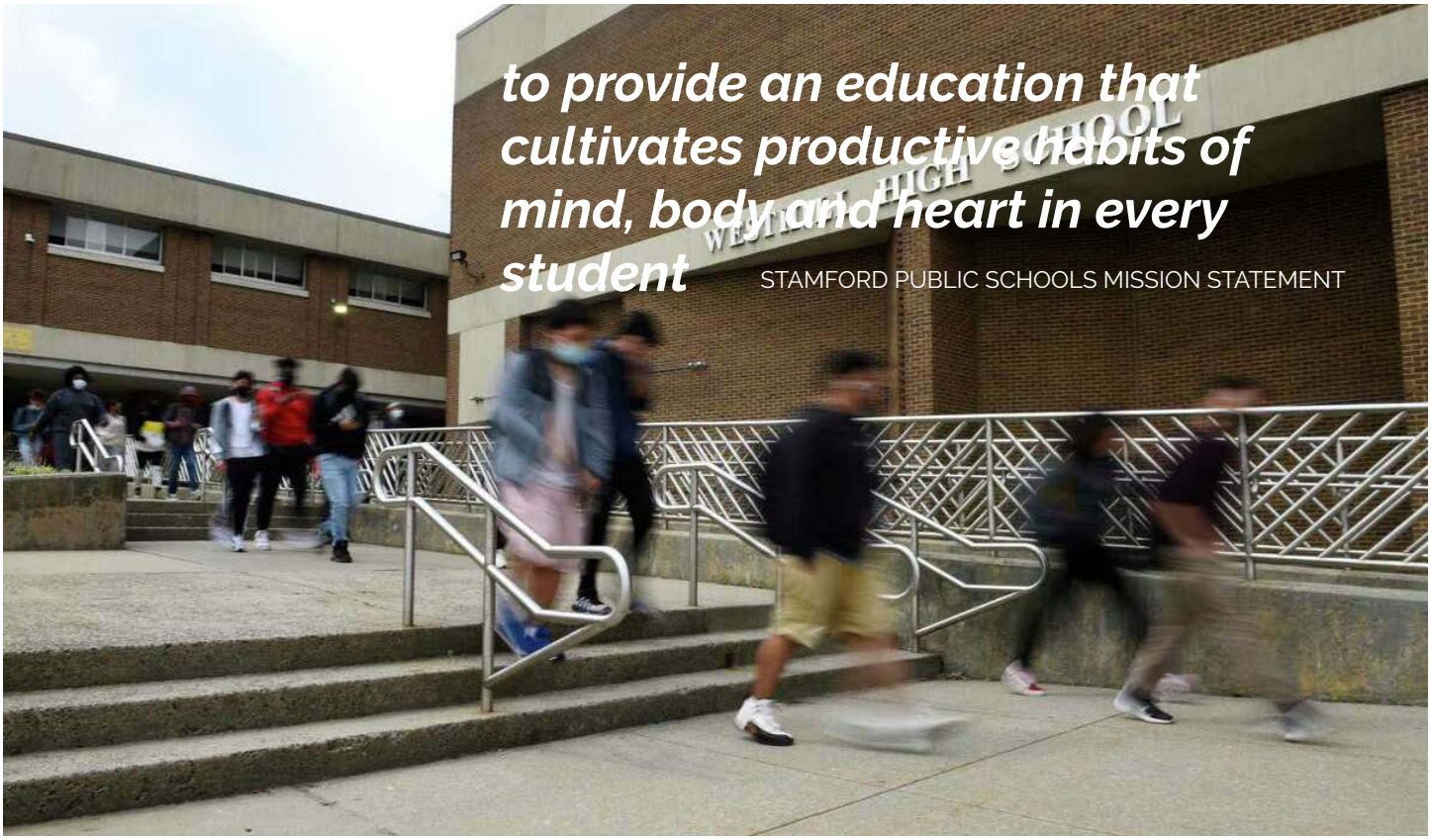
4

SUMMARY



to provide an education that cultivates productive habits of mind, body and heart in every student

STAMFORD PUBLIC SCHOOLS MISSION STATEMENT

PROJECT
UNDERSTANDING & APPROACH

Project Understanding

The Westhill High School (WHS) project consists of the Architectural and Engineering design of a new high school for approximately 2,500 students (2,458 8-year high projection), on the existing campus while the existing high school for approximately 2,300 current students remains operational. The new school design will incorporate and connect with the existing VoAg building which is to remain. Once the new school is built and the students transfer to the new facility, the existing high school will be abated and demolished. Once the existing high school building is removed and the site is remediated, the site construction will include new play fields, parking, vehicular drive lanes, pedestrian walks and other site improvements. The objective of the city and Board of Education is to occupy the new school for the academic year 2028-2029 and the demolition and site restoration will be complete approximately one-year afterward.

The Westhill HS replacement project will be challenging on several fronts and our team has recent extensive experience in all aspects of the anticipated challenges. First and foremost is the separation of construction activities from normal and safe school operations and minimizing the impact on the student's high school experience. Our team will work with the Building Committee, Owner's Representative, Board of Education, School Administration and Westhill Community to design a new school and construction process that will minimize impacts on students and staff and provide a landmark new high school. Second is maximizing the value of the expenditure for the city of Stamford. A key aspect of achieving maximum value is to maximize reimbursement from the state. The city has been granted an 80% reimbursement rate for the project and our team will design your new school within the state's allowable area to maintain an eligibility factor to 1.0, thus maximizing reimbursement. Third is designing to meet the desired schedule. Since time is money and there is none of either to waste, our team is committed and prepared to work with all project stakeholders in the orchestrated execution of a detailed work plan to achieve maximum efficiency.

The first task will be to work with the city and Board of Education to evaluate the site and existing building and conceive of various alternative project approaches through a conceptual design charrette. The objective will be to exhaust as many ideas as possible to arrive at the most impactful and effective solution to maximize value. The SLAM + AEA team have already started this process in preparation of this submission. Please refer to the Design Options explored toward the end of this Section.

Project Approach

Our planning process has evolved over 47 years of working with educational institutions and is designed to produce a plan that is both forward-thinking and practical. While every project is different, SLAM has developed a process that offers several important elements to achieve the goals established at the beginning of a project. We are committed to working collaboratively with our clients and to engage the community as broadly as deemed appropriate by the building committee. Our process begins with a visioning session designed to elicit from the stakeholders what is important to them about their school and its place in the community. Using the project Ed. Spec's as our starting point, our team will collaborate with project stakeholders to understand the nuances and expectations of the written Ed. Spec and bring those expectations into physical form. Our team will work with the building committee to develop a detailed construction program for the building and gain an understanding of the curriculum and pedagogy the board of education would like to promote. Our program verification and planning process is extensive and exhaustive to help us "define the right project" together for the new Westhill High School.

Key to any process is listening and learning as much as we can early on. The new WHS project will fulfill the objectives of enhancing the educational environment, improving the logistics for student and bus arrival/departure and traffic circulation on the campus, and creating a responsive and energy efficient school building. With a new facility being built on an existing 32.43 acre operating school site, the design approach will first and foremost separate construction activities from ongoing school operations to maximize safety of students and staff.

Key aspects of the Ed. Specs the new design will address include:

- Providing a new facility that implements (SSIC) School Safety Infrastructure Criteria
  - Main office sight lines and obvious main entry point
  - Building organization for safety
  - Clarity of circulation in a large building
  - Accessible routes within the building
- Provide an inviting and inspiring environment
  - Promote autonomy and independence
  - Provide natural light to all classroom spaces
- Student centered design, hands-on learning
  - Pathway to Career Regional Program
- Provide a high performing building that exceeds CT High Performance Building Standards.
  - Renewable energy sources
- Provide NFHS conforming athletic playfields
- Provide a building zoned to permit access for community events: Gymnasia, Auditorium and Natatorium
  - Natatorium is autonomous and available for hosting regional events
  - Twin adjoining Cafeterias that to one large assembly space

> SLAM has vast experience delivering K-12 School buildings, navigating numerous stakeholders and leading community engagement throughout the project.

PROGRAMMING & PLANNING

The planning and design of learning environments must reflect and enhance the vision, values and teaching methodology of each district while allowing for future flexibility. Classrooms and other instructional spaces must be inviting and stimulating, while supporting active, student-centered learning. Promoting project-based learning among students necessitates design that fosters group learning and communication. Beyond formal teaching spaces, we look for and capitalize on opportunities for informal learning throughout each facility. SLAM's K-16 planning, and design experience allows us to share our perspective of these and other trends and how it informs the architecture.

Discovery-Driven Programming

SLAM is a pioneer in the application of "Discovery-Driven Programming". Until recently, there was only limited information available to value outcomes in the early phases of pre-design, when the budget must be developed and reconciled with available resources, including CT School Construction State Reimbursement. Yet it is often these highly complex outcomes (e.g. attracting and retaining highly qualified staff; retaining students to in-district enrollment, etc.) that will maximize the impact of a proposed school project. Estimating their value during the early phases is vital to making informed decisions through the process – identifying aspirational elements while aligning with the budget.

Collaborative Process

SLAM is committed to working collaboratively and focusing early design phases on engagement of stakeholders with diverse perspectives, including faculty, students, parents, administrators, facility managers, neighbors and state and local agencies to build upon the educational specifications and create a school that best represents the values of Stamford. Various discussion strategies offer participants opportunities to develop empathy, brainstorm about possibilities, establish project goals and prioritize outcomes. While providing vital information for program verification and building planning strategies, this inclusive process contributes to the development of a culture dedicated to equity and respect, where relationships are foundational and student voices are welcomed and valued.

SLAM has teamed with My Learning Place Integrated Design (MLP) to reinforce our integrated programming, planning and design approach. As an educational planner, consultant, and former educator with nearly 20 years of classroom experience, Mike Pirollo, owner and Principal of MLP, brings a deep understanding and passion for all things teaching and learning. MLP will offer observation and ideation to the designers and educators alike as the team works to blend traditional and innovative approaches for an optimal learning environment.

The day-to-day demands on district leaders, teachers, and students are ever evolving. With growing expectations and responsibilities, it can be challenging to see the larger picture of how a school system and space are functioning and wish to function. MLP helps bring that picture into focus using a neutral perspective, yet one that deeply understands the needs and day-to-day experiences of teachers and students doing the best they can with the resources, space, and time available.

With an in-depth look at your existing and desired educational landscape, MLP will work alongside SLAM and Stamford Public Schools to build a road map for future improvements, documenting and integrating the desired curriculum, instruction, learning, and learning environment. When aligned, the educational capacity of teachers and students is maximized.

SLAM recommends establishing a Westhill High School Task force to apply fresh thinking on teaching and learning experience as it relates to the physical environment. This task force could include representatives that would bring the voice of their parent group to the "table" at a regular cadence throughout the design. The participation of these key individuals can:

- Build trust in the process
- Empower community members
- Provide access to multiple perspectives and expertise
- Create a culture of collaboration and inclusion
- Improve communication

Representation could include:

- Teachers
- Parents
- Students
- Student Support Services
- Special Education

> Our local, regional, and national education portfolio will be leveraged to provide benchmarks that will maximize your spaces.

VISIONING

Together with SLAM, MLP would lead initial visioning conversations to capture the foundational tenets from the voices of the stakeholders most important to the planning and design efforts. SLAM and the Westhill High School Taskforce will continue to build on this groundwork throughout the design, providing additional stakeholder touchpoints along the way. Visioning topics to consider before the design phases might include:

- **Vision for meaningful, authentic learning experiences**
- **Opportunities for social and emotional experiences and support**
- **Opportunities for realignment in curriculum or delivery methods** (problem-based learning, multi-disciplinary project-based learning, team teaching, etc)
  - To inform the distribution of classrooms and science labs as well as pathway spaces, visual and performing arts, etc.,
  - To inform the internal planning and configuration of Small Learning Communities, (SLC) and how they connect to one another
- **Grade, Team, Subject, Academy Structure(s)**
  - To advise the preferred blocking and stacking of the building to serve the needs of today and tomorrow.
- **New, innovative spaces** (Extended Learning Commons, Application Labs, Maker Space, Bully-proof Restrooms, Distributed Media Centers, etc.)
  - To inspire teaching and learning while providing flexibility in how spaces are used on a daily basis.

> **MLP, our proposed educational planner will supplement our in-house team. A teacher for over 20 years, he and can visualize the spaces through the eyes of an educator and how they interact with students.**

Project Goals & Programming

A united Vision leads the process directly into the creation of Project Goals that are more directly related to physical outcomes of the school building and its campus. Gathering informed suggestions from various stakeholders provides the opportunity to establish more unified goals that will stand the test of time.

SLAM will begin the Programming Phase with the WHS Ed Specs, utilizing the efforts and information contained as the springboard for the planning and design process. We will capture spatial requirements to validate the amount of space planned and evaluate the alignment with the Vision and Project Goals by putting emphasis on particular categories all while referencing the allowable space guidelines put forth by the Office of School Construction Grants Review (OSCGR).

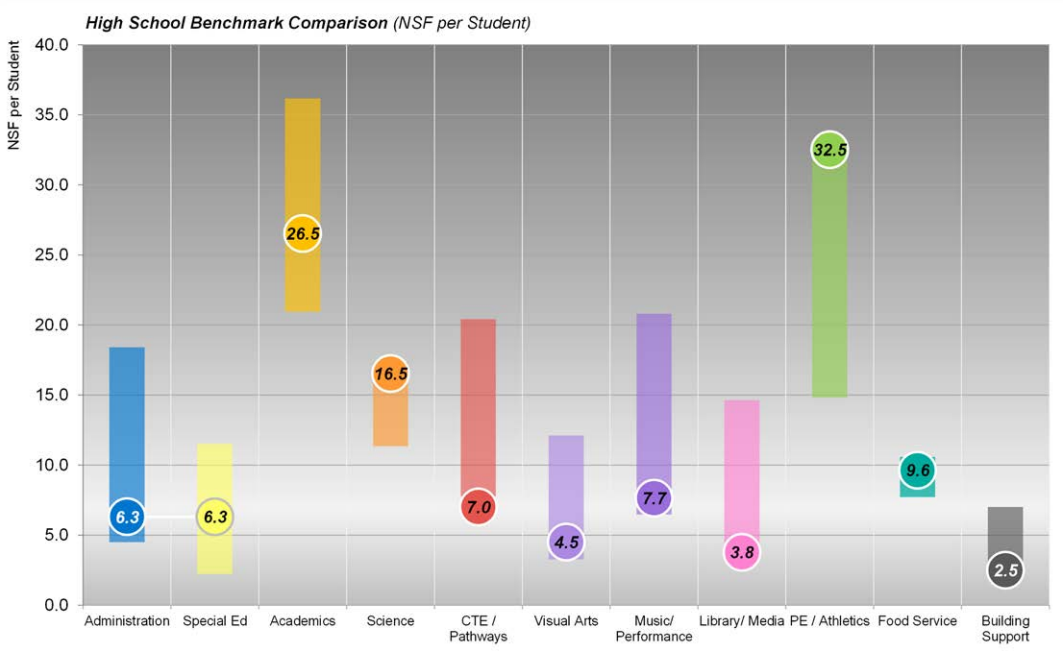
WHS will be designed from the inside-out, based upon the belief that the key to a great school begins with understanding the needs of the individual learners, then designing spaces that assist each child to connect with and participate in the larger community.

Following the Visioning, focus groups can engage teachers in discussions about individual grade level needs, as well as exploring opportunities to facilitate intra-grade collaboration. These discussions would include curricular activities as well as spaces and their configurations.

Programming Tools

- Utilization analyses will quantify space needs, to ensure the right space type and capacity
- Current and projected staff alignment
- Benchmarking analysis to guide or reinforce decision making

In a preliminary analysis, the chart below illustrates how the WHS Ed Specs measure against other high school projects (Stamford WHS is delineated by the white circles). As the programming becomes more refined and in-line with the project vision and goals, benchmarking will be tracked with every evolution. Where WHS's Net Square Foot per Student marker rises above or falls below the range, we will want to understand what the differentiators are and whether they are appropriate. This analysis presents areas that might require initial focus including CTE/Pathway space, Library/Media, PE/Athletics Building as it relates to the type and quantity of space. The intent of this exercise is not to necessarily fall in line, **but if important to Stamford, to *Become the Benchmark*.**

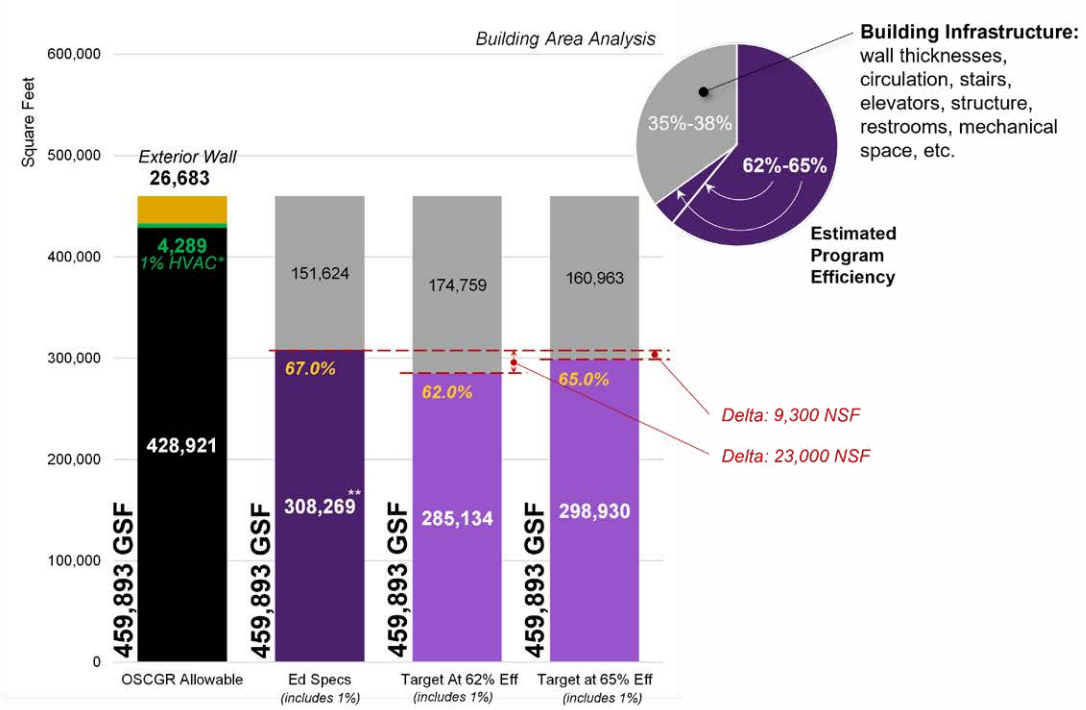


> Having completed the Stamford South School Feasibility Study, Ed Specs & Grand Application, SLAM is uniquely positioned to jump into this project.

SLAM's initial analysis of the current high school area, OSCGR's reimbursable calculations and the WHS Ed Spec is illustrated in the bar chart below. It should be noted that OSCGR's calculations equal the amount of building area to the inside face of exterior wall (NGSF). The chart illustrates inclusion of about 26,683 SF of exterior wall to bring the **total reimbursable building area to 459,893 GSF.**.

SLAM's analysis of the Ed Specs identify a need for about 308,269 NSF including the natatorium spaces. Our extensive research and experience in school design and target efficiency range suggests an efficiency of between 62% - 65% of building area to be devoted to usable area. The remaining 35% - 38% is allocated for Building Infrastructure areas including wall thicknesses, horizontal and vertical circulation, structure, restrooms, mechanical spaces, etc. This analysis tells us:

That a building that aligns with OSCGR's allowable calculations would yield approximately 285,100 to 289,930 NSF of program space using the target range of 62-65% building efficiency



*includes 1% allowed for HVAC (CGS-10-286,10 c2)
** includes Natatorium area

It is SLAM's expertise in programming/planning and designing academic facilities throughout Connecticut and beyond that will guide Stamford to define the right outcome for the district while balancing budget, program size and project goals.

PLANNING

As we transition from program to planning solutions, we will begin an immersive design process to test alternatives with the least risk and give Stamford and the design team time to ensure a preferred approach that is aligned with both the established budget and the defined project goals. Special consideration should be given at this pre-design stage to test options that may be new as well as those that might be familiar to Stamford.

INTERACTIVE CREATIVITY

Engagement exercises will continue to inspire the Building Committee and Taskforce. Efforts will shift to determining the precedents for design, how to elevate the stature of student-centered education and inspire students and faculty to be successful while creating interest for the community through planning and architecture. Planning activities can be customized to include a mix of the following (SLAM, MLP, Building Committee, WHS Taskforce):

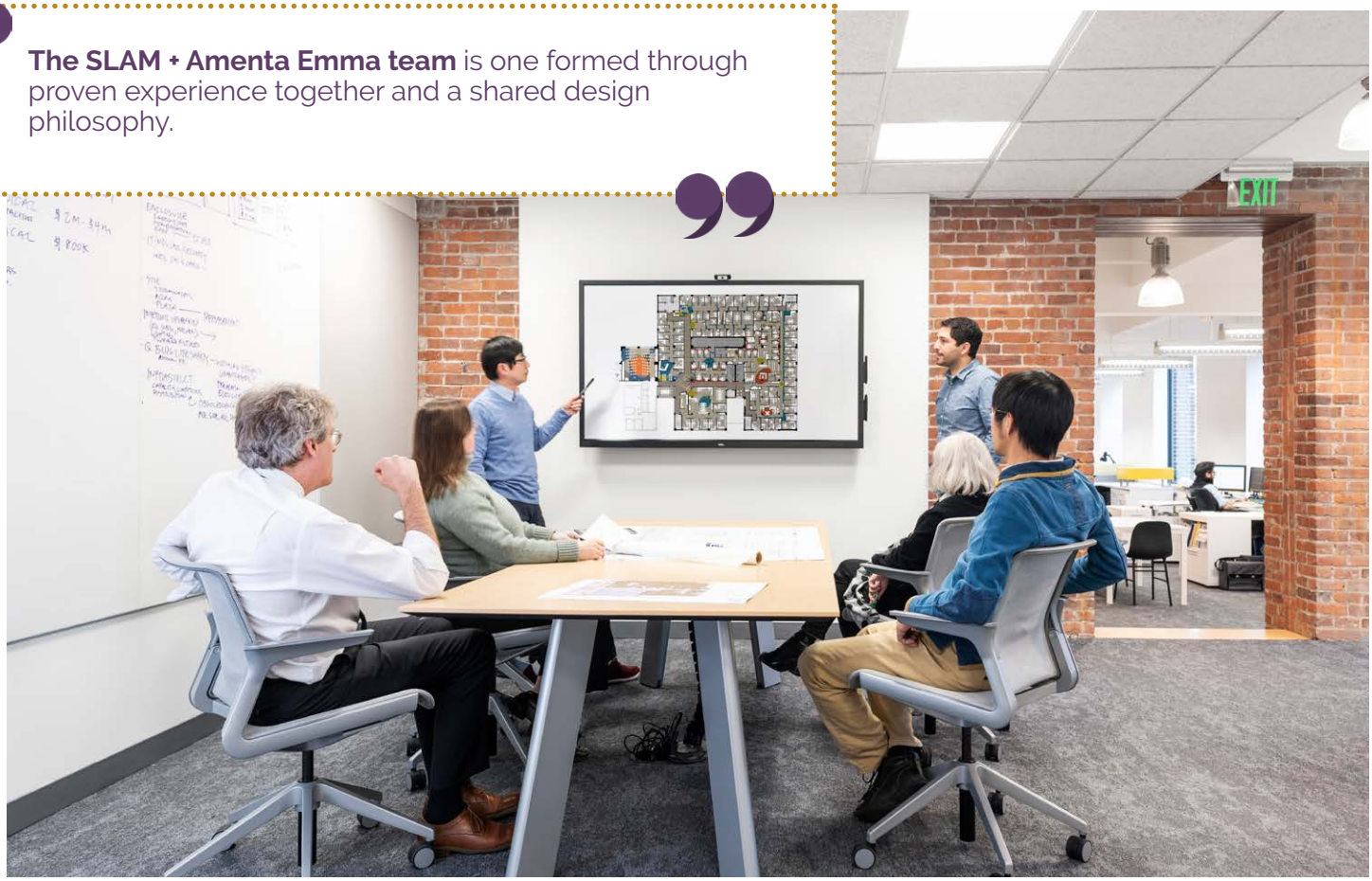
- **Planning/Blocking/Stacking Charrettes**
- **Facility Tours**
- **"Gallery Walks" of planning diagrams, conceptual sketches and renderings, massing models, etc. for feedback**
- **Meet and Greet Informational Sessions**
- **Virtual Q&A Sessions**
- **Surveys**
- **Focus Group Meetings / Staff Workshops/Student Workshops**

Together with our landscape architects, we will collaborate to explore placement and massing opportunities on the site along with vehicular and pedestrian traffic access points and flow as well as play and competition fields. The District's vision will continue to be at the forefront, directly informing the organization and placement of the building and site components. As decisions are made to shape the new WHS and campus, the District will continuously weigh them against the project goals. These conversations will develop the level of awareness about WHS's culture and will lead to meaningful studies to further advance the overall conceptual design.

Once multiple planning options and test-fits are studied they will be reviewed with respect to their success in meeting the project goals and programmatic needs. Once the preferred direction is identified the conceptual design will be developed into a full Schematic Design.

With new, innovative instructional spaces, it is critical that faculty understand how to utilize all aspects of the facility, and that they be inspired to implement new approaches to instructional delivery. As an extension of their services, MLP can work with district staff and faculty to redefine the approach to professional development and training, ensuring the desired curriculum, instruction, and learning experiences previously defined during visioning sessions are now aligned with the new learning environment. In a post pandemic environment, it is important to put the same fervor into the teaching experience for adults as the learning experience for students.

The SLAM + Amenta Emma team is one formed through proven experience together and a shared design philosophy.



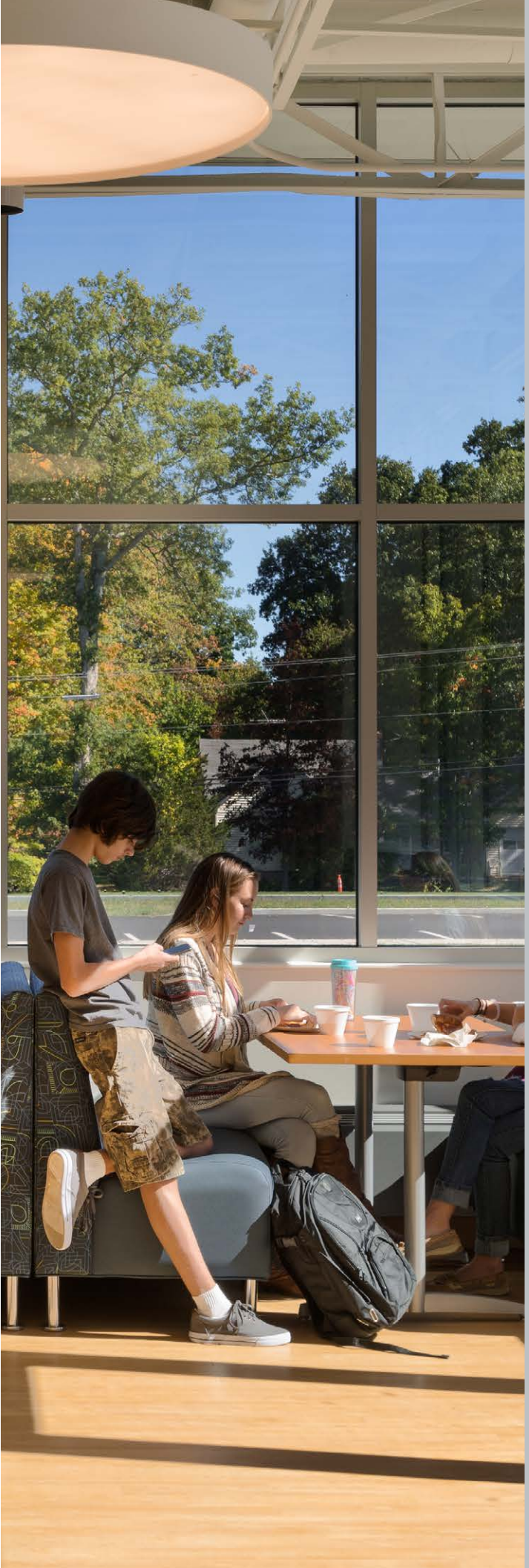
Building New on an Operational School Site:
Our team has extensive recent experience developing projects where a new facility is built on an existing school site while maintaining occupancy of the existing school and site during construction:

- Ox Ridge Elementary School, Darien, CT
- Torrington Middle/High School, Torrington, CT
- Rogers High School, Newport RI
- Greenwich Central Middle School, Greenwich, CT

We understand the detailed coordination necessary between owner, Architect and Constructor to design and manage the various temporary facilities and controls necessary to successfully deliver this type of complex project. Our documents will reflect these phasing requirements and we will work closely with the building committee, owner's representative, the construction manager and school administrators to make facilities available when needed.

Given the site area, budget and schedule constraints of the Westhill HS project, we expect that the city may need to consider repurposing and renovating certain components of the existing building. Options 2 & 3 of our conceptual design studies for this submission studied the renovation and reuse of the existing physical education facilities. The simple "big box" spaces are conducive to renovation since the current size of those facilities are typically adequate for the new Ed. Spec program. Additionally, the value is questionable when discussing tearing down a large gym, and/or an auxiliary gym to replace it elsewhere on site; especially if it's current location supports convenient access to fields. In fact, on the Torrington MS/HS project, the SLAM team designed a new 310,000 square foot facility on the same site as the existing high school and positioned the new facility such that we repurposed the existing gymnasium and locker room superstructure, and completely renovated those areas to new. This approach saved time and significant money.

Should the agreed upon project approach for Westhill HS include the preservation and renovation of portions of the existing building, our team also has significant recent experience developing phased-occupied renovation/addition projects, where the facilities were renovated-to-new. We are experts at making renovation projects work. We do this through identifying swing space, the conversion of existing spaces to other uses, incorporation of temporary classrooms when necessary, and careful scheduling to take advantage of the important school vacation periods. Swing space is always a concern in a phased renovation where students and staff will be present on site during construction. Safety and the disruption of "traffic flow" in the building coupled with the possible need for temporary classrooms must be managed - something SLAM has a lot of experience doing. The following list of projects were phased-occupied renovation-to-new projects.



SLAM + Amenta Emma Architects and talented project team won the CREW CT Best in Class: Academic award for the amazing transformation of Weaver High School in Hartford, CT. The winning projects were announced at the virtual Blue Ribbon Awards presentation held on October 1, 2020. Renovations to the 1970's building include a new transparent façade which brings much needed natural light into the building.

- Nonnewaug High School , Woodbury, CT (RSD 14)
- East Hampton High School, East Hampton, CT
- Ellis Technical High School, Danielson, CT
- Kaynor Technical High School, Waterbury, CT
- Amity Schools (2 middle schools and a high school)
- James Naylor PreK-8 School
- Hartford Capital Preparatory Magnet School

Please refer to the project summary sheets in the Experience & Capabilities portion of Part 2 for more information.

Smart Site Planning and Respecting the Neighbors:
SLAM prides itself on working collaboratively with clients to develop designs unique to each client, site and community. As an integral part of the neighborhood, the WHS site planning will need to respect the neighboring residential properties and also consider an aesthetic that is responsive to the surrounding community. Our team will be sensitive to preserving as much of the existing tree line and current WHS site uses that residents are used to and lessen the impact to existing residential parcels.

For example, in conceptual Option 3, we studied placement of a new building on the existing track & field, however placement of such a large edifice that proximate to residential parcels we felt would invite severe opposition, which the schedule cannot afford, nor does it promote the "good neighbor" sentiment. Additionally, placing a building in that location would require relocating the track & field facility along with all the stadia, press box and other ancillary buildings, which would not be the best use of the limited budget.

The existing Westhill High School site appears to have sufficient size to support the construction of a new 2,500 seat high school while the existing school remains operational, but it will be tight and require carefully orchestrated site & building planning and detailed site logistics. The design will consider construction phasing, develop a vehicular and pedestrian circulation system and utilities that support two independent facility operations (even if temporary). Utilities for the new building will be carefully designed to avoid existing sub-surface utilities serving the existing school. Our team visited the site several times, we have explored three possible locations for the new high school, all of which keep the existing school in operation during construction of the new facility. Each of these approaches will keep construction separate from school operations and also enable preservation of the existing football field and tennis courts for school use during construction. The proposed use of the Long Ridge Road access drive is instrumental in these concepts to keep construction traffic separate from school traffic and ultimately be used for separate bus circulation in the final design. Upon engagement our team will immediately start working with OSTA to explore options for connecting the access road to RT 104 since early conceptual designs will depend on the disposition of making that connection.

Integrated Practice:
SLAM's design practice is unique compared with our competition given that we have an integrated practice under one roof including: Programming/ Planning, Architecture, Landscape Architecture, Structural Engineering and Interior Design. We also have a Design/ Build Studio including professional estimators, construction managers and superintendents that provide our design teams with insight other teams will not have regarding site logistics, phasing, constructability, cost and escalation in the CT marketplace. The design of a complex building program will always be more successful when programmer, architect, landscape architect, interior designer, structural engineer and construction professionals are working as one cohesive team in the same office, each making sure the other recognizes the importance of each team member's expertise and contribution. **Having these core disciplines in one organization results in better design. Since the Construction Manager selection process may still be ongoing during the WHS conceptual design phase, having construction professionals participating with architects and engineers will afford our team the critically important perspectives on construction costs, constructability and site logistics on early design approach decisions.**

SLAM is pleased to have recently added Mike Zuba, AICP to our educational design practice. Mike brings his unique expertise in demographic analysis, enrollment projections and public education master planning, which is a critical component to comprehensive school planning. Mike's expertise is available to advise the building committee and Board of Education on potential enrollment projection changes as the design unfolds. We have seen a trend in recent years coming out of the pandemic as families shift from urban to sub-urban settings, where enrollment projections are on the rise in certain districts. In fact, the enrollment projections provided in Addendum 3 indicate a continued increasing trend beyond the 8-year high used for the grant application in 2021. This should be monitored closely to determine if the school being built will properly serve the student enrollment that may be encountered on opening day and beyond. SLAM's team is positioned and prepared to help Stamford navigate this process and prepare the necessary data to address questions OSCG&R will ask on the topic. during construction. We will work closely with your team, administrators, and staff to ensure that facilities are available when you need them. Our documents will reflect these phasing requirements and we will work closely with the City and the contractor during the implementation of the project.

Unique to our peers, the SLAM Design-Build team includes professional estimators, construction managers and superintendents that provide our planning and design process with valuable in-house cost and constructibility insights.

Cost Modeling/ Estimating During Conceptual Design

An understanding of potential total project cost – not just construction cost – is an essential component to a successful project. Construction on an occupied site while students are attending school can add significant costs to your project. Our in-house construction managers and estimators work closely with us to identify the critical issues on projects. We are able to help you thoroughly understand the phasing requirements and the cost and schedule implications. SLAM's full-time estimators have successful and long track records for providing accurate project budgeting.

Our estimators can prepare conceptual cost models for the initial conceptual site/building design options we present to SPS and the BC. These models can include costs for site development, building construction, project delivery method, owner soft costs and project incidentals. The cost models will be one component of the initial studies to assist informed decision making in identifying the preferred conceptual design option. Cost models will also estimate the costs eligible for state reimbursement and track the net cost to the City of Stamford in the context of the state school construction grant program. The cost models will use construction cost per square foot values for the building components based upon our current experience in Connecticut's public education market, accounting for site costs, owner costs and escalation. The cost model can also be broken down into the Level 2 Uniformat required by OSCG&R and reconciled with the construction manager's estimate prior to upload to OSCG&R at design phase-ends.

Structural Steel Pre-Detailing (Optional):

In the Appendix section of our submission is a memorandum explaining the process of structural steel and concrete reinforcing (rebar) pre-detailing. Pre-detailing is an optional service SLAM offers as part of our Integrated Practice approach that will streamline the bidding, shop drawing preparation and review, reduce the schedule for receiving material on-site and reduce the construction schedule for the foundations and structural frame. It is a service pioneered by SLAM approximately 2 decades ago and has proven to be an effective way to reduce, or eliminate bidding RFI's for concrete and steel disciplines, reduce the spread of bids and reduce the overall construction schedule by 1-2 months.

The New Way of Work:

SLAM like many other companies have moved to a hybrid operation, which has made us versatile and nimble, such that meetings can take many forms, both in-person, virtual, or hybrid. SLAM and AEA maintain subscriptions to multiple online teaming software programs and our team is experienced in the use of the technology. We are skilled at conducting design meetings virtually to advance a design project in a timely fashion and maximize time efficiency. In fact, our Education Studio has recently completed several major design commissions over the past 3 years, with many team members working remotely and not missing a beat on the overall project schedule. Most impressive is that teams successfully completed regulatory approvals with local and state agencies, inclusive of virtual public hearings. As the world emerges from the pandemic, our teams are shifting back to in-person meetings for regulatory and building committee meetings, which we welcome. We are confident that we can begin immediately and advance the Westhill High School design process in accordance with the planned schedule.

Ranked 45st in the Top 100 Green Building Design Firms, our commitment to sustainable design permeates all of our work as a core value of our practice.

School Security

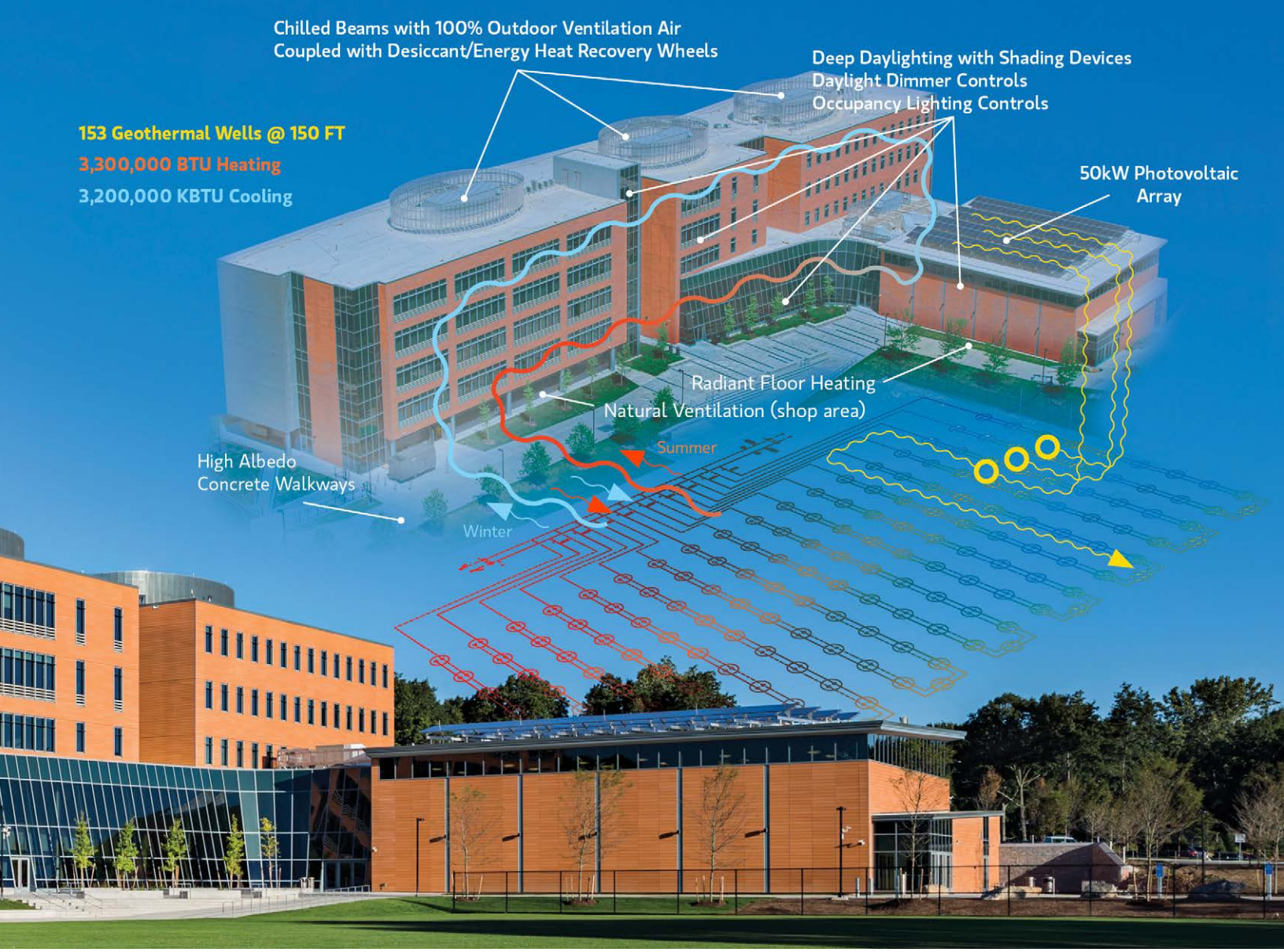
SLAM is experienced in applying the guidelines set forth in the School Safety Infrastructure Criteria Guildlines. We have completed many projects with high security requirements ranging from secure facilities to meet international shipping requirements to equipping schools required to meet Connecticut's School Safety Criteria Handbook.

SLAM's philosophy on school security is very different from our approach to the design of other secured facilities. While high security facilities are designed to provide a visual presence of security, schools need the security to be the invisible hand that provides necessary protection and is ideally not part of a student's daily experience and does not detract from a healthy learning environment.

Our team members stay informed about school safety and security best practices through continuing education seminars and also staying abreast of new policies set forth by the CT School Building Project Advisory Council (SBPAC), which now has the purview of the SSIC. Through professional relationships with SBPAC members, state officials, industry leaders and continuing education engagements, SLAM remains on the forefront of school security design topics. Best practice security concepts are shared with SLAM's entire Education Studio through periodic internal seminars, which enables the latest strategies to be brought to your project.

Architectural Style:

At SLAM we do not have a "signature style" for school buildings, we treat each project as a unique opportunity. As a firm, we pride ourselves in the practice of architecture through collaboration with our clients that results in an architectural style that fits within the context of the building location and boasts bright cheerful spaces that welcome and inspire the occupants. An architecture that is representative of the times, utilizes a material palette consistent with its context, with a nod to the history of the place where it resides. An architecture that is timeless so it will be a building the community will be proud of for generations to come. AEA has a similar design philosophy as SLAM, which made our joining forces for WHS an easy choice. Our collaborative efforts toward designing a contemporary new WHS will yield a building design that will be an exemplar current century high school to the community and city of Stamford.



CT High Performance Building Systems (CT HPBS):
Since the state of CT adopted the CT HPBS legislation in 2007, SLAM has designed 13 projects to meet and exceed the CT High performance Building Standards, 11 of which are public school projects. Nine of the 11 public school projects designed to the standards have exceeded the minimum requirement of "LEED Silver equivalent" and were designed to "LEED Gold equivalent". Please refer to the "CT High Performance Building Standards" and "Sustainable Design" information in Section 1 for more information.

Sustainable Design and the pursuit of Net Zero Energy Buildings:
Sustainable design is a core tenet of SLAM's design practice as evidenced by **SLAM being signatory to the AIA 2030 Commitment.** The AIA 2030 Commitment is an actionable climate strategy that provides a set of standards and goals for reaching net zero emissions in the built environment by 2030. **SLAM is also signatory to the SE-2050 Challenge**, which is an initiative conceived of and developed by members of the Carbon Leadership Forum, and is designed to ignite structural engineers and their firms to meet embodied carbon benchmarks and ambitious reduction goals. **The SE-2050 challenge states: "All structural engineers shall understand, reduce and ultimately eliminate embodied carbon in their projects by 2050".**

At SLAM we pride ourselves on maximizing sustainable design opportunities, especially in exceptional energy performance. Reduced building operational costs is where the design team can provide SPS and the city with lasting operational impact for the life of the building. A high school has a use profile that presents a greater challenge to achieving more aggressive energy use targets compared with elementary, or middle schools. The prospect of a new build presents the opportunity for optimal building orientation and a thermally efficient building envelope, which are two key factors in energy efficient design. The site may also present an opportunity for on-site power generation, which may help tip the scale in the direction of energy neutrality. Our team will work with SPS and the city to determine the level of interest in working toward energy neutrality and bring strategies for consideration. Refer to the "High Performance Building Standards" and "Sustainable Design" portions of this Section 1 for more information on SLAM's track record in the sustainable design arena. We are quite proud of our results.

Zero Net Energy (ZNE) Design Strategies:

The term "zero-net-energy" often connotes with clients the idea of added costs to both the design and construction of a school. While each project is unique, some basic principles can be followed in determining whether achieving energy neutrality is feasible and the good news is, even if a project can't achieve 100% neutrality, the effort will still result in a more energy and operationally efficient building and position the building for future adaptation to full-electric and ZNE.

- Assemble the right design team - collaboration is key to sharing ideas;
- Design the "right project" – the greatest savings can occur when you design for only the space you need;
- Utilize energy modeling early – cost benefit analysis is critical to making smart decisions;
- Look to alternative funding for on-site renewable energy
  - SLAM has teamed with private companies for funding of PV systems to pair with ground-coupled (aka geothermal) installations to "stretch" the project budget;
  - The Federal Inflation Reduction Act also provides opportunities for funding, programs and incentives to accelerate the transition to clean energy.
- Passive design still works – design of window systems, high performance glazing and shading devices will have an impact on energy consumption;
- Don't sacrifice the learning environment – while glazing is less efficient than a well-insulated wall, students learn better with natural light;
- Focus on your building envelope;
- Utilize building systems users can understand and provide training – an energy efficient building will only remain so if the users know how they work;
- Building Commissioning – utilize a commissioning agent for maximizing operational efficiencies;

Engagement with your utility company and other available incentive programs early in the process can pay dividends not only in operational savings for the life of the building, but also in the form of incentive payments that help pay for the capital costs associated with sustainable design initiatives. The key is making early decisions and designing toward established goals.

There are significant initiative dollars available through Eversource. A summary of the two major programs is provided below.

PATH 1: ZERO NET ENERGY/DEEP ENERGY SAVINGS:

SUMMARY OF ZNE/DEEP ENERGY SAVINGS		
Customer Incentives (Capped at $2 million per Federal Tax ID for Eversource and $500K for UI)		
Construction Incentive	Paid if the project design successfully achieves a 25 site EUI or alternative target approved by The Companies	$3.50/sf
Post Occupancy Incentive	Available following 1 year post-occupancy period if customer successfully shows the project achieved the target site EUI	1.00/sf
ZNE or PH Certification Incentive	Paid to customers that officially certify their projects as ZNE or PH	$10,000
Technical Assistance for ZNE Services		Up to $10,000
Verification Incentive		50% of fee up to $10,000

SLAM has engaged with a firm that specializes in identifying incentive programs for which a project may be eligible, and we will take the lead on this effort early in the design process.

Code Expertise

SLAM has several code experts on staff who work with design teams during all phases of projects to ensure code compatibility. Project architects and team members continually maintain current code knowledge through collaboration with our code experts as well as through continuing education programs offered by the firm. This ensures that conceptual design approaches are sound and achievable. The code change enacted in October, 2022 brings with it substantive new requirements that will impact school design. Our team has already attended several code seminars on the subject and have integrated the key requirements into our programming task and designs, specifically with regard to an owner decision point for gender-specific vs. gender-neutral restrooms, the latter of which carries significant area impacts. In addition to our in-house code expertise, we've supplemented our team with Code Red Consultants to lead the code evaluation and approach for the project to enable a constant force solely dedicated to the myriad building code and life safety considerations of a complex project like WHS.

CT DAS, Office of School Construction Grants & Review (OSCGR)

SLAM's and AEA's experience with CT DAS, OSCGR processes (PREP, SDR, DDR, PCR, Addenda and Change Orders) is unparalleled. Our dedicated K-12 studio staff remain in-sync with the expectations and code interpretations of OSCG&R reviewers, Department of Administration Services (DAS) policies and state legislative actions for school construction in CT. As a result, SLAM has excellent working relationships with the OSCG&R staff. We have a thorough understanding of the requirements and nuances surrounding OSCG&R policies and procedures, for all grade level school configurations, which positions our team for guiding the City of Stamford through the process and maximizing your reimbursement from the State of Connecticut.

SLAM has also served as the owner's representative on several school construction projects:

- South K8 School, Stamford, CT
- Ansonia Middle School, Ansonia, CT
- Early Learning Center, Stamford, CT
- Torrington Middle/High School, Torrington, CT
- Ox-Ridge Elementary School, Darien, CT
- Bulkeley High School + Central Administration, Hartford, CT
- Groton Middle School, Groton, CT
- Weaver High School, Hartford, CT

PATH 2: WHOLE BUILDING EUI REDUCTION PATH

SUMMARY OF WHOLE BUILDING EUI REDUCTION INCENTIVES	
Customer Incentives (Capped at $2 million per Federal Tax ID for Eversource and $500K for UI)	
Percent Site EUI Reduction	Rate
25.0% and above	$3.50/sf
20.0% - 24.9%	1.00/sf
15.0% - 19.9%	$10,000
10.0% - 14.9%	Up to $10,000
Passive house, LEED Gold and above (2 EAC1 credits required Certification Incentive	50% of fee up to $10,000
Technical Assistance	Up to 75% cost share (capped at $20,000)
Verification Incentive	50% of fee, up to $10,000

State and Local Regulatory Approvals

SLAM has extensive experience managing the regulatory approval process. We have successfully obtained approvals for projects in all cities and most towns in the State of Connecticut. Our efforts to obtain the required regulatory approvals and permits start at the beginning of the project with investigations of the requirements and introductory discussions with local officials and regulatory agencies. Upon completion of Schematic Design, we accelerate the development of the documents required for submission to local, state, federal and other applicable agencies with the goal of obtaining the required approvals prior to the Pre-Bid Conformance Review (PCR) meeting. The submittal packages are developed based on the agency requirements, reviewed with the Owner and submitted for approval. Meetings with agency staff occur during this process culminating with necessary public hearings and successful agency approvals. Please refer to additional discussion below in the Project Management Plan for additional information about our plan for WHS regulatory approvals.

Collaborative Process with Community and Student Engagement:

The success of a public-school project depends on positive constituent support. One means to achieve this is through the development and execution of a strong community engagement program to circulate the correct facts throughout the community and garner support for the design. By obtaining input from a diverse user group and community members, we are able to get vital information about the needs and goals of the district and community, and focused interaction of many users can help to forge a common vision. Our team will work with the city and SPS at the outset of the project to craft a community engagement and public outreach program that is appropriate and agreeable to district leaders.

Due to the anticipated pace of the project and the need to keep a constant force on community engagement, we've engaged MEMASI architects to lead the community engagement component of the project. MEMASI is a local to Stamford woman-owned architecture firm that has several ties to the Stamford community through project work and employs one of the founders of the "My Architecture Workshops" non-profit organization (MAW). The MAW program introduces students to the fields of architecture, design, and construction. Workshops and collaboration focus on engaging youth who are interested in exploring careers in the AEC Industry. MAW has been the recipient of a Stamford Arts & Culture grant in 2023, among other grants from Fairfield County organizations, which they use to deliver the youth programs and summer camps. My Architecture Workshops lead the Architecture, Design and Engineering S.T.E.A.M Camp which is hosted at the Strawberry Hill Barn facility. It is a K-8 summer camp designed to engage student's minds and imaginations to explore how buildings and cities are designed and built.

MEMASI will work together with SLAM to facilitate community engagement during the course of the WHS project. Our team's community engagement process will be focused on empowering WHS students, staff and families to build a legacy for their own community. We will facilitate a collaborative process that bridges stakeholders exclusive of culture, age, and socio-economic status. This process begins with the educational specification and culminates at construction completion.

As the liaison between the community, students, teachers, and school leaders, MEMASI's role will be to keep the community engaged, ensure their voice is heard, and to keep the public abreast of the design process. They will do this through clear communication and graphic representation in multiple settings and means including small and large group meetings, community summits, town hall meetings, web-based surveys & postings, board meetings, district planning meetings, outreach focus groups, general public updates, on-going project design team meetings and site visits.

An additional bonus for the students of SPS and specifically Westhill HS students is an opportunity for our team to work with SPS and Westhill administration to craft student engagement programs for exposure and mentorship opportunities using the Westhill HS project as a catalyst.

Results

At SLAM we pride ourselves on our achievement of delivering all of the school projects we're privileged to design within budget and keeping A/E related change orders well below industry standards. In fact, over the past 12 years many of our projects have had A/E related change order results of less than one percent of construction costs. This excellent performance record is due to the comprehensive cost control, detailed documentation prepared using BIM (Revit®), and SLAM's thorough QA/QC procedures that we institute during both the design and construction process.

Evidence of our exceptional results is presented in the History of Contract Performance matrix located at the end of this section.

We Are Ready to Go

Our proposed team just completed the design of several large comprehensive high schools, and with the Bulkeley and Torrington projects now under construction, the SLAM/AEA design team is immediately available to begin the Westhill High School project and welcome the opportunity to work with the city of Stamford on this exciting project.

PROJECT MANAGEMENT PLAN
OVERVIEW

SLAM is committed to delivering exceptional architecture while at the same time respecting our clients' budget and schedule requirements. This has been consistently accomplished through intense use of project management tools to maintain schedule within our in-house and consultant team, and through the resources of our professional cost estimators to provide cost management throughout project lifecycles. Working closely with our clients to avoid cost or schedule "surprises" has been a key measure of project success at SLAM.

The WHS project schedule is aggressive and to address that we've teamed with a trusted partner as an associate architect: Amenta-Emma Architects (AEA). SLAM and AEA share a common philosophy for educational design and have delivered the very successful, award-winning Weaver High School renovation project in Hartford together. On Weaver, our team worked seamlessly by clearly identifying the role of each firm and working collaboratively throughout the design and construction. We will bring this tried and tested professional relationship to Stamford enabling us to hit the ground running and deliver a landmark new Westhill High School within the timeframes identified in our proposed schedule.
We have a memorandum of understanding in-place for the project, where SLAM is the Prime contract holder, will be the Architect of Record and will be the primary client contact for overall project management. SLAM will lead the programming & planning and interior architecture, and SLAM's Lead Designer will coordinate closely with AEA as they will be responsible for design of the Core & Shell of the building. This is the same teaming structure we used for delivering the Weaver HS project in Hartford.

Communication:
SLAM's project teams are structured to provide our clients with a single well-defined point of responsibility for decision making and for the total contractual obligations of the firm and project team. This WHS project will be led by Kemp Morhardt, AIA as Principal-in-Charge and he will have overall responsibility for project administration and final responsibility for project decision making, working in concert with a lead project manager, Amy Samuelson, AIA who will be the day-to-day contact for the city and owner's representative. Additionally, for the WHS project we have assigned two additional assistant project managers Craig DeJong, AIA with SLAM and Jenna McClure with Amenta Emma, both of whom will have day-to-day responsibility for leading their respective in-house teams and advancing the design and documentation of the project through all phases of the work.

We can establish a project website where all project documents can be uploaded and shared with secure access credentials for all project participants. This will permit easy access to schedules, meeting minutes, progress plans, engineering reports and other A/E team deliverables during pre-construction.

Project Initiation:
At an initial coordination meeting with key individuals from the city, Owner's Representative, Stamford Public Schools (SPS), WHS administration, and the Building Committee (BC), we will review and confirm major project goals and priorities. This process will allow the design team to establish a detailed work plan and methodology to which all participants can agree, ensuring that all efforts will be focused and efficient. This meeting will include assessment of the project schedule, communication procedures, and project deliverables. We will also discuss key program and service requirements based on our understanding of the project. We will establish clear guidelines and assign individual responsibilities.

Cost & Schedule Controls:
Our team has remarkable in-house cost and schedule analysis capabilities far beyond a typical architectural firm. There are three reasons for this.

In the state of Connecticut, SLAM has forged leadership in the professional practice by embracing concepts of design accountability and design control through cost control into the structure of our practice. We are pioneers in the design/build side of the practice with experience unmatched by any other firm. SLAM is unique in our approach to controlling cost and schedule through interaction with our Design-Build Studio (D-B Studio). Our D-B Studio employs professional construction cost estimators, construction superintendents and construction project managers, who build our own design work for certain clients. Professionals from the D-B Studio are involved with project design teams beginning in conceptual design to scrutinize our designs through the eyes of a constructor advising on budget and constructability. We do not rely solely on phase end estimates from outside consultants; we work on a continual basis with our in-house construction professionals throughout the design process. We find this approach to be invaluable, and our clients and their builders concur.

Controlling change orders begins during the design process with clearly defined goals and objectives. The cost of a change can best be maintained if it occurs during design rather than in the field. During the programming phase, we confirm the size and budgetary expectations of the Owner and then work to keep the project within these limits. Another key factor in controlling change orders is thorough and precise documentation. Recent public-school projects, designed using Revit®, are generally under 1% for A/E documentation related changes - a track record of which we are extremely proud. This is largely due to the comprehensive cost control procedures that we institute during both the design and construction process. However, the real value that the SLAM team brings to the project is high quality documentation and how we quickly resolve potential issues when they arise in the field to minimize cost and schedule impact.

SLAM'S NATATORIUM EXPERIENCEL


Weaver High School


Westport Weston YMCA

Bulkeley High School

SLAM has experience planning and designing recreational and aquatic facilities for public schools, agencies and communities. We prioritize safe, enjoyable, and memorable experiences for children and families. Our meticulous team understands community needs, promoting engagement, physical activity, and well-being. Collaboration is key as we work closely with stakeholders, creating facilities that exceed expectations. SLAM has completed the following pool projects:

- Weaver High School
- Bulkeley High School
- Westport Weston YMCA
- New Canaan YMCA
- Ridgefield Recreation Center
- Hamden High School
- University of Connecticut
- Mansfield Community Center
- Camp Mahackeno

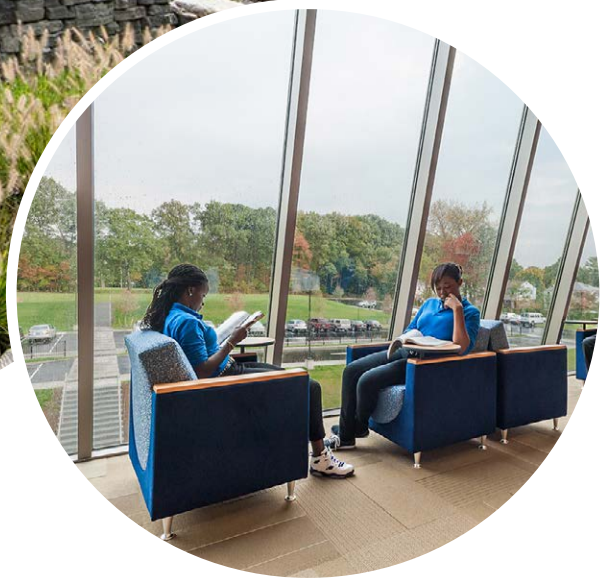
Regulatory Approvals and Stamford Board Approvals:
A key component to a project's success is gaining a complete understanding of the various regulatory approvals required. At the outset of the project our primary task will be to identify and outline a schedule for necessary state and local regulatory approvals so the entire team is aware of the requirements.

SLAM is well versed in the local approval processes of the city boards that will have approval jurisdiction over the project, including but not limited to the Board of Education, Planning Board, Board of Finance and Board of Representatives. Our established professional relationship with these boards and their members will help to streamline review and approvals.

When considering a second building on an existing site, our team will investigate what special approvals may be required by local zoning. Although school projects are exempt from zoning regulations in Stamford, our team always works to achieve designs that fit within the zoning regulations as much as possible. The WHS project will be a unique case given that for a time there will be nearly one million square feet of buildings on the site, even if temporarily. This will present storm water management challenges that will need to be carefully coordinated with city engineering, the planning & zoning commission and other city agencies. Any unique agency approvals will be important to understand since an extended local regulatory approval process will have schedule, and cost implications, which need to be factored into the project budget model.

Task Management:
We achieve effective schedule control by breaking each design phase into a series of interdependent tasks with specific start and finish dates. This includes identifying all meetings, key decision milestones, and specific schedule constraints. The schedule is then monitored throughout the pre-construction phase working closely with the Owner's Representative, Construction Manager and Building Committee to keep the team on-track. This results in the close tracking of tasks which allows the design team to take action quickly should the need arise.

Value Analysis:
An important goal for the SLAM + AEA team is to deliver the highest value for the construction dollars that are available. Every project has a budget limitation and we will assist you in making educated decisions on how this budget will be expended to provide great value. Durability and maintainability are critical concerns and these must be weighed very carefully against the initial cost of a construction system and the long-term maintenance/replacement costs. We will provide these analyses on primary building systems and review them with you so that you have a clear understanding of what you are buying.



> **Delivering large-scale buildings on an active campus require proactive planning, thoughtful design, a focus on safety, and a commitment to minimizing disruption to the student experience.**

WORK PLAN

PRE-DESIGN

Initiation & Inventory:

The initial period of the project establishes the lines of communication, team roles, meeting schedules, interview list, funding, project goals, and facilitates the collection of site and building data.

Inventory will involve review of materials provided by Stamford Public Schools and the Building Committee; including existing site surveys/ site plans and building plans as applicable. This phase also includes site visits by the project team to document existing site conditions.

- Review previous project studies
- Review other pertinent data provided by the District
- Alignment of program with enrollment projections
- Inventory existing buildings for adaptive re-use into the overall campus
- Evaluation of zoning regulations to understand land use planning requirements

Schedule Development:

As part of our RFP response, we've developed a preliminary design and construction schedule for Phase-1 Tasks 1 and 2, Phase 2 and Phase 3 work outlining the major tasks/ activities leading to a successful project outcome. Our team will work with city representatives, SPS, the building committee, owner's representative and construction manager to refine the schedule providing an appropriate timeframe for the necessary pre-construction activities including: design, estimating, regulatory approvals and competitive bidding. We will provide a detailed breakdown of each major phase to ensure all the fine-grained details are accounted for and not overlooked.

Our approach is simple, we:
1) Work with your team to establish the design phase-end deadlines;
2) Develop a detailed, task-based, critical path method (CPM) schedule;
3) Continue to develop and manage the schedule as the design process unfolds to meet the agreed upon deadlines.

Meeting the established project schedule for the Westhill High School is an important commitment that SLAM will make to the city of Stamford. We understand that once we agree to a schedule, it is essential to follow through and meet it.

Our experienced project managers achieve effective schedule control by breaking each design phase into a series of inter-dependent tasks, applying the necessary critical thinking to establish realistic start and finish dates and fully utilizing the task dependency features of Critical Path Method (CPM) scheduling software. This enables them to determine when certain tasks may require special attention or additional resources to maintain the schedule. Tasks include identifying all meetings, key decision milestones, owner schedule constraints, regulatory submission deadlines and approval time lines, and major and minor task completion dates. Due to the variety of stakeholders on a public school project and varying levels of ability to understand complicated CPM schedules, we also provide a more "user friendly" week-by-week work plan that will clearly outline individual team member tasks and activities, our deliverables, and meeting/ approval dates. This allows the Owner to effectively coordinate with the design team to schedule key meetings in advance and to monitor our progress against our projected deliverables.

Please see preliminary Design and Construction schedule and Preliminary Work plan for Conceptual Design and Schematic Design located in the Appendix.

Synthetic Turf Track & Fields

Synthetic-turf playing surfaces are becoming more popular in public schools because they require less maintenance and have less downtime after inclement weather. They also allow for the flexibility of field markings to accommodate a wide variety of sporting events. Synthetic sports fields can reduce maintenance, increase safety and enhance drainage, among other benefits.

SLAM has designed athletic fields and synthetic tracks for many of our public schools projects which involved factors such as site selection, grading, drainage, irrigation, soil preparation, turf selection and installation.

- Rogers High School, Newport
- Torrington Middle/High School
- Weaver High School, Hartford
- Bulkeley High School, Hartford
- Groton Middle School (Synthetic turf field, no track)
- Ellis Technical High School, Danielson
- Nonnewaug High School, Woodbury
- East Hampton High School
- Bowen Field, New Haven
- CREC Public Safety Academy, Enfield
- Providence Career Technical Hight School Athletic Center, Providence
- Floyd Little Athletic Center, New Haven
- Granby High School

Site Evaluation

Experienced land planners from in conjunction with our civil engineering and the city of Stamford's land survey consultants, we will use existing base maps, aerial photos, available geographic information systems (GIS) information and personal site observations as the basis for our continued investigation of the proposed school site. An Existing Conditions Inventory & Evaluation plan will be prepared for the site, which will highlight the characteristics of the site and serve as a baseline of information to inform multiple conceptual development scenarios. The focus of the evaluation will be on developing an understanding and graphic illustration of:

- Natural features (Topography, soils, bedrock, wetlands, flood plains etc.)
- Built environment
- Traffic routes and parking
- Utilities and infrastructure
- Local & State regulatory requirements (land use zoning, OSTA requirements, local health dept., etc.)
- Outdoor opportunities to add program space for use by the school based on curriculum

The information identified in the site analysis process will provide the backdrop to study multiple building and site development concepts to review with the SPS and the BC, in order to confirm the current concept design is the best path forward. Task 1 of the Phase 1 work will develop multiple layouts to test the "fit" of the overall program to the site. Diagrammatic scenarios will evolve through subsequent testing and reviews with SPS/BC into an optimal conceptual site design solution. The Conceptual Design process is discussed further below.

Needs Assessment/ Architectural Space Program:

Simultaneously with Site Evaluation and Conceptual Design, SLAM will work with SPS to verify the architectural space program is properly aligned with the requirements of the Educational Specifications for the new Westhill High School. We will work with the district to verify that the space program properly considers functional needs, preferred adjacencies, planned growth, and maximizes the goals of the project and state reimbursement. We bring our experience with similar facilities to translate the district's needs into practical space requirements and solutions. The deliverable for this task will be a tabulated space program which will be a component of the schematic design package that describes the spaces and key attributes of each space and major/ minor system for the school. Finally, the program verification process will address the site program requirements (i.e. athletic fields, pedestrian safety, bus circulation, faculty and student parking, etc.), and space needs for the community. This process is discussed in greater detail in the "Programming/Planning" discussion above in the Project Approach.

Benchmarking

Every district in Connecticut is unique and has its own set of educational approaches and needs. However, there is significant value in knowing what types of facilities are provided in similar communities. Benchmarking is an important part of the SLAM design process. Our database consists of a large number of public and independent schools. We are able to analyze how other educational institutions use space and how that compares to Stamford's expectations. This data is invaluable in working with local BoE, building committees, and school administrators. In many communities, we are given an educational specification that significantly exceeds the state's maximum reimbursement levels for building area. The benchmarking approach is instrumental in challenging space requests and developing realistic space programs and educational specifications for the project to be exactly what is necessary - no more and no less.

Site visits to similar facilities are another important component of our benchmarking process. By visiting buildings with the Board of Education, building committee and key school administrators, we are able to forge a common language that will serve the design team throughout the project. The team can see how other communities have addressed similar issues and see their own design challenges in a new light. We can see the physical evidence of construction cost and understand the concept of quality levels. Finally, we are able to spend time together and form working relationships that will benefit the project and reward committee members who have committed so much of their personal time to the project.

PHASE ONE-TASK ONE
CONCEPTUAL DESIGN

The conceptual planning phase is the time for SPS and the building committee to further explore its options for the project. At SLAM, we collaborate closely with our landscape architects, recognizing that site development is an integral part of the design solution. Our landscape designers work closely with civil engineering and traffic consultants to understand the overall land use objectives and sequence of student and staff arrival/departure. Managing large numbers of students arriving in cars and by bus in a short period requires careful planning to integrate safety and security into the solution. Also layering on the complexities of an occupied construction site, redundant utility services, temporary parking, temporary fields, etc. are explored and vetted for the optimal project approach.

In addition to site planning, multiple building layouts will be explored through blocking and stacking diagrams and siting. The concepts will be reviewed with respect to their success in meeting programmatic needs. Diagrammatic scenarios will evolve through iterative testing and review with SPS administration, the building committee and community if deemed appropriate, culminating in the "preferred option". Once the preferred option is identified, the conceptual design will be developed into a full Schematic Design. This work will commence immediately and be completed within the first 6 weeks of engagement, the work-product from which will direct the team in the development of the schematic design package. Please refer to the "Design Process & Conceptual Planning Options for Westhill HS" portion of this section for some our teams' initial thoughts for WHS which have considered the following primary criteria.

- Inventory and analysis of existing school facilities constructed in 2008 under SDE 135-0260 E
- Study Alternative building locations and their implication's on the campus
- Study the programming and location of the Natatorium on the campus
- Study the integration of the existing VOAG building into the new campus
- Establish planning and review meetings with the Community and Stakeholders

PHASE ONE-TASK TWO

SCHEMATIC DESIGN THROUGH CONSTRUCTION ADMINISTRATION

While engineering investigations (i.e. geotechnical, hazmat, etc.) are being conducted the team is preparing for the schematic design phase. The schematic design package will serve as the documentation on which the remaining portion of the design phases will be based. During schematic design, the team will develop the recommended preferred conceptual design (described above) with greater detail to layout the major components of the buildings, determine the material palette, identify major building systems and plan the project's high performance design initiatives. The schematic design package will consist of a report and technical drawing set, inclusive but not limited to the following:

- Executive Summary;
- Site analysis, design, materials, grading and utilities descriptions;
- Preliminary grading and utilities plan;
- Architectural code analysis;
- Architectural design and material descriptions;
- Scaled architectural plans & elevations describing major building component relationships;
- Building Systems and material descriptions for Structural, Plumbing, Fire Protection, HVAC, Electrical, Technology, Security and Food Service systems;
- Summary of engineering investigations for geotechnical, regulatory permitting requirements, traffic analysis and others as necessary;
- Preliminary CT High Performance Building Standards checklist outlining anticipated project credits;
- Zero-Net Energy strategy and incentive program opportunities;
- Updated overall project schedule;
- The final step of the schematic design phase will be to present the package to SPS and the building committee for approval and then meet with OSCGR for the Schematic Design Review (SDR) meeting.

Design Development

After approval of the schematic design package, the team will proceed into the design development phase where the schematic design is developed into a completed design including all ancillary spaces, development of the MEP/FP systems, routing, etc. Upon completion of design development, we will prepare construction documents for bidding and construction. Below is a summary of tasks performed at each respective phase from Design Development through Occupancy.

- Develop detailed plans, sections, and outline specifications for the project;
- Work with the construction manager (CM) to update the cost estimate(s) based on the latest design(s);
- Update schedule for the projects;
- Develop approach to project phasing, as required;
- Review designs with Code Officials;
- Gain local and state regulatory agency approvals;
- Gain BC approval of design development drawings, specifications, and cost estimates;
- Conduct Design Development Review (DDR) meeting with OSCGR;

The SLAM Collaborative has in-house designers and specialist that focus primarily on sports facilities.

With an emphasis on athletic architecture and design, the SLAM team brings experience in delivering athletic projects of all kinds. Projects include softball facilities, tennis centers, stadiums, athletic centers, and football stadiums to name a few. Our vast portfolio brings key benchmarking and cutting-edge trends in athletic facility design.

Demolition and Environmental Abatement Documents

- Prepare detailed drawings and specifications for the project;
- Update cost estimates and schedule;
- Prepare State forms, reports, and cost estimates required by the State for review;
- Gain approval of Building Committee, Superintendent of Schools, and Board of Education to submit the plans to the State (Form SCG 042);
- Gain approval for CEPA/Federal Section 106 funding
- Conduct Pre-Bid Conformance Review (PCR) meeting with OSCGR;
- Gain authorization to bid the project from OSCGR;

Construction Documents

- Prepare detailed drawings and specifications for early concrete and steel package:
- Prepare detailed drawings and specifications for construction of the project;
- Update cost estimates and schedule;
- Prepare State forms, reports, and cost estimates required by the State for review;
- Gain approval of Building Committee, Superintendent of Schools, and Board of Education to submit the plans to the State (Form SCG 042);
- Conduct Pre-Bid Conformance Review (PCR) meeting with OSCGR;
- Gain authorization to bid the project from OSCGR;

Bidding Phase

- Develop Early bid package(s) if deemed necessary by the CM
- Steel and Concrete
- Pre-Position Long Lead Items
- Work with Building Committee and CM to place the project out for bid;
- Answer contractors' questions and attend pre-bid meeting(s);
- Prepared Bid Addenda as required;
- Attend bid opening(s);
- With CM, analyze bids and recommend bidders to building committee for approval;
- Review requests for substitutions;

Construction Phase-1 Construct new Westhill High School

- Attend job meetings and visit the construction site on a regular basis to observe progress;
- Answer contractors' questions;
- Review/approve requisitions, shop drawings, and change orders;
- Attend building committee meetings to explain progress and gain approvals;
- Prepare punch lists of incomplete items;
- Attend grand opening;

Furniture and Equipment Selection Phase

- Review furniture and equipment needs with teachers, administrators, and the BC;
- Propose furniture and equipment for approval;
- Prepare drawings, schedules and specifications for bidding (later in construction schedule);
- Review bids and recommend contractor acceptance;
- Assist in inspection and placement at arrival;

Construction Phase-2 Abatement, Decommissioning and Demolition of the Existing School

- Attend job meetings and visit the construction site on a regular basis to observe progress;
- Answer contractors' questions;
- Review/approve requisitions, shop drawings, and change orders;
- Attend building committee meetings to explain progress and gain approvals;
- Prepare punch lists of incomplete items;

Construction Phase-3 Reconstruction of Athletic Fields and Final Site work

- Attend job meetings and visit the construction site on a regular basis to observe progress;
- Answer contractors' questions;
- Review/approve requisitions, shop drawings, and change orders;
- Attend building committee meetings to explain progress and gain approvals;
- Prepare punch lists of incomplete items;
- Attend grand opening;

OUR DESIGN PROCESS

Our school designs rarely look alike because we dedicate a great deal of time seeking to understand the specific educational goals and teaching pedagogies of each school. This usually happens when we sit together with school administrators, educators and community stakeholders and talk things through ~ and requires us to REALLY LISTEN, before we start drawing.

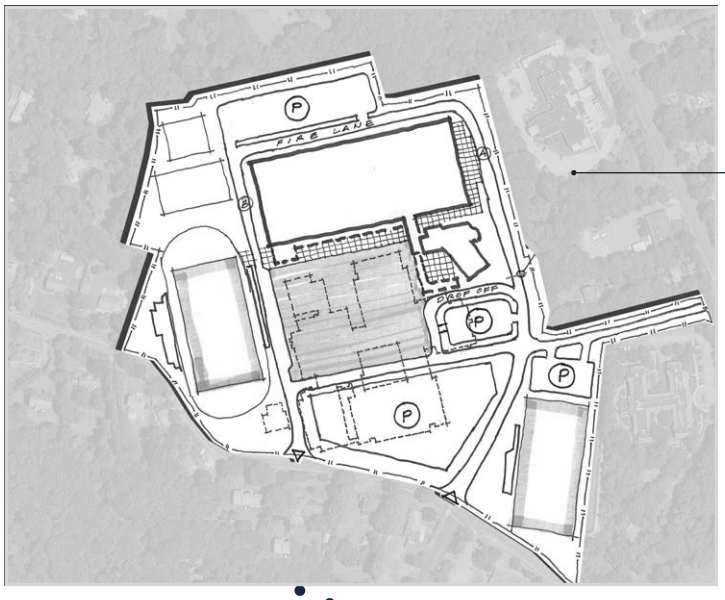
We understand, however, that providing a glimpse of how we work is an important part of the selection process. So, in the absence of these vital conversations, we have spent recent weeks reviewing the documents you've developed and began exploring and testing a few initial design concepts. This effort is not intended to promote a specific solution, but rather a simple means to begin educating ourselves to what might be possible and identifying critical factors that might impact your project.

So far, we have explored three options. In each case, we have prioritized:

- Providing all learning spaces with access to natural light, and orienting classrooms for optimal visual environments and reduced glare,
- Developing greater plan flexibility and enhanced opportunity for 21st Century learning, and
- Promoting Student access and safety across the full extent of the site.

In the end, it's all about promoting learning, not the building.

WE'VE EXPLORED THREE OPTIONS:



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Option 1 - Just Cleaning it Up

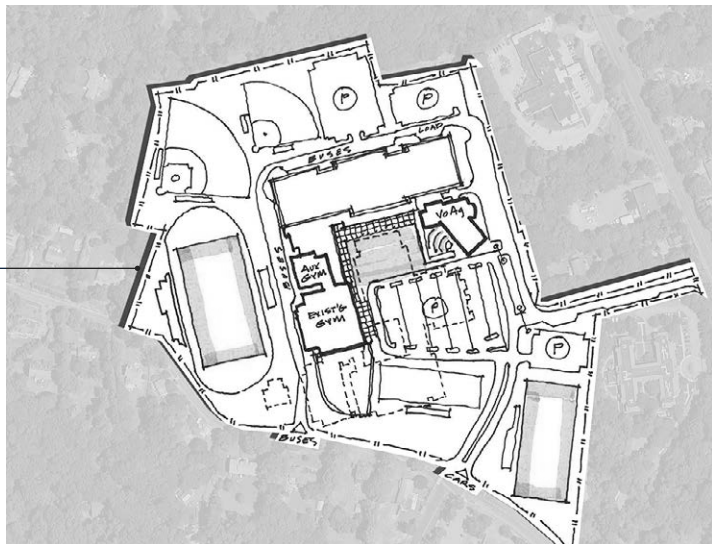
We examined your Planning & Estimating Phase efforts (Appendix D). Acknowledging the overall soundness of the proposed location for the new school, several needs were apparent. We've studied two alternatives that explore means to:

- enhance student safety by improving vehicular access, circulation and controls,
- provide a more functional accommodation of school buses,
- avoid student crossing vehicular lanes to access sports fields, improving equity and access for the sports facilities,
- develop greater plan flexibility and enhanced opportunity for 21st Century learning, and
- provide every learning space access to natural light and beneficial solar orientation

2

Option 2 - What if We Kept the Gyms?

Budget concerns led us to examine the potential for maintaining the two gymnasium spaces. We explored a phased scheme that would fill-in the existing pool to accommodate other elements of the PE / Athletics program and then build a new Natatorium. All existing locker rooms and support spaces would be fully reconfigured. Maintaining these large spaces provides the added benefit of allowing us to reduce the overall height of the balance of the school, eliminating a floor level and enabling distribution of the academic program across three and a half levels.



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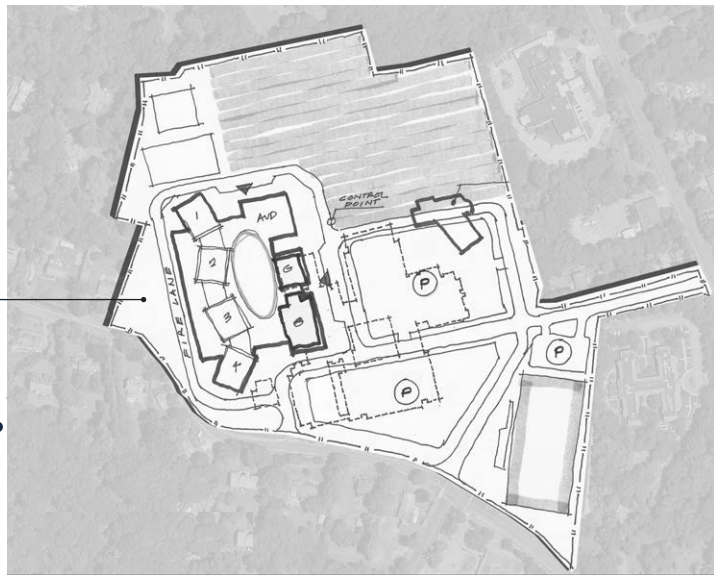
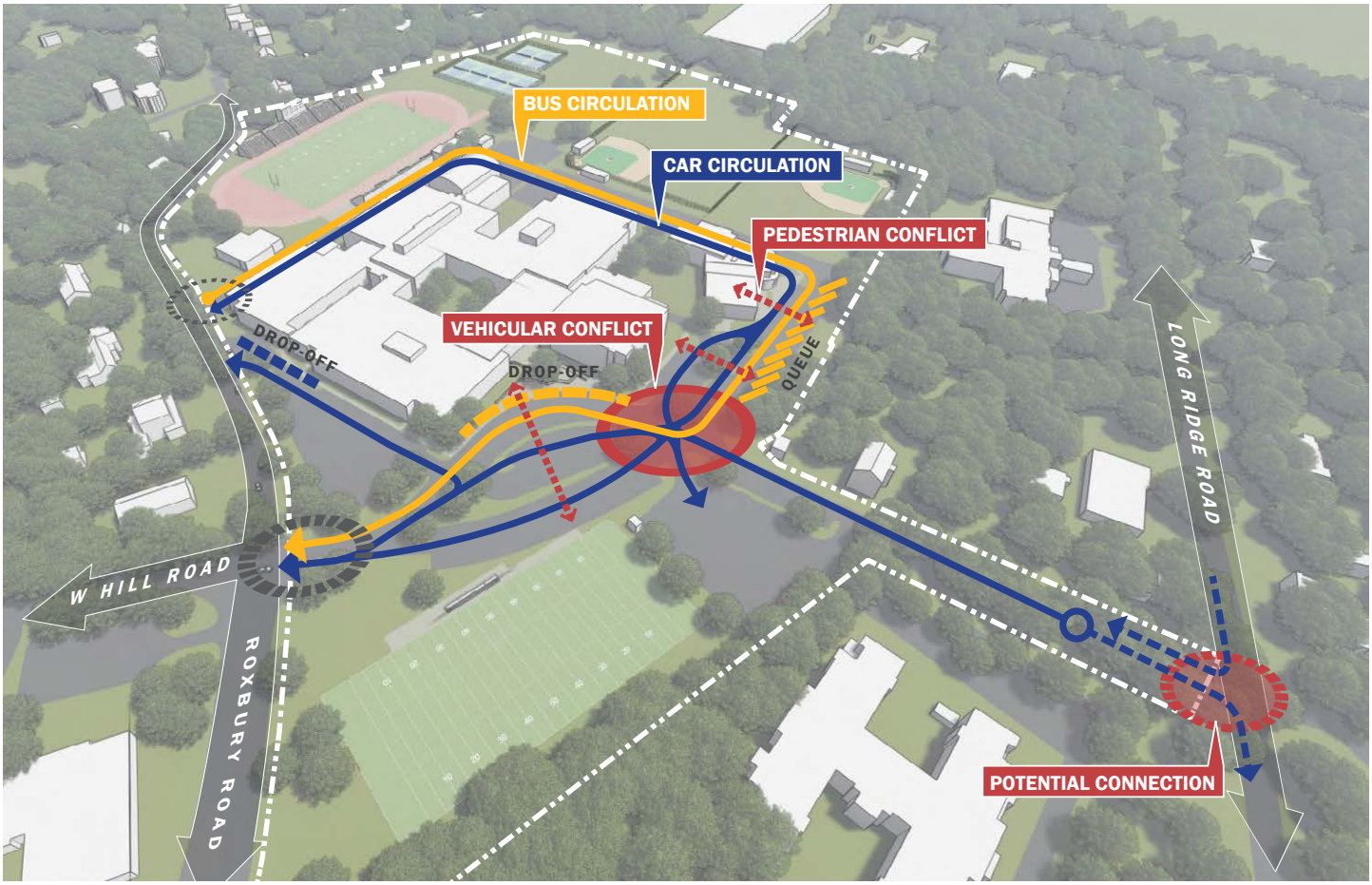
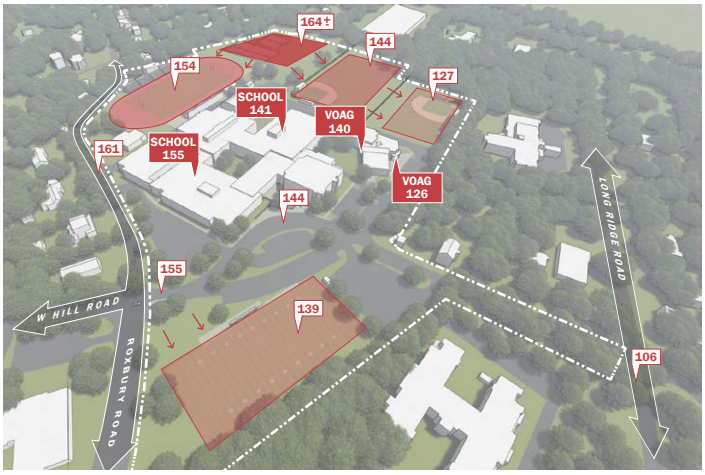
Option 3 - At the Stadium

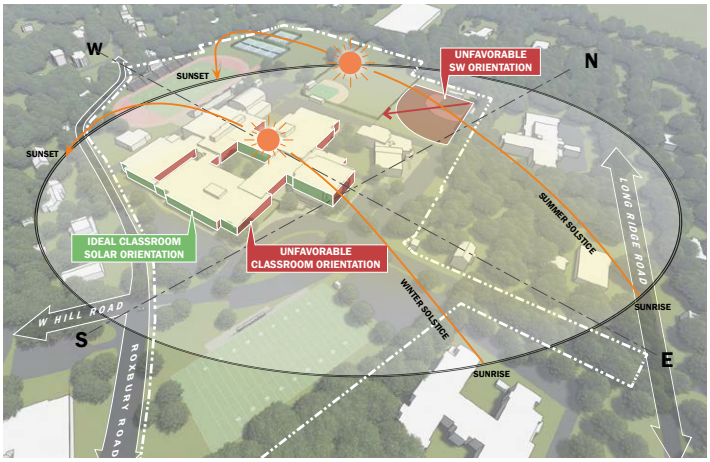
We examined positioning the new school at the present location of the existing track and sports field. While the potential for maintaining and incorporating the two existing gymnasiums was initially enticing, the unfunded costs associated with replacing the track and stadium, and the degree of logistical disruption and modifications to the topography of the site were determined to be prohibitive. This was further aggravated by having to place the Stadium field in a compromised solar orientation.



A LOOK AT YOUR SITE







Existing Site:

The 32.32-acre property at 125 Roxbury Road serves as the current site for Stamford's Westhill High School. The High School is located on the central southern portion of the site, with parking adjacent to the south, east, and north of the building. An existing VOAG facility, which is to remain, is located just NE of the main High School.

As the existing school will remain functioning while a new school is constructed, one measure of success of the project will be managing the phasing of construction. See detailed phasing plans on the following pages. This phasing approach allows construction vehicles and material delivery trucks controlled access to the site while separating them from the continuing operations of the existing school campus. Maintaining access for fire/emergency and delivery vehicles to the school will also be required.

Athletic Fields & Facilities

Various athletic fields and facilities are located on the site and are intended to remain or be replaced/repaired as part of the new school program. Our observations are listed below.

- A synthetic football field and surrounding track with bleachers (Western side): Both have outdated surfacing and drainage could be improved.
- Six Tennis courts on the Northwest corner of site: Appear to be in overall good condition.
- Baseball Field w/ Dugouts North of the High School: The baseball field is properly oriented and appears to be in good condition, although any future fields may benefit by improved sub-surface drainage and irrigation.
- Softball Field North of the VOAG Building: Although oriented SW rather than NNW as typically recommended, the softball field appears to be in good condition and may benefit from improved sub-surface drainage and irrigation.
- Soccer/General Practice Field Southeast Corner of the site: Appears to be in good condition.

Understanding Pedestrian & Vehicular Traffic Flow

The site is currently accessed from Roxbury Road via three separate curb cuts consisting of a main entrance/exit directly across from West Hill Road, a secondary access further to the west, and a parent drop-off exit in between.

A potential access lane/exit onto Long Ridge Road to the east, currently blocked by a stone wall, does not meet grade in a way that would permit it to function as a construction access drive as-is. Depending on the City of Stamford's requirements and OSTA approvals, the site planning should consider using this connection as independent access for construction vehicles and equipment. This potential connection would separate school and construction activities and, if left in place as a permanent condition, could alleviate vehicular conflicts on the site by directing bus circulation to use an egress. For these reasons, we highly recommend evaluating the feasibility of this connection.

Approximately 57 buses currently enter the site from the west, stack/queue on the east side of the High School and pick up students directly in front of the existing entrance plaza. The buses then exit onto Roxbury Road opposite West Hill Road. The circulation routes for vehicles entering the parent drop-off and buses leaving the site for Roxbury Road cross at the SE corner create congestion, conflict, and stacking issues. The site planning should clarify the varying circulation routes and pedestrian crossings, minimize decision points, and, ideally, fully separate bus and car circulation. Parents, faculty, and student drivers generally enter the site from Roxbury Road. Parent drivers then turn left to the parent drop-off area, where there is also a small parking area. The traffic from the parent drop-off exits onto Roxbury just below the Southwest corner of the building. Various parking areas are scattered throughout the site, with spaces often accessed directly off the main loop drive, introducing multiple decision points for drivers. Our primary goal when re-designing the site will be to create safe, clear circulation that minimizes decision points for all visitors, but especially young inexperienced drivers.

Our proposed design work will explore creating "safe pathways" for students and faculty. Direct connections from the gymnasia to the athletic field areas will be studied to minimize students crossing site circulation traffic. Parking areas should be located and designed to allow for direct, uninterrupted access to the school by students, faculty, and visitors. Circulation for bus and parent drop-off should be safe, logical, and proximate to the school entrances to allow for ease of access, particularly in inclement weather. Circulation for delivery vehicles and trash removal should be gated and separate from all other drives and student activities.

Topographic Considerations – Making the Grades Work

There are significant elevation changes throughout the site. The access drive surrounding the existing facilities varies as much as 20 feet from the lower student parking areas to the east, rising in elevation as it passes behind the building, past the Football Field/ Track and exiting onto Roxbury Road. The topography surrounding the existing High School and VOAG Facility also varies significantly, resulting in entrances and service areas at multiple levels. The athletic fields also lie at varying elevations creating a series of flat active areas with sloping grades between.

Several significant rock outcroppings occur throughout the site. The larger outcroppings between the tennis courts and the nearby baseball field and track and field grounds are particularly noteworthy.

Solar Orientation – Taking advantage of Siting

The current High School is generally orientated North-South / East-West. The orientation of the proposed new building and fields should consider solar positioning as related to optimizing natural light for classrooms and other spaces within the building. Enhanced energy harvesting through photovoltaics and building forms will be studied. Where possible, athletic fields and tennis courts will be oriented N-S to NNE-SSW as typically recommended for best playability.

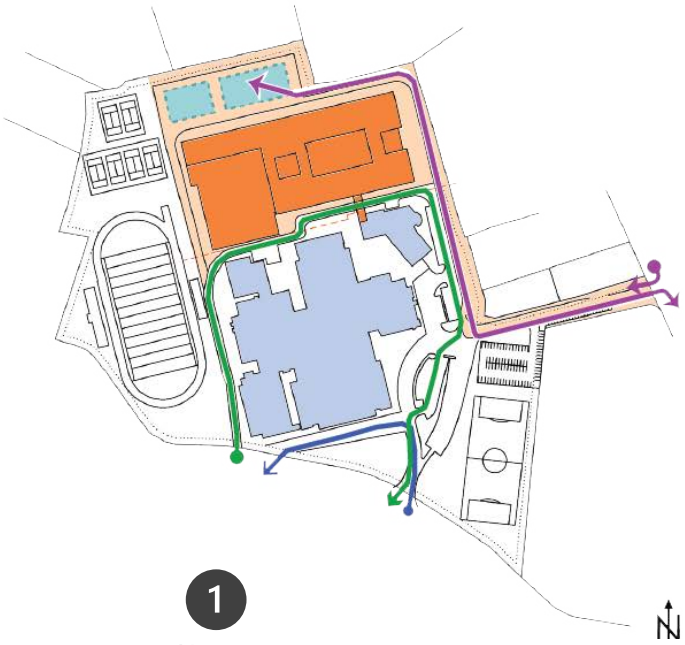
Adjacent Land Use – Looking beyond our Site

The site is surrounded by a mix of properties with varying uses.

- To the south (Roxbury Road) and west (Bancroft Road), the neighboring properties are primarily single-family homes.
- To the north, there are additional single-family homes along Bancroft as well as the Xerox headquarters site (currently not in use), including a large parking garage directly north of the baseball field.
- To the east, there is a mix of senior care facilities (Brighton Gardens of Stamford / Long Ridge Post Acute Care) as well as a few small commercial/retail properties.

The relationship between the use of neighboring properties and the location of the proposed building and facilities must be considered. A design that is well-received by the neighborhood will depend on preserving existing trees and keeping green/open space between the new school and residences and senior care facilities.

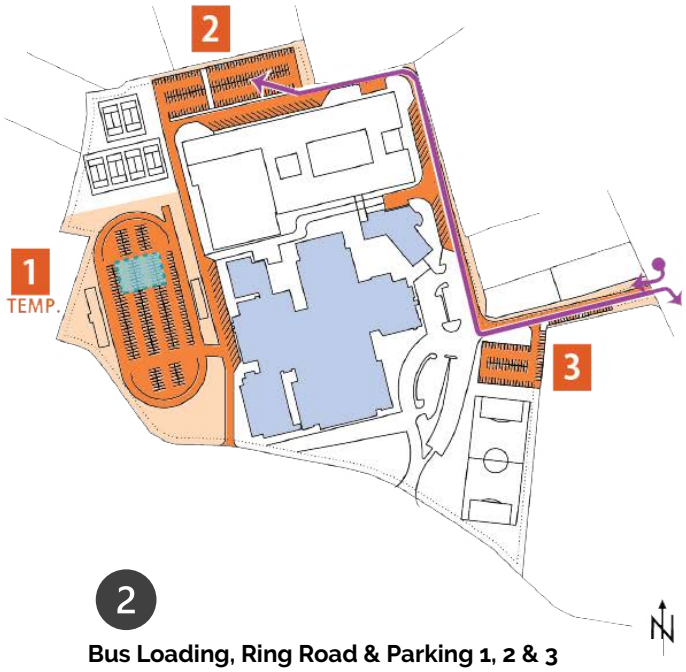
OUR IDEAS: OPTION 1 - JUST CLEANING IT UP



1

New
Building Construction
8/2025 - 6/2028

- Construction access from Long Ridge Road to minimize impacts to school operation.
- Maintain existing school bus and parent drop-off per existing school operation
- Phased construction includes underground storm water management to address impervious from the new building construction and future parking lot



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Bus Loading, Ring Road & Parking 1, 2 & 3
6/2028 - 8/2028

- This is a distinct "Summer Phase" to prepare the site to receive students and facility into the new school
- Phased construction includes underground storm water management to address impervious from parking lot 3 and temporary parking lot 1

PHASING

Focusing the major new construction efforts to the North of the site helps create clear zones of construction and operational school use throughout the course of the project.

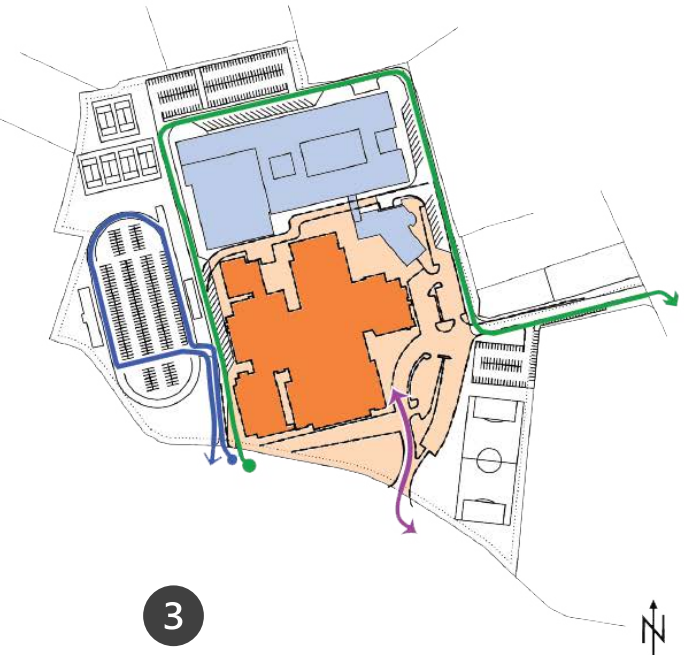
Phase 1 is aimed at creating separated construction circulation, establishing a sufficient laydown area, and ultimately, building the new school structure. Construction traffic will be isolated to the North and East, with access provided through a proposed connection to Long Ridge Road. During this time, bus and car traffic will remain in current configurations on the property. Stormwater management will be installed to address added impervious run-off from the new school building and future parking lot #2.

Phase 2 is primarily focused on the enabling work to allow the new school building to be operational as the current building is prepared for abatement and demolition. Central to this effort is the conversion of the football & track stadium to serve as a temporary parking lot for students and visitors. Additionally, construction efforts will create a paved ring road around the property for bus and fire circulation while establishing the faculty parking lot to the North of the new structure. These initial phases set the stage for the property and new school to be operational by start of the 2028 academic year.

Phase 3 of activity will focus on abatement and demolition of the current school building. Existing vehicular roads and parking areas will also be demolished at this time while the football & track parking area will allow for student/visitor parking and a dedicated drop-off area for the new school building.

Phase 4 of construction will complete the site and parking improvements. This includes constructing the primary parking area, parking lot #4 in front of the new school, restoring the track and football fields, and building the new softball and baseball fields at the South of the site. This final phase is anticipated to be completed by May, 2029.

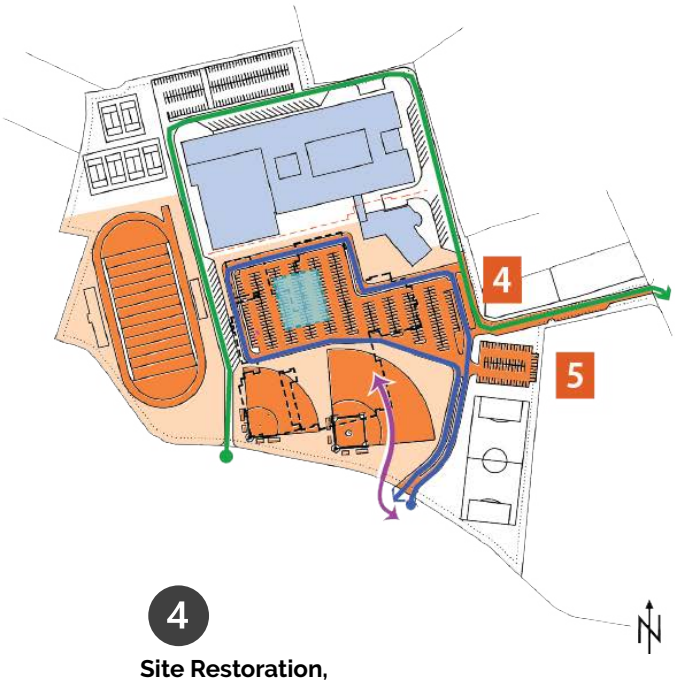
Alternate Phase 4a of construction demonstrates an alternative approach for completing the site and parking improvements. This includes constructing the primary parking area, parking lot #4 to the Southeast of the new school, restoring the track and football fields, and building the new softball and baseball fields at the Southwest of the site. This final phase is anticipated to be completed by May, 2029.



3

Abate & Demolish Existing School
8/2028 - 4/2029

- Requires all school bus traffic to exit onto Long Ridge Road (right turn only)
- Construction access from Roxbury Road
- Temporary parent drop-off through Temporary lot 1

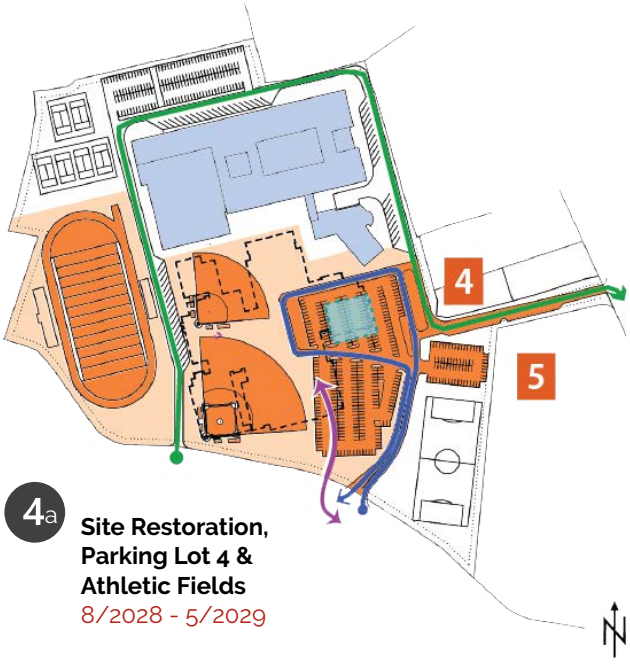


4

Site Restoration, Parking Lot 4 & Athletic Fields
8/2028 - 5/2029

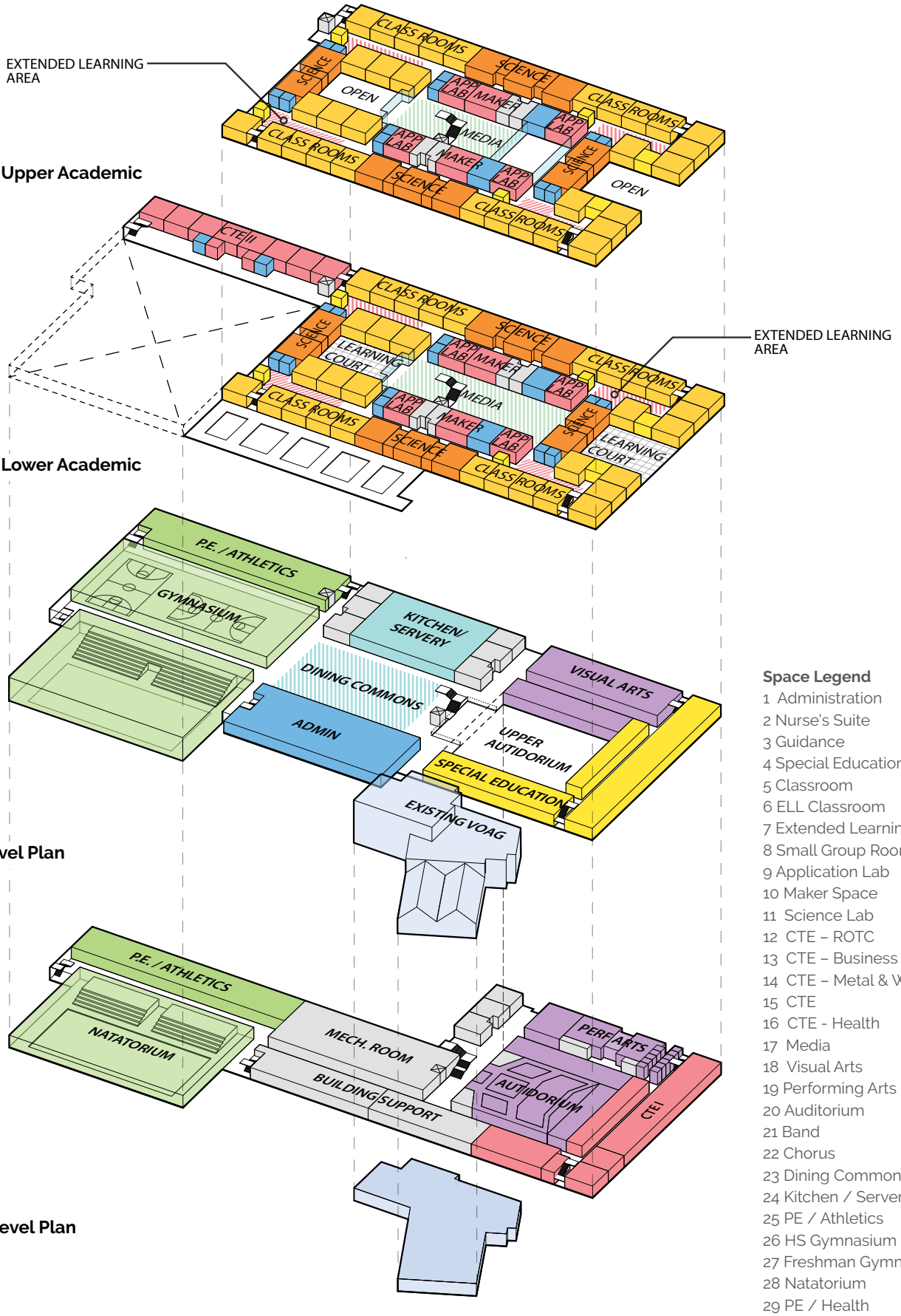
- Parking lot 4 to be completed following demolition of existing school (1/2029)
- Construction activities during school year limited to athletic field completion by 12/2028
- Final design has separated bus and car traffic loops

CONSTRUCTION ZONE
PHASED CONSTRUCTION
ACTIVE SCHOOL FOOTPRINT
OPERATIONAL SCHOOL AREA
UNDERGROUND STORMWATER MANAGEMENT
CONSTRUCTION TRAFFIC
BUS TRAFFIC
CAR TRAFFIC



4a

Site Restoration, Parking Lot 4 & Athletic Fields
8/2028 - 5/2029



Space Legend

1 Administration
2 Nurse's Suite
3 Guidance
4 Special Education
5 Classroom
6 ELL Classroom
7 Extended Learning Area
8 Small Group Room
9 Application Lab
10 Maker Space
11 Science Lab
12 CTE – ROTC
13 CTE – Business
14 CTE – Metal & Wood Shop
15 CTE
16 CTE - Health
17 Media
18 Visual Arts
19 Performing Arts
20 Auditorium
21 Band
22 Chorus
23 Dining Commons
24 Kitchen / Servery
25 PE / Athletics
26 HS Gymnasium
27 Freshman Gymnasium
28 Natatorium
29 PE / Health
30 Building Support

OPTION 1 - JUST CLEANING IT UP

Our team's initial study grew from an evaluation of the scheme proposed as part of your prior round of Planning & Estimating Phase efforts (Appendix D). While the suggested positioning for the new building appeared well reasoned, we were eager to explore alternatives to improve several aspects of the suggested building and site design while also accommodating the variety of additional spaces included in your updated Educational Specifications.

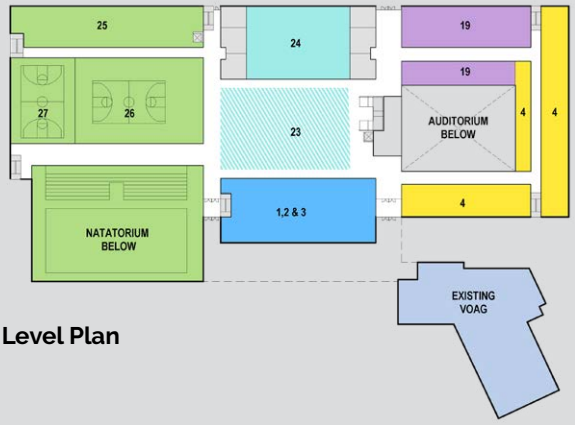
The organization of the academic levels was restructured to deliver greater plan flexibility in support of the variety of tailored learning styles and scaled collaborative learning associated with the 21st Century learning pedagogies outlined in your Educational Specification. This includes the creation of two outdoor Learning Courts designed to offer educators additional freedom to expand activities associated with Science and the Media Commons.

Addressing the prior scheme's rigidity also provides greater resiliency and enhanced "future-proofing," enabling future educators to modify programs, methods, and uses. The locations and adjacencies for the large assembly spaces and sports venues were reworked to enhance and improve access, improve clarity and length of travel for internal circulation, facilitate off-hours community use and promote greater building security.

Great attention was focused on the development of the site plan. We were concerned about inadequate accommodation for school buses, the variety of conditions affecting vehicular and student safety, and layout's that support site logistics given the required construction phasing.

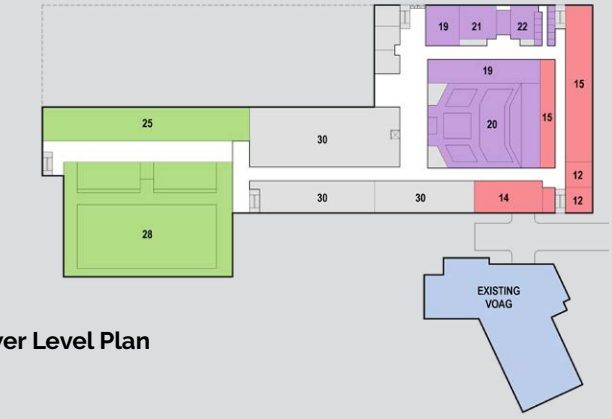
We developed two site plan variations. Each segregates bus and car drop-offs to alleviate conflict and congestion. The first locates the various sports fields at the perimeter of the site. The alternative allows the new baseball and softball fields to be placed in more direct proximity to the school. In both cases, vehicular traffic patterns are simplified considerably, parking for both cars and buses are dramatically increased (targeting at least 600 spaces), and student safety is significantly enhanced.

Use of outdoor athletic venues is facilitated by eliminating overlaid uses, providing recommended solar orientations for fields, and improving equity of access.

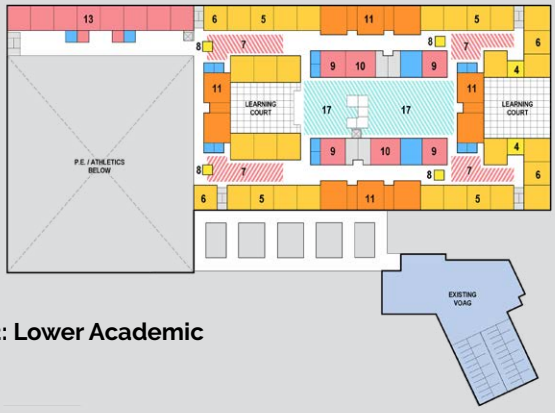


Main Level Plan

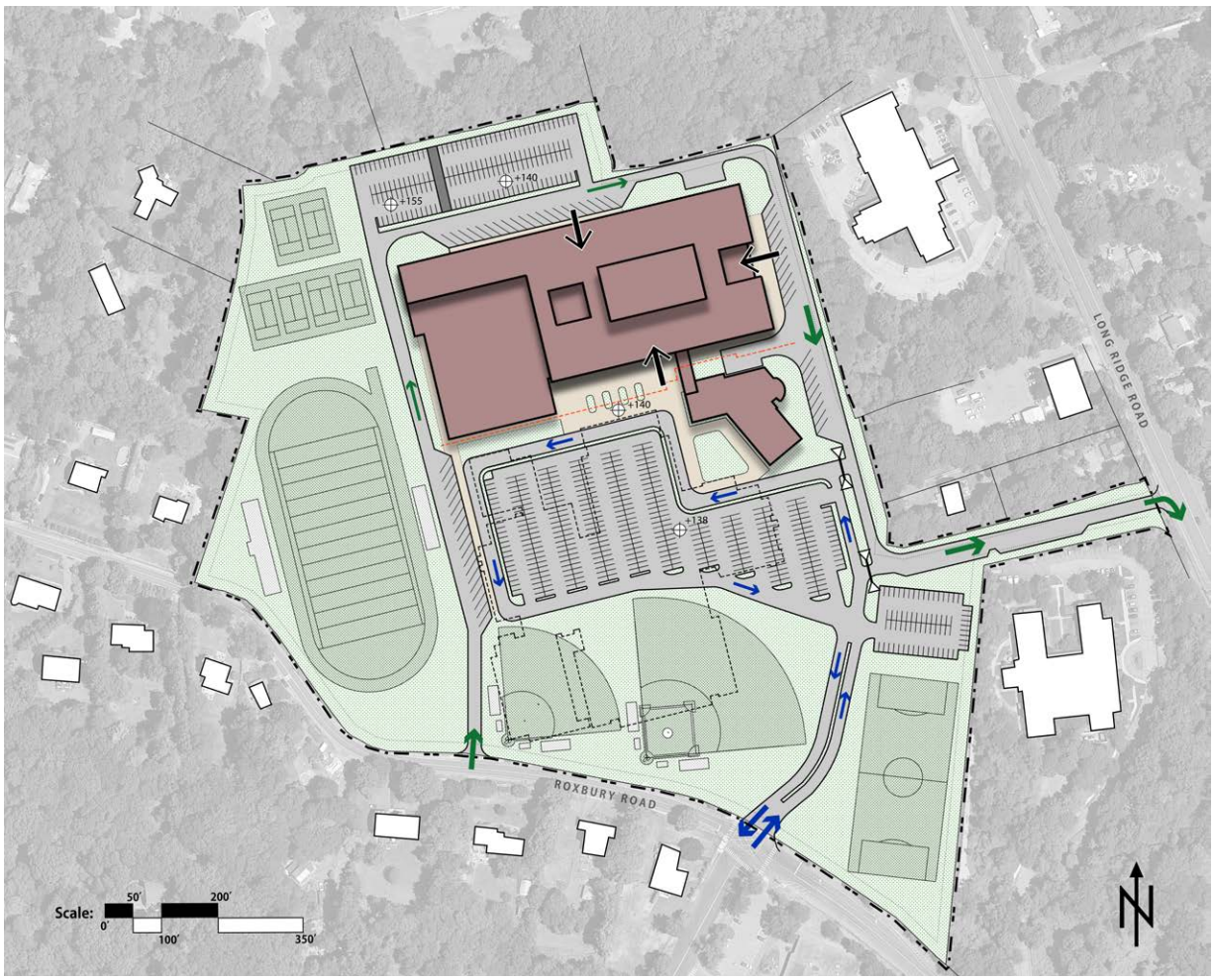
Level 3: Upper Academic



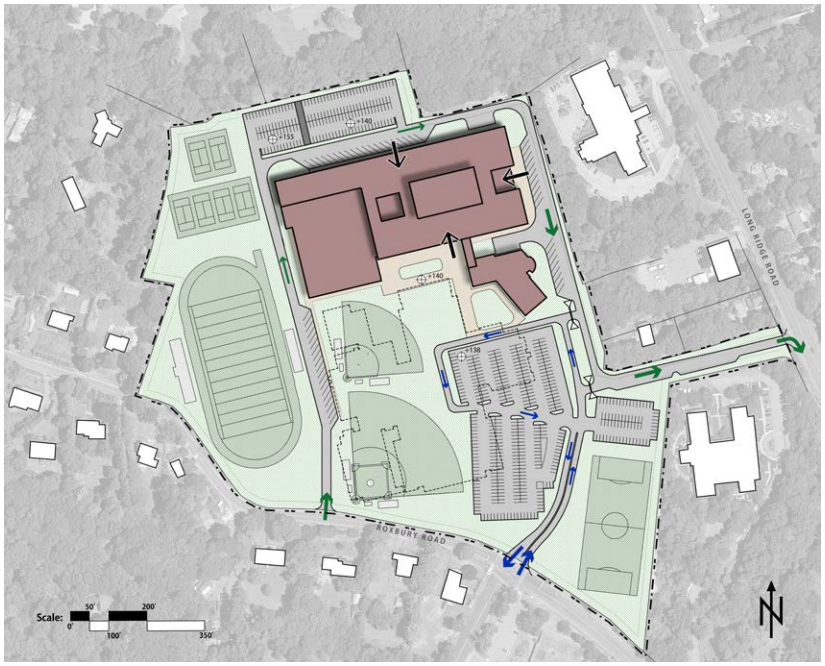
Lower Level Plan



Level 2: Lower Academic



Site Design Option 1



Alternative Approach to Option 1

OPTION 1 - JUST CLEANING IT UP

Site Design Option 1
This approach to the site layout is based upon siting the entirety of the new high school to the North of the existing school and VOAG structure. Doing so requires relocation of the current baseball and softball fields, but this offers several advantages. Utilizing the space North of the proposed building for construction, and long-term ring road, affords areas for laydown during construction and dedicated faculty parking (long-term). This strategy also repositions the ball fields to the South, allowing for simultaneous use while providing an optimal orientation for both fields, improving upon the inequitable orientation of the current softball field. Compartmentalizing the major construction activities to the North will allow a safer condition while the existing school is operational and expedite the approach to construction.

Traffic circulation is an additional area of improvement from existing conditions and the 2021 conceptual plans. Attention has been given to segregating the traffic flows to promote student and visitor safety. Dedicated lanes are proposed for bus and visitor car traffic while avoiding complex intersections and establishing walkways through the site for student/pedestrian movement that do not require passing through multiple traffic lanes. Additionally, this site layout establishes discrete parking zones for faculty, students, and visitors. Circulation of bus traffic is organized along the perimeter ring road with multiple 'regatta style' zones for bus queuing on three sides of the new school. Outgoing bus traffic is proposed via a new connection at the East onto Long Ridge Road.

The new school positioning allows for connection to the existing VOAG building via a covered walkway at the main level of the new school. The orientation of the new building also prioritizes major daylight access on the North & South facades of the academic classrooms. The current football & track stadium remains in its current location with intent to resurface after use as a temporary parking lot (see Phasing Diagrams). Tennis courts currently located in the NE corner of the property also remain. These collective strategies will significantly improve the safety, accessibility, and traffic circulation on the property.
*refer to site phasing plans

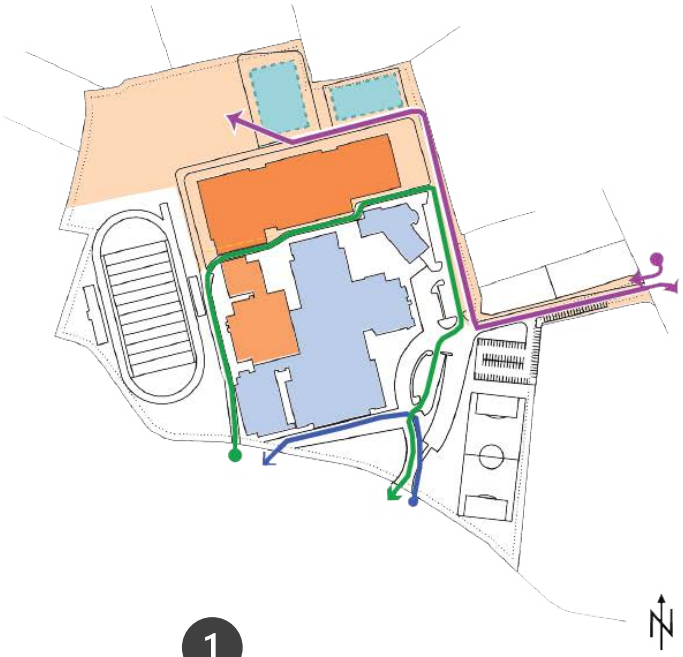
Alternative Approach to Option 1
This site design concept is based on many of the same principles as Option 1 – all new school building, focus to North of site, and relocation of ball fields. As a concept this is primarily an alternative approach to Option 1 that considers a different positioning of the main parking area and ball fields.

In this alternate version, the softball and baseball fields are located closer to the new school and to associated gym/athletics spaces within the school. Like Option 1, the main parking area features a discrete drop-off lane and ample parking for students and visitors. Bus circulation is separated via the new ring road and exit onto Long Ridge Road. Dedicated faculty parking is provided to the North of the new school, as shown in Option 1.

As an alternate concept, this option provides insight to the flexibility of our design thinking and opens discussion for merits of further development. As with Option 1, priority has been given to student safety and clarity of vehicular circulation.

*refer to site phasing plans - Alternate Phase 4a.

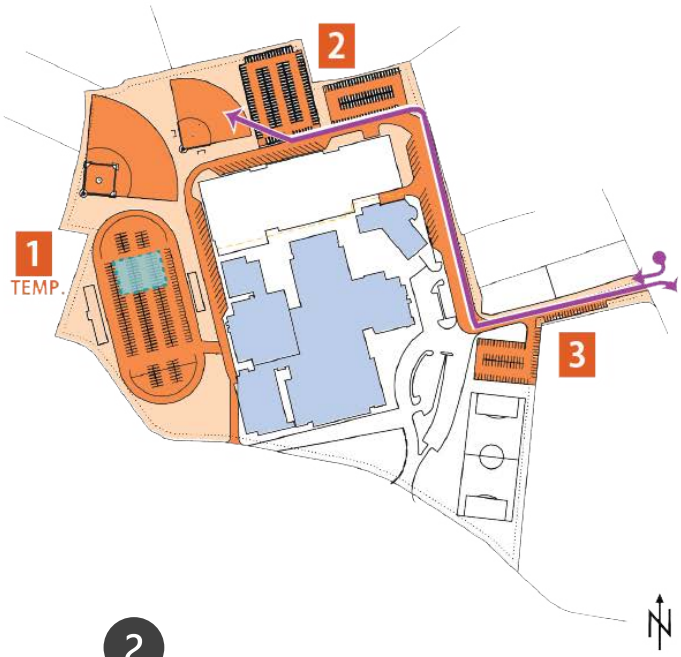
OUR IDEAS: OPTION 2 - WHAT IF WE KEPT THE GYMS?



1

New
Building Construction
8/2025 - 6/2028

- Construction access from Long Ridge Road to minimize impacts to school operation.
- Maintain existing school bus and parent drop-off per existing school operation
- Phased construction includes underground storm water management to address impervious from the new building construction and future parking lot



2

Bus Loading, Ring Road & Parking 1, 2 & 3
6/2028 - 8/2028

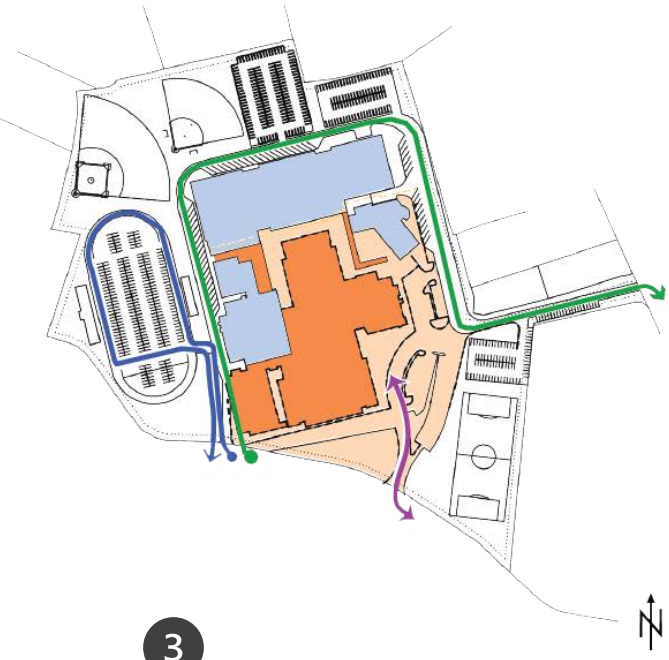
- This is a distinct "Summer Phase" to prepare the site to receive students and facility into the new school
- Phased construction includes underground storm water management to address impervious from parking lot 3 and temporary parking lot 1

PHASING

While this design concept is predicated on re-using portions of the existing school building, the site logistics and phasing follow a similar approach to other concepts, focused on creating a safe, operational school zone during all steps of construction activity.

Phase 1 creates separated construction circulation to the North, establishing a sufficient laydown area, and ultimately, building the new school building. During this time existing school bus and car traffic will remain in current configurations. Stormwater management will be installed to address added impervious run-off from the new school building and future parking lot #2.

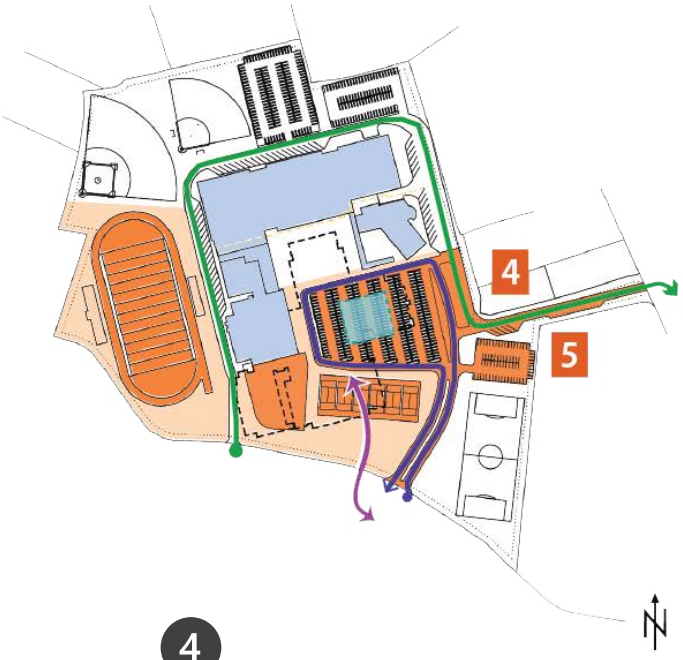
Phase 2 is primarily focused on the enabling work to allow the new school building to be operational as the current building is prepared for abatement and demolition and will establish bus drop-off and circulation and temporary parking areas as well as construct the new baseball and softball at the NW corner of the site. Central to this effort is the conversion of the football & track stadium to serve as a temporary parking lot for students and visitors. Additionally, construction efforts will create a paved ring road around the property for bus and fire circulation while establishing the faculty and visitor parking lots to the North of the new structure. Underground stormwater management will be installed to address impervious from parking lots #1 and #3. These initial phases set the stage for the property and new school to be operational by start of the 2028 academic year.



3

Abate & Demolish Existing School
8/2028 - 4/2029

- Requires all school bus traffic to exit onto Long Ridge Road (right turn only)
- Construction access from Roxbury Road
- Temporary parent drop-off through Temporary lot 1



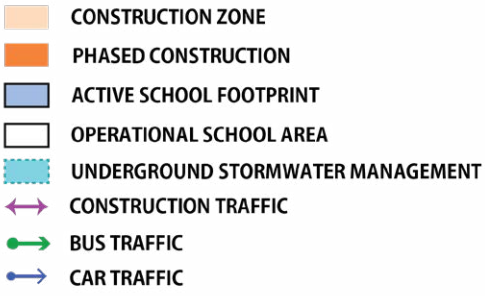
4

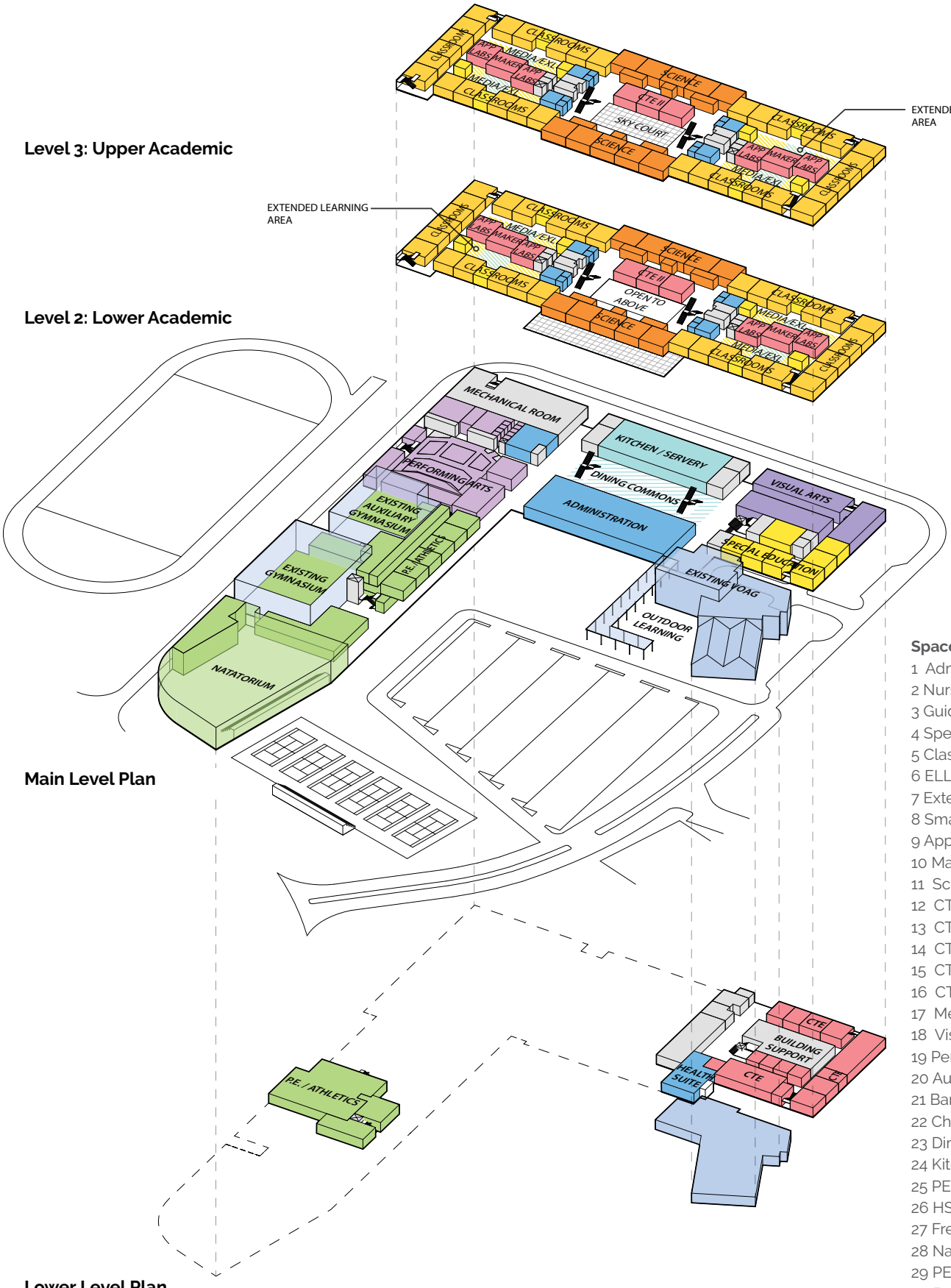
Site Restoration, Parking Lot 4 & Athletic Fields
8/2028 - 5/2029

- Parking lot 4 to be completed following demolition of existing school (1/2029)
- Construction activities during school year limited to athletic field and tennis courts completion by 12/2028
- Construct natatorium at south end of gym wing

Phase 3 of activity will focus on abatement and demolition of the current school building. Existing vehicular roads and parking areas will also be demolished at this time while the football & track parking area will allow for student/visitor parking and a dedicated drop-off area for the new school building. Excavation and foundations for the new Natatorium will performed once demolition of the existing school is completed. Select building elements will connect the existing gym and auxiliary gym with the new school during this effort.

Phase 4 of construction will complete the long-term site and parking improvements. This includes constructing the new Natatorium, the primary parking area. Parking lot #4 in front of the new school, restoring the track and football fields, and building the new tennis courts. This final phase is anticipated to be completed by May, 2029.





Space Legend

1 Administration
2 Nurse's Suite
3 Guidance
4 Special Education
5 Classroom
6 ELL Classroom
7 Extended Learning Area
8 Small Group Room
9 Application Lab
10 Maker Space
11 Science Lab
12 CTE – ROTC
13 CTE – Business
14 CTE – Metal & Wood Shop
15 CTE
16 CTE - Health
17 Media
18 Visual Arts
19 Performing Arts
20 Auditorium
21 Band
22 Chorus
23 Dining Commons
24 Kitchen / Servery
25 PE / Athletics
26 HS Gymnasium
27 Freshman Gymnasium
28 Natatorium
29 PE / Health
30 Building Support

OPTION 2 - WHAT IF WE KEPT THE GYMS?

Concern for maintaining budget integrity led us to examine the potential for retaining the two large gymnasium spaces.

This phased scheme reduces the scope of new construction by filling-in the existing pool for use in accommodating other elements of the expanded PE / Athletics program and builds a new Natatorium south of the existing Main Gym. All existing locker rooms and support spaces would be fully reconfigured and renovated.

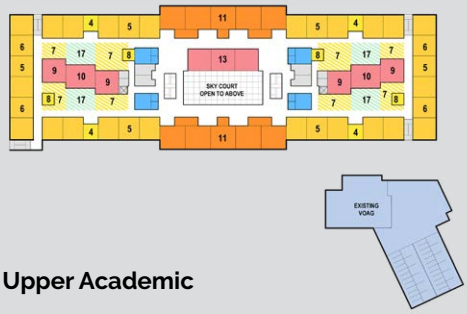
Beyond cost savings, maintaining these large spaces allows placement of the Auditorium beside the Auxilary Gym with the added benefit of reducing the overall height at the rest of the school. Alignment of the Auditorium with the sports venues within this expanded footprint also facilitates after-hours and weekend access to these facilities while maintaining the secure integrity of the academic areas. The "L-shaped" plan also creates a 'front lawn' identity for the school and allows for outdoor learning during good weather with a south-facing orientation.

Eliminating a floor level compared with the early study affords a better distribution of the academic program, resulting in greater access to natural light while promoting complimentary adjacencies with more immediate access to collaborative areas, media, support spaces, and academic specials. This contributes to better alignment with the 21st Century Learning pedagogy described your Educational Specifications, reinforces the establishment of Small Learning Communities, and enhances flexibility of the academic areas.

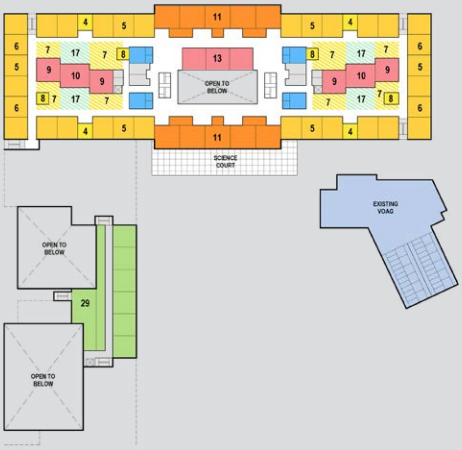
To further reinforce the importance of Small Learning Communities (SLC), this scheme explores the potential for distributing the Media program to each of the eight SLCs, reinforcing and invigorating the requested Extended Learning Areas (EXL). These EXL areas are placed directly alongside Maker Spaces and Application Labs at the heart of each SLC, providing student and educators immediate access to tools and resources designed to spark creativity, promote curiosity and support individualized learning.

Similar to Option 1, the site is designed to enhance student safety by improving vehicular access, circulation and controls. A dedicated and gated traffic route provides separate and more functional accommodation for the required number of school buses, while protecting students from having to cross active vehicular lanes to access correctly oriented sports fields.

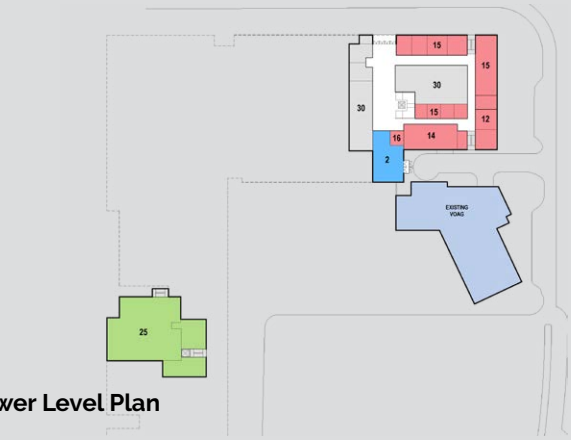
Main Level Plan



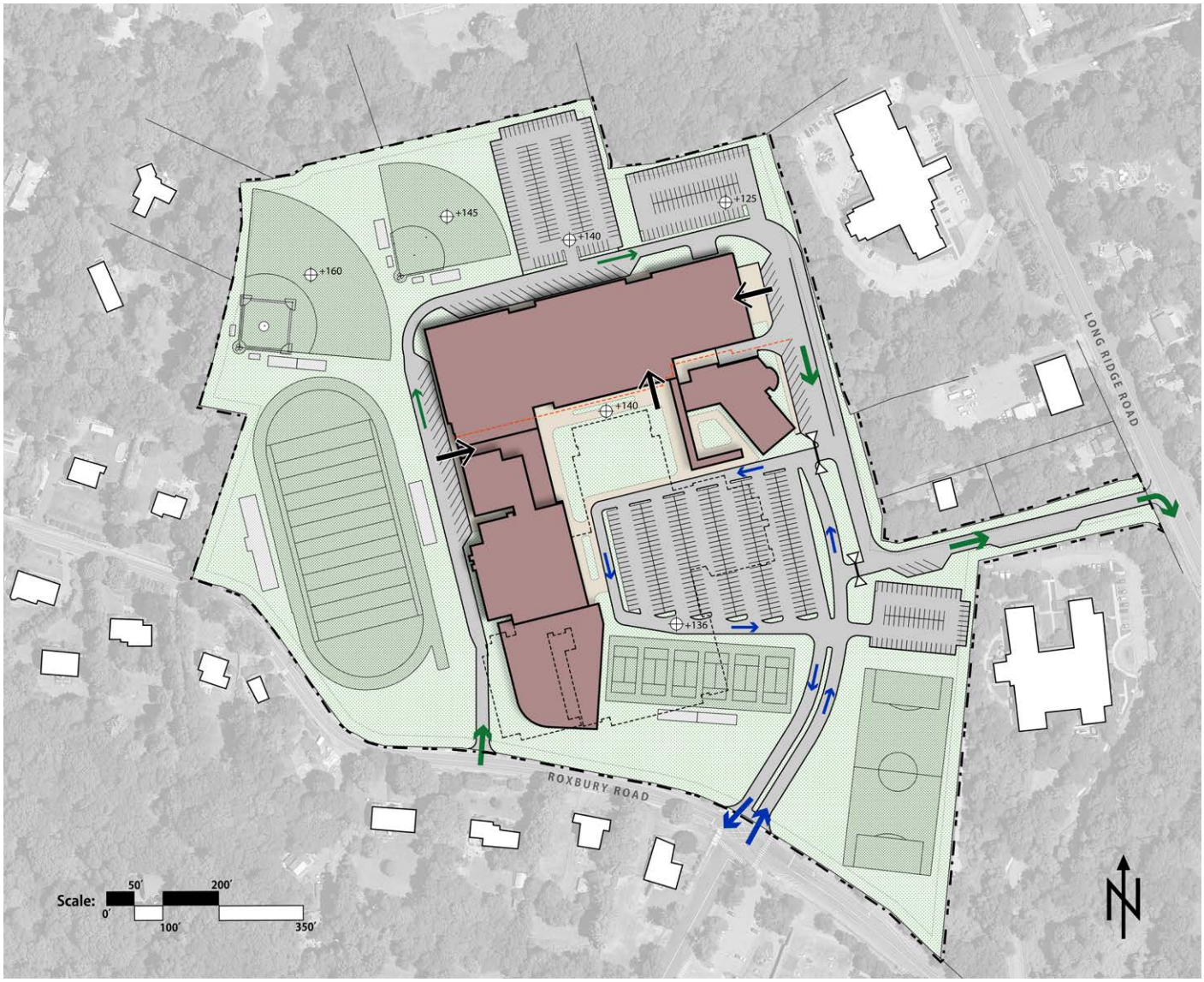
Level 3: Upper Academic



Level 2: Lower Academic



Lower Level Plan



Site Design Option 2

OPTION 2 - WHAT IF WE KEPT THE GYMS?

Site Design Option 2
This site design approach stems from the broader goal of realizing a solution to the school construction that keeps several existing building components – the main gymnasium, auxiliary gymnasium, and the VOAG building. In doing so, major changes are focused North of the current school footprint. The current athletic facilities in that area are relocated to allow for construction of the new school building, a fire/bus ring road, and dedicated parking areas. These parking lots will serve as construction parking and lay down areas in the early stages of the project and help expedite the overall construction while isolating overlap with operational areas of the school.

Notable improvements from existing conditions and the 2021 conceptual plan are afforded by the approach to traffic circulation in this option. Attention has been given to segregating the traffic flows to promote student and visitor safety. Dedicated lanes are proposed for bus and visitor car traffic while avoiding complex intersections and establishing walkways through the site for student/pedestrian movement that do not require passing through multiple traffic lanes. Additionally, this site layout establishes discrete parking zones for faculty, students, and visitors. Circulation of bus traffic is organized along the perimeter ring road with multiple 'regatta style' zones for bus queuing on three sides of the new school. Outgoing bus traffic is proposed via a new connection at the East onto Long Ridge Road.

The 'L' configuration of the new building footprint stiches together existing and new program while creating a flexible plaza space at the school's entrance that can serve as an outdoor learning space. The new school positioning allows for connection to the existing VOAG building via a covered colonnade at grade level. The orientation of the new building also prioritizes major daylight access on the North & South facades of the academic classrooms.

The current football & track stadium would remain in its current location with intent to resurface after use as a temporary parking lot (see Phasing Diagrams). Baseball and softball fields are organized at the upper and mid-level plateaus of the NW region of the property. Doing so allows for both fields to have optimal orientation, an improvement from the current softball position. The tennis courts are proposed with associated seating to the South of the site, closely located to the gym and athletics areas of the school and offering safe pedestrian movement to and from. With this site, and associated building option, tangible enhancements are made to student safety, accessibility, and traffic circulation while offering a compelling re-use of existing building assets.
*refer to site phasing plans

TEAM
ROLES

RESPONSIBILITIES	SLAM	AMENTA EMMA
Architect of Record	PRIME	-
Project Management	PRIME	SUPPORT
Programming	PRIME	SUPPORT
Building Design		
Shell & Core	SUPPORT	PRIME
Planning	PRIME	SUPPORT
Interior Architecture	PRIME	SUPPORT
WELL Principles & Approach	PRIME	SUPPORT
LEED Certification	EQUAL	EQUAL
SUCF & Code Compliance	EQUAL	EQUAL
Construction Administration	EQUAL	EQUAL
Closeout	EQUAL	EQUAL

TEAM
COMMITMENTS

CURRENT WORKLOAD - PUBLIC EDUCATION STUDIO

PROJECT	DESIGN COMPLETE	CONSTRUCTION SCHEDULE	OCCUPANCY DATE
GREENWICH NEW CENTRAL MIDDLE SCHOOL **Construction Cost** $72M (est.)	Schematic Design 7/2023	TBD	TBD
BULKELEY HIGH SCHOOL & CENTRAL ADMINISTRATION **Construction Cost** $188M	12/2019 (Phase1+2) 11/2021 (Phase 5+6+7)	5/2021 – 12/2025 The Bulkeley HS renovations are under construction with day to day support from the architectural team led by a construction administrator and therefore will not impact the design of the Westhill High School.	8/2025 (est.)
TORRINGTON MS/HS **Construction Cost** $152M	6/2022	6/2022 – 4/2026 The Torrington MS/HS is under construction with day to day support from the architectural team led by a construction administrator and therefore will not impact the design of the Westhill High School.	12/2025 (est.)

TEAM
ORGANIZATION

Amy Mund Christmas, ALEP
Programmer/Planner
SLAM

Craig De Jong, AIA
Assistant Project Manager
SLAM

Kemp A. Morhardt, AIA, NCARB
Principal-In-Charge
SLAM

TEAM LEAD

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LEED AP
Sustainable Design Specialist
SLAM

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SLAM

Meghan Mendes, IIDA
Interior Designer
SLAM

Jeff Zepperi
Job Captain
SLAM

Ellen Santos
Job Captain
SLAM

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Design Architect
SLAM

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Landscape Architect
SLAM

Henry Withers, RLA, ASLA
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SLAM

Ellen Fallon-Senechal, RLA
Landscape Architect
SLAM

LANDSCAPE

MEP/FP ENGINEERS
Consulting Engineering Services

TECHNOLOGY
NETWORK/AV/IT
D'Agostino Associates

PROCUREMENT & INSTALL COORDINATOR
Mathieu Hopkins Associates

COMMUNITY & STUDENT ENGAGEMENT
MEMASI

FOOD SERVICE DESIGN
Crabtree & McGrath

ENERGY MODELING
Thornton Tomasetti

CODE CONSULTANT
Code Red Consultants

NATATORIUM
Counsilman Hunsaker

SUB CONSULTANTS

> Our team is built on the proven success of the same SLAM + Amenta Emma collaboration that delivered the 370K SF Weaver High School in 2020.

Amy Samuelson, AIA LEED AP
Project Manager
SLAM

Luis Vildostegui, AIA
Lead Design Architect
SLAM

Robert Swain, Jr, AIA LEED AP
Principal
AMENTA EMMA

E R S H I P

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Design Architect
AMENTA EMMA

Jenna McClure, AIA LEED AP
Project Manager
AMENTA EMMA

Robert Larson, AIA, LEED AP BD+C
Job Captain
AMENTA EMMA

Joy Ortiz-Colon, Associate AIA
Job Captain
AMENTA EMMA

Rob Adams
Interior Designer
AMENTA EMMA

C O R E & S H E L L A R C H I T E C T U R E

Doug Graham, PE
Senior Structural Engineer
SLAM

Steve Murray, PE
Structural Engineer
SLAM

Jamie Littlefield, PE
Structural Engineer
SLAM

S T R U C T U R A L

AGRONOMIST
Tom Irwin Advisors

EDUCATIONAL PLANNER
My Learning Place Integrated Design

SITE ENVIRONMENTAL (LEP) & GEOTECH
Langan

CIVIL, TRAFFIC
Tighe & Bond

ACOUSTICS/THEATER/LIGHTING
Cavanaugh Tocci

COST ESTIMATOR
PMC

BUILDING ENVELOPE
RJ Kenney

HAZARDOUS BUILDING MATERIALS
Eagle Environmental

S U B C O N S U L T A N T S

KEMP MORHARDT, AIA, NCARB

Principal-in-Charge

YEARS WITH SLAM
18 Years
Full time Employee

EDUCATION
B. A. Arch, University of North Carolina at Charlotte

B. S., Civil Engineering, University of Connecticut

A.S. Architectural Technology, Hartford State Technical College

REGISTRATIONS
CT, NY, MA, RI
NCARB

MEMBERSHIPS
American Institute of Architects

Association for Learning Environments (A4LE)

American Society of Civil Engineers (ASCE)

ACTIVITIES
Greater Hartford Jaycees, Volunteer

American Red Cross, Volunteer

Board of Directors for First Church Nursery Schools

WHYBL, Coach

WHGSL, Coach

AWARDS & HONORS
2020 CT CREW, Weaver HS - Best in Class Education

2012 CEFPI, Northeast Region, Project of Distinction Award, Metropolitan Business Academy

2011 Real Estate Exchange, Best in Class, Educational Category, Metropolitan Business Academy

2011 CT Building Congress, Project Team Award of Merit, K-12 Schools, Metropolitan Business Academy

Kemp is a Principal of the firm and the leader of SLAM's Public Education practice. He is a member of the Education Studio leadership team, with a focus on the development of the K-12 and Higher Education markets. He serves on SLAM's board of directors, and the board of directors for SLAM's construction services group. With over 25 years of architectural and engineering design experience on a broad range of institutional and civic projects, he brings a unique perspective to projects with a personal commitment to clients and project teams. As an Architect, his ability to listen and understand a client's vision and expectations fosters close collaboration in transforming their ideas into built form. Kemp's extensive project management experience and meticulous attention to detail has helped SLAM build an impeccable track record of delivering complex projects on-schedule and frequently under budget, without sacrificing scope, design or construction quality. His commitment to sustainable design, especially in the areas of environmental stewardship, energy efficiency and reduced life cycle costs, yields significant dividends to our clients in the form of a reduced carbon footprint and long-term operational savings.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

GREENWICH NEW CENTRAL MIDDLE SCHOOL
New 115,311 SF Central Middle School to be designed and constructed on site while the existing school remains operational. The scope of work includes the demolition of the existing school and related site improvements. The project goal is to provide a new school that is technologically advanced, energy efficient, addresses traffic issues and maintains the fabric of the community with an occupancy of August 2026.

OX RIDGE ELEMENTARY SCHOOL, DARIEN, CT
New 110,000-SF, PreK-5 elementary school for 428 K-5 and 150 PreK students provides variety of flexible learning spaces and serves as the central location for the Early Learning Program. Construction of new school to occur on existing site, while the existing school remains operational.

BULKELEY HIGH SCHOOL RENOVATION AND CENTRAL ADMINISTRATION FACILITIES
Renovate-as-new project of a windowless 285,000-SF high school into a modern high school for 850 students, grades 9-12. Project also includes 70,000 SF of district-wide support facilities to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary and distribution center.

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

WATERBURY CAREER ACADEMY
Programming, planning, & design for new innovative 150,000-GSF career & technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, & human & health sciences. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

JOURNALISM & NEW MEDIA HIGH SCHOOL
53,000-SF addition & 25,000-SF renovation (renovate-as-new) to provide a school for 400 students in grades 9-12. The new facility will deliver cutting-edge curricula & innovative programs that will build skills in critical thinking & creative media production.Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

AMY SAMUELSON, AIA, LEED AP

Lead Client Project Manager

YEARS WITH SLAM
28 Years
Full time Employee

EDUCATION
B. of Architecture and B. of Science in Architecture, Magna Cum Laude, The Catholic University of America in Washington, DC.

REGISTRATIONS
CT

MEMBERSHIPS
American Institute of Architects (AIA)

AIA Connecticut, Board of Directors member

United States Green Building Council-LEED Accredited Professional (Leadership in Energy and Environmental Design)

AWARDS
Association of General Contractors (AGC) Designer of the Year, 2019

D.C. AIA Merit Award for Senior Design/ Build Project

Benjamin T. Rome Award for Leadership, Academics, and Professionalism.

PRESENTATIONS
Ed Spaces Conference, November 2022 "Success Through Inclusion: Maximizing In-District Special Education Program Potential"

2021 CABE/CAPSS Convention, Success Through Inclusion: Maximizing In-District Special Education Program Potential

Amy, an Associate Principal with SLAM, has been with the firm since 1995 and has more than 25 years of experience as a project architect and manager. With expertise in education facilities of all types, she was recently named to the Studio Core Team Leadership as the Management and Human Resources Leader. Highly regarded for her exceptional team building skills, Amy manages complex projects, overseeing large teams from planning through design and construction and was recently awarded the AGC Designer of the Year award. Heavily involved in public schools required to follow the SSIC Guidelines, she has attended numerous seminars and training programs related to security in public schools. She is a member of the Connecticut School Construction Coalition, representing the Connecticut AIA, and is a presenter at the Coalition's annual education forum for town officials and school administrators. Amy actively volunteers in her community and dedicates much of her personal time giving back to several professional and not-for-profit organizations.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

GREENWICH NEW CENTRAL MIDDLE SCHOOL
New 115,311 SF Central Middle School to be designed and constructed on site while the existing school remains operational. The scope of work includes the demolition of the existing school and related site improvements. The project goal is to provide a new school that is technologically advanced, energy efficient, addresses traffic issues and maintains the fabric of the community with an occupancy of August 2026.

OX RIDGE ELEMENTARY SCHOOL, DARIEN, CT
New 110,000-SF, PreK-5 elementary school for 428 K-5 and 150 PreK students provides variety of flexible learning spaces and serves as the central location for the Early Learning Program. Construction of new school to occur on existing site, while the existing school remains operational.

WILTON HIGH SCHOOL
Infrastructure upgrade of an existing 347,000-SF facility and the renovation of 21,000 SF of the Science Department, including 9 existing science laboratory classrooms, including abatement, demolition, and fit out over the summer recess. This was part of a larger infrastructure project that was phased throughout the school year

RIDGEFIELD HIGH SCHOOL
210,000-SF renovations and a new 90,000-SF addition for 1800 students that houses state-of-the-art science classroom/labs, as well as a 2-story cafeteria for 600 students that serves as a central socializing space. The new addition also houses a Culinary Arts Lab similar to a contemporary commercial kitchen. Construction cost: $32.9M. Completed 2004.

NONNEWAUG HIGH SCHOOL
150,000-SF renovate-as-new project to include replacement of science labs and classrooms; installation of new hands on learning labs; renovation of auditorium, stage, and gymnasium; renovation of library media center, cafeteria, kitchen, offices and conference rooms; renovation of athletic facilities and fields; upgrades to HVAC, technology and code; hazmat abatement

JAMES HILLHOUSE HIGH SCHOOL
225,000-SF renovate-as-new 1960's era buildings to accommodate 1,200 students while school was fully occupied and operational; received award for 2002 IMI NE Region Golden Trowel. Construction cost: $26.4M. Completed 2001.

CRAIG DEJONG, AIA

Assistant Project Manager

YEARS WITH SLAM
1- Year
Full time Employee

EDUCATION
B. Architecture - Pratt Institute School of Architecture

REGISTRATIONS
CT, MA, NY, NJ, NV, NCARB

MCPPO
(Massachusetts Certified Public Purchasing Officer)

MEMBERSHIPS
American Institute of Architects (AIA

Craig joins SLAM with 35 years of experience in the practice of architecture with 25 as a project manager. His experience encompasses all phases of construction projects including planning, design, management, specifications, cost analysis, scheduling, contract negotiation, bidding, and construction management in projects ranging from $1m to $68m dollars. He has a successful history of concurrently directing multiple projects to successful completion through effective management and team collaboration. He has a strong portfolio of K-12 public schools, historic preservation, and higher education.

STAMFORD SOUTH SCHOOL PLANNING & ESTIMATING SERVICES
Exploration and preparation of multiple conceptual design options for a proposed South End K-8 School to determine a preferred option for each site, cost estimates, demolition of the Toquam school, and assist the City and SPS in the preparation of necessary documentation for the submission of a grant applications.

CANTON JUNIOR/SENIOR HIGH SCHOOL*
This project included a 32,200 SF addition and 35,500 SF renovation of 7-12 school originally constructed in 1970 to meet life safety codes and accommodate increasing enrollments. The renovation created two schools in one building separating 7-8 from 9-12.

HAMDEN MIDDLE SCHOOL*
This newly constructed, 196,000 SF school was designed with five separate, two-story wings connected to a curved central two-story glass atrium located on a 25 acre site. Features include 320 seat auditorium, performing arts center, 200-seat cafeteria, 5,500 SF gymnasium, 800 SF fitness facility, media center and science center.

WEST MIDDLE SCHOOL*
This renovate-as-new school originally enrolled 680 students in grades Pre-K to 8. While maintaining the complex historic character, the space was expanded with a new addition from 89,000 SF to 103,000 SF with expanded enrollment to 750 students. The project features a branch of the City of Hartford Public Library and roof top playground. $54.6 million.

BRISTOW MIDDLE SCHOOL*
This renovation and addition of a 90,000 SF steel-framed building with an attached 13,000 SF wood-framed renovated Kingswood-Oxford school mansion converted to administrative space and library. The school includes two floors plus a basement containing a 45 car parking garage, science rooms, new gym, auditorium, cafeteria, music and art rooms and health suite. $24 million.

CANTON INTERMEDIATE SCHOOL*
This 7,500 SF expansion and 20,040 SF renovation enlarged undersized classrooms, and created new administrative and instructional space for small groups while addressing life safety codes.

COBURN ELEMENTARY SCHOOL*
New $68 million Pre-K-5th grade 705 student elementary school. The neighborhood school incorporates a special needs "school within a school". The design is organized around a central main street and celebrates the circulation via a monumental stair connecting three levels.

M.D FOX ELEMENTARY SCHOOL*
This renovate-as-new, 159,000 SF school was originally constructed in the 1920s in the Collegiate Gothic style. The renovation created a new learning environment for 750 PreK-8th grade students. The project involved the restoration of the site, 500 seat theater, library, cafeteria and distinguished front entrance with castings of Aesop's Fables. $54.2 million.

LUIS VILDOSTEGUI, AIA

Lead Designer

YEARS WITH SLAM
1- Year
Full time Employee

EDUCATION
B. Arch. & M. Arch I, Tulane University

M. Arch II, Princeton University

MEMBERSHIPS/CREDENTIALS
Registered Architect

American Institute of Architects (AIA)

American Institute of Architects New Jersey Chapter

Society for College and University Planners (SCUP)

APPA - Eastern Region (Formerly Association of Physical Plant Administrations)

Luis is a thoughtful collaborator and voice. He believes in robust dialogue and values the challenging questions that emerge when clients and colleagues partner in an inclusive, dynamic design process. Luis brings a critical design perspective and over 30 years of experience to his role as Principal and Education Sector Leader for SLAM's Philadelphia office. He embraces the programmatic and technical complexity of today's academic projects, integrating diverse perspectives to consistently access more subtle and nuanced solutions that deliver lasting value. A former university design faculty member and frequently invited juror and critic, his career has focused on higher education and academic master planning both domestically and internationally. He is a respected industry leader and distinguished speaker within higher education.

THE NORTHEAST COMMUNITY PROPEL ACADEMY, PHILADELPHIA, PA
Master planning, design and construction of a new 180,000 GSF / $70M, award-winning K-8 on a constrained, multi-facility urban campus.

THE SCIENCE LEARNING ACADEMY & BEN FRANKLIN HIGH SCHOOL, PHILADELPHIA, PA
A $37M renovation of 1973 facility to co-locate two distinct high schools, the City's elite Science Leadership Academy and the Benjamin Franklin High School, into a single shared facility.

HAMILTON DISSTON K-8 SCHOOL, PHILADELPHIA, PA
Addition and Major Renovation on a tight urban site, reallocating space to support Next Generation learning pedagogies, relieve overcrowding and meet projected growth for the school.

NEW K053 K-5 SCHOOL, BAY RIDGE, BROOKLYN, NYC
Architecture, interior design, and civil engineering services for a new, 6-story community elementary school for 1,600 students on a very tight urban site.

AMERICAN SCHOOL OF DUBAI, NEW CAMPUS, DUBAI, U.A.E.
Design and construction of a new academic campus for an ASD accredited PreK – 12 school for 2,000 students.

AMERICAN COMMUNITY SCHOOL OF ABU DHABI: NEW MIDDLE & HIGH SCHOOL CAMPUS, ABU DHABI, U.A.E.
Master planning and design of an expandable new campus for adjacent Middle and High School programs accommodating 1,500 students.

BILKENT UNIVERSITY PREPARATORY SCHOOL: NEW LOWER AND MIDDLE SCHOOLS, ANKARA, TURKEY
Design of phased expansion of the existing high school academy to provide new facilities for 1,200 K-8 programs on a narrow hilltop ridgeline.

CAMDEN EARLY CHILDHOOD DEVELOPMENT CENTER, CAMDEN, NJ
Public elementary school located in Camden, NJ in the Camden City Public Schools, enrolling 414 students in grades 1st through 12th grades.

OCTAVIUS V. CATTO COMMUNITY SCHOOL & BOYS AND GIRLS CLUB, CAMDEN, NJ
Design and construction of a NJ State Demonstration Project featuring a combined Pre-K-8 community school and Community organization.

NEW MODULAR ELEMENTARY SCHOOLS, PASSAIC, NJ
Design for a 5-school school construction strategy employing modular design techniques to expedite erection or expansion of 5 schools

GREENVILLE COUNTY REGIONAL SCHOOLS, GREENVILLE, SC
Design and Construction of two school facilities, the Wade Hampton High School and The Fine Arts Academy, on a new academic campus.

COLE PETERSON, AIA
Design Architect

YEARS WITH SLAM
2- Years
Full time Employee

EDUCATION
B. Architecture, Boston Architectural College

REGISTRATIONS
CT, NCARB

MEMBERSHIPS
American Institute of Architects (AIA)

Cole is a registered architect in the state of Connecticut with 13+ years of architectural design experience on a variety of projects with a focus on high quality and sustainable design. His work includes K-12 school, corporate, and hospitality projects and he has experience coordinating all phases of the project with the client, construction team and consultants.

ELLA T. GRASSO TECHNICAL HIGH SCHOOL*
226,000-SF new technical high school for 800 students which offers 12 trades as well as adult education programs. The school's design concept was influenced by the nearby ocean as well as the school's close connection with the submarine/boat industry in nearby Groton.

JOHNSTON PUBLIC SCHOOLS NEW ELEMENTARY SCHOOL
New elementary school for 1,100 students in Grades 1-4 to consolidate 4 elementary schools in the district. The new school includes multiple music, art, STEAM, media center, special education and enhanced educational environments. The layout embraces their familiar neighborhood school feel by creating neighborhoods of spaces centered around learning commons to bring the scale of the building down to a child friendly size.

GREENWICH NEW CENTRAL MIDDLE SCHOOL
New 115,311 SF Central Middle School to be designed and constructed on site while the existing school remains operational. The scope of work includes the demolition of the existing school and related site improvements. The project goal is to provide a new school that is technologically advanced, energy efficient, addresses traffic issues and maintains the fabric of the community with an occupancy of August 2026.

SOUTH WINDSOR, ELI TERRY & PHILIP R. SMITH ELEMENTARY SCHOOLS*
Simultaneous design of two elementary schools for the Town of South Windsor; design addressed challenge of making each school unique by using same products, but in different colors and textures, while minimizing costs.

FRIENDS ACADEMY, INNOVATION CENTER
Conceptual design for a 22,000-SF, two-story addition to Frost Hall to support innovative teaching and learning for the Upper School's science, technology, engineering and math programs. The addition will also include informal student and faculty collaborative spaces.

SACRED HEART UNIVERSITY BUILDING 7 AND 8
Design of two 3-story residence halls connected by a bridge at the third floor. The buildings are a total of 133,626 square feet with 484 beds; project also includes a single-story parking deck with219 parking spaces.

CONNECTICUT COLLEGE*
Concept design for athletic projects.

AL MESSILA RESORT – A LANGHAM PROPERTY, DOHA, QATAR*
54,000 SF 5-star hotel, spa, fitness and restaurants interior design

AMY MUND CHRISTMAS, ALEP

Lead Academic Programmer/Planner

YEARS WITH SLAM
27 Years
Full time Employee

EDUCATION
B. Arch. - Wentworth Institute of Technology

MEMBERSHIPS/CREDENTIALS
Accredited Learning Environments Planner (ALEP)

Society for College and university Planning ,e and university Planning (SCUP): Planning Institute Alumna (2016-2018)

Association for Learning Environments (A4LE)

RECENT PRESENTATIONS
Ed Spaces Conference, November 2022 "Success Through Inclusion: Maximizing In-District Special Education Program Potential"

AIA Atlanta, August 2022:, "Breaking the Barrier: Incorporating Universal Design"

Connecticut Association of Boards of Education/Connecticut Association of Public Superintendents (CABE/CAPSS) Convention, November 2021 "Success Through Inclusion: Maximizing In-District Special Education Program Potential"

Mechanical Engineering Chair Summit, August 2019 "Shared and Collaborative Spaces"

ACUI Regional Conference, November 2018 "Changing Student Culture Through Renovated Student Center Space: Scalpel vs. Sledge Hammer"

A4LE LearningSCAPES National Conference, October 2017, A4LE Northeast Conference, March 2017 "Classroom to Career: When You Get to a Fork in the Road, Take It"

SCUP 50 National Conference, July 2015: "How Curriculum and Space Can Learn From Each Other"

Amy, an Associate Principal at The S/L/A/M Collaborative, has been with the firm for 27 years. She specializes in education work, particularly planning and program development. As an expert, she was key in developing the firm's Outcomes-Based Planning and Programming, a unique metric designed to help education clients assess the value of complex outcomes Amy is one of only a few Accredited Learning Environment Planners in the State of Connecticut.

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 st udents in grades 9-12.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

BULKELEY HIGH SCHOOL RENOVATION AND CENTRAL ADMINISTRATION FACILITIES
Renovate-as-new project of a windowless 285,000-SF high school into a modern high school for 850 students, grades 9-12. Project also includes 70,000 SF of district-wide support facilities to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary, and distribution center.

CREC PUBLIC SAFETY ACADEMY
New 150,000-SF state-of-the-art facility for 700 students, grades 6-12; goal is to prepare students for a career in public safety and community services, including police, fire, and emergency medical services. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

EAST HAMPTON HIGH SCHOOL
121,000-SF renovate-as-new, phased project for 580 students in grades 9-12. Project includes 93,000-SF renovation of existing space and a 28,000-SF addition to house a new science wing, lecture hall, and expanded cafeteria and gymnasium areas. Project also included the design of major site improvements to the main entrance, student drop off areas, overall vehicular and pedestrian circulation, on-site solutions for enhancing the connection and experience of the existing athletic facilities

ROGERS HIGH SCHOOL, NEWPORT, RI
Design and construction of new $98.8m school to replace existing in Newport RI. designed to provide real world experiences through spaces for businesses to interact with the public and students and provide more internships. Career Academies within the high school organize a multi-year curriculum around a career related themes and offer CTE programs that parallel employer needs in the Newport/Aquidneck Island, RI areas.

JOHNSTON HIGH SCHOOL
The town of Johnston RI is currently undergoing a consolidation process of their public schools. As part of this initiative, a new high school will be designed and constructed for approx. 1,200 students on the site adjacent to the existing high school.

JEFF ZEPPERI

Job Captain

YEARS WITH SLAM
17 Years
Full time Employee

EDUCATION
B. Architecture, University of Hartford

REGISTRATIONS
Certified Revit Professional

Jeff, a Senior Associate of the firm, is a project architect with over 16 years of experience, He has been involved in numerous projects, most notably educational facilities. He has performed a range of functions and has provided technical expertise for many significant projects, including complex renovations. He will assist in the development and documentation of the project, with particular expertise in building assessment, detail development, and design.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
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WATERBURY CAREER ACADEMY
New innovative 150,000-GSF career and technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, and human and health sciences. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

CAPITAL PREPARATORY MAGNET SCHOOL
Renovation/addition of the Barnard-Brown Elementary School in Hartford's Historic District to create a state-of-the-art educational facility for 600 students, PreK-12, and designed to LEED Silver specifications. Project included conversion of the auditorium into a multi-use Library Media Center and construction of a new gymnasium which overlooks a generously sized practice field.

CREC PUBLIC SAFETY ACADEMY
New 150,000-SF state-of-the-art facility for 700 students, grades 6-12; goal is to prepare students for a career in public safety and community services, including police, fire, and emergency medical services. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

H. H. ELLIS TECHNICAL HIGH SCHOOL
130,000-SF renovation and 70,000-SFaddition of technical high school for 864 students which involved complete replacement of all building systems and finishes and reprogramming of entire school; new gymnasium, media center and classroom wing; phased construction.

METROPOLITAN BUSINESS ACADEMY
86,000-GSF, 4-story, business-themed, interdistrict magnet high school for 400 students, grades 9-12. Earning an Energy Star rating, this school is the most energy efficient building in the New Haven Schools Program. Recipient of the 2012 CEFPI, Northeast Region, Project of Distinction Award.

ELLEN SANTOS

Job Captain

YEARS WITH SLAM
15 Years
Full time Employee

EDUCATION
B. Architecture, New York Institute of Technology

Ellen, an Associate with the firm, has over 15 years of experience and has acquired experience with both public and private work involving all facets of the design and construction process including construction administration. She has been involved in a range of key projects, most notably educational facilities, as Job Captain with responsibility for leading the technical documentation and consultant coordination of the overall team.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

BULKELEY HIGH SCHOOL RENOVATION AND CENTRAL ADMINISTRATION FACILITIES
Renovate-as-new project of a windowless 285,000-SF high school into a modern high school for 850 students, grades 9-12. Project also includes 70,000 SF of district-wide support facilities to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary, and distribution center.

RIDGEFIELD HIGH SCHOOL
210,000-SF renovations and a new 90,000-SF addition for 1800 students that houses state-of-the-art science classroom/labs, as well as a 2-story cafeteria for 600 students that serves as a central socializing space. The new addition also houses a Culinary Arts Lab similar to a contemporary commercial kitchen.

ROGERS HIGH SCHOOL
Design and construction administration of a 160,000-SF replacement high school and related site work for 755 students; the school campus will be occupied during construction. The new school will provide flexible learning spaces and state-of-the-art design.

EAST RIDGE MIDDLE SCHOOL
Additions and renovations to 140,000-SF middle school; project included new connector to annex and conversion of annex to library/computer center; conversion of existing library to Art Suite; new science/laboratory spaces; improvements to gym, locker rooms, cafeteria, auditorium; renovation of all classrooms; and new MEP and technology systems.

HENRY WINTERS STEAM ELEMENTARY SCHOOL
New state-of-the-art school for 643 students in grades PreK-5. RIDE Stages III and IV, the project will be a 94,000-SF, 3-level new school with a construction cost of about $40M. SLAM previously provided RIDE Stage II services for this and several other Pawtucket Schools.

JAMES L. MCGUIRE ELEMENTARY SCHOOL
Demolition, abatement, site development and construction of a new 62,000-SF, K-5 Elementary schools for 450 students in North Providence, RI

STEPHEN OLNEY ELEMENTARY SCHOOL
Demolition, abatement, site development and construction of a new 62,500-SF, K-5 Elementary schools for 450 students in North Providence, RI

GREGG BERGMILLER, LEED AP

Sustainable Design Specialist

YEARS WITH SLAM
28 Years
Full time Employee

EDUCATION
B. Architecture, Boston Architecture

MEMBERSHIPS
United States Green Building Council-LEED Accredited Professional (Leadership in Energy and Environmental Design)

American National Standards Institute/ Green Building Initiative

Standards Development Committee

Coalition of Code Standards, AIA-Connecticut

PRESENTATIONS
Construction Institute Workshop

Certificate Program at ESPN: Integrated Design Process, 2013

Construction Institute Workshop

Integrated Design Process, November, 2012

State of Connecticut Fall Career Development Series – "Green Globes for Building and Fire Officials" 2008

"Green Globes for Buildings in CT Communities" 2008

"Practical Strategies for the Continual Improvement of Existing Buildings" BOMA 2008

"GBI-Green Globes Training Sessions" – Ecobuild 2008

"High Performance Schools in Connecticut" – Green Building Conferences, 2008

"Green 101: Opportunities for Young Professionals" – CT Green Building Council 2008 -"Land Use & Green Development" Law Seminars International 2009

Gregg, an Associate who has been with the firm since 1995, serves as LEED specialist and expert in sustainability for projects across the firm's market sectors. He works closely with design teams to identify and meet high performance goals, most significantly with respect to siting, water use, energy consumption, building materials and indoor air quality. He also oversees construction administration to ensure that the process, as well as the final product, is environmentally sensitive and uses resources efficiently. Gregg has conducted numerous training programs in sustainability for in-house staff as well as local, regional and national organizations. He also conducts Third Party Verification for Green Globes.

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WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism and Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

WATERBURY CAREER ACADEMY
Programming, planning, and design for new innovative 150,000-GSF career and technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, and human and health sciences. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

W. F. KAYNOR TECHNICAL HIGH SCHOOL
211,000-SF renovation/addition, including new 3-story academic wing, new gym, upgraded vocational wing, fully digital academic areas, improved site circulation, and creation of a new image. Recipient of the 2010 Real Estate Exchange, Best In Class, Educational Category.

CREC PUBLIC SAFETY ACADEMY
New 150,000-SF state-of-the-art facility for 700 students, grades 6-12; goal is to prepare students for a career in public safety and community services, including police, fire, and emergency medical services. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

EAST HAMPTON HIGH SCHOOL
121,000-SF renovate-as-new, phased project for 580 students in grades 9-12. Project includes 93,000-SF renovation of existing space and a 28,000-SF addition to house a new science wing, lecture hall, and expanded cafeteria and gymnasium areas. Project also included the design of major site improvements to the main entrance, student drop off areas, overall vehicular and pedestrian circulation, on-site solutions for sustainable drainage and enhance the connection and experience of the existing athletic facilities

DOUGLAS GRAHAM, P. E.

Structural Engineer

YEARS WITH SLAM
15 Years
Full time Employee

EDUCATION
M. Eng. - Structural, University of Hartford

B. Sci., Civil Engineering, University of Hartford

REGISTRATIONS
AL, CT, GA, IN, MA, NH, NJ, NY, PA, RI, VA, VT, WI

Board Certified Structural Engineer

March 2006-March 2022

Doug is a Principal and leader of the firm's Structural Engineering Studio. A Board Certified Structural Engineer with over 29 years experience, he is responsible for the structural design and documentation of the project, as well as the coordination and integration of the structure with the architectural and mechanical elements. He works closely with the team in reviewing and analyzing all structure-related issues.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

EAST HAMPTON HIGH SCHOOL
127,700-SF renovate-as-new, phased project for 580 students in grades 9-12. Project includes 93,000-SF renovation of existing space & a 32,000-SF addition to house a new science wing, lecture hall, & expanded cafeteria & gymnasium areas. Project also included the design of major site improvements to the main entrance, student drop off areas, overall vehicular & pedestrian circulation, on-site solutions for sustainable drainage & enhance the connection & experience of the existing athletic facilities spaces.

WATERBURY CAREER ACADEMY, HIGH SCHOOL
Programming, planning, and design for new innovative 150,000-GSF career and technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, and human and health sciences. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

HENRY WINTERS STEAM, ELEMENTARY SCHOOL
New state-of-the-art school (RIDE Stages III and IV) for 643 students in grades PreK-5. The project will be a 94,000-SF, 3-level school which creates a modern 21st century learning environment. The design provides a clear organization of the academic teaching spaces and assembly areas and includes a Learning Commons.

JOHNSTON PUBLIC SCHOOLS, RIDE STAGE 2
The town of Johnston RI is currently undergoing a consolidation process of their public schools. As part of this initiative, a new high school will be designed and constructed for approx. 1,200 students on the site adjacent to the existing high school.

NEW HAVEN PUBLIC SCHOOLS, BOWEN FIELD RENOVATION
Athletic improvements including a 400-meter, eight-lane track, new lighting system, synthetic turf field, new and easily accessible restrooms, new locker rooms, bleachers and fencing, and restoration of historic gatehouse

PAWTUCKET SCHOOL DISTRICT, MASTER PLAN AND STAGE II
Development of a comprehensive master plan for all 16 schools in the Pawtucket school district as well as Stage II submission (through Schematic Design) for 4 schools: Shea High School, Tolman High School, Baldwin Elementary School, and Winters Elementary School, as well as district-wide health and safety upgrades.

STEVEN MURRAY P. E.

Structural Engineer

YEARS WITH SLAM
22 Years
Full time Employee

EDUCATION
B.S. - Wentworth Institute of Technology

REGISTRATIONS
CT

MEMBERSHIPS
American Institute of Steel Construction

Steve, an Associate Principal with the firm, has over 30 years of experience as a structural engineer. Steve is the structural engineer for most of SLAM's public education work. He is familiar with and responsible for all aspects of structural design and documentation of the project, as well as the coordination and integration of the structure with the architectural and mechanical elements. He works closely with the team in reviewing and analyzing all structure-related issues.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

RIDGEFIELD HIGH SCHOOL
210,000-SF renovations and a new 90,000-SF addition for 1800 students that houses state-of-the-art science classroom/labs, as well as a 2-story cafeteria for 600 students that serves as a central socializing space. The new addition also houses a Culinary Arts Lab similar to a contemporary commercial kitchen

WATERBURY CAREER ACADEMY
New innovative 150,000-GSF career and technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, and human and health sciences.

W.F. KAYNOR TECHNICAL HIGH SCHOOL
211,000-SF renovation/addition, including new 3-story academic wing, new gym, upgraded vocational wing, fully digital academic areas, improved site circulation, and creation of a new image. Recipient of the 2010 Real Estate Exchange, Best In Class, Educational Category.

EAST HAMPTON HIGH SCHOOL
127,700-SF renovate-as-new, phased project for 580 students in grades 9-12. Project includes 93,000-SF renovation of existing space and a 32,000-SF addition to house a new science wing, lecture hall, and expanded cafeteria and gymnasium areas. Project also included the design of major site improvements to the main entrance, student drop off areas, overall vehicular and pedestrian circulation, on-site solutions for sustainable drainage and enhance the connection and experience of the existing athletic facilities.

NONNEWAUG HIGH SCHOOL (REGION 14)
150,000-SF renovate-as-new project to include replacement of science labs and classrooms; installation of new hands on learning labs; renovation of auditorium, stage, and gymnasium; renovation of library media center, cafeteria, kitchen, offices and conference rooms; renovation of athletic facilities and fields; upgrades to HVAC, technology and code; and hazardous material abatement design.

PROVIDENCE CAREER & TECHNICAL HIGH SCHOOL/FIELD HOUSE, PROVIDENCE, RI
New 296,000-SF vocational technical high school/field house for 816 students; project includes 400-seat auditorium, 200-meter track, and 3 full basketball courts. Project designed to meet CHPS protocol. Recipient of the AIA-Delaware 2010 Award for Design Excellence, 2010 Centria Architectural Systems Design Award, K-12 Education, and 2011 CEFPI NE Region - Project of Distinction Award

JAMIE LITTLEFIELD, P.E.
Structural Engineer

YEARS WITH SLAM
4 Years
Full time Employee

EDUCATION
B. Sci., Civil Engineering - Wentworth Institute of Technology

Jamie joins the Structural Studio as an Engineer. She has a Bachelor of Science in Civil Engineering from Wentworth Institute of Technology. She is a LEED Green Associate. Jamie has worked for General Dynamics Electric Boat in Groton, Boston Water and Sewer Commission in Boston, Welch Corp in Boston and most recently WSP USA also in Boston where she was a Structural Bridge Intern.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

JOHNSTON HIGH SCHOOL
The town of Johnston RI is currently undergoing a consolidation process of their public schools. As part of this initiative, a new high school will be designed and constructed for approx. 1,200 students on the site adjacent to the existing high school.

HENRY WINTERS STEAM ELEMENTARY SCHOOL
New state-of-the-art school (RIDE Stages III and IV) for 643 students in grades PreK-5. The project will be a 94,000-SF, 3-level school which creates a modern 21st century learning environment. The design provides a clear organization of the academic teaching spaces and assembly areas and includes a Learning Commons

OX RIDGE ELEMENTARY SCHOOL
New 110,000-SF, PreK-5 elementary school for 428 K-5 and 150 PreK students provides variety of flexible learning spaces and serves as the central location for the Early Learning Program. Construction of new school to occur on existing site, while the existing school remains operational.

THE FREDERICK GUNN SCHOOL, THOMAS PERAKOS ARTS & COMMUNITY CENTER
New 30,000-SF community and arts center to house a 500-seat theater, visual arts studios, music studios, digital arts classrooms, dance studio and gallery/display spaces.

CANTERBURY SCHOOL, MASTER PLAN AND COMMONS
Master plan and design of a new two-story, 22,000-SF innovative center for 350 students to serve as signature facility for the campus; includes maker spaces, flexible, multi-use classrooms, and student center with café

BRUNSWICK ACADEMY, MASTER PLAN
Full analysis of existing facilities, including programming spaces, playing fields, etc., to identify deficiencies and opportunities and provide recommendations to existing spaces and/or possible new construction. Includes comprehensive campus space and facility analysis, land utilization and landscape strategy and faculty housing analysis.

DAN GRANNISS, RLA, ASLA, LEED AP

Landscape Architect Principal

YEARS WITH SLAM
23 Years
Full time Employee

EDUCATION
B.S. Landscape Architecture - University of Connecticut

REGISTRATIONS
AZ, CT, GA, IA, IN, MA, MI, NJ, NY, PA, RI, Licensed Landscape Architect

CLARB Certified

MEMBERSHIPS
United States Green Building Council-LEED Accredited Professional (Leadership in Energy and Environmental Design)

American Society of Landscape Architects (ASLA)

CT Chapter, ASLA, Vice President

Dan, a Principal with the firm, has been practicing landscape architecture since graduating in 1994 and a Landscape Architect at The S/L/A/M Collaborative since 2000. He designs and manages an array of project types including recreational facilities, educational facilities, comprehensive master planning, town planning, and site planning. He has experience in all phases of a project, from site analysis and regulatory compliance through conceptual design, design development, construction documents, and contract administration.

BULKELEY HIGH SCHOOL RENOVATION AND CENTRAL ADMINISTRATION FACILITIES
Renovate-as-new project of a windowless 285,000-SF high school into a modern high school for 850 students, grades 9-12. Project also includes 70,000 SF of district-wide support facilities to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary and distribution center.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

JOURNALISM & MEDIA ACADEMY
53,000-SF addition and 25,000-SF renovation (renovate-as-new) of 1929-era building to provide a school for 400 students in grades 9-12. The new facility delivers cutting-edge curricula and innovative programs TO build skills in critical thinking and creative media production. Project met CT High Performance Building standards, LEED Gold equivalent.

RIDGEFIELD HIGH SCHOOL
210,000-SF renovations & a new 90,000-SF addition for 1800 students that houses state-of-the-art science classroom/labs, as well as a 2-story cafeteria for 600 students that serves as a central socializing space. The new addition also houses a Culinary Arts Lab similar to a contemporary commercial kitchen.

KAYNOR TECHNICAL HIGH SCHOOL & ATHLETIC IMPROVEMENTS
211,000-SF renovation/addition, including new 3-story academic wing, new gym, upgraded vocational wing, fully digital academic areas, improved site circulation, and creation of a new image. Also included in the project was ite and athletic field improvements. Athletic field improvements included a soccer field, softball field, and baseball field with backstops, fencing, and dug outs. Recipient of the 2010 Real Estate Exchange, Best In Class, Educational Category.

CAPITAL PREPARATORY MAGNET SCHOOL
Renovation/addition of the Barnard-Brown Elementary School in Hartford's Historic District to create a state-of-the-art educational facility for 600 students, PreK-12, & designed to LEED Silver specifications. Project included conversion of the auditorium into a multi-use Library Media Center & construction of a new gymnasium which overlooks a generously sized practice field.

ASIAN STUDIES ACADEMY
Addition/renovation (renovate-to-new) of existing middle school into a PreK-8 school that offers a culturally integrated learning environment, exposing students to International studies in the core subjects of language arts, science, social studies, math & a foreign language.

BARLOW MOUNTAIN ELEMENTARY SCHOOL

HENRY WITHERS, RLA, ASLA

Senior Landscape Architect

YEARS WITH SLAM
1 Year
Full time Employee

EDUCATION
Bachelor of Science
Landscape Architecture,
University of Virginia

REGISTRATIONS
CT
Licensed Landscape Architect

MEMBERSHIPS
American Society of Landscape Architects (ASLA)

PRESENTATIONS/AWARDS
Co-Author of "An Inland Wetland Commissioner's Guide to Site Plan Review" 1993 ASLA Merit Award

Graphics and design work published in Perspective Sketches, 4th ed. by Theodore D. Walker. 1989

- Housatonic Community College | Bridgeport, CT (Amenta Emma)

2020 AIA Connecticut Design Awards – Built – Merit Award

Connecticut Building Congress Project Team Awards – Project Team of the Year

Connecticut Building Congress Project Team Awards – First Place: Major Renovations

International Design Awards – Architecture/ Institutional – Bronze Award

- Litchfield Judicial District Courthouse | Torrington, CT – Cyndy & Henry

2018 CBC Project Team Awards, First Place New Construction

2018 CBC Project Team Awards, Project Team of the Year

Henry is a Senior Associate and Senior Landscape Architect with over 40 years of experience practicing landscape architecture for multiple market sectors, including K-12, Higher Education, Corporate, Commercial, and Municipal. His key practice areas include: Site Planning and Landscape Architectural Design; Project guidance and Management from initial Feasibility and Programming through Design Inception, full Construction Contract Documentation, Regulatory Requirements and Permitting, LID / LEED Compliance; Bidding and Construction Administration.

STAMFORD SOUTH SCHOOL PLANNING & ESTIMATING SERVICES
Exploration and preparation of multiple conceptual design options for a proposed South End K-8 School to determine a preferred option for each site, cost estimates, demolition of the Toquam school, and assist the City and SPS in the preparation of necessary documentation for the submission of a grant applications.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

GREENWICH NEW CENTRAL MIDDLE SCHOOL
New 115,311 SF Central Middle School to be designed and constructed on site while the existing school remains operational. The scope of work includes the demolition of the existing school and related site improvements. The project goal is to provide a new school that is technologically advanced, energy efficient, addresses traffic issues and maintains the fabric of the community with an occupancy of August 2026.

ROGERS ENVIRONMENTAL MAGNET SCHOOL*
To demonstrate ecological stewardship, the design integrates building forms with natural terrain to preserve the character of the site. Roof gardens flow onto an existing knoll, forming the outdoor classrooms. Boardwalks connect the parking / drop-off area through created wetlands to school, gathering areas, and observation nodes for ecological study.

ANSONIA MIDDLE SCHOOL FEASIBILITY STUDY & GRANT APPLICATION
Feasibility study for new Middle School, providing technical assistance and expertise in support of a future grant application to the State Office of School Construction Grants & Review (OSCG&R). Scope includes site analysis, conceptual test-fits, enrollment projections, ed specs, conceptual design, cost estimating and grant application.

TRUMBULL HIGH SCHOOL, TRUMBULL, CT*
All site work related to an addition to existing high school and a new freestanding natatorium and accessibility to existing recreation fields.

QUINEBAUG VALLEY MIDDLE COLLEGE HIGH SCHOOL, DANIELSON, CT*
Site design services for a new stateoftheart interdistrict middle college magnet high school (grades 1012). Students attend classes on the QVCC campus in Danielson enabling them to complete their high school education at the same time while participating in realworld, handson projects intended to bolster student engagement, creativity and innovation. Full site planning services to included additions and renovations to include new circulation and parking, bus and parent dropoffs, ADA accessible walk to lower level, creation of a miniamphitheater. LEED Silver certification.

ELLEN FALLON-SENECHAL, RLA, ASLA

Landscape Architect

YEARS WITH SLAM
2 Years
Full time Employee

EDUCATION
M. Landscape Architecture - Rutgers University

B. Science
Environmental Science - University of Connecticut

REGISTRATIONS
CT
Licensed Landscape Architect

Ellen joins the Landscape Architect studio as a Landscape Architect. She has a Master of Landscape Architecture from Rutgers University and a Bachelor of Science Environmental Science from the University of Connecticut. She has been a Teaching Assistant, Construction II & III at Rutgers Landscape Architecture Department and Part-Time Lecturer, Plant Ecology at Rutgers. She is a member of Connecticut Association of Landscape Architects.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

BULKELEY HIGH SCHOOL/BOARD OF ED OFFICES & DISTRICT SUPPORT FACILITIES,
Renovate-as-new project of windowless 285,000-SF school into a modern high school for 850 students, grades 9-12. The project also includes a 70,000 SF district-wide support facility to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary and distribution center

STAMFORD SOUTH SCHOOL PLANNING & ESTIMATING SERVICES
Exploration and preparation of multiple conceptual design options for a proposed South End K-8 School to determine a preferred option for each site, cost estimates, demolition of the Toquam school, and assist the City and SPS in the preparation of necessary documentation for the submission of a grant applications.

GREENWICH NEW CENTRAL MIDDLE SCHOOL
New 115,311 SF Central Middle School to be designed and constructed on site while the existing school remains operational. The scope of work includes the demolition of the existing school and related site improvements. The project goal is to provide a new school that is technologically advanced, energy efficient, addresses traffic issues and maintains the fabric of the community with an occupancy of August 2026.

BRUNSWICK ACADEMY, MASTER PLAN, GREENWICH, CT
Full analysis of existing facilities, including programming spaces, playing fields, etc., to identify deficiencies and opportunities and provide recommendations to existing spaces and/or possible new construction. Includes comprehensive campus space and facility analysis, land utilization and landscape strategy and faculty housing analysis.

FRIENDS ACADEMY, INNOVATION CENTER, NORTH DARTMOUTH, MA
Conceptual design for a 22,000-SF, three-story addition to Frost Hall to support innovative teaching and learning for the Upper School's science, technology, engineering and math programs. The addition also includes informal student and faculty collaborative spaces

HOPKINS SCHOOL NEW PERFORMING ARTS CENTER, NEW HAVEN, CT
Renovation/addition of existing facility to house classrooms, digital labs, rehearsal spaces, theater support spaces, a new black box theater, and a main theater to support 350 audience members.

AMANDA HASTINGS SHEA, IIDA, NCIDQ

Interior Designer/FF&E

YEARS WITH SLAM
11 Years
Full time Employee

EDUCATION
B. A., Interior Design, Paier College of Art
Assoc. Science, Liberal Arts, Greenfield Community College

CERTIFICATIONS
NCIDQ

MEMBERSHIPS
International Interior Design Association (IIDA)

Association for Learning Environments, Accredited Learning Environments Planner, Candidate 2023

PRESENTATIONS
Ed Spaces Conference, November 2022
"Success Through Inclusion: Maximizing In-District Special Education Program Potential"

Amanda is a Senior Associate and lead interior designer in the Education Studio. She has 15+ years of experience focusing on public education, but derives expertise from working on a wide array of projects in corporate, higher education and healthcare. Her approach centralizes on connecting with clients to create a strong conceptual foundation that drives the "why" behind every decision, creating spaces that are distinct, engaging, inspiring and where people will thrive.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

BULKELEY HIGH SCHOOL RENOVATION AND CENTRAL ADMINISTRATION FACILITIES
Renovate-as-new project of a windowless 285,000-SF high school into a modern high school for 850 students, grades 9-12. Project also includes 70,000 SF of district-wide support facilities to house BOE offices, welcome center and print shop, Regional School Choice offices, and Nutrition Services central warehouse, commissary, and distribution center.

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy & High School Inc., Hartford's Insurance & Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

CREC PUBLIC SAFETY ACADEMY
New 150,000-SF state-of-the-art facility for 700 students, grades 6-12; goal is to prepare students for a career in public safety & community services, including police, fire, & emergency medical services. Project designed to meet CT High Performance Building standards, LEED Gold equivalent

EAST HAMPTON HIGH SCHOOL
127,700-SF renovate-as-new, phased project for 580 students in grades 9-12. Project includes 93,000-SF renovation of existing space & a 32,000-SF addition to house a new science wing, lecture hall, & expanded cafeteria & gymnasium areas. Project also included the design of major site improvements to the main entrance, student drop off areas, overall vehicular & pedestrian circulation, on-site solutions for sustainable drainage & enhance the connection & experience of the existing athletic facilities.

NONNEWAUG HIGH SCHOOL (REGION 14)
150,000-SF renovate-as-new project to include replacement of science labs & classrooms; installation of new hands on learning labs; renovation of auditorium, stage, & gymnasium; renovation of library media center, cafeteria, kitchen, offices & conference rooms; renovation of athletic facilities & fields; upgrades to HVAC, technology & code; & hazardous material abatement design.

WATERBURY CAREER ACADEMY
New innovative 150,000-GSF career & technical education center for students in grades 9-12. Programs include computer sciences, engineering technology, & human & health sciences. Project designed to meet CT High Performance Building standards, LEED Gold equivalent.

MEGHAN MENDES, IIDA

Interior Designer

YEARS WITH SLAM
9 Years
Full time Employee

EDUCATION
B.S., Interior Design, Endicott College

MEMBERSHIPS
International Interior Design Association

National Council for Interior Design Qualification

Corenet Global

Meghan, an Associate with the firm, is a member of SLAM's Corporate Interiors Practice. Meghan routinely works with firm leadership in the design, documentation, and delivery of high-end workplace designs. With SLAM since 2014, Meghan has quickly established herself as one of the firm's up and coming interior designers, able to blend multiple styles and deliver comprehensive documents for some of SLAM's most challenging and sophisticated clients. Meghan was an integral part of SLAM's Workplace Innovation Think Tank submission focused on the future of the office. SLAM's submission "Mind the Gap: Work From Train" was chosen as a winner by WorkDesign Magazine in the New to World Solutions, Flex-Work, and Common Shared Amenities categories in 2021.

TORRINGTON PUBLIC SCHOOLS, NEW MIDDLE/HIGH SCHOOL & BOE OFFICES
New 310,000 SF Middle and High School facility for 1,650 students in grades 7-12, as well as 8,000 SF for the Central Office Administration, to be located on the current Torrington High School campus. The new school will be built on existing site while the existing school remains operational. Existing school will then be demolished and site resorted with new play fields and parking.

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model. Project met CT High Performance Building standards, LEED Gold equivalent.

CANTERBURY SCHOOL, COMMONS
Design of a new two-story, 22,000-SF innovative center for 350 students to serve as signature facility for the campus; includes maker spaces, flexible, multi-use classrooms, and student center with café

CANTERBURY SCHOOL, MAGUIRE AUDITORIUM
Renovation of the auditorium includes new seating, flooring, and improved lighting and acoustic finishes, dramatically enhancing the space's look and function. The Auditorium is central to campus life and one of the first spaces that prospective families visit when they tour the campus.

THE FREDERICK GUNN SCHOOL, THOMAS S. PERAKOS ARTS & COMMUNITY CTR
New 30,000-SF community and arts center to house a 500-seat theater, visual arts studios, music studios, digital arts classrooms, dance studio and gallery/display spaces

FRIENDS ACADEMY, DOLAN INNOVATION CENTER
Conceptual design for a 22,000-SF, three-story addition to Frost Hall to support innovative teaching and learning for the Upper School's science, technology, engineering and math programs. The addition will also include informal student and faculty collaborative spaces

THE GREEN VALE SCHOOL, OPTIMA CENTER
New 54,000 Optima STEAM Center to provide state-of-the-art open and flexible classroom space, new technology classroom spaces, including a maker space and a video suite, and a new Learning Commons that will be the "hub" of activity for the Center. The project creates spaces for interaction of the arts, math, science, and technology activities and projects, as well as an outdoor science classroom with a pond and waterfall located adjacent to the science classrooms on the lower level.

ROBERT SWAIN, AIA, LEED AP

Principal-in-Charge

YEARS WITH AEA
27 Years
Full time Employee

EDUCATION
Catholic University of America
Washington, DC

REGISTRATIONS
CT
NCARB

MEMBERSHIPS
American Institute of Architects

Society for College and University Planning (SCUP)

BOARD OF DIRECTORS
CT Architecture Foundation - President

Foundation for West Hartford Schools

Catholic Charities - Help & Hope

Capital Community College - Architecture Advisory Board

PRESENTER
2015 North Atlantic SCUP Conference

2011 North Atlantic SCUP Conference

AWARDS & HONORS
2020 AIA Connecticut Design Awards
Institutional-Merit Award 165 Capitol Avenue

2017 Brick in Architecture Silver Award
Higher Education
Western Connecticut State University
Visual and Performing Arts Center

2015 AIA Connecticut People's Choice Award
Western Connecticut State University
Visual and Performing Arts Center

2013 Cold-Formed Steel Engineers Institute, Design Excellence
Western Connecticut State University
Visual and Performing Arts Center

Robert Swain serves as Principal-in-Charge of academic and major public projects for Amenta Emma. Projects in his academic portfolio range from new elementary and high school buildings to major new campus facilities. Each project involves the application of expertise, creative problem solving and design innovation in delivering solutions that balance project priorities, programmatic needs, budget and schedule. Robert's CT-OSCG&R experience includes elementary schools in Hartford, Newtown, Wethersfield and Durham, CT. Other academic work includes projects at UConn, Northeastern University, Fairfield University, Quinebaug Middle College, CCSU, WCSU, Housatonic Community College, the University of Saint Joseph and Quinnipiac University. Prior to joining Amenta Emma, Robert served as a Project Architect and Project Designer on academic projects in Newtown and Southbury, CT, as well as the Loomis Chaffee school, SCSU and ECSU. In addition to his leadership in Amenta Emma's academic studio, Robert serves as the President of the Connecticut Architecture Foundation and has served an active role with K-12, community college and college architectural mentorship programs..

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2,000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

CREC DISCOVERY ACADEMY
A new PK-5th Grade magnet school for CREC (Capitol Regional Educational Council). The 64,000-SF LEED Silver-equivalent facility includes a 19,000-SF day lit addition that houses art and music rooms, and the Cafetorium. Natural light infuses the school and outside spaces are used for learning as well as playing, creating an indoor-outdoor connection to nature reflective of the school's STEM theme,

ANNIE FISHER MONTESSORI AND STEM MAGNET SCHOOLS
The project included two new additions totaling 17,000-SF, consisting of a library/ media center, cafeteria, kitchen and a classroom wing. It also included full renovation of the existing 102,000-SF building, originally constructed in 1966. The school is registered with the USGBC and was designed to LEED Silver Certification.

PATHWAYS ACADEMY OF TECHNOLOGY AND DESIGN
Located at the entrance of the Goodwin University campus, the 81,000-SF, $27.5M four-story building provides a variety of interactive learning environments in magnet-themed spaces such as robotics, advanced energy and nanotechnology, physics/ optics and photonics, video and music production, advanced design and virtual reality.

QUINEBAUG MIDDLE COLLEGE HIGH SCHOOL
An innovative magnet high school with a mission to support at-risk students by engaging them in the context of a college environment. Amenta Emma provided full architectural services, from Programming through CA, for a 40,000-SF addition to the college's main building and a 12,000-SF addition to the existing cafeteria and library.

CREC ANA GRACE ACADEMY
Full design and documentation for the renovation of a historic former manufacturing building in Hartford's Coltsville complex. The 48,000-SF structure was to be restored historically on the exterior, renovated on the interior and a multi-story addition constructed in the existing building courtyard of the building to provide a total of 75,000-SF including a new gymnasium and 500 seat auditorium. Amenta Emma completed all work following OSCG&R guidelines.

AMENTA|EMMA
ARCHITECTS

MICHAEL B. TYRE, AIA, LEED AP

Principal Lead Designer

Michael Tyre is lead designer at Amenta Emma with a focus on Academic Environments. His work combines state-of-the-art solutions relative to programming, sustainability, wellness, and long-term strategic planning. Past projects include the design for the Ana Grace Academy for the Arts in Hartford, the Discovery Academy in Wethersfield, and Weaver High School in Hartford, CT. Active projects include multiple classroom and lab renovation projects at Smith College, classroom renovation projects at MIT and work at Quinnipiac University which includes Buckman Hall research labs, Business School lecture halls and classrooms, the new offices for the Brand Strategy Group, and the Admissions Center. Michael serves on the AIA CT Board of Directors, is a leader on the AIA CT Committee on Design, and is a frequent speaker on designing for Education.

YEARS WITH AEA
8 Years
Full time Employee

EDUCATION
M. Arch, Princeton University
B. Arch. University of Florida

REGISTRATIONS
CT

BOARD MEMBER
AIA CT

MEMBERSHIPS
Connecticut Green Building Council Society of College & University Planners (SCUP)

PRESENTER
2020 North Atlantic SCUP Conference

AWARDS
AIA Connecticut Design Awards
Institutional – Merit Award
165 Capitol Avenue

39th Annual Interiors Awards presented by Contract magazine - Adaptive Reuse
Quinnipiac University Brand Strategy Group
QU Brand Strategy

IIDA New England Design Award
Best In Show - QU Brand Strategy

International Design Awards - Bronze
QU Brand Strategy

AIA CT Honor Award - QU Brand Strategy

IIDA New England Design Award
Best In State - Symmetry Partners

AIA New England Citation Award for Excellence in Architecture Symmetry Partners

2016 AIA New England People's Choice Award - Symmetry Partners

2014 AIA CT Design Award - Glen Lochen

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

CREC DISCOVERY ACADEMY
A new PK-5th Grade magnet school for CREC (Capitol Regional Educational Council). The 64,000-SF LEED Silver-equivalent facility includes a 19,000-SF day lit addition that houses art and music rooms, and the Cafetorium. Natural light infuses the school and outside spaces are used for learning as well as playing, creating an indoor-outdoor connection to nature reflective of the school's STEM theme,

CREC ANA GRACE ACADEMY
Full design and documentation for the renovation of a historic former manufacturing building in Hartford. The 48,000-SF structure was to be restored historically on the exterior, renovated on the interior and a multi-story addition constructed in the existing building courtyard of the building to provide a total of 75,000 sf including a new gymnasium and 500 seat auditorium. Amenta Emma completed all work following OSCG&R guidelines.

SMITH COLLEGE
Multiple renovations across the campus, from programming and planning studies to full professional services. Projects include a technology-enabled active learning classroom for a neurodiverse community of learners, Fine Arts spaces, lecture hall renovations and several science lab renovations.

MIT
Comprehensive renovation to aging tiered 3,000-SF classroom used for academic and public lectures. Acoustical issues were addressed, advanced AV capabilities were integrated, and accessibility issues resolved.

QUINNIPIAC UNIVERSITY
Amenta Emma has worked with Quinnipiac University since 2016 to revitalize outdated spaces on their campus, transforming them into iconic and state-of-the art facilities that are highly utilized by students, faculty, and staff.

JENNA M. MCCLURE, AIA, LEED AP

Associate Principal
Project Manager

Jenna McClure serves as a Project Manager in the firm's Academic studio and has been a key member of the firm's most complex projects, including the Discovery Academy, Weaver High School, the Visual and Performing Arts Center at Western Connecticut State University and Quinebaug Middle College on the campus of Quinebaug Valley Community College. Her completed work includes the renovation and addition to Lafayette Hall at Housatonic Community College in Bridgeport, projects on the campus of Middlesex Community College in Middletown, CT and an addition/renovation at Annie Fisher Montessori and STEM Magnet Schools in Hartford, CT. Among Jenna's list of active work are multiple renovation projects at Smith College including dedicated spaces for neurodivergent learners. While there, Jenna is active in mentoring students. Jenna in the Hartford area through CREW CT and the PWC CT. She is a Hartford Business Journal 40 Under 40 awardee.

YEARS WITH AEA
15 Years
Full time Employee

EDUCATION
M.Arch. Virginia Polytechnic Institute and State University

B.S. Arch. University of Virginia

REGISTRATIONS
CT

MEMBERSHIPS
American Institute of Architects
USGBC
Connecticut Green Building Council
CREW Network
Society for College and University Planning (SCUP)

COMMISSION MEMBER
West Hartford Design Review Commission

MENTOR
Professional Women in Construction CT

PRESENTER
2015 North Atlantic SCUP Conference

AWARDS
AIA Connecticut Design Awards Institutional - Merit Award - 165 Capitol Avenue

Brick in Architecture Silver Award - Higher Education - Western Connecticut State University, Visual and Performing Arts Center

AIA Connecticut People's Choice Award

- Western Connecticut State University, Visual and Performing Arts Center

Cold-Formed Steel Engineers Institute, Design Excellence - Western Connecticut State University, Visual and Performing Arts Center

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

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A new PK-5th Grade magnet school for CREC (Capitol Regional Educational Council). The 64,000 sf LEED Silver-equivalent facility includes a 19,000 sf day lit addition that houses art and music rooms, and the Cafetorium. Natural light infuses the school and outside spaces are used for learning as well as playing, creating an indoor-outdoor connection to nature reflective of the school's STEM theme,

PATHWAYS ACADEMY OF TECHNOLOGY AND DESIGN
Located at the entrance of the Goodwin University campus, the 81,000 sf, $27.5M four-story building provides a variety of interactive learning environments in magnet-themed spaces such as robotics, advanced energy and nanotechnology, physics/ optics and photonics, video and music production, advanced design and virtual reality.

ANNIE FISHER MONTESSORI AND STEM MAGNET SCHOOLS
The project included two new additions totaling 17,000 sf, consisting of a library/media center, cafeteria, kitchen and a four-classroom wing. It also included a full renovation of the existing 102,000 sf building, originally constructed in 1966. The school is registered with the USGBC and was designed for the equivalency of LEED Silver Certification.

QUINEBAUG MIDDLE COLLEGE HIGH SCHOOL
An innovative magnet high school with a mission to support at-risk students by engaging them in the context of a college environment. Amenta Emma provided full architectural services, from Programming through CA, for a 40,000-sf addition to the college's main building and a 12,000 sf addition to the existing cafeteria and library.

ROBERT LARSON, AIA, LEED AP BD+C

Senior Associate
Project Architect

YEARS WITH AEA
18 Years
Full time Employee

EDUCATION
B. A. Arch, Roger Williams University
Rhode Island

REGISTRATIONS
CT
NCARB

MEMBERSHIPS
American Institute of Architects

Connecticut Green Building Council

AWARDS & HONORS
CREW CT Blue Ribbon Awards – Best In Class – Education
Weaver High School

2016 Best in State, CT
IIDA New England Design Awards
Discovery Academy

2012 Connecticut Building Congress
Project Team Award: First Place K–12
Discovery Academy

2020 CREW CT Blue Ribbon Awards
Best In Class – Education

Robert Larson serves as a Project Architect at Amenta Emma, with a focus on the Firm's Public K-12 work, Rob has a depth of experience with the OSCG&R approval process. His areas of expertise include program and code compliance, technical development, consultant coordination and construction administration.

Since joining Amenta Emma in 2005, Rob has served on all of the firm's K-12 project teams. Rob's work includes the renovation and modernization of Weaver High School in Hartford, CT which received a Best in Education CREW CT Blue Ribbon award in 2020, Quinebaug Middle College High School in Danielson, CT and the Pathways Academy of Technology and Design in East Hartford, CT. Rob brings to all his K-12 work a commitment to excellence and compliance with project criteria and regulated standards.

He is a leader in the Technology and Quality of Documents Committees. Rob actively mentors junior staff, sharing his technical expertise and advanced BIM knowledge.

WEAVER HIGH SCHOOL
Transformation (renovate-as-new) of a 1970's era 370,000-SF high school built for 2000 students into a modern, theme-driven school to accommodate 900 students in grades 9-12. Three theme offerings include: Richard J. Kinsella Magnet School for the Performing Arts, Journalism & Media Academy and High School Inc., Hartford's Insurance and Finance Academy, the curriculum for which is based on the National Academy Foundation Finance model.

CREC DISCOVERY ACADEMY
Full design and documentation for the renovation of a historic former manufacturing building in Hartford's Coltsville complex. The 48,000-SF structure was to be restored historically on the exterior, renovated on the interior and a multi-story addition constructed in the existing building courtyard of the building to provide a total of 75,000-SF including a new gymnasium and 500 seat auditorium. Amenta Emma completed all work following OSCG&R guidelines. Estimated cost: $18M.

ANNIE FISHER MONTESSORI AND STEM MAGNET SCHOOLS
The project included two new additions totaling 17,000-SF, consisting of a library/ media center, cafeteria, kitchen and a four-classroom wing. It also included a full renovation of the existing 102,000-SF building, originally constructed in 1966. The school is registered with the USGBC and was designed for the equivalency of LEED Silver Certification.

PATHWAYS ACADEMY OF TECHNOLOGY AND DESIGN
Located at the entrance of the Goodwin University campus, the 81,000 sf, $27.5M four-story building provides a variety of interactive learning environments in magnet-themed spaces such as robotics, advanced energy and nanotechnology, physics/ optics and photonics, video and music production, advanced design and virtual reality.

QUINEBAUG MIDDLE COLLEGE HIGH SCHOOL
An innovative magnet high school with a mission to support at-risk students by engaging them in the context of a college environment. Amenta Emma provided full architectural services, from Programming through CA, for a 40,000-SF addition to the college's main building and a 12,000-SF addition to the existing cafeteria and library.

CREC ANA GRACE ACADEMY
Full design and documentation for the renovation of a historic former manufacturing building in Hartford's Coltsville complex. The 48,000-SF structure was to be restored historically on the exterior, renovated on the interior and a multi-story addition constructed in the existing building courtyard of the building to provide a total of 75,000-SF including a new gymnasium and 500 seat auditorium. Amenta Emma completed all work following OSCG&R guidelines.

JOY M. ORTIZ-COLÓN, ASSOCIATE AIA, LEED GREEN ASSOCIATE

Project Architect

YEARS WITH AEA
1 Year
Full time Employee

EDUCATION
B. A. Arch, Cornell University
New York

CERTIFICATIONS
LEED Green Associate

OSHA 10 Certified

MEMBERSHIPS
AIAS, Cornell Secretary & Founding Member

GUEST CRITIC
University of Hartford

Boston Architectural College

MENTORSHIP
ACE Mentorship Program

• Hartford Team 1 Leader (2018)

• Mentor (2017) • Students' project won 3rd place on the National CIRT competition with "Riker's Redemption."

Joy M. Ortiz-Colón, Associate AIA, LEED Green Associate, serves as Project Architect to our Hartford team. Joy is a graduate of Cornell University's College of Architecture, Art, and Planning B.Arch program, and a founding member AIAS Cornell. With a focus on K-12, Higher Education, and Civic projects, Joy brings over 7 years of technical design and documentation experience to the firm. Joy is currently working with the academic team on the Smith College Science Center renovations. Joy is a member of the Amenta Emma JEDI team, and a member of AIA NOMAct. Previously with TSKP, Joy served as Project Manager and Project Architect for several K-12 schools, including the Dr. Martin Luther King, Jr. school, the new Farmington High School currently in construction academic, and the Barack H. Obama Magnet University School.

DR. MARTIN LUTHER KING, JR*
Originally known as Weaver High School, the building was redesigned in alignment with current programmatic needs and next generation learning environments. The building accommodates two Hartford Public School populations that have distinct and separate vertical/horizontal circulation but share significant core spaces such as auditorium, media center, and debate room. The Breakthrough Magnet School North serves 400 students, grades prek-5 and the Martin Luther King Jr. Middle School serves 400 students in grades 6-8. This project is a 140,000 SF with a budget of $111.1 million and was completed in 2020.

AWARDS:
2022 AIA Connecticut Design Merit Award, Interior Architecture
2022 Retrofit Metamorphosis Award, 3rd Place Whole Building Category
2022 Preservation Connecticut Award of Merit
2021 Connecticut Building Congress Project Team Award of Merit Cheshire Academy*

FARMINGTON HIGH SCHOOL*
Located in Farmington, CT on the same overall site as the existing occupied high school, the new 238,400 SF high school will serve grades 9-12 (1400 students) with a budget of $123.7million. The design of the school is organized on the concept of learning communities. Each learning community consists of classrooms and science rooms that open to a break-out space and contain additional small and large group teaming areas, and a central faculty workroom. The project is currently under construction. Estimated Completion 2024.

BARACK H. OBAMA MAGNET UNIVERSITY SCHOOL*
The City of New Haven, Barack H. Obama School and Southern Connecticut State University collaborated on the delivery of education to a unique population of students. This 21st century communication lab school utilizes a project-based approach in delivering global studies, language, and STEM curriculum while also supporting SCSU students in gaining pre-service teaching experience. This project is a 63,000 SF elementary school that serves grades Pre-K – 4th grade (490 students) with a budget of $32.5 million and was completed in 2019. In 2020 this project received the AIA Connecticut Design Merit Award for Educational Architecture

BRONX HIGH SCHOOL*
The Charter School will transform the historic beaux-arts style Old Bronx Borough Courthouse. The school, to be called Success Academy High School of the Liberal Arts—Bronx, will serve about 1,200 students (grades 9-12).

* Work completed at a previous firm

AMENTA|EMMA
ARCHITECTS

ROBERT H. ADAMS

Associate Principal
Interior Design

YEARS WITH AEA
22 Years
Full time Employee

EDUCATION
M. Arch., Syracuse University
B. Arch., North Carolina State University

AWARDS
International Design Awards - Architecture / Institutional: HCC Lafayette Hall

AIA Connecticut Design Awards - Institutional - Merit Award - 165 Capitol Avenue

CT Building Congress Project Team Awards - First Place: Major Ren.: HCC Lafayette Hall

CT Building Congress Project Team Awards - Project Team of the Year
CREC Discovery Academy

CT Building Congress Project Team Award: First Place K–12 - Discovery Academy

CREW CT Blue Ribbon Awards
Best Specialty Project - Adaptive Reuse - CREC Discovery Academy

IIDA New England Design Awards - Best in State, CT - CREC Discovery Academy

Rob Adams is a Senior Interior Designer in Amenta Emma's Academic and Workplace studios, with over 23 years of experience with the firm, Rob brings considerable expertise and a deep portfolio in the planning and interior design for academic learning environments.

Rob's current projects include the Krenicki Institute renovation at the University of Connecticut and lobby upgrades to Quinnipiac University's College of Communication and Engineering. His completed projects include the renovation and expansion of Lafayette Hall at Housatonic Community College, the renovation of Connecticut's State Office Building in Hartford, CT and The CREC Discovery Academy.

Past projects include several renovation projects at Loomis Chaffee School, the renovation of Lourdes and McGovern Halls at the University of Saint Joseph and the New Technology Building at Naugatuck Community College.

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PATHWAYS ACADEMY OF TECHNOLOGY AND DESIGN AT GOODWIN COLLEGE
Located at the entrance of the Goodwin University campus, the 81,000-SF, $27.5M four-story building provides a variety of interactive learning environments in magnet-themed spaces such as robotics, advanced energy and nanotechnology, physics/ optics and photonics, video and music production, advanced design and virtual reality.

LOOMIS CHAFFEE SCHOOL
An existing exterior 60' x 20' balcony was infilled with four new glass-defined group study and open lounge area. Floor to ceiling glass at the perimeter provides an open view to the natural landscape. Improvements to the Student Center focused on simplifying the color scheme, providing new furniture and reconfigured lighting, and improving circulation and functions of the major spaces.

ANNIE FISHER MONTESSORI AND STEM MAGNET SCHOOLS
The project included two new additions totaling 17,000 sf, consisting of a library/media center, cafeteria, kitchen and a four-classroom wing. It also included a full renovation of the existing 102,000-SF building, originally constructed in 1966. The school is registered with the USGBC and was designed for the equivalency of LEED Silver Certification.

QUINEBAUG MIDDLE COLLEGE HIGH SCHOOL
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AMENTA|EMMA
ARCHITECTS


U CAN CHANGE THE WORL

Douglas Lajoie PE, LEED AP, MCPPO

Vice President // Principal in Charge

Contact
dlajoie@ceseng.com

Experience
Consulting Engineering Services
1995-present
Prior: 9 years

Education
BS Electrical Engineering
University of New Haven
New Haven CT

Licenses
Professional Engineer
CT CA FL HI LA MD MA MI
NH NY NC RI SC TN VT VA

Memberships
ACE Mentoring Program

Building Commissioning Association of America (BCXA)

Illuminating Engineering Society of North America (IESNA)

US Green Building Council (USGBC)

Certifications
LEED Accredited Professional

MA Certified Public Purchasing Official (MCPPO)

Doug is a Founding Principal, Vice President and the Chief Operating Officer of CES. Confident, logical, and decisive, he leads the charge for countless projects in our portfolio. Always focused on the big picture, he guides projects in the right direction, providing oversight and ensuring that the detail work of our staff aligns with our client's overall goals. With solar panels in use at his own home, Doug is a huge proponent of sustainability and is knowledgeable about best practices in alternative energy. All this aside, he would really rather be traveling the globe or 100 miles offshore fishing for pelagic species.

RELEVANT PROJECT EXPERIENCE

Blue Hills Technical High School | Canton MA
342,000 sf | Renovation + On Call + Study

Bulkeley High School | Hartford CT
285,000 sf | Renovation

Danbury Career Academy | Danbury CT
285,000 sf | Renovation + Addition

Johnston High School | Johnston RI
162,500 sf | Renovation

Journalism + New Media High School | Hartford CT
79,000 sf | Renovate As New

Middleborough High School | Middleborough MA
166,000 sf | New Construction

Mt. Greylock Regional Middle + High School | Williamstown MA
133,000 sf | Renovations + Addition

Naugatuck High School | Naugatuck CT
302,000 sf | Renovate as New

Nonnewaug High School | Woodbury CT
150,000 sf | Renovate as New

Platt Technical High School | Milford CT
220,000 sf | New Construction

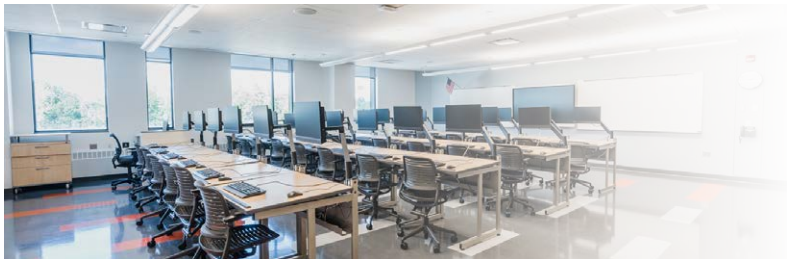
Stoughton High School | Stoughton MA
216,000 sf | New Construction

Waterbury Career Academy | Waterbury CT
150,000 sf | New Construction

Weaver High School | Hartford CT
271,000 sf | Renovate As New

Derek Bride LEED AP, MCPPO

Principal // Project Manager



Contact
dbride@ceseng.com

Experience
Consulting Engineering Services
2012-present
Prior: 6 years

Education
BS Mechanical Engineering
Central CT State University
New Britain CT

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

Certifications
LEED Accredited Professional

Massachusetts Certified Public Purchasing Official (MCPPO)

Paired with natural curiosity and optimism, this past president of ASHRAE CT envisions a LEED Platinum world, one that uses zero fossil fuels and blows away every energy code. With sustainability as his focus, Derek concentrates on identifying opportunities to exceed established local and ASHRAE energy efficiency standards in all his projects. This ideal extends to his home, which is filled with every available energy saving smart feature on the market. Derek aspires to a utopian future - one where he controls his entire world with merely the touch of a button. His house is so automated, we try to resist the urge to hack in to turn up the heat and see what's in the fridge!

RELEVANT PROJECT EXPERIENCE

Attleboro High School | Attleboro MA
480,000 sf | New Construction | Combines High School + Regional VoTech

Blue Hills Technical High School | Canton MA
342,000 sf | Renovation + On Call + Study

Bulkeley High School | Hartford CT
320,000 sf | Renovation + Addition

Danbury Career Academy | Danbury CT
285,000 sf | Renovation + Addition

Groton Middle School | Groton CT
155,000 sf | New Construction

Johnston High School | Johnston RI
162,500 sf | Renovation

Middleborough High School | Middleborough MA
166,000 sf | Study + New Construction

Mt. Greylock Middle + High School | Williamstown MA
133,000 sf | Renovation + Addition

New London High School | New London CT
292,000 sf | Renovate As New

Stoughton High School | Stoughton MA
216,000 sf | New Construction

Torrington Middle High School | Torrington CT
310,000 sf | New Construction

Weaver High School | Hartford CT
271,500 sf | Renovate as New

Waseem Khoury PE, LEED AP BD+C

Senior Mechanical Engineer

Contact
wkhoury@ceseng.com

Experience
Consulting Engineering Services
2022-present
Prior: 17 years

Education
BS Mechanical Engineering,
Power Engineering
Tishreen University
Lattakia, Syria

Licenses
Professional Engineer
CT

Certifications
LEED Accredited Professional
(BD+C)

Fluent in two languages, Waseem is a valued communicator on his team and in the office, always breaking down complicated concepts into digestible parts. Moreover, he is an active listener whose passion is to be a lifelong learner.

Stemming from a love of Meccano from his childhood, Waseem is heavily depended on for all things mechanical, and makes himself available for anyone to ask questions or get guidance on a project. Creative, detailed, patient, and driven, he solves complex scenarios by setting up measurable, achievable goals.

When he is not at work, you can find him at the tennis court, in the kitchen, or spending time with his wife and girls.

He is quick on his feet and quick in his wit, always ready with a quip right on target.

RELEVANT PROJECT EXPERIENCE

CREC Roger Wolcott Early Childhood School | Wolcott CT
10,000 sf | Renovation

Danbury Career Academy | Danbury CT
270,000 sf | Renovation
15,000 sf | Addition

E.B. Kennelly School | Hartford CT
89,376 sf | Renovation

Ella Grasso Technical High School | Groton CT***
250,000 sf | New Construction

Greens Farms Academy | Westport CT
Masterplan
6,000 sf | Renovation
2,500 sf | Addition

Seekonk High School | Seekonk MA
Music Room RTU Replacement

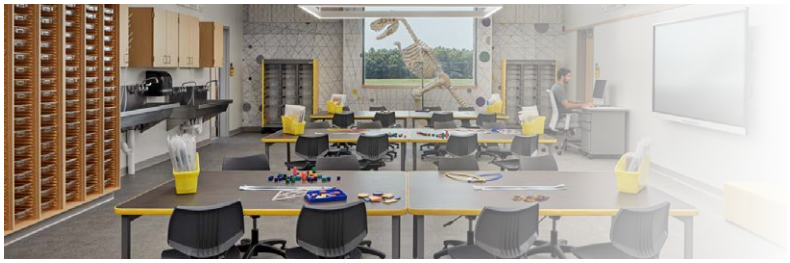
Stamford High School | Stamford CT
AHU Replacement

Windermere Elementary School | Ellington CT
95,000 sf | New Construction + Addition

***completed with previous firm

Matthew Couceiro MCPPO

Senior Electrical Engineer



Contact
mcouceiro@ceseng.com

Experience
Consulting Engineering Services
2015-present

Education
BS Electrical Engineering
Western New England University
Springfield MA

Certifications
Massachusetts Certified Public Purchasing Official (MCPPO)

Matt is our resident Revit wiz and "can-do" guy. If you've got a problem that needs a solution, he'll work on it until it comes out right (and maybe even a little more for good measure). With thorough comprehension of technical issues, and a genuine concern about getting every little detail in order, Matt nails it deadline after deadline. With an approachable and easy going style, he's a resource for technical and standards support in the office. If given the choice though, he'd work remote on a tropical island.

RELEVANT PROJECT EXPERIENCE

Blue Hills Technical High School | Canton MA
342,000 sf | Study + Renovation

CREC Aerospace Elementary School | Rocky Hill CT
110,000 sf | New Construction

Danbury Career Academy | Danbury CT
285,000 sf | Renovation + Addition

Groton Middle School | Groton CT
155,000 sf | New Construction

Martin Luther King K-8 School | Hartford CT
164,000 sf | Historic Renovation

Middleborough High School | Middleborough MA
166,000 sf | Study + New Construction

Mt. Greylock Middle + High School | Williamstown MA
133,000 sf | Renovation/Addition

Nonnewaug High School | Woodbury CT
160,000 sf | Renovate As New + Addition

Platt Technical High School | Milford CT
220,000 sf | New Construction

Stoughton High School | Stoughton MA
216,000 sf | New Construction

Delbert Smith, Jr PE, LEED AP, CEM

Principal // Senior Plumbing + Fire Protection Engineer // Energy Modeling

Contact
dsmith@ceseng.com

Experience
Consulting Engineering Services
1994-present
Prior: 8 years

Education
BS Mechanical Engineering
Syracuse University
Syracuse NY

Licenses
Professional Engineer
CA CT DC FL HI
KY MA MN MO NJ
NY OH PA RI VA VT

Memberships
US Green Building Council (USGBC)

American Society of Plumbing Engineers (ASPE)

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

National Fire Protection Association (NFPA)

Association of Energy Engineers

Certifications
LEED Accredited Professional

Certified Energy Manager (CEM)

Del is a founding principal of CES with 30 years' experience in HVAC, plumbing and fire protection design. Although interested in both architecture and engineering from an early age, a fascination with solar thermal systems motivated him to pursue a career in Mechanical Engineering at Syracuse University. Del's strengths lie in HVAC and thermal dynamics / heat transfer systems. With a driving desire to "make things work", when ordinary projects hit a roadblock, they usually end up on Del's desk, where he welcomes the challenge of figuring it all out. As an avid outdoorsman, Del is a seasoned surfer and snowboarder. He is also a 6th degree black belt in Karate.

RELEVANT PROJECT EXPERIENCE

Attleboro High School | Attleboro MA
480,000 sf | New Construction | Combines High School + Regional VoTech

Blue Hills Technical High School | Canton MA
342,000 sf |Study + Renovation

Bulkeley High School + Board of Education | Hartford CT
285,000 sf | Renovation

Bullard Havens Technical High School | Bridgeport CT
214,000 sf | New Construction

Danbury Career Academy | Danbury CT
285,000 sf | Renovation + Addition

Groton Middle School | Groton CT
155,000 sf | New Construction

Middleborough High School | Middleborough MA
133,000 sf | Renovation + Addition

New London High School | New London CT
225,000 sf | Renovate As New

Nonnewaug High School | Woodbury CT
160,000 sf | Renovate As New + Addition

Stoughton High School | Stoughton MA
216,000 sf | New Construction

Torrington Middle High School | Torrington CT
310,000 sf | New Construction

Weaver High School | Hartford CT
271,000 sf | Renovate as New

Firm Profile & Resume

Mike Pirollo, ALEP

Years Experience

6 Years
Educational Planner

17 Years
Public School Educator

Education

BACHELOR OF ARTS
Education & Communications
Rider University
1998 - 2002

MASTERS OF SCIENCE
Technology in Education
Lesley University
2009-2011

ADVANCED ACADEMY FOR LEARNING ENVIRONMENT PLANNING
San Diego State University
2018

Credentials

Accredited Learning Environment Planner
Association for Learning Environments
2018

English, Grades 5-12
Initial License

ABOUT

My Learning Place (MLP) Integrated Design is dedicated to maximizing the educational capacity of teachers and students. At MLP, we believe engaging and authentic learning experiences stem from an integrated design approach, one that challenges educators and architects to view teaching and learning from a 4-point intersection where....

curriculum
instruction
learning and
the learning environment
collide.

Through targeted visioning, planning, programming, and professional development, MLP supports educators and architects looking to improve the design of the learning experience and/or the design of the learning environment itself. With an in-depth look at a school or district's current and desired educational landscape, we build roadmaps for future improvements, integrating curriculum, instruction, learning, and the learning environment.

Mike Pirollo, founder and Principal of MLP is an Accredited Learning Environment Planner (ALEP) as designated by the Association for Learning Environments. Prior to his work in educational planning and design, Mike served as a public school teacher for nearly 20 years, holding positions including middle school English/drama teacher, high school TV production teacher, and elementary technology integrator/media specialist. As a licensed educator and educational planner, Mike brings a unique, on-the-ground passion and perspective to all things teaching and learning.

SERVICES

- Educational and community visioning
- School and district strategic planning
- Learning landscape assessment
  - Facility focus (conditions, space use, capacity/enrollment analysis)
  - Teaching and learning focus (curriculum, pedagogy, student/staff experience)
- Programming and space planning
- Learning environment design
- Professional development
- Curriculum design

My Learning Place Integrated Design
Newburyport, MA 01950

mlpid.com | mike@mlpid.com
215.630.6831

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- Completely Independent Firm
- More than 1,600 Facility Projects Since Inception

Crabtree McGrath ASSOCIATES, INC.

Our Company

Breadth of knowledge, creativity and sound judgment are the underpinnings of Crabtree McGrath Associates, Inc., the nation's leading foodservice equipment planning and consulting firm.

Our independent approach focuses solely on delivering successful foodservice equipment programming and design based on the needs of our clients. Our highly-regarded design philosophy and economically-feasible solutions utilizing the industry's most advanced architectural and design technologies.

John Sousa, Principal

> "From design, documents, creativity and follow through, CMA is a great and reliable partner who are consummate professionals in the foodservice design industry."
>
> – DERUYTER O. BUTLER, A.I.A, WYNN DESIGN & DEVELOPMENT

Our History

Founded in 1955 by Samuel Crabtree, Crabtree Associates was a pioneer in the field of independent equipment consulting—designing facilities for a wide range of clients. Robert McGrath joined the firm in 1965, and Crabtree McGrath Associates, Inc. has since solely specialized in foodservice equipment planning.

John Sousa joined the firm in 2001. He soon became President and today, with nearly 30 years of commercial foodservice consulting experience leads the company's strategic vision into the 21st century with continued pride and focus on creative thinking and a strong work ethic.

Our Services

With our team of specialists, Crabtree McGrath Associates has the technical resources and extensive experience to provide a full range of services including:

- Feasibility studies
- Space programming
- Cost estimates
- Design and construction documents for new or renovated facilities
- Operational analysis

These services include coordinated design phases that are examined, planned, and executed with the best interest of the client as a measure of acceptability.

Our Commitment

With dedication to the best possible service, we make successful facilities and satisfied clients our goal. Crabtree McGrath Associates is an independent firm with no commercial sales or franchise relationships that influence the choice of which system or product will best serve our client's particular needs.

crabtree-mcgrath.com | 978-352-8500

John Sousa
PRINCIPAL

Experience

With more than 25 years of experience in foodservice consulting, John Sousa's work includes private- and publicly-funded global projects of varying size and complexities. Working within many industries including corporate, K-12 and higher education, healthcare, assisted living, culinary arts, restaurants, military and correctional facilities.

Prior to joining Crabtree McGrath Associates, Inc., John was employed as a Foodservice Design Engineer and Equipment Planner for Paramount Restaurant Supply in Warren, Rhode Island.

There he worked to design and supply foodservice equipment to a wide range of clients across many market segments. Projects included nationwide and regional retail concept rollouts for well-known companies such as Dunkin Donuts and Smith & Wollensky, also assisted living facilities, independent retail, and other institutions.

After honing his technical skills preparing millwork and stainless steel production documents, as well as his design, sales, and project management expertise, John transitioned from the design-sell model into the field of independent equipment consulting. In 2001, John acquired Crabtree McGrath Associates, Inc.

Education

New England Institute of Technology
Bachelor of Science in Architectural Engineering, 1998

Memberships & Associations

John is a member of the local chapter of Foodservice Consulting Society International (FCSI), an organization born from the Food Facilities Consultants Society (FFCS) and founded in part by Samuel Crabtree, the original owner of Crabtree McGrath Associates, Inc. John has also served as Treasurer and Secretary of the New England Chapter of Foodservice Consultants Society International.

Awards

2013

- Boston Society for Architecture
  Harleston Parker Medal
  Roger E. Wellington Elementary School
  Belmont, Massachusetts

2011

- Crew CT
  The Real Estate Exchange
  Blue Ribbon Award for Interior Design
  Aetna World Headquarters Dining Facility
  Hartford, Connecticut

2006

- **Boston Preservation Alliance Award**
  Smith & Wollensky, at the Amory
  Boston, Massachusetts
- IAP
  Food Facility Design Award
  Legal Seafood, Chestnut Hill
  Newton, Massachusetts

Crabtree McGrath ASSOCIATES, INC.

A Trusted Name in Foodservice Consulting for Over 65 Years

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d'agostino & ASSOCIATES
Technology – Security – Audio Visual

PROFESSIONAL RESUME

Marc J. D'Agostino
Founder, CEO

As Founder and CEO of D'Agostino & Associates, Marc brings over 30 years' experience assessing, designing, and managing the implementation of client-specific and relevant technology solutions for the built environment. Marc founded D'Agostino & Associates to bridge the gap between Technology expertise and Design / Constructability expertise, providing clients seamless solutions that encompass and support the wide range of technology systems and functionality needed in today's modern spaces.

Marc has led the technology design for multiple $100M budget projects and is frequently sought for high-profile, atypical projects that require elegant technology solutions. By instilling a culture of collaboration and constant learning at D'Agostino & Associates, he has created a team of experts that consistently evolve with the latest technology trends to best support clients and their visions.

VALUE OFFERED:

- Security System Design
- Audio-Visual System Design
- Technology System Design
- Data Center Design
- Commissioning
- Strategic Planning
- Project Management
- Peer Reviews
- Feasibility Studies
- Master Plan Creation
- Construction Administration
- Cost Estimating

EXPERTISE & PROFESSIONAL AFFILIATIONS:

- Member of ASIS International (American Society for Industrial Security)
- Member of BICSI (Building Industry Consulting Service International)
- Comprehension of the ANSI/TIA/EIA, ISO/IEC, BICSI and the IEEE standards.
- Knowledge of the NEC, NFPA & NECS codes that apply to low voltage systems; including the data, telecommunication, security and AV industries.
- Past and ongoing accredited training and affiliations ensure that all technology designs conform to the current industries standards.

PROFESSIONAL EXPERIENCE:

Marc has spearheaded numerous projects involving Technology, Security and Audio-Visual systems in Higher Education, Municipality, Libraries, State, Federal, Healthcare, Corporate, Retail, and the Private Sectors. Highly adept at directing projects commanding time-critical and new technologies, transitioning from outdated technologies to highly functional, efficient, and cost-effective solutions. The scope of Marc's experience includes project management and lead design responsibilities for multi-million dollar projects throughout North America, including projects with more than $3 Billion in construction costs.

PROFESSIONAL RESUME

Nicholas A D'Agostino, RCDD, PSP, PMP, TLT

Sr. Manager, System Design

As Sr. Manager of System Design, Nicholas leads all design and project management efforts for D'Agostino & Associates. With over a decade's experience designing converged, project-specific Technology, Electronic Security, and Audio-Visual systems, Nicholas is an expert directing project teams in designing clear, concise, and applicable systems for the built-environment that are both client-specific and cutting edge. Constantly evolving with the newest technologies, mandates, and best practices, he is highly skilled at taking complex technology requirements and seamlessly integrating them into any project. As design lead for all major projects within the firm, his skill set of effective communication with all stakeholders to ensure each systems successful implementation is highly valued on all engagements.

Nicholas is a Board-Certified Physical Security Professional (PSP) and Registered Communications Distribution Designer (RCDD). He has been published in Security Management (ASIS) and acted as a contributor to ASIS' latest Protection of Assets (2021).

VALUE OFFERED:

- Security System Design
- Audio-Visual System Design
- Technology System Design
- Data Center Design
- Commissioning
- Strategic Planning
- Project Management
- Peer Reviews
- Feasibility Studies
- Master Plan Creation
- Construction Administration
- Cost Estimating

CERTIFICATION & PROFESSIONAL AFFILIATIONS:

- Registered Communication Distribution Designer (BICSI Certification – RCDD #276281)
- Certified Physical Security Professional (ASIS Certification – PSP #19011)
- Certified Project Management Professional (PMI Certification – PMP #1786569)
- State of Connecticut Licensed Telecommunications Layout Technician (TLT License - #126)
- Multiple courses with FEMA
- Graduate of Berklee College of Music
- Member of ASIS International (American Society for Industrial Security)
- Member of BICSI (Building Industry Consulting Service International)

PROFESSIONAL EXPERIENCE:

The scope of Nicholas's experience includes project management and lead design responsibilities for multiple $100 Million projects throughout North America, including projects with more than $3 Billion in construction costs. By overseeing hundreds of projects during his time with D'Agostino & Associates, he has developed a wide range of skills required to properly design and specify low-voltage systems for the built environment. Sectors of engagement include Public / Private K-12, Higher Education, Health Care, Corporate, Municipal, Non-Profit, Retail, Performance, and Cultural Institutions.

Cavanaugh Tocci

FIRM PROFILE

Cavanaugh Tocci was cofounded in 1975 by William J. Cavanaugh and Gregory C. Tocci to serve the growing need for technical expertise and consulting services in architectural, industrial, environmental acoustics, and audiovisual system design and theater consulting. Our consulting staff of 16 hold advanced degrees in architecture, acoustics, physics, electrical and mechanical engineering, and is supported by a full complement of measurement and analysis instrumentation. The diverse experience of the staff members allows us to develop creative solutions to problems using an interdisciplinary approach.

The service objective is to provide practical, cost-effective, and timely consulting advice on all types of sound and vibration problems and system design. Cavanaugh Tocci has completed thousands of consulting assignments ranging from brief consultations of a few hours to extended projects spanning several years.

Most school projects address one or more of the following disciplines:

- Architectural Acoustics
- Sound Isolation – classrooms, music rooms, gymnasiums
- Mechanical System Noise and Vibration Control
- Audiovisual System, Design, Specification and Evaluation

CTA project experience includes elementary, middle, and high schools, both public and private. We review the drawings and specifications at several stages of completion and provide recommendations and review comments, and we have experience with submittals for LEED, CHPS, and other building certification systems

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CAVANAUGHTOCCI

Alexander G. Bagnall

PRINCIPAL CONSULTANT

Alex is a Principal Consultant specializing in both audiovisual system design, theatre planning and system design. His projects typically involve design consulting and system layout for audiovisual, lighting, lift, and rigging systems. Theatre planning projects include designs for audience volumes as well as backstage support areas. Typical projects include performing arts and theatre spaces, school multi-purpose spaces, courthouses, and worship spaces.

EDUCATION

Yale School of Drama, MFA Technical Design and Production, 2000
Oberlin College, BA Theater, 1993

EXPERIENCE

Cavanaugh Tocci Associates, Inc. | 2007 – Present
System Designer and Project Manager, High Output Inc. | 2006 – 2007
Technical Designer, Auerbach Pollock Friedlander | 2002 – 2006
Assistant Production Manager, Kimmel Center for the Performing Arts | 2000 – 2002

PROFESSONAL AFFILIATIONS

Certified Technology Specialist – Design (CTS-D), InfoComm International

FACULTY POSITIONS

Yale School of Drama, Lecturer in Technical Design and Production | 2009 - 2020

REPRESENTATIVE PROJECTS

- Boston Arts Academy, Boston, MA
- Milton Hershey School, Founders Hall Renovation, Hershey, PA
- Arlington High School, Arlington, MA
- Sharon High School, Sharon, MA
- University of Rochester, Sloan Performing Arts Center, Rochester, NY
- Clark University, Little Theater Renovation, Worcester, MA
- Phillips Andover Academy, Tang Theater Renovation, Andover, MA
- Phillips Exeter Academy, Bowld Recital Studio, Exeter, NH
- Norwich University, Dole Auditorium, Northfield, VT
- Assumption College, Tsostis Family Academic Center, Worcester, MA
- Worcester State University Wellness Center, Worcester, MA
- Albany High School, Albany, NY
- Greenfield Court House, Greenfield, MA
- Northeastern University Visitor Center, Boston, MA

JEFF PERRAS, P.E.

Sr Project Manager

EDUCATION

Worcester Polytechnic Institute, Worcester, MA
Master of Science, Fire Protection Engineering,
May 2008
Bachelor of Science, Civil Engineering,
May 2006

PROFESSIONAL AFFILIATIONS

National Fire Protection Association (NFPA)
Society of Fire Protection Engineers (SFPE)
CT Registered Fire Protection Engineer #0031020
MA Registered Fire Protection Engineer #49000

CONTACT

154 Turnpike Road, Suite 200
Southborough, MA 01772
(508) 669-7552
JeffP@crcfire.com

CODE RED CONSULTANTS

PROFESSIONAL EXPERIENCE

Jeff Perras is a professional fire protection engineer and Sr Project Manager with Code Red Consultants. During his career Mr. Perras has been assisting building owners, architects, and engineers with achieving compliance with local, state, and federal codes and standards. He has provided code consulting services on a range of projects including high-rise office and residential buildings, laboratory facilities, athletic centers, academic buildings, shopping malls, campus centers, historic buildings and educational facilities. Mr. Perras regularly works with clients and authorities having jurisdiction to develop prescriptive code compliance strategies and provide solutions for complex fire protection and life safety issues, which incorporate performance based design or other alternative means and methods. He has significant experience performing existing building evaluations, accessibility audits, reviewing architectural and engineering drawings, master planning, and third party reviews.

Mr. Perras has provided fire protection engineering and life safety code consulting services on a variety of K-12 buildings in the United States. Elementary school buildings present unique code challenges because they are used in a variety of ways both during normal hours and after hours with occupant who may or may not be familiar with the building. Building security is a top priority that needs to be carefully considered when designing egress and plumbing fixtures for the various uses of the building. His services regularly entail developing comprehensive code compliance reports, preparing life safety plans, and reviewing architectural and engineering drawings for code conformance. His experience is diverse and includes both new construction and renovation projects.

RELEVANT PROJECTS

Bulkeley High School, Hartford, CT

Ox Ridge Elementary School, Darien, CT

Groton Middle School, Groton, CT

Torrington Middle/High School, Torrington, CT

Stoneham High School, Stoneham, MA

Johnston Public Schools Stage II, Johnston, RI

Winters Elementary School, Pawtucket, RI

Rogers High School, Newport, RI

KEVIN LYNCH, P.E.

Project Manager

EDUCATION

Worcester Polytechnic Institute, Worcester, MA
Bachelor of Science, Mechanical Engineering, May 2017
Worcester Polytechnic Institute, Worcester, MA
Master Fire Protection Engineering, 2018

PROFESSIONAL AFFILIATIONS

Registered Fire Protection Engineer MA#56155

CONTACT

154 Turnpike Road, Suite 200
Southborough, MA 01772
617-500-4473
klynch@crcfire.com

CODE RED CONSULTANTS

PROFESSIONAL EXPERIENCE

Kevin Lynch is a fire protection engineer and a Project Manager with Code Red Consultants. The focus of his work is to provide fire protection and life safety code consulting services to architects, designers, building owners, and end users. He is familiar with all local, state, and federal building, fire, and life safety codes. His project work has included privately owned facilities, local, state, and federally funded projects.

His experience includes performing existing building surveys and evaluations, reviewing architectural and engineering drawings, generating comprehensive fire protection and life safety code reports for new and existing buildings as well as developing fire safety plans. He is experienced in developing high-quality, intuitive, and actionable memorandums and graphics to quickly address client questions and needs.

Mr. Lynch has provided fire protection engineering and life safety code consulting services on a variety of K-12 Educational buildings in New England. He understands the code challenges these occupancies can present based their concentrated occupant loads, interconnected floor levels, and flexible use spaces. His services regularly entail developing comprehensive code compliance reports, preparing life safety plans, and reviewing architectural and engineering drawings for code conformance. He is experienced in developing high-quality, intuitive, and actionable memorandums and graphics to quickly address client questions and needs.

PROJECT EXPERIENCE

Ox Ridge Elementary School, Darien, CT

Torrington Middle/High School, Torrington, CT

Bulkeley High School, Hartford, CT

Winters Elementary School, Pawtucket, RI

Johnston PS Phase III High School, Johnston, RI

Excel Academy Peace Street Feasibility Study, Providence, RI

Blackston Valley Prep, Cumberland, RI

Stamford Hospital 2017 SOC, Stamford, CT

MATHIEU HOPKINS
INTERIOR DESIGN

Christine Hopkins LEED AP
Mathieu Hopkins Interior Design LLC
Principal/Owner Interior Designer
2121 Durham Road
Madison, CT
christine@mathieuhopkinsdesign.com
CHopkinsdesign@aol.com
203-605-6960

Professional Description
Commitment Time 100%

Interior designer with experience in commercial and educational environments. Collaborate with architects, developers and clients to fit out new space and/ or renovate existing buildings.

Technical and Professional Experience:
Project management planning, space analysis, schematic designs, floor plans, budget creation, standardization programs, interior finishes, furniture specifications, material and finish selections, and procurement installation coordination.

Furniture, Fixtures and Equipment Consultant FF&E - Educational and Commercial Buildings

Certification's and License

AutoCAD Design
Licensed Interior Designer State of Connecticut since 1985 # 00535
LEED Accredited Professional Certificated 2009
Women Owned Business Enterprise Registered in State of Connecticut
Women Owned Business Enterprise Registered in State of
Rhode Island
Design Services offered by State Contract Vendor # 10PSX0233

Mathieu Hopkins Interior Design LLC **1985- Present**
Principal/ Interior Designer LEED AP

Client List:

SLAM Collaborative Inc.
Glastonbury, CT

- Weaver High School FF&E
- Journalism and Media Academy High School FF&E
- Asian Academy Pre-K – 8th FF&E
- Metropolitan Business Academy High School Procurement and Implementation
- Celantano School Procurement and Implementation

Smith Edwards McCoy Architects
Hartford, CT

- CREC Museum Academy CREC Pre-K – 5th Grade FF&E & Interior Finishes
- Universality of Hartford (3) Auditoriums FF&E & Interior Finishes
- Newton High School Auditorium FF&E & Interior Finishes
- West Middle Pre-K –8th Grade FF&E
- MD Fox School Pre-K –8th Grade FF&E

Amenta/Emma Architects
Hartford, CT

- Housatonic Community College FF&E
- Weaver High School FF&E
- Ana Grace Arts Academy Pre-K – 5th Grade FF&E
- Discovery Academy Pre-K – 5 Grade FF&E (2016 IIDA Interiors Award)
- Academy for Advanced Design and Technology at Goodwin College High School FF&E
- Annie Fisher Montessori/STEM School Pre-K – 8th FF&E
- Naugatuck Community College FF&E
- Hooker Elementary Pre-K – 2nd Grade FF&E

Connecticut Mental Health Center
New Haven, CT

- Renovation of a Mental Health and Addiction Building

Landmark Architects/URS ~ Paul Pizzo Architects
East Haven, CT

- CT Regional Water Authority
- Breakthrough Magnet Pre-K – 8th FF&E
- Sound School Design High School FF&E
- Nathan Hale School Pre-K – 8th FF&E
- Development and Implement New Haven School Standardization Program
- Gorham Town Hall, N.H. Interior Renovations and Design
- State Office DAS Renovation of 365 Capitol Ave 5th floor

Sensor Switch Headquarter
Wallingford, CT

- Interior Designer Complete Interiors and Furnishings

Practical Energy Solutions (PES) Headquarter
Wallingford, CT

- Interior Designer Complete Interiors and Furnishings

Pelli Clarke Pelli Architects Inc.
New Haven, CT

- Corporative Arts and Humanity High School FF&E Consultant

Roth and Moore Architects
New Haven, CT

- Hooker Elementary 3rd – 8th FF&E Consultant

VAMSHI GOOJE, LEED AP BD+C, BEMP, CEM

Associate Principal

Project role

Technical lead / energy modeling

Summary

Vamshi Gooje joined Thornton Tomasetti in 2004 and leads the Building Analytics group for the Sustainability practice. He is responsible for the strategic growth and development of initiatives for the team and advises clients on green building strategies and technologies. He has extensive experience in energy analysis and sustainability consulting for projects the range from renovations to new construction, for commercial, residential and educational buildings and research facilities. Vamshi is an expert in building science related to whole building energy, daylighting and thermal comfort and is proficient in energy simulation engines, including EnergyPlus, DOE 2.2 and Radiance.

Education

- M.S., Building Design, 2004, Arizona State University
- B.Arch, 2000, Jawaharlal Nehru Technological University, India

Registrations

- LEED AP BD+C
- Building Energy Modeling Professional (BEMP), ASHRAE
- Certified Energy Manager (CEM), The Association of Energy Engineers

Professional activities

- NYSERDA Energy Code Delphi Expert
- Member, Advisory Board, Architalx

Select project experience

Town of Swampscott Hadley Elementary School, Swampscott, MA. Energy analysis for a 153,254-square-foot Net Zero Energy school. Scope includes design assistance energy analysis, LEED energy modeling, and MA energy code compliance modeling. Project is tracking ultra-low EUI of 25.9 kBTU/sf-yr and 23% saving from the 9th edition MA stretch code. Thornton Tomasetti worked with the design team to achieve a high sustainability in an economical fashion by using integrated energy analysis throughout the design phase. The analysis helped incorporate several energy saving strategies, including an optimized envelope system, reduced air infiltration, advanced plug-load management plans, and an highly-efficient HVAC.

Acton-Boxborough Regional High School, Acton, MA. Energy and LEED consulting for a 327,000-square foot school housing 1,837 students. The building is targeting triple net zero [energy, waste and water]. Scope included triple net zero workshops and feasibility studies. The engineers performed detailed analysis of whole building architectural and HVAC system parameters, to improve the building's systems performance.

S Completed in collaboration with SLAM

Torrington New Middle / High School and Central Office Administration, Torrington, CT. Sustainability consulting for a new middle and high school building and office space totaling 280,000 square feet. S

Ox Ridge Elementary School, Hartford, CT. Building analytics consulting services for a 115,000-square-foot elementary school targeting high performance goals leading to ultra-low energy use or potentially a Zero Energy building. Consulting services for Eversource incentive program. The project aims to optimize energy performance while maximizing occupant comfort with a variety of sustainability strategies. It targets a maximum Site Energy Use Intensity of 30 kbtu/sf/yr. S

Bulkeley High School, Hartford, CT. Building analytics consulting for a 585,000-square-foot high school renovation and additions targeting high performance goals leading to low energy use. Consulting services for Connecticut High Performance Building Standards and Eversource incentive program. Project aims to optimize energy performance for an existing building with integrated sustainability strategies. S

New London High School, Addition, New London, CT. Sustainability services to add a 42,222-square-foot addition. Scope included design assistance energy model, CT High Performance Building Standards energy modeling, CT Energy Code modeling, and Eversource Incentive modeling.

Douglas-Gates Elementary School, Acton, MA. Net zero energy, net zero water, net zero waste and LEED consulting services for twin K-5 schools that total 178,000-square-feet and serve more than 900 students. Scope includes facilitating net-zero workshops and feasibility studies as well as performing detailed analysis of whole-building architectural and HVAC systems, to achieve a high-performance building system design EUI of 25 or lower. The building uses a combination of innovative strategies such as geothermal walls, solar PV, on-site battery storage and stored reusable rainwater.

Thornton Tomasetti

XIAOSHU (SUNNY) DU, LEED AP BD+C, WELL AP

Senior Project Director

Project role

Project manager

Summary

Sunny joined Thornton Tomasetti in 2015 and brings six years of energy modeling experience to the Sustainability practice. She specializes in collaboration with architects to promote energy efficiency throughout project designs by using her expertise in energy modeling, incentive programs, special certifications and CFD studies. Sunny has provided energy modeling services on numerous complex-systems projects for public and private sector clients, totaling well over one million square feet.

Education

- Master of Environmental Studies, 2015, University of Pennsylvania
- Bachelor of Architecture and Environmental Studies, 2012, Iowa State University

Registrations

- LEED AP BD+C
- WELL AP

Select project experience

Ox Ridge Elementary School, Hartford, CT. Building analytics consulting services for a 115,000-square-foot elementary school targeting high performance goals leading to ultra-low energy use or potentially a Zero Energy building. Consulting services for Eversource incentive program. The project aims to optimize energy performance while maximizing occupant comfort with a variety of sustainability strategies. It targets a maximum Site Energy Use Intensity of 30 kbtu/sf/yr. S

Bulkeley High School, Hartford, CT. Building analytics consulting for a 585,000-square-foot high school renovation and additions targeting high performance goals leading to low energy use. Consulting services for Connecticut High Performance Building Standards and Eversource incentive program. Project aims to optimize energy performance for an existing building with integrated sustainability strategies. S

Torrington New Middle / High School and Central Office Administration, Torrington, CT. Sustainability consulting for a new middle and high school building and office space totaling 280,000 square feet. S

Mt. Greylock Regional High School, Williamstown, MA. LEED consulting and energy modeling for renovation of and an addition to a high school. Project achieved LEED v.4 Silver. S

Greenwich Country Day School Middle School, Greenwich, CT. LEED consulting, net zero consulting, energy modeling, daylight analysis, whole building modeling and concept modeling for a 50,000-square-foot lower building, incorporating an existing 10,000-square-foot, wood-framed house.

Douglas-Gates Elementary School, Acton, MA. Net zero energy, net zero water, net zero waste and LEED consulting services for twin K-5 schools that total 178,000-square-feet and serve more than 900 students. Scope includes facilitating net-zero workshops and feasibility studies as well as performing detailed analysis of whole-building architectural and HVAC systems, to achieve a high-performance building system design EUI of 25 or lower. The building uses a combination of innovative strategies such as geothermal walls, solar PV, on-site battery storage and stored reusable rainwater.

Hackley School, Johnson Center for Health and Wellness, Tarrytown, NY. Façade engineering, energy consulting, analysis and LEED certification support for a 115,000-square-foot complex serving K-12 students with spaces for basketball, cardio-fitness, fencing, wrestling, running, as well as an eight-court squash center and eight-lane, 25-yard swimming pool. Support spaces include locker rooms, coaches' offices, training rooms and classrooms. The LEED-Gold-certified building has metal panel systems at four pavilions and features several captured aluminum and glass curtain walls.

Mattacheese Middle School, Yarmouth, MA. Sustainability consulting, energy modeling and design assistance services for a 200,000-square-foot middle school. The project targets aggressive energy goals, potentially achieving a Net Zero Ready status. The project is pursuing LEED-Silver certification.

Lowell High School, Lowell, MA. Energy modeling and design assistance for an addition and renovation work on the structure at a 400,000-square-foot high school. The project is expected to meet Mass Stretch Code and perform 20% better than ASHRAE 90.1.2007. The project is pursuing LEED certification.

S Completed in collaboration with SLAM

Thornton Tomasetti

Counsilman · Hunsaker
AQUATICS FOR LIFE

Getting to Know Us

History

Counsilman-Hunsaker was founded in 1970 as a collaboration between a world-famous swimming coach and one of his former athletes. Through his coaching career and extensive writings, James E. “Doc” Counsilman, Ph.D., revolutionized the swimming world through research and innovation, training numerous Olympic and National champions along the way. One was Joe Hunsaker, a former three-time National Champion and World Record holder. With Doc Counsilman serving primarily in a consulting role, Joe Hunsaker developed the firm into one of today’s foremost authorities on design and operation of aquatic facilities.

What Sets Us Apart

For more than 50 years, Counsilman-Hunsaker has provided design and operational consulting for thousands of national and international aquatic projects of every size and complexity. Our portfolio includes newly designed and renovated pool projects for many market sectors: Parks & Recreation, Education, Hospitality and Wellness. Project types range from competition venues, leisure pools and waterparks to therapy pools and spas.

In addition, we have completed hundreds of Facility Audits and Feasibility Studies for the development of new or existing facilities and, having studied a multitude of facilities, we help our clients benchmark the creation of their new facilities and complete them efficiently.

Counsilman-Hunsaker is made up of an integrated team of design professionals and operational specialists with unrivaled aquatic industry experience. Our team brings exceptional collaboration skills and new project designs for the delivery of a high-quality, innovative aquatic facility. Our operational specialists will not only help our clients prepare for a successful launch, but will serve as their guide in achieving long-term operational success.

Full Circle of Expertise

Counsilman-Hunsaker offers a full circle of aquatic services from existing facility evaluation to comprehensive concept development; from project visioning through design, engineering and construction administration to business management and aquatic operations. These services are completely customized and configured in a variety of ways to precisely fit the needs, desires and objectives of the owner/operator and the project team.

Counsilman·Hunsaker
AQUATICS FOR LIFE

Carl Nylander, P.E.
Principal

EDUCATION
Georgia Institute of Technology
2003
Bachelor of Science
Mechanical Engineering

YEARS OF EXPERIENCE
With Counsilman-Hunsaker
2004 - Present

PROFESSIONAL REGISTRATIONS
CT, DE, MA, MI, MO, NH, NJ

RELEVANT PAST EXPERIENCE
2002 - 2003
Assistant Swim Coach
Georgia Institute of Technology

1998 - 2002
Competitive Swimmer
Georgia Institute of Technology
Team Captain in 2002

CERTIFICATIONS/AFFILIATIONS
Professional Engineer - Mechanical

Model Aquatic Health Code - Facility Design & Construction Technical Committee Chairman: 2009 - 2013

Conference for Model Aquatic Code -
- Technical Review Committee Chairman: 2015 & 2017
- Board of Directors: 2017 - Present

Certified Pool/Spa Operator - PHTA

Two-Time Power 25 Recipient, Most Influential Industry Professionals, *Aquatics International.*

PROFESSIONAL BACKGROUND
Carl Nylander is an award-winning designer experienced with projects serving municipalities, universities, YMCAs, school districts, and hospitality establishments. With specific emphasis on projects in the northeastern region of the United States, Carl has demonstrated an ability to lead diverse groups through the planning, design, and construction process. As a former competitive collegiate swimmer, coach, lifeguard, and instructor, his insight of the aquatics industry provides practical, cost-effective, and efficient designs along with a unique understanding of aquatic programs and their requirements. In each project, Carl is responsible for the design of all swimming pool mechanical systems. In addition to his design responsibilities, Carl has served as the Chairman for the Facility Design & Construction Technical Committee as a part of the Model Aquatic Health Code overseen by the Centers for Disease Control from 2009 through 2013 and is now sits on the Board of Directors for the Conference for the Model Aquatic Health Code.

RECENT AWARD-WINNING DESIGNS
Facilities of Merit Award, *Athletic Business*
- Shane Holmes at Rocky Ridge Calgary, 2018
- Auburn University - AL, 2014
- University of Connecticut - 2021
- Colby College Recreation Center - 2021
- Hackley School - 2021

Outstanding Sports Facility Award, NIRSA
- Colby College - Harold Alfond Athletics and Recreation Center – 2022

Honorable Mention Award, Learning by Design
- Malcom X College - IL, 2018

NOTABLE PROJECTS
2015 Pan American Games - Toronto - ON
Anderson High School - Southgate - MI
Boston Celtics Training Facility - Red Auerbach Center - Boston - MA
Boston College - Margot Connell Recreation Center - Chestnut Hill - MA
Bulkeley High School Natatorium - Hartford - CT
Colby College - Harold Alfond Athletics and Recreation Center - Waterville - ME
Derry Township - New Community Recreation Building - Derry - PA
Federation of Italian - American Organizations - Brooklyn - NY
Ford Woods Pool - Dearborn - MI
Georgia Institute of Technology - Football Training Center - Atlanta - GA
GLOW YMCA and Rochester Regional Health - UMMC - Healthy Living Campus - Batavia - NY
Grand Blanc High School Natatorium - Grand Blanc - MI
Hackley School - Walter C. Johnson Center for Health and Wellness - Tarrytown - NY
New York University - New York - NY
Northwestern University - Walter Athletics Center Football Training Center - Evanston - IL
Oberlin College - Carr Natatorium - OH
Parkview Health YMCA - Warsaw - IN
Remington YMCA - Quarry Park Recreation Facility - Calgary - AB
Rolling Hills Park Aquatic Center - Peters Township - PA
Rhode Island College - Campus Recreation Center - Providence - RI
Shane Homes YMCA at Rocky Ridge - Calgary - AB
Syracuse University - The Barnes Center at The Arch - Syracuse - NY
The Cove at Piazza - Philadelphia - PA
The Hawk Recreation Center - Farmington Hills - MI
University of Connecticut - Student Recreation Center - Storrs - CT
University of Michigan - Football Performance Center - Ann Arbor - MI
University of North Carolina - Student Recreation Center - Wilmington - NC
University of Texas - Eddie Reese Outdoor Pool - Austin - TX
University of Virginia - North Grounds Recreation Center Expansion - Charlottesville - VA
Washtenaw Intermediate School District Natatorium - Ann Arbor - MI
West Virginia University - Milan Puskar Center Football Training Facility Center - Morgantown - WV

PM&C

Partnering for quality results

DENISE KELLY

SENIOR ESTIMATOR

Denise has over 25 years of pre-construction estimating experience. For the majority of her career, she has worked in the national collegiate, healthcare and life science markets while more recently focusing in the public education and municipal markets. Over the years Denise has earned a reputation of successfully engaging with her counterparts to maximize her client's program while maintaining their budget.

EDUCATION

Institute of Technology
Sligo, Ireland
1991–1994
BSc in Construction
Economics

RELEVANT PROJECT EXPERIENCE:

- Torrington Middle/High School, Torrington CT
- Concord Middle School, Concord MA
- Bristol Plymouth Regional Technical High School, Taunton MA
- Torrington Middle/High School, Torrington MA
- David Prouty High School, Spencer MA
- Watertown High School, Watertown MA
- Lowell High School, Lowell MA
- Attleboro High School, Attleboro MA
- Waltham High School, Waltham MA
- South Burlington High School, Burlington VT
- Belmont High School, Belmont MA
- Exeter-West Greenwich Junior/Senior High School, Exeter MA
- Nauset Regional High School, Eastham MA
- Pentucket Regional High School, West Newbury MA
- Bristol-Plymouth Regional Technical School, Taunton MA
- Wakefield Memorial High School, Wakefield MA

PM&C

Partnering for quality results

EDUCATION

University of Ulster, Belfast, Northern Ireland
1984–1988
BSc in Quantity Surveying specializing in Construction Cost Control, Engineering, Design, and Law.

LEED AP 2004

PETER BRADLEY

PRESIDENT

Peter founded PM&C in 2005 to help clients focus on comprehensive cost control. His commitment to deliver quality projects within budget is a true testament to his client-focused responsiveness. Having been in the construction business for over 35 years with experience as a hard-bid estimator, chief estimator for a design/bid contractor, cost consultant for one the world's largest cost management firms, development manager on a successful $500M mixed use project, project manager on numerous private sector projects and now leading PM&C, he is an expert in cost estimating and cost management with in-depth knowledge of conceptual project budgeting. Peter has structured PM&C to be small enough to give personal attention to clients, but large enough to handle any size project. Peter enjoys the diversity of the projects he works on and has a keen ability to partner with his clients to ensure they get the best value for money.

RELEVANT PROJECT EXPERIENCE:

CONNECTICUT SCHOOLS

- Anna Reynolds School, Newington CT
- Bulkeley High School, Hartford CT
- Chamberlain Elementary School, New Britain CT
- Mill Hill Elementary School, Southport CT
- Groton Consolidated Middle School, Groton CT
- Ox Ridge Elementary, Darien CT
- Mansfield Elementary School, Mansfield CT
- Torrington Middle/High School, Torrington CT
- Farmington High School, Farmington CT
- Saxe Middle School, New Canaan CT

JOHN BLOCK, PE, LS

SENIOR VICE PRESIDENT

John Block PE, LS is senior vice president and principal on assignments covering a variety of disciplines, with a primary focus on civil engineering projects. Utilizing technical, analytical, and engineering expertise, he has developed innovative and resourceful solutions for floodplain management and modeling, stormwater management and drainage collection systems, roadway design and construction administration. He has extensive experience in the design of highway and roadway improvements, site development projects from preliminary planning through the permitting and approval process, and preparation of construction documents.

EXPERIENCE
49 Years

SPECIALTIES
Site/Civil

Roadway Improvements & Reconstruction

Traffic Engineering

Parking Consultancy

Urban Redevelopment

Floodplain & Stormwater Management

EDUCATION
Bachelor of Science
Civil Engineering
University of Connecticut

LICENSES & REGISTRATIONS
Professional Engineer
CT #8488

Land Surveyor
CT #8488

PROFESSIONAL AFFILIATIONS
American Society of Civil Engineers

Association of State Floodplain Managers

Water Environment Federation

WESTHILL HIGH SCHOOL – STAMFORD, CT

Served as Principal-in-Charge providing drainage design services for a new drainage outlet from Westhill High School to a new drainage outlet pipe in the CTDOT right-of-way in Long Ridge Road. Services included permitting and Construction Administration

ACADEMY OF INFORMATION TECHNOLOGY AND ENGINEERING – STAMFORD, CT

Served as Principal-in-Charge for the construction of the Academy of Information Technology and Engineering behind the existing Rippowam Center School in Stamford, CT. Scope of work included storm sewer, sanitary, and utility design and development of the site and grading plans to ensure harmony with the existing facility. The project is located in a floodplain and required Floodplain Management Certification from the Connecticut DEEP.

STAMFORD 9TH GRADE CAMPUS—STAMFORD, CT

Acted as Principal-in-Charge for site engineering services for schematic design, design development, city approvals, and construction documents for the new 9th Grade Campus at Stamford High School. Project included traffic engineering services and parking consultancy related to the design and on-site circulation for buses and drop-off and pick-up for the new 9th grade wing.

WESTOVER SCHOOL MODIFICATIONS—STAMFORD, CT

Served as Principal-in-Charge providing services for site engineering to address water infiltration issues at the Westover School. Tighe & Bond performed detailed reconnaissance of the site to identify drainage issues and potential impacts upon the building. We also designed the proposed mitigation measures, which included modification of on-site grades to slope away from the building, new drainage to work with the altered grading, replacement of roof leader collector pipes, and relocation of the box culvert from beneath the building.

STAMFORD HIGH SCHOOL TRAFFIC, PARKING AND CIRCULATION STUDY

Served as Principal-in-Charge for Tighe & Bond's study including the development of a Traffic, Parking and Circulation Layout that provided safe and efficient operations for School Bus drop-off/pick-up operations, Student drop-off/pick-up operations by parents, Faculty/ staff/ visitor/ student parking.

Tighe&Bond

JOSEPH CANAS, PE, LEED AP, CFM

PRINCIPAL ENGINEER

Joseph Canas is a Principal Engineer who has expertise in various civil engineering disciplines, including floodplain management and modeling, stormwater management and collection systems, roadway design, and construction administration. He has been involved in all phases of project execution from planning through design and construction. He is a CTDOT certified Hydraulic Engineer, LEED AP, and Certified Floodplain Manager.

EXPERIENCE
28 Years

SPECIALTIES
Floodplain Management

Stormwater Management

Civil/Site Engineering

Site Development

EDUCATION
Bachelor of Science
Civil Engineering
University of Connecticut

LICENSES & REGISTRATIONS
Professional Engineer
CT #20873
NY #086159-1

Leadership in Energy and Environmental Design Accredited Professional (LEED AP)

Certified Floodplain Manager
#US-13-0791

PROFESSIONAL AFFILIATIONS
Association of State Floodplain Managers

Connecticut Association of Flood Managers, Chair

Rhode Island Floodplain Manager's Association

CIVIL/SITE

WESTOVER ELEMENTARY MAGNET SCHOOL—STAMFORD, CT

Served as Project Manager for improvements to the Westover Elementary Magnet School in Stamford, which was closed in Fall 2018 due to severe mold issues in the building. Investigated suspected site contributions to water infiltration into the building, including grading, storm drainage system capacity, roof leader connections to collector systems, and underdrains. Designed improvements, including new 60-inch and 42-inch culverts on each side of the school, grading improvements to increase the pitch away from the building and all new roof leader collectors. Also managed the design of three new playground areas with resilient surfacing and corresponding underdrains. Designed replacement for portion of existing fire loop around the building that was lowered due to regrading and replaced due to the deteriorating condition of the existing fire loop. Also coordinated soil management services with the project team.

METRO GREEN / METRO TOWER—STAMFORD, CT

Served as Project Manager for the development of one of Connecticut's foremost transit oriented and premier mixed-income communities consisting of 350,000 SF of Class A office, two parking garages totaling 650 spaces, and 238 units of residential housing, located adjacent to the existing Intermodal Transportation Center. Services managed include site design, stormwater management, utility coordination, as well as off-site improvements including widening of Henry Street. Assisted in the development of interim phasing and parking plans. The project features sustainable development concepts, such as rainwater harvesting, and heat reflecting rooftops. The larger residential components achieved LEED Gold certification.

DARIEN HIGH SCHOOL AND ATHLETIC FIELDS—DARIEN, CT

Served as project manager the new 340,000 SF, 1,500-student capacity high school located on the existing high school campus, and for four synthetic turf athletic fields, including the Stadium Field, Stadium East Field, Varsity Baseball Field, and Lacrosse Field. Assessed the watershed and drainage from the fields to confirm that the proposed fields would not exacerbate downstream flooding conditions on Stony Brook. Assessment included an intermediate condition where the existing school building was in operation with the new building under construction, and the runoff from both building roofs needed to be managed. During construction, Tighe & Bond also served as construction monitor for sediment and erosion control, issuing weekly written reports, and appearing monthly before the EPC. Also designed and permitted the cross country track around the perimeter of the school.

MATTHEW CARLTON, AIA, LEED AP

CONTACT

R. J. Kenney Associates, Inc.
P.O. Box 1748
Plainville, MA 02762

(e) mcarlton@rjkenney.com
(o) 508-695-1526
(c) 617-921-3267

REGISTRATIONS

Architect:
- Connecticut
- Massachusetts
- New Hampshire
- Rhode Island
- South Carolina

AFFILIATIONS

- *Building Enclosure Magazine*, Professional Editorial Board Member
- Boston Society for Architecture (BSA), Building Enclosure Council Presenting Member & Architectural Registration Exam Success Team Mentor
- Insulating Glass Manufacturing Alliance (IGMA) / Glass Association of North America (GANA) Joint PIB Task Group
- U. S. Green Building Council (USGBC)
- Association for Preservation Technology International (APTI)
- National Roofing Contractors Association (NRCA)

EXPERIENCE

R. J. Kenney Associates, Inc. – Plainville, MA (2017 – Present)
Director of Building Enclosure Design

Specializes in building enclosure design, forensic investigations and Building Enclosure Commissioning (BECx). Consults on projects that range from new design to the repair of existing buildings for a variety of clients, including architects, contractors, and building owners, focusing on the analysis and design of air/water barrier continuity and chemical material compatibility across all enclosure systems, roofing, wall system cladding, curtain wall, skylights, and plaza level and below grade waterproofing. Responsibilities also include peer review services, pre-construction risk management, design documents preparation, site mock-up training, field observations, and forensic investigations.

Senior Project Manager for Building Enclosure Products
Simpson Gumpertz & Heger Inc. (SGH), Waltham, MA (2007-2017)

Project Architect
Mostue & Associates Architects, Inc. (M&A), Somerville, MA (2002-2007)

Project Manager for Building Enclosure Projects
Edwards and Kelcey Engineers / CID Associates, Inc. (EK), Boston, MA (2000-2002)

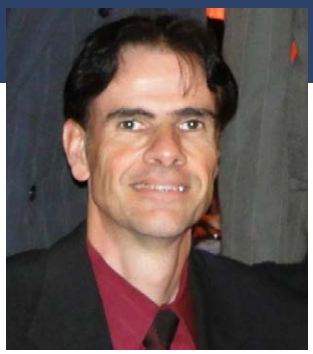
PROFESSIONAL CERTIFICATIONS

National Council of Architectural Certification Boards (NCARB)
American Institute of Architects (AIA) - October 2009
U.S. Green Building Council - LEED Accredited Professional, November 2006
OSHA 10-Hour Occupational Safety and Health Training Certification
Amtrak Safety Certification
CETCO - Certified Waterproofing Inspector
Carlisle Coatings & Waterproofing - Certified Waterproofing Inspector

EDUCATION

Wentworth Institute of Technology, Boston, Massachusetts, 2000
Bachelor of Science, Architectural Engineering

TODD E. WATSON, P.E.



CONTACT

RJK
P.O. Box 1748
Plainville, MA 02762

e: twatson@RJKenney.com
o: 508-695-1526
www.RJKenney.com

REGISTRATIONS

Licensed Professional Engineer:
Connecticut
Florida
Georgia
Maine
Maryland
Massachusetts
New Jersey
New York
North Carolina
Pennsylvania
Rhode Island
South Carolina
Texas (Inactive)
Virginia

AFFILIATIONS

- American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)
- ASTM International
- American Concrete Institute (ACI)

EXPERIENCE

R. J. Kenney Associates, Inc. – Plainville, MA (2000– Present)
Senior Engineer

Responsible for authoring designs in the form of CSI specifications and drawings for repairs and new construction relating to the building envelope and providing contract administration services. Conducts peer reviews of design documents and field investigations relating to building envelopes. Assists attorneys with forensic investigation and expert witness support, including testimony. Conducts hygrothermal finite element analysis, energy code analysis using DOE compliance software, and structural finite element analysis using ANSYS. Clients served from both private and government sectors, including architects, contractors, government bodies at the federal, state, and municipal levels, insurance carriers, lawyers, other consultants/engineers, and owners.

Director of Testing

Responsible for overseeing the operations of a licensed concrete testing laboratory. Responsible for the testing and evaluation of construction materials and systems in accordance with AAMA, ACI, ANSI, ASTM, and ICC standards, as well as ad-hoc testing. Specifically, performs and oversees laboratory and field-testing of building systems and components for the effects of environmental conditions on service life and durability, evaluation of structural performance, and the evaluation of material compatibility and suitability. Assists in coordinating and executing material failure investigations. Performed analytical and empirical evaluation of building materials/components on numerous buildings in over 20 states and with many different exteriors, including brick and concrete masonry, structural concrete, portland cement stucco, exterior insulation and finish systems, ceramic tile, elastomeric coatings, roofing, as well as fenestrations and related components, such as thermal breaks and IGUs. Assisted in performing a large scale window evaluation that included aluminum, thermally broken windows installed on over 40 hotels throughout the United States and IGU seal migration on approximately 10,000 residential IGUs in Arizona and other states.

Ucipher Software Services, LLC - West Warwick, RI (2001– 2008)
President/Owner

Created various programs including WVDA, water vapor diffusion analysis software for analyzing condensation formation inside building walls; UConPro, unit conversion software that functions as a standalone application and also as a DLL for linking with MS Office and Autodesk's AutoCAD; Teifs SpecWriter for creating construction documents in CSI Masterspec format and Photo View for creating custom photo logs for documenting and annotating digital photography.

RJK testing lab
building enclosures +

JAMIE P. BARR

LEP

Principal/Vice President
Geological and Environmental Engineering

Education

- B.S., Civil Engineering
  University of New Brunswick

Professional Registration

- Licensed Environmental Professional - CT #511

Affiliations

- New Haven Manufacturers Association (Secretary)
- Connecticut Building Congress
- Environmental Professionals of CT
- National Brownfield Association
- Environmental Business Association
- Association of Professional Engineers and Geoscientists of New Brunswick
- Trailwood Capital Advisors
- Paley Advisors

Years of Experience

- 23

Years with Langan

- 20

Availability

- 15%

Mr. Barr is a Geological Engineer with over 20 years of diversified environmental, civil, and geotechnical experience that includes environmental regulatory compliance/ negotiation, remedial system design, permitting, public/community outreach, feasibility studies, Phase I/II/III environmental site assessments, construction management, geotechnical investigations, site/civil design, stormwater management, and master planning. Mr. Barr manages Langan's Environmental Engineering has experience coordinating and negotiating with regulatory agencies in Connecticut, New York, New Jersey, Illinois, California, Indiana, and Massachusetts. Mr. Barr has extensive experience with projects in the Connecticut Property Transfer Program, New York State and City Brownfield Cleanup Programs, as well as the USEPA Superfund Program. Mr. Barr served as a co-chair on a committee formed by the CT DEEP for the transformation of the Connecticut regulations, and currently serves on the board of directors for the New Haven Manufacturers Association, and the advisory boards for UCONN Brownfield Initiative, One Village, NanoBank, and Quinnipiac's Engineering Accreditation Board. Mr. Barr's specialties include brownfield redevelopment, transfer act compliance, remediation system design, environmental site assessment, construction management, and real estate due diligence.

Selected Projects

- Westhill High School Hazardous Materials Inspection, Stamford, CT
- Strawberry Hill International Baccalaureate School, Stamford, CT
- Ridgefield High School, Ridgefield, CT
- Nonnewaug High School, Woodbury, CT
- Naugatuck School District Renovation, Naugatuck, CT
- Naramake Elementary School, Norwalk, CT
- Cranbury Elementary School, Norwalk, CT
- West Rocks School, Norwalk, CT
- New Lebanon School, Greenwich, CT
- Western Middle School, Greenwich, CT
- Francis Walsh Intermediate School, Branford, CT
- Riverside Magnet School at Goodwin University, East Hartford, CT
- West Vine School, Stonington, CT
- Deans Mill School, Stonington, CT
- Andover Elementary School, Andover, CT
- Dr. Helen Baldwin Middle School, Canterbury, CT
- Mansfield Middle School, Mansfield, CT
- Engineering and Science University Magnet School, West Haven, CT
- Black Rock School, Bridgeport, CT
- North Haven Middle School, North Haven, CT

CHRISTOPHER CARDANY

PE, LEED AP

Principal/Vice President
Site/Civil And Geotechnical Engineering

Education

- M.S., Civil Engineering Columbia University
- B.S., Civil Engineering Lehigh University

Professional Registration

- Professional Engineer (PE) in CT, NY, MA
- LEED Accredited Professional (LEED AP)

Affiliations

- Chi Epsilon (Civil Engineering Honor Society) Architecture, Construction, Engineering
- ACE Mentor Program
- Society of College & University Planning

Employment Status

- Full-time

Years of Experience

- 28

Years with Langan

- 26

Availability

- 15%

Christopher Cardany has over 28 years of experience in civil and geotechnical engineering projects throughout the northeast, including Connecticut, New York, Massachusetts and New Jersey. Christopher is a leader in the firm's K-12 and Higher Education design sector. In addition to conducting many initial feasibility investigations, he has prepared numerous site development engineering plans and associated permit applications, stormwater management studies, construction documents, and geotechnical investigations. He has obtained field and office supervisory experience during the design and construction of many projects.

Selected Projects

- Bullard-Havens Technical High School, Bridgeport, CT
- New Fairfield High School, New Fairfield, CT
- Trumbull High School, Trumbull, CT
- Xavier High School, Middletown, CT
- Naugatuck High School, Naugatuck, CT
- Greenwich High School, Greenwich, CT
- Derby High School, Derby, CT
- Bristol Central High School Track, Bristol, CT
- Nonnewaug High School, Woodbury, CT
- Quinebaug Valley Middle College High School, Danielson, CT
- The Morgan School, Clinton, CT
- Mill River Park Playground Renovation, Stamford, CT
- 10 Water Street Due Diligence, Stamford, CT
- Senior Living Facility - 210 Long Ridge Road, Stamford, CT
- Engineering and Science University Magnet School, West Haven, CT
- Naramake Elementary School, Norwalk, CT
- Columbus Magnet School, Norwalk, CT
- Southern Connecticut Hebrew Academy, Orange, CT
- Western Middle School, Greenwich, CT
- New Lebanon School, Greenwich, CT
- Mitchell Elementary School, Woodbury, CT
- Black Rock School, Bridgeport, CT
- Bridgeport Regional Vocational Aquaculture School, Bridgeport, CT
- CREC Discovery Academy, Wethersfield, CT
- Coleytown Middle School, Westport, CT
- Great Oaks Academy, Bridgeport, CT
- Hawley School, Newtown, CT
- Dr. Reginald Mayo Early Childhood School, New Haven, CT
- North Branford Intermediate School, North Branford, CT
- Norton Elementary School, Cheshire, CT
- Riverside Magnet School at Goodwin University, East Hartford, CT
- Saint Rose of Lima School, Newtown, CT
- Sandy Hook Elementary School, Newtown, CT

TAYLOR DALLING
PE

Senior Staff Engineer
Geotechnical Engineering

Education
- M.S., Civil Engineering Virginia Tech
- B.S., Civil Engineering Bucknell University

Professional Registration
- Professional Engineer (PE) in CT

Employment Status
- Full-time

Years of Experience
- 7

Years with Langan
- 3

Availability
- 20%

Ms. Dalling has over seven years of experience in geotechnical related projects in Connecticut, New York and New Jersey. Ms. Dalling has completed a variety of subsurface investigations and controlled geotechnical related inspections for shallow foundations, piles, subgrade preparation, fill placement, compaction, ground improvement, waterproofing, mechanically-stabilized earth retaining walls, and preconstruction conditions. Ms. Dalling is actively involved in preparing geotechnical engineering reports and specifications; preparing detailed foundation design; construction administration and extensive geotechnical field oversight for k-12, universities, residential, mixed-use and commercial projects.

Selected Projects
- 100 Clinton Avenue Due Diligence, Stamford, CT
- 900 Long Ridge Road, Stamford, CT
- Derby High School, Derby, CT
- New Fairfield High School Feasibility, New Fairfield, CT
- Meeting House Hill School Feasibility, New Fairfield, CT
- East Haddam Middle School, East Haddam, CT
- Perth Amboy Seaman Elementary School, Perth Amboy, NJ
- Seaman Avenue Elementary School, Perth Amboy, NJ
- Stevens Institute of Technology Academic Gateway Building, Hoboken, NJ
- Stevens Institute of Technology Student Housing and University Center, Hoboken, NJ
- UConn Athletic District, Storrs, CT
- UConn Geotechnical Engineering On-call, Storrs, CT
- UConn Infrastructure Engineering On-call, Storrs, CT
- Yale University Sachems Wood, New Haven, CT
- Western Connecticut State University Newbury Hall Wellness Center, Danbury, CT
- Stamford Green, Stamford, CT
- 210 Long Ridge Road, Stamford, CT
- Binghamton University Hinman Hall, Vestal, NY
- Kean University Mount Paul Campus, Jefferson, NJ
- New Jersey City University West Campus, Jersey City, NJ
- Bushnell South Parking Garage, Hartford, CT
- OnePark, West Hartford, CT
- Steelpointe Development, Bridgeport, CT
- The SoNo Collection, Norwalk, CT
- White Plains Hospital Lab Chemistry Renovation, White Plains, NY

MATTHEW MYERS

Senior Project Manager
Environmental Engineering And Hazardous Building Materials

Education

- M.S., Occupational Safety and Industrial Hygiene
  University of New Haven
- B.A.
  University of Connecticut

Professional Registration

- Licensed Asbestos Project Designer, Inspector/ Management Planner and Project Monitor – CT
- Licensed Asbestos Project Designer and Inspector/ Management Planner – NY
- Licensed Asbestos Investigator – NY
- Licensed Lead Inspector/Risk Assessor – CT
- Licensed Asbestos Designer & Inspector – MA, RI

Years of Experience

- 30

Years with Langan

- 10

Availability

- 20%

Mr. Myers is a Hazardous Building Materials Manager with over 30 years of diversified experience that includes the inspection, abatement design and abatement project monitoring for asbestos containing materials, lead based paint, PCB, indoor air quality, OSHA compliance and other building environmental concerns. Mr. Myers has experience coordinating and negotiating with the US EPA, CT DPH and other regulatory bodies in the State of Connecticut. Mr. Myers has been involved with numerous environmental investigations and remediation projects including public and private housing, commercial facilities, and school and hospital properties. Mr. Myers has extensive experience with various school systems, housing authorities, and commercial buildings in Connecticut, New York, and throughout New England, involving large and small scale hazardous materials management including renovation and demolition abatement projects.

Selected Projects

- Greenwich High School, Greenwich, CT
- Nonnewaug High School, Woodbury, CT
- Westhill High School Hazardous Materials Inspection, Stamford, CT
- Strawberry Hill International Baccalaureate School, Stamford, CT
- Deans Mill School, Stonington, CT
- Engineering and Science University Magnet School, West Haven, CT
- Fairfield Woods School, Fairfield, CT
- Francis Walsh Intermediate School, Branford, CT
- Andover Elementary School, Andover, CT
- Black Rock School, Bridgeport, CT
- Coleytown Middle School, Westport, CT
- Cranbury Elementary School, Norwalk, CT
- Killingly Schools, Killingly, CT
- Mansfield Middle School, Storrs, CT
- Naramake Elementary School, Norwalk, CT
- Naugatuck School District, Naugatuck, CT
- New Lebanon School, Greenwich, CT
- North Haven Middle School, North Haven, CT
- Region 13 Schools, Durham, CT
- Riverside Magnet School at Goodwin University, East Hartford, CT Tomlinson School Roof, Fairfield, CT
- Torrington Commons, Torrington, CT
- Various School & Public Building Project, Ridgefield, CT
- West Rocks School, Norwalk, CT
- West Vine School, Stonington, CT
- Connecticut Department of Administrative Services (CTDAS) Hazardous Building Materials & Indoor Air Quality On-call, Various locations in CT
- UConn Stamford, Four Residential Garages, Stamford, CT

OUR TEAM

Tom Irwin Advisors is a team of professionals with a broad range of expertise. We've consulted on sports fields globally for FIFA and other international governing bodies. We've lectured at universities and other academic settings. We've helped develop both industry standards and professional standards used around the world. We've renovated and constructed sports fields for every level of the game. And we've spent decades conscientiously managing turf because recreational green spaces are the lifeblood of our communities.

We would be honored to assist and guide you through your green space project. If you have questions or concerns about the recommendations in this brief, please contact us. We're eager to help you achieve your vision. Contact Ian Lacy at **781-999-4320** or **ianlacy@tomirwinadvisors.com**

Ian Lacy Lead Project Advisor

Ian possesses a wealth of experience that touches on nearly every facet of professional turf management. He has been a university lecturer. He was the head of professional services for the Institute of Groundsmanship, the largest non-profit organization seeking to improve standards and promote the work of grounds professionals. While there, he was instrumental in developing Performance Quality Standards. On behalf of FIFA, the International Football Association Board, he has consulted on field standards and conditions all over the world. **Read bio**

Kevin Dufour Sustainability Advisor

Kevin brings a multidisciplinary approach to sustainability initiatives, environmental management, and regulatory affairs. He has spent 31 years as an environmental scientist, 25 years as an attorney at law, and his consultancy advises clients on LEED, Green Globes, and Sustainable Sites certifications. He is a regular reviewer and commenter on new sustainability standards such as the International Green Construction Code and SITES. **Read bio**

Jack Schmidgall Design and Construction Advisor

Jack has more than 40 years of experience in the industry. He is a founding member of the New England Sports Turf Managers Association, and has won national awards including the Sports Turf Manager Association's Baseball Field of the Year (1992), Softball Field of the Year (1993), and National Groundskeeper of the Year. He has managed performance turf at every level from town fields, to professional stadiums, to Olympic-level facilities. **Read bio**

Scott Vose Technical Advisor

Scott has over 13 years of experience in the industry. Previously he worked as an assistant superintendent at Connecticut National Golf Club. He holds a bachelor's degree in Turfgrass and Soil science from the University of Connecticut. He understands the importance of collecting data and evaluating trends critical to sustained success. He spent over 7 years working with his former professors from UCONN at their Plant Science Research Farm. He worked closely with the faculty overseeing the maintenance of all their turfgrass research plots. "If you see something that works, you need to understand why." **Read bio**

SOIL INVESTIGATION

Why a Soil Investigation is important:

The foundation of a properly performing Athletic Field is the soil. Whether you are planning to build a field, renovate a playing surface, or investigate field quality issues, success starts with understanding your soil.

As the growing medium for your Athletic Field, the soil is critical for field safety, playability, and sustainability. A Soil Investigation will help you make informed decisions that positively impact your athletes, budgets, and maintenance practices for years to come.

How Tom Irwin Advisors will help:

Using scientific examination, specialized tools, and laboratory testing, our team of experts will investigate your soil's ability to meet industry standards and community expectations.

What we do for you during a Soil Investigation:

- **Site Evaluation** – A review of the general site conditions noting elevations, vegetation, and surface quality.
- **Soil Profile Test Pit** – A careful excavation to observe and photograph the soil layers from the thatch to the sub-base. The layers are tested for infiltration and compaction. Soil samples may be extracted at different depths for further laboratory analysis.
- **Complete Nutrition Tests** – Laboratory tests determining the nutrient content in the soil and the plant's ability to utilize it.
- **Complete Physical Soil Tests** – Laboratory tests determining the physical characteristics of the soil and how they affect its performance.
- **Undisturbed Core Analysis** – Multiple two-inch diameter core samples which simulate how your soil performs in its current location.
- **Amendment Evaluation** – Determination of the amendments needed to enhance your soil's physical and biological performance.
- **Blend Analysis** – If required, laboratory analysis is used to determine the type and quantity of soil components needed to produce your desired rootzone.

Once our investigation is complete, you will receive a personalized **Soil Investigation Report:**

This details our findings and test results, and provides the solutions necessary to enhance the performance of your soils.

TOM IRWIN ADVISORS

Understand the properties of your soil and how they can enhance your field's performance by contacting Ian Lacy at **781-999-4320** or ianlacy@tomirwinadvisors.com

PROJECT'S TEAM AND ORGANIZATION

The Eagle project team currently consists of eighteen (18) full-time employees. Eagle's team is comprised of a Principal, a Vice President of Operations, a Senior Manager of Environmental Sciences, a Senior Project Manager, a Project Manager, Senior Environmental Consultants and Environmental Consultants. The team is supported by an Office Manager and an administrative assistant. Eagle has a full-service auto-CAD department capable of developing single line schematic drawings to full size scaled drawings and site plans.

Eagle's structure ensures that someone is always available to answer urgent questions or respond to emergency situations. Our fully staffed office supports the daily operations of active field work and report writing. Our administrative staffs are trained on the technical level in order to better serve our clients and assure quality. Our technical team of managers and consultants routinely meets with the administrative staff to ensure our clients objectives are being met on all levels. Eagle's volume of work requires strict coordination between managers and administrative staff to ensure project deliverables are completed on time.

Peter J. Folino
Principal

Mr. Peter J. Folino is the Principal of the firm. Mr. Folino has thirty (30) years of hazardous building materials consulting experience and obtained his Bachelor of Science Degree from Springfield College in Springfield, MA. As the President of the firm, Mr. Folino oversees the quality of services provided by Eagle Environmental, Inc. and guides the firm's management team. He is involved with the everyday operations on a technical and administrative level. Mr. Folino serves as laboratory director for the in-house asbestos analysis laboratory.

Mr. Peter Folino is a licensed asbestos inspector, designer and project monitor and a licensed lead inspector/risk assessor and planner/project designer in the State of Connecticut. He participates in the American Industrial Hygiene Association (AIHA) Asbestos Analyst Registry. Mr. Folino is an active member of the Connecticut Lead Poisoning Elimination Task Force. As a member of the task force, Mr. Folino helped develop revised state regulations pertaining to lead-based paint testing, abatement and clearance.

Mr. Folino served as the project manager for the Norwich State Hospital USEPA Brownfields clean-up consisting of the abatement and remediation of fifty-eight institutional and support buildings at the site in Preston, Connecticut. The project has been ongoing for approximately last three (3) years. Mr. Folino also served as the project manager for the former Nova Dye factory located at 313 Mill Street in Waterbury, CT, another brownfield site. This project consisted of a major environmental cleanup of several industrial buildings partially or completely damaged by fire. Mr. Folino developed the Alternative Work Practice and technical specifications for this project for the Waterbury Development Corporation. He is also working as the Project Manager for the renovation of five (5) Hartford Public Schools and Windsor Locks High School. The renovation of some of these schools required securing approval of Alternative Work Practice and Variance Applications from the State of Connecticut Department of Public Health (DPH) and approval of Environmental Protection Agency (EPA) of a Self-implementing On-site Cleanup and Disposal Plan (SIP) for remediation of PCB.

In addition, Mr. Folino has an extensive background in Public Housing rehabilitation projects funded by the Department of Economic and Community Development (DECD) and the Connecticut Housing Finance Authority (CHFA).

Christopher Liberti
Vice President of Operations

Mr. Liberti is an experienced consultant with twenty-two (22) years of experience in the area of hazardous building materials consulting as it pertains to inspection, design and monitoring for asbestos abatement work. Mr. Liberti serves as Eagle Environmental, Inc.'s senior project manager and is responsible for completing and managing some of Eagle's largest projects. He has substantial working knowledge of Occupational Safety and Health Administration (OSHA) guidelines and regulations.

Mr. Liberti has performed field sampling for potential personal and area air contamination. He has completed training in OSHA Hazardous Waste Operations and Emergency Response as well as Supervisor/Competent Person Training for Deleading of Industrial Structures. Mr. Liberti has completed NIOSH 582 equivalent training in Sampling and Evaluating Airborne Asbestos, as well as the 40-hourAsbestos Abatement Supervisor Training. Mr. Liberti is a licensed asbestos inspector, project designer and project monitor in the State of Connecticut.

Mr. Liberti has a Bachelor of Science Degree in Geology and Geophysics from the University of Connecticut.

Lynn Willey, P.G., LEP
Senior Manager, Environmental Sciences

Mr. Willey has over 23 years of experience as an environmental professional in the area of environmental assessment and remediation. Mr. Willey has served as the lead investigator and/or managed numerous Phase I, Phase II and Phase III environmental site assessment (ESAs); complex remedial investigations; and site remediation. Mr. Willey has experience with sites that are enrolled in the Connecticut Department of Energy and Environmental Protection (CT DEEP) programs including the Voluntary Remediation Program (VRP), Brownfield Remediation Program and Property Transfer Program (PTP). Mr. Willey has knowledge of the Connecticut Remediation Standard Regulations (RSRs), Connecticut Property Transfer Law. He has experience in the use of a variety of site investigation and remediation techniques and environmental permitting and sampling.

As a Senior Manager of the Environmental Science division at Eagle Environmental, Mr. Willey is responsible for managing a wide variety of environmental projects at commercial, industrial, and institutional, and municipal sites and provides senior technical oversight for environmental assessment and remediation projects in the Environmental Science division.

Mr. Willey has completed 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) and 8-hour refresher training. He has a Bachelor of Science degree in Environmental Geology from Allegheny College.

Jason Eberhard
Senior Project Manager

Mr. Eberhard is an experienced environmental consultant with over thirty (30) years of experience in the area of hazardous building materials and industrial hygiene consulting as it pertains to inspection, design and monitoring for asbestos abatement work, hazardous materials remediation, indoor air quality and occupational workplace health and safety. Mr. Eberhard serves as one of Eagle Environmental, Inc.'s senior project managers and is responsible for completing and managing a wide variety of hazardous materials projects. Mr. Eberhard has substantial working knowledge of local, state and federal guidelines and regulations and has worked extensively throughout the northeast states, California and Canada.

MEMASI

Tina Mesiti-Céas, AIA, LEED Green Associate

Managing Partner

Tina brings over 20 years of design and leadership experience to MEMASI. She spearheads the planning of individual projects, ensures design quality, and collaborates with team members to foster an integrated design approach and a motivating work environment. Tina delivers expertise in strategic planning, public engagement, business development and marketing for MEMASI and clients alike, while providing design oversight and maintaining overall client satisfaction.

An award-winning designer, Tina's vision translates ideas into architecture that is responsive to human and environmental issues, inspiring to all users, and improves day-to-day life.

Education

Bachelor of Architecture
Wentworth Institute of Technology

Registrations

Registered Architect: NY, CT, MA
NCARB Record
LEED Green Associate

Professional Affiliations

American Institute of Architects
AIA ENY Chapter President
Association for Learning Environments
United States Green Building Council

** Completed prior to founding MEMASI*

Select Project Experience

Yorktown CSD, Yorktown Heights, New York
Pre-referendum Planning & Yearly Projects

Westbury UFSD, Old Westbury, New York
Facilities Needs Assessment, District-wide Secure Entrance Vestibule Project, and PK-K Building Analysis

Mount Pleasant CSD, Thornwood, New York
2022 Middle School Maskerspace and
PPS Office Renovation Project

Yonkers Public Schools, Yonkers, New York
School 21 Renovations and Site Upgrades

Riverhead Charter School, Yonkers, New York
Sound Avenue School House Renovation
High School Feasibility Study

Eastchester UFSD, Eastchester, New York
2022 Capital Bond Project
2020 Building Conditions Survey & Five-Year Plan
Safety & Security Planning

North Shore Schools, Sea Cliff, New York
2019 Capital Project Pre-Referendum Planning and Post-Referendum Design & Construction
District-wide Additions, Renovations and Modernization
Yearly Capital Repair Projects

Public Schools of the Tarrytowns, Sleepy Hollow, New York
2023 Pre-referendum Planning
2021 Capital Renovations Project
Facilities Needs Assessment & Five-Year Plan
2019 Capital Project; District-wide renovations

Albany City Schools, Albany, New York
545,000 SF High School Additions & Renovations Project*

Queensbury UFSD, Queensbury, New York
200,000 SF High School Additions & Renovations Project*

Awards & Recognitions

AIA Henry Adams Award
Leadership Tech Valley, Capital Region Chamber

AIA ENY Design Awards:
Queensbury Legacy Project
Albany High School Re-design
Cohoes High School
Malone Central School District
Mohonasen Central School District
Pioneer Bank

Speaking Engagements & Publications

NYSCOSS 2019 Financial Leadership Series

NYSSFA Southeastern Chapter / ASBO NY Lower Hudson 2019 Capital Project Construction Meeting

NYSCOSS 2019 Fall Leadership Summit

NYSBBA 99th Annual Convention 2018

Enhancing Safety & School Design, CSArch

STEM Ideology & Its Impact on Architecture, AIANYS Winter 2016 Quarterly Newsletter

MEMASI

Dominique Moore, AIA, NOMAD

Associate

As a licensed professional, Dominique leads projects from start to finish, and acts as the liaison between clients, regulatory agencies and the design team. Her focus on exceptional design, high quality detailing and sustainability pair well with her leadership and project management skills to deliver smart, cost-efficient solutions in all aspects of architecture and interiors.
Dominique is also dedicated to mentoring and supporting young people from diverse backgrounds who are interested in pursuing careers in the field of architecture.
Dominique is co-founder of My Architecture Workshops Inc., a non-profit organization dedicated to introducing students from kindergarten to 12th grade to architecture, design, and construction.

Education

Bachelor of Architecture
Philadelphia University

Registrations

Registered Architect: NY, CT
NCARB Record

Professional Affiliations

AIA NE Regional Associate Director
AIA CT Associate Board Director
AIA CT DEI Co-Chair
NOMA CT Board Directors
University of Hartford Architecture Board
Architecture Workshops Board Member

Select Project Experience

Yorktown CSD, Yorktown Heights, New York
Pre-referendum Planning

Westbury UFSD, Old Westbury, New York
PK-K Building Analysis

Mount Pleasant CSD, Thornwood, New York
Pre-referendum Planning
2022 Middle School Maskerspace and
PPS Office Renovation Project

Public Schools of the Tarrytowns, Sleepy Hollow, New York
2023 Pre-referendum Planning
Sleepy Hollow High School Middle School Library Project

Lowell High School, Lowell, Massachusetts
Feasibility Study of second-largest high school in MA*

Bassick High School, Bridgeport, Connecticut
Programming and Feasibility Study

St. Luke's School, New Canaan, Connecticut
20,000 SF building addition; classrooms, learning areas, mult-purpose space, café and athletic facilities*

Ponus Ridge Middle School, Norwalk, Connecticut
35,000 SF Additions and 140,000 SF Renovation Project*

Strawberry Hill School, Stamford, Connecticut
11-acre K-8 International Baccalaureate Magnet School Expansion Project*

Cutler Elementary School, Groton, Connecticut
New 76,000 SF Prek-5 Elementary School*

** Completed prior to founding MEMASI*

MEMASI

MEMASI Profile
More than just an architecture and planning design firm, we are a collaboration of thought leaders, creators, and problem solvers. We believe that architecture has the power to shape who we are and what we can become, and no place is this more important than in our schools and communities.

Established in 2019 by firm partners and design practitioners Tina Mesiti-Céas and Daryl Mastracci, Mastracci Mesiti-Ceas Architecture & Engineering P.L.L.C. d/b/a MEMASI was founded on a history of long-standing relationships and successful projects. With our fresh perspective on education planning and design, and our commitment to improving communities and the environment, we offer our 40 years of combined experience to build on what we have become known for; great client service, vision, clear communication, responsiveness, and successful project delivery.

MEMASI, a local woman-owned full-service architecture firm in White Plains, pairs the ability to address on-going infrastructure repair and upgrade projects with visionary design and inspiration for schools and communities alike.

Our Philosophy
As education designers, we make it our mission to contribute to the comfort, happiness, health and well-being of the people who use the spaces we design. Our students are our future; we aspire to design spaces that help shape who they become and how they see the world, embracing its beauty and striving to make it a better place for future generations. With every project we hope to instill a sense of pride among educators, building users and the community.

In all our endeavors, we focus on healthy and sustainable building materials, air quality, natural daylight, connection to the outdoors, and equity and inclusion. Global circumstances have continued to push our team to reimagine our approach and design priorities, but our core objectives have not wavered. Now more so than ever, healthy and comforting environments are vital to our well-being and physical and mental health.

In many of our projects, we balance the challenges of limited budgets, aging buildings and infrastructure, and community motives and pressures with delivering results that improve our built environment while adapting to ever-changing socioeconomic circumstances.

Our focus is education!
Public education accounts for nearly all of our work. As educational designers, our goal is to create spaces that inspire learning, promote active engagement, and support collaboration and creativity at all grade levels.
We do this by designing spaces focused on health, well-being and sustainability that align with evolving education pedagogy and community expectations. Our Managing Partners have led successful projects through open communication and consensus building. We work in close collaboration with city and school leaders and the community to ensure success.

Our Community Engagement
Our community engagement process is focused on empowering schools and communities to build a legacy for their own community. We facilitate a collaborative process that bridges schools and communities exclusive of culture, age, and socio-economic status. This process begins with the educational specification and culminates at construction completion.

MEMASI ensures that the collective wisdom of a community is expressed in a vision and helps to coalesce support for this vision. As the liaison between the community, teachers, students, and school leaders, our goal is to keep the community engaged, ensure their voice is heard, and to keep the public abreast of the design process. We do this through clear communication and graphic representation in multiple settings and means including small and large group meetings, community summits, town hall meetings, board meetings, district planning meetings, outreach focus groups, general public updates, on-going project design team meetings, site visits and through our partnership with My Architecture Workshops.

Invested in moving toward a bright future together, we build lasting relationships with our clients and immerse ourselves in their communities.

EXPERIENCE &
CAPABILITIES

BUILDING INFRASTRUCTURE

SLAM has a wealth of expertise conducting assessments of facilities and building infrastructure In numerous municipalities in Connecticut and Rhode Island. The ability of users to maintain and run installed building systems in today's schools and operational efficiencies are crucial to the development, thus it is important to comprehend the current infrastructure of a renovation project. Building infrastructure, especially in older buildings, depends on the design team's capacity to collaborate with the existing framework. Implementing accessibility, structural improvements, fire protection, and technological services must take into account the effects of contemporary codes on the original construction methods. In addition, our proposed team has experience analyzing the advantages of renewable energy sources (solar, wind, geothermal, etc.), as well as considering fuel cells or ice storage in school architecture.

During the process of inventory and evaluation, existing infrastructure is understood. SLAM has completed numerous facility studies and existing facility evaluations. Among them is the Town of Groton, where we examined the Town's current facilities and offered cost modeling for a variety of facility upgrade/reuse scenarios to give the Town's leaders the data they needed to put the project up for a vote. In addition, we finished the inventory, evaluation, and capacity analysis of all 52 schools for Hartford Public Schools and created choices for optimum use going ahead. Another example includes the space inventory for each school building for Ridgefield Public Schools to address serious code compliance difficulties. The goal of the study was to evaluate options that would better match the district's facilities with anticipated enrollments and academic goals over the following ten years.

Our most relevant experience includes the Educational Facilities Assessments, Demographic Study & Master Planning of Stamford Public Schools. This study targeted investments into areas of greatest need by conducting a Facility Conditions Assessment to align schools to Stamford's demographic and educational needs, and identify funding strategies to utilize state and federal funding. SLAM is familiar with Stamford Public Schools and it's educational goals and needs.

HISTORIC PRESERVATION

WORKING WITH HISTORY

As designers of the built environment, we love buildings that excite, inspire, enchant and serve their human inhabitants well. When we work on historically significant structures or spaces, we feel privileged to work within the rich architectural heritage that gives our communities and institutions their unique character. We commit ourselves to understanding the project in its widest context, both architecturally and historically. We bring to every historically-related project a deep appreciation for the best of the past, as well as a keen understanding of contemporary usage, community expectations, governmental regulations and current building standards.

We bring to every historically-related project a deep appreciation for the best of the past, as well as a keen understanding of the demands made by contemporary usage, community expectations, governmental regulations, and current building standards.

UNDERSTANDING REGULATIONS

The preservation of our architectural heritage is subject to complex regulations and occasionally conflicting interpretations, depending on whether the project is funded privately or uses state and/or federal preservation grants. In general, the following federal definitions provide a broad and reasonable framework for most historically-related projects:

Preservation - retention of all historic elements that have accrued to a structure over time, through conservation, maintenance and repairs.

Rehabilitation - retention and repair of historic materials as well as replacement of some elements due to deterioration of the property; can include adaptive re-use, alterations and additions.

Restoration - retention and/or re-creation of materials and elements from a significant time in a property's history, while recording and removing materials from other periods.

Reconstruction - an interpretive re-creation of a non-surviving site, landscape, building or structure, in all new materials, focusing on a chosen period of time and documented location.

History of Contract Performance for K-12 Projects	Scheduled Completion Date	Actual Completion Date	Budgeted Construction Cost	Actual Construction Cost	% A/E Change Orders
Amity High School	5/2007	3/2007	$27.2M	$26.4M	1.7%
CREC Public Safety Academy	8/2014	8/2014	$52.0M	$50.8M	0.8%
Capital Preparatory Magnet School	1/2010	3/2010	$32.9M	$32.1M	2.5%
Celentano PreK-8 School	5/2006	5/2006	$23.3M	$24.8M	1.7%
East Hampton High School	9/2017	9/2017	$43.97M	$43.68M	0.04%
H. H. Ellis Technical High School	6/2015	10/2014	$57.5M	$52.1M	0.04%
Gilmartin PreK-8 School	8/2010	8/2010	$25.3M	25.2M	0.7%
Journalism & Media Academy	8/2013	8/2013	$26.4M	$26.2M	0.68%
James L. McGuire K-5 School	8/2019	8/2019	$26.8M	$27.2M	0.01%
Naylor PreK-8 School	5/2006	3/2006	$25.5M	$24.4M	1.42%
Ridgefield School	2004	2004	$33.6M	$32.9M	0.6%
Stephen Olney K-5 School	8/2019	8/2019	$26.4M	$26.4M	0.01%
Samuel Staples PreK-5 School	8/2005	8/2005	$25M	$25.4M	1.06%
Waterbury Career Academy	8/2013	8/2013	$56.3M	$55.3M	0.4%
Groton Middle School	7/2020	7/2020	$68.7M	$61.7M	1.13%
Nonnewaug High School	1/2020	6/2020 (Extended due to Owner Changes)	$53M	$53M	1.0%
Weaver High School	8/2019 Phase 2 5/2020 Phase 4	8/2019 Phase 2 4/2020 Phase 4	$123.9M	$123.8M	1.4%

RELIABILITY OF SERVICES

Availability of Staff
The S/L/A/M Collaborative is one of the largest, most professionally managed, and stable design firms in the country. With a staff of 290 professionals, we are able to offer sufficient skilled personnel with the appropriate technical expertise to meet virtually any project or schedule demand.

Project leaders work on a variety of projects at one time and are skilled in the management responsibility of keeping the project moving and on schedule. We maintain a sophisticated running forecast of office workload that allows us to accurately allocate staff and other resources for the most effective delivery of each project. At various times in the project schedule, differing skills and manpower resources are brought to bear in order to stay on track.

Our proposed team is ready and available immediately to start work on your project. This team is noted for its depth and range of available expertise and resources, and by their commitment to ensure that all work is not just well designed, but is also successfully implemented.

Financial Stability
Established 46 years ago, SLAM thrives because of its reputation for responsive client service, design excellence, and market-driven expertise. Our earliest predecessor firm was founded in 1976 and we have remained in continuous operation under our current corporation since then.

Paralleling the firm's growth is its continued redefining of the profession and ability to generate creative and technically correct projects, creating enthusiastic endorsement among our many repeat clients. The firm has performed in the industry's upper quartile for most financial and human resources criteria, and enjoys stability in our core leadership and staff personnel, the average being 15 year's length of service with the firm.

PUBLIC INTERACTION

> Students were broken into small groups and came up with ideas using words, drawings and models using markers.

COMMUNITY ENGAGEMENT + PUBLIC INTERACTION

From day one we are committed to working collaboratively with the City of Stamford to engage the community as broadly and deeply as possible. SLAM's expertise in project visioning, community outreach and engagement, educational master planning and experience with the OSCGR process will ensure a thorough, inclusive, and collaborative approach. Community support, understanding of the mission and participation in identifying this communities' needs is critical to overall success. No two communities have identical needs or desired outcomes. We are experts in building consensus among varying stakeholders and finding common ground around which community leaders, school district administrators and constituents can support a significant capital expenditure. SLAM will ask for the City leadership's assistance in bringing forward the community leaders, social activists, and parents, who can work with us to bring forward the needs and desires of the community so they can be infused into these new schools. Schools can, and do, provide more than a housing for daily educational activities, they can be a proud statement of the importance a community puts on providing exceptional education and community support to all. Our data-driven process will provide the necessary data and information that informed stakeholders expect and deserve in order to define the right project(s).

By obtaining input from a diverse user group, we are able not only to get vital information about the needs and goals of the district and community, but the focused interaction of many users can help to forge a common vision. During planning and programming, our methods can include both in-person and virtual/electronic interactions:

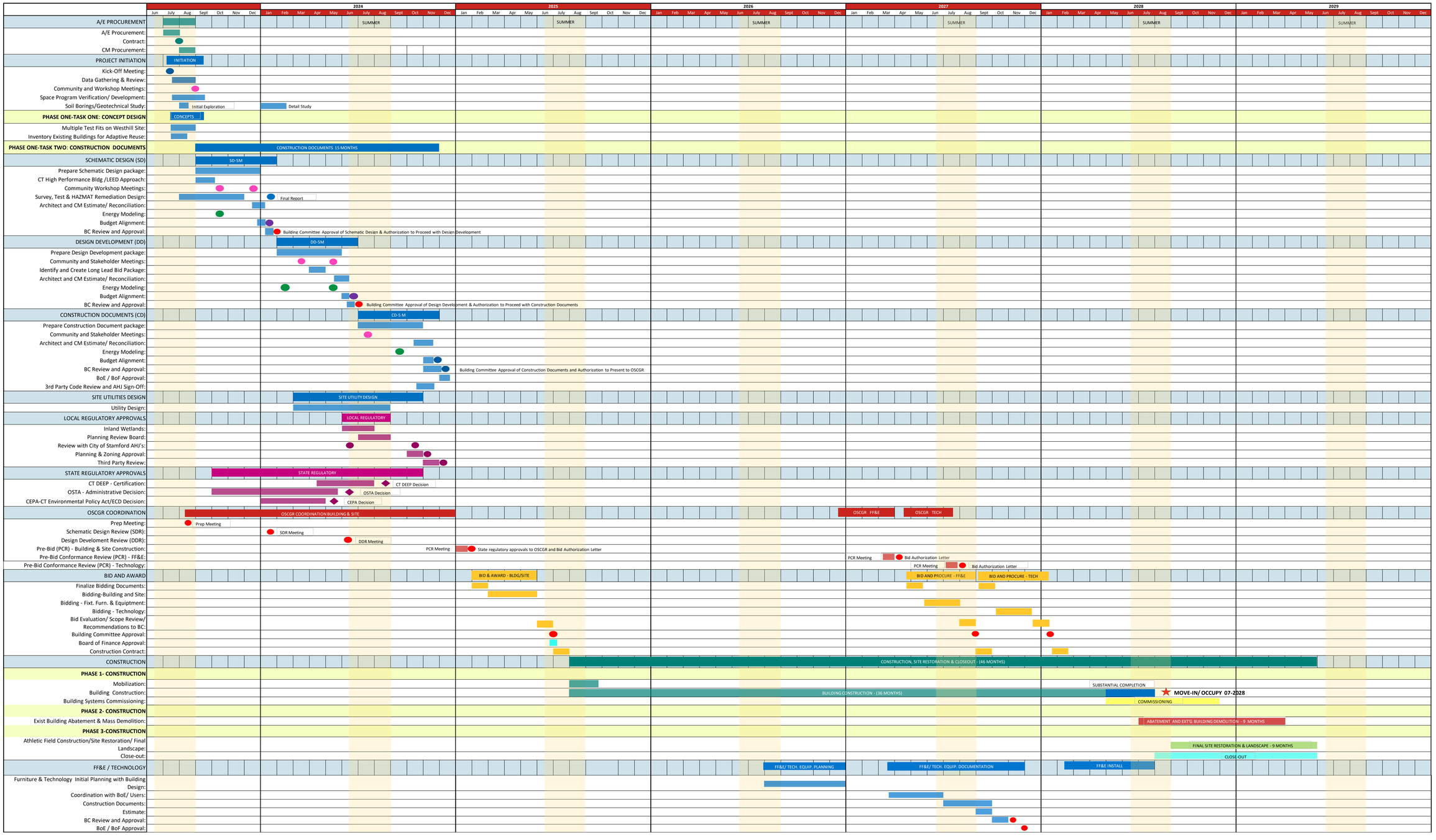
- Group and Individual interviews
- Public open forums – outreach via a number of venues
- Group brainstorming "charrettes" (Workshop meetings)
- Hosting Virtual meetings (zoom or other platforms)
- Data collection via web-based/crowd sourced surveys
- Web-based communications systems to facilitate the collaborative process and public relations
    - Communicate with the community, engage parents, know the decision makers – constituents need to know they were heard. Even if you cannot give them everything they want, communication is still the key.
    - Keep presentations simple - we are prepared to make clear and concise presentations in unison with the community and school district leaders. The passion for the project is likely to come from members of the community. We keep the facts simple and present them in a manner that people can readily discuss and comprehend.

SLAM • AMENTA | EMMA

5

APPENDIX

Stamford Westhill High School Preliminary Design Construction Schedule



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WESTHILL HIGH SCHOOL, STAMFORD, CT
CONCEPTUAL / PRE-DESIGN PHASE
PHASE ONE-TASK 1

July/August, 2023

Week of:	Design Team Activities	Topics of Discussion	Deliverables	Decisions/Meeting Outcomes
07/17/23	▪ Visioning Session (Project Kick-off) ▪ Existing conditions data gathering ▪ Review owners land survey ▪ Develop detailed SD work plan	▪ Introductions/ Roles & Responsibilities ▪ Overview Project Schedule ▪ Overview Proposed Workplan for Conceptual/SD Phases ▪ Project Stakeholders	▪ Proposed Conceptual/ Schematic Phase Workplan ▪ Initial program based on Ed Specs ▪ Interview Building diagrams ▪ Interview Site Plan options ▪ Interview Phasing diagrams	▪ Schedule Future SD phase meetings ▪ Define Project Goals ▪ Prelim. Program Review ▪ Conceptual Site Plan reactions
07/24/23	▪ Workshop: Program Verification #1 ▪ Inventory Existing buildings ▪ Detailed Site evaluation ▪ Multiple design test fits ▪ Explore adaptive reuse of select buildings ▪ Natatorium planning	▪ Interviews with Stakeholders – program verification ▪ Review proposed concept plans and test fits ▪ Adaptive reuse concepts of select existing buildings	▪ Benchmarking ▪ Graphic Building Program ▪ OSCGR allowable area ▪ Establish schedule of BC meetings	▪ Program Verification **ADMIN/GUIDANCE/NURSE; SPECIAL ED.; ACADEMICS; MEDIA CENTER; UNIFIED ARTS; VISUAL ARTS**
07/31/23	▪ Workshop: Program Verification #2 ▪ Continued programming progress ▪ Community meeting #1	▪ Interviews with Stakeholders – program verification ▪ Gather community input on Natatorium	▪ Benchmarking update ▪ Graphic Building Program	▪ Program Verification **PERFORMING ARTS; FOOD SERVICE; PE/ATHLETICS; BUILDING SUPPORT**
08/7/23	▪ Conceptual Design Workshop #1 ▪ Regulatory Agencies preliminary meeting ▪ Initiate Geotechnical Study ▪ Initial meeting with Construction Manager	▪ Programming ▪ Building adjacencies and layout options ▪ Review of Initial concepts ▪ Site Plan studies ▪ Conceptual phasing approach	▪ Benchmarking update ▪ Graphic Building Program ▪ Site Plan studies ▪ Preliminary traffic concepts ▪ Natatorium location study ▪ Phasing plans	▪ Program Verification ▪ Program finalization for next BC Meeting ▪ Feedback on conceptual design

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WESTHILL HIGH SCHOOL, STAMFORD, CT
SCHEMATIC DESIGN PHASE - WORK PLAN
PHASE ONE-TASK 2

September-February, 2024

	Design Team Activities	Topics of Discussion	Deliverables	Decisions/Meeting Outcomes
September 2023	▪ SD Workshop #1: ▪ Architect/Engineer coordination ▪ Development of plan options ▪ Exterior design progress ▪ CT HPBS assessment ▪ Continued Survey and testing of hazardous building materials ▪ Geotechnical study PH 1	▪ Recommendations Review CT HPBS checklist and project goals ▪ LEED/ Net Zero goals ▪ Review of Eversource rebate information ▪ Building Organizational Options ▪ OSCG Prep Meeting	▪ Updated site plans and site sections ▪ Building plan options ▪ Building area review ▪ Building exteriors options ▪ Summary of Space Verification/Development	▪ Plan adjacencies ▪ First impressions on exterior building style
October 2023	▪ SD Workshop #2: ▪ Mechanical Systems Design Meeting: ▪ Community Meeting #1: ▪ Continued SD progress ▪ Arch/Eng coordination ▪ Initial Energy Modeling	▪ Review project goals ▪ Development of Site Plan ▪ Development of building plan ▪ Development of building design ▪ Recap of OSCG Prep meeting	▪ Updated site plans ▪ Exterior character studies ▪ Updated floor plans ▪ Slideshow of interior design styles ▪ Mechanical systems approach narrative ▪ Summary of Energy Modeling	▪ Feedback on site design ▪ Feedback on building design ▪ Feedback on plan updates ▪ First impressions on interior building style
November 2023	▪ SD Workshop #3: ▪ School Security Meeting ▪ Continued SD progress ▪ Arch/Eng coordination o Civil, Structural, MEP	▪ Design Review of Floor Plans ▪ Design Review of exterior materials and forms ▪ MEP Systems Options/ Recommendations	▪ Updated floor plans ▪ Interior character studies ▪ Preliminary renderings ▪ Presentation from Civil, Structural and MEP engineers	▪ Reactions to updated building design ▪ MEP system selection ▪ Pre plan long lead MEP items

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WESTHILL HIGH SCHOOL, STAMFORD, CT
SCHEMATIC DESIGN PHASE - WORK PLAN
PHASE ONE-TASK 2

September-February, 2024

	Design Team Activities	Topics of Discussion	Deliverables	Decisions/Meeting Outcomes
November 2023	▪ Community Meeting #2 ▪ Complete SD renderings, plans, elevations, design and systems narratives ▪ HAZMAT remediation design	▪ Updated site plans ▪ Updated floor plans	▪ Energy modeling report ▪ Remediation Design Specifications ▪ Hazardous materials remediation design specifications	▪ Final Schematic Design layout and approval to document SD package listed at left.
December 2023	▪ Coordination with estimators / budget management ▪ Initiate OSTA Traffic Study ▪ Schedule for meeting with Stamford agencies-Building Dept. Fire Dept. and Police	▪ CEPA-CT Environmental Policy Act/ECD Decision ▪ Review HAZMAT scope and action plan ▪ Offsite MEP and Public utilities connections	▪ SD package due December 2023: o SD Booklet, including design, code, and systems narratives o SD Drawing Set ▪ SD Estimates by SLAM and CM due **[TBD]**	▪ SD Package review comments from Owner ▪ SD Estimate reconciliation meeting **[TBD]**
January 2023	▪ Final SD Presentation(s) to Building Committee ▪ To Board of Education, Board of Finance: date(s) **[TBD]** ▪ Public presentation ▪ OSCG-SDR Meeting	▪ Presentation of SD Package ▪ SDR Design Review OSCG Checklist ▪ Summary of meetings with CoS Building Officials	▪ Reconciled Estimate (CM) ▪ Approved Budget and Management List	▪ Budget Management decisions if necessary ▪ Owner Approval of SD package ▪ Authorization to proceed to DD
February 2024	▪ Soil Borings and Final Geotechnical Study ▪ Energy Modeling	▪ Summary of soil borings ▪ Summary of initial traffic data	▪ Draft-Geotechnical Report ▪ Draft- CT HPB-LEED/Net Zero approach	▪ **Initiate Design Development**

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WESTHILL HIGH SCHOOL, STAMFORD, CT
CONCEPTUAL / PRE-DESIGN PHASE
PHASE ONE-TASK 1

July/August, 2023

Week of:	Design Team Activities	Topics of Discussion	Deliverables	Decisions/Meeting Outcomes
08/14/23	▪ Conceptual Design Workshop #2 ▪ Initial Site Concepts ▪ Enhance Preferred Design Concept	▪ Building Organizational Options ▪ Design Review of Site Plan ▪ Design Review of Floor Plans ▪ Exterior design precedent options for comment	▪ Updated Site Plans ▪ Updated Building Plans ▪ Integrated Land survey ▪ Slideshow of exterior building design styles	▪ Program adjacencies ▪ Updated Site Plan reaction ▪ Exterior design precedent options reactions
8/21/23-8/31/2023	▪ Begin survey and testing of Hazardous Building Materials ▪ Presentation of preferred Design Concept	▪ Process for testing and remediation of HBM ▪ Schedule for after hours testing work	▪ Summary narrative of design decisions ▪ Finalized conceptual site and building plans	▪ Select preferred scheme to develop in Schematic Design ▪ **Schematic Design initiation**

SLAM

Memorandum

To: Westhill High School Building Committee Members

From: The SLAM Collaborative, Inc. Structural Engineering Studio

Date: June 8, 2023

Subject: Structural Steel and Concrete Reinforcing (Rebar) Pre-detailing – Process, Deliverables and Advantages to the Owner

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Structural Steel Pre-Detailing:

We are pleased to outline the process of structural steel pre-detailing as an optional service that SLAM Structural Engineering pioneered nearly two decades ago.

The service provides a fully detailed 3D structural steel model (referred to below as a Tekla model) for unrestricted use by structural steel bidders/fabricators. In this integrated style of project delivery, the contractor can bid and fabricate with data that was created during the pre-construction phase. The process is much more detailed than what people commonly associate with Building Information Modeling because the SLAM team will model everything exactly as it will be fabricated and erected in the field, and the computer data provided as our deliverable for this service can be imported into the fabricator's production machinery.

In contrast, BIM models that are typically produced by design firms are accurate depictions of major elements with sufficient detail for bidding and construction. They are superior to traditional 2D drawings in many ways, and they are advantageous for visualization, coordination, and data tracking - but they typically lack the detail necessary to assemble pieces on a shop floor. Further explanation of the process and its benefits is included below.

Integrated Project Delivery Process and its Benefits

"Integrated" project delivery (IPD) integrates certain cost, scheduling, and means & methods issues into the pre-construction phase. In non IPD projects, these issues are traditionally left solely to the contractor. IPD draws on the expertise of construction professionals early, when it can have the most effective impact on a project by making decisions in conjunction with the engineer of record, rather than design and construction professionals operating independently of each other. We work with detailers who are very knowledgeable about the most cost-efficient details, constructability issues, and contractor pet peeves, but are not necessarily educated about code and other issues that engineers incorporate in their designs. The project benefits when we work together, because design decisions are influenced by practical input, and understanding of project engineering requirements and design intent is improved through teaming.

A "Tekla" model is just a specialized BIM model. It's referred to here as a Tekla model simply because "Tekla Structures" is the BIM software used for this application. In addition to the Tekla model, a complete "Revit" model will still be produced for the purpose of enhanced interdisciplinary coordination and visualization. Tekla has its roots in the construction industry, whereas Revit is rooted in the design industry. Modeling in software originally developed for contractor's results in data which is much more useful "downstream" on a project.

A Tekla model reduces lead times for acquiring approved shop drawings and getting structural steel on site. The model contains every piece of steel needed for the superstructure of the project, including miscellaneous braces, embeds, connection materials, and anchor bolts. It provides more detailed and accurate information to a steel fabricator for bidding purposes, because rather than having to interpret drawings to understand where details apply and generate estimate takeoffs, the estimator can visually verify where details apply by viewing a

3D model. In addition, estimators may import takeoffs into FabTrol fabrication software to optimize the material that needs to be ordered for the project, thus minimizing waste and cost to the owner.

The design team will work with a structural steel detailer to generate the model, exchanging it electronically to both generate and check the data. The electronic exchange is akin to a preliminary shop drawing review to confirm compliance with the contract documents. Once a structural steel fabricator is selected, a mill order list can be generated from the model immediately, allowing fabricators to lock in prices and order material the day they are awarded a contract, which ultimately saves the owner money. An anchor bolt and embed layout plan will be available immediately for the contractor's use.

It is in the fabricator's interest to use the model, rather than building a new one from scratch. Fabricators, who are willing to use it, will be more competitive with their bids because they will recognize savings in detailing and engineering. They will also recognize the completeness of the model – RFI's related to beam sizes, dimensions, and/or applicability of typical details in various locations won't be needed because they will have been worked out ahead of time. (Please note: framed openings for MEP penetrations will still need to be coordinated with MEP contractors because it is impossible to coordinate those types of items ahead of time. Those dimensions are established by the contractor based on their final equipment selection.)

The awarded steel fabricator will still hire a detailer to complete the model for fabrication. The model may be updated to reflect the specific fabricator's shop standards. For example, some fabricators have shop layouts that are conducive to bolted connections rather than welded ones. The fabricator may want to make adjustments to modeled connections to suit their practice and make the project most efficient for their shop. In addition, the detailer will add piece marks and erection sequences, and generate individual piece drawings that comply with shop standards. Advanced fabricators may also add material tracking, or other database information.

Explanation of Costs to the Owner:
An owner will ultimately pay for a Tekla (or similar) structural steel model regardless of whether it's produced during the pre-construction phase or the construction phase. Generally, the pre-detailing component performs 75% of the process up front, with the balance being completed after contract award. A virtually constructed model is necessary to generate shop drawings and automate shop production. The difference with this integrated style of delivery is that the cost of this model, which is usually included in the fabricator's overall price, is now paid up-front by the owner, before the fabricator is awarded a contract. The fabricator's bid is expected to reflect a discount, because some of his/her work will have been completed ahead of time. A bidder who does not recognize the advantage of receiving a Tekla model will be at a competitive disadvantage with other bidders.

Summary of Benefit to the Owner:
The following bulleted items summarize the benefits to the owner when the project design team provides a 3-Dimensional model as part of the bid documents;

- The project benefits when the Engineer and Detailer work together;
- Bidding time for the structural steel package can be reduced, enabling early award;
- Reduced lead times for acquiring approved shop drawings;
- A mill order list can be generated from the model immediately;
- Fabricators can order material and lock-in prices the day they are awarded a contract;
- An anchor bolt/ embed layout plan is available immediately for contractor's use;
- Steel Fabricator bids are much tighter when the model is available;
- Steel delivery times can be moved up 1 – 2 months on average;
- The owner saves as early deliveries reduce schedules and general conditions;
- All coordination items are resolved before bidding, i.e.. dimensions, details, etc;
- Reduced number of RFI's due to coordination between Engineer and detailer;

SLAM will complete the following tasks:

1. Retain an experienced structural steel detailer to model bracing, connections, pour-stops and other details necessary to complete the structural steel frame. Produce a 3-dimensional model using Tekla Structures, a leading steel detailing and fabrication software. Engineer connections that are typically delegated to the contractor, such as braced frame connections, and connections with complex geometry.
2. Provide the structural steel detailer with the electronic data from our Revit design model so that they can begin the creation of the Tekla model. Once the model is completed, it will be transmitted

ultimately to steel bidders and the selected fabricator. The cost below includes time for consulting and coordinating modeling requirements with a structural steel detailer itemized above.
3. Review the model to ensure compliance with the documented design. (No Charge. This service is included in our basic services Construction Administration fee because it is effectively a partial shop drawing review.)

Deliverables will include the following:
1. Approved anchor bolt and embed layout drawings issued for construction
2. Erection plans for initial coordination submittals
3. An unrestricted, reviewed Tekla Structures database (model) that matches bid documents
4. A read-only 3D model that can be viewed via a free, downloadable Active-X plug-in for Microsoft Internet Explorer. (Allows anyone to view the 3d model without purchasing the modeling software)
5. A complete mill order list / advanced bill of materials
6. "KSS" files to be imported into fabrication management software.

Exclusions:
1. The model will not include miscellaneous metals such as stairs, elevator guiderail supports, door frames, or unistrut equipment supports. All of those items are dependent on manufacturer's requirements and/or field conditions.

Schedule:
The Tekla model development will commence when the structural steel construction documents are approximately 80% complete. The structural engineer will provide the detailer with the necessary information to begin the detailing model. During the final stages of construction documents and during the CD estimating period the detailing model will be completed and coordinated with the structural engineer. The pre-detailing deliverable will be complete for distribution with the bidding documents.

Concrete Reinforcing (Rebar) Pre-Detailing:

Concrete reinforcing (Rebar) pre-detailing is very similar to the process described above for structural steel pre-detailing. The following bulleted items summarize the benefits to the owner when the project design team provides Pre-detailed Rebar Placing Drawings as part of the bid documents;

- The project benefits when the Engineer and Detailer work together;
- Rebar bill of material and bend list will be provided to bidders for estimating and fabrication;
- Concrete contractor bids are much tighter since all contractors are bidding on the same shop drawings and rebar materials and quantities;
- Shop drawings for "Field Use" will be included so rebar fabrication can begin immediately after contract is awarded.
- The owner saves as early deliveries reduce schedules and general conditions;
- All coordination items are resolved before bidding, i.e. dimensions, details, etc.;
- Reduced number of RFI's due to coordination between architect/ engineer and concrete contractor;

SLAM will complete the following tasks:
1. Retain an experienced concrete rebar detailer to prepare placing drawings and bar lists that detail the fabrication, bending, and placement of rebar, prepared according to ACI 315, "Details and Detailing of Concrete Reinforcement." The drawings will include wall elevations, material, grade, bar schedules, stirrup spacing, bent bar diagrams, splices and laps, mechanical connections, tie spacing, hoop spacing, arrangement, and supports of concrete reinforcement. Include special reinforcement required for openings through concrete structures. The bidders will be free to utilize these documents in any way they wish to prepare their bids
2. Provide the concrete rebar detailer with the drawings and details required so that they can begin the creation of the rebar shop drawings. The cost below includes time for consulting and coordinating modeling requirements with the concrete rebar detailer itemized above.
3. Review the drawings to ensure compliance with the documented design. (No Charge. This service is included in SLAM's basic services Construction Administration fee because it is effectively a shop drawing review.)

Deliverables will include the following:

1. Rebar shop drawings for field use in PDF format.
2. Rebar shop drawings in CAD format.
3. Bar lists in aSa, Excel and Soule formats.

Exclusions:

1. Any items not mentioned in Scope including Slab on Grade Supports, Masonry, Sitework, Sidewalks.

Schedule:

Same as structural steel pre-detailing noted above.

May 30, 2023

Kemp Morhardt
S/L/A/M Collaborative
80 Glastonbury Boulevard
Glastonbury, CT 06033

SUBJECT: Westhill High School, Stamford, CT
Proposal for Theatrical Consulting Services

Dear Kemp,

This letter presents our proposal for theatrical consulting services for the Westhill High School project. This proposal is based on our work on previous projects with your office, the RFP materials, and your emails. This looks like work we are well suited for and we would enjoy working with you and your team on another project.

Scope Summary

Our proposed scope of work includes the design of systems in the following areas:

1. Auditorium
   - Theatrical lighting system – advisory role only
   - Theatrical rigging system and draperies – counterweight assumed per Ed. Spec.

Scope of Work

Schematic Design Phase

- Meet virtually with users to solicit input and develop project requirements
- Prepare initial opinion of probable cost for rigging system
- Prepare Basis of Design and Systems Accommodation Report

Design Development Phase

- Equipment layout and modeling
- Refine initial opinion of probable cost for rigging system
- Sketches as required for coordination of equipment locations
- Initial development of the infrastructure design
- Device layouts
- Preliminary specifications
- Coordinate with the design team including the electrical engineer for electrical infrastructure, mechanical engineer for heating and cooling requirements and structural engineer for rigging loading requirements
- Advice on theatrical lighting system equipment and layout

Construction Documents

- Architectural coordination of equipment locations and accommodation
- Coordination with design team for electrical, mechanical, and structural details and accommodation
- Prepare documents suitable for bidding including, as required by the system design: diagrams, equipment rack elevations, plate and panel details, and device plans
- Full three-part equipment specification
- Prepare specialty contractor cost estimate

Construction Administration

Our scope of work during the construction phase can be flexible in order to meet the needs of the project, but in our experience a substantial effort during this phase is typically the most effective means of ensuring timely and successful completion of the project.

Our typical construction phase scope includes the following:

- Answer questions from the contractor
- Perform contractor submittal reviews:
  - One complete, detailed review of all submittal documents for theatrical rigging contractor
  - One follow-up review to verify corrections noted in the first review
- Checkout as detailed in section below
- Final punch list report

Meetings and Site Visits

In addition to the meetings outlined below, we would also be available for additional meetings as needed throughout the project, at our standard hourly rates.

Design

- Virtual meetings with the school to meet with users and administration

Construction Administration

- One site visit during construction to review progress
- One rigging checkout trip to review installation

Notes and Exclusions

- We have subscribed to BIM360 and are using it for many projects. We will model physical elements for theatrical rigging.
- Our office works with current versions of both Revit (for building information modeling) and AutoCAD (for flat drafting, typically functional diagrams.)
- We assume a single design phase, and a single set of bid documents will be produced

Billing

Our total requested fee amounts are inclusive of expenses. We will bill as fixed fee billed on a percent complete basis by phase unless directed otherwise.

We expect that budgets and cost estimates will be determined during the design phases before completion of final construction documents. If value-engineering is required to bring system costs down below our approved budgets after completion of drawings and specifications, we will bill those efforts at the project standard rates or negotiate an appropriate fee for the additional value engineering work.

Summary

We look forward to working with you and the entire project team on this project. Thank you for this opportunity to provide a proposal for these services.

Sincerely,
CAVANAUGH TOCCI

Alexander G. Bagnall

Encl:
Hourly Billing Rates

May 12, 2023

Mr. Kemp Morhardt
S/L/A/M Collaborative
80 Glastonbury Boulevard
Glastonbury, CT 06033

SUBJECT: Westhill High School Replacement, Stamford, CT
Proposal for Acoustical Consulting Services

Dear Kemp,

Thank you for asking Cavanaugh Tocci to provide our proposal for acoustical consulting services for the Westhill High School replacement in Stamford, Connecticut. We understand that the project will provide nominally 460,000 gross square feet of school space and that the project is intended to reach substantial completion Fall of 2028.

This letter presents our scope of services and fee estimates based on our review of information as sent, correspondence with you and our experience with similar projects.

Scope of Work

Acoustical recommendations will be to meet the State of Connecticut requirements for school construction, which requires the project be designed and certified to meet the ANSI S12.60-2002 *Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools* standard. This requires that teaching spaces (and ancillary teaching spaces) meet specific detailed criteria for room acoustics, sound and impact isolation (interior and exterior) and very quiet HVAC noise levels. In addition, our review will cover recommendations for the auditorium, music rooms, gymnasiums and other large spaces.

We expect the following tasks in our base services:

Task 1: Review and recommendations for room acoustics in classrooms and core learning spaces for appropriate listening conditions based on planned uses. These would be in accordance with the ANSI S12.60-2002 Standard. This requires review of all classrooms and other teaching spaces to confirm that reverberation levels meet the ANSI requirements.

Task 2: Review and provide written recommendations for room acoustics in the Auditorium, music rooms, gymnasiums, dining, community spaces and other large gathering areas.

Task 3: Review and provide written recommendations for sound and impact isolation constructions in core learning spaces and acoustically sensitive spaces throughout the project, based on the requirements in ANSI S12.60-2002 and/or good design practice.

Task 4: Review and written recommendations for HVAC noise/vibration control to result in background sound levels in classrooms and other core teaching spaces that meet the ANSI S12.60-2002 requirement (not to exceed 35 dBA (approximately NC-30)) for very quiet background sound from operation of HVAC equipment. This requires detailed review of all pertinent duct paths using a computer model and use of manufacturers' sound data as provided by the project mechanical engineers. Recommendations would include detailed noise control measures as needed to result in target sound levels. We will also review radiated sound from exterior rooftop equipment (such as cooling towers and dust collectors) relative to the fixed sound level limits defined by Stamford, CT.

Task 5: Complete State of CT acoustic certification letter.

Task 6: CA assistance as needed, for review of basic revisions, shop drawing submittals, and availability for questions that may arise during the construction phase.

Recommendations will be presented in written reports, with sketches and manufacturers' information as needed for your (and the project mechanical engineers') use in preparing drawings and specifications.

We understand that the work of tasks 1 through 5 will extend across the Schematic Design, Design Development and Construction Document phases. During each phase we have allowed for two to three video conference meetings during each respective design phase. During CA we have allowed for two site visits. Typically, these site visits would be completed after framing is in place when specialized sound isolation constructions are ready to be installed (for sound isolation ceiling or floor systems), and near the end of construction when acoustical finishes are installed, and HVAC systems are operational (to review HVAC sound and vibration isolation).

If additional scope of work becomes apparent during the design process, we will advise you of this and provide a request for additional fee if appropriate. Within this scope of services, we plan on most of CTA's effort to take place at our offices, though we would be available for on-line meetings and CA site visits within the scope noted above.

Work that would not be provided as part of the scope listed above includes the following:

- LEED, WELL, or NE-CHPS calculation and documentation services for acoustics.
- Significant review or acoustical measurements to assess site sound transmission to the building interior spaces (from transportation noise sources, etc.) which would require temporary installation of sound monitoring equipment.
- Pre or post-construction sound measurements (interior or exterior), except for site sound monitoring noted in Task 1.
- Review or design of sound systems / AV / theater has been provided under a separate fee proposal.
- Measurements or assessment of HVAC noise/vibration issues in the case our recommendations are not reasonably included in drawings/specifications, or not properly installed or implemented in the field.
- Significant duplication of effort in the case that VE or other significant design revisions occur late in the design cycle. We will ask approval prior to modeling interior HVAC paths, etc. to avoid duplication of efforts as possible.
- Construction noise monitoring or mitigation plans.

Thank you for this request for proposal, and please contact us if you have any questions.

Sincerely,
CAVANAUGH TOCCI

Kent F. McKelvie
Principal Consultant

Accepted by:

_____
Signature

_____
Name/title

_____
Date

GP23 Stamford Westhill HS Replacement - Acoustics Proposal.docx

May 4, 2023

Kemp Morhardt, AIA
Principal
The S/L/A/M Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033

Re: Westhill High School, Stamford, CT

Dear Kemp,

We are very pleased to have this opportunity to provide you this proposal for professional engineering services. It is our understanding that the project is best described as the construction of a new High School Facility of approximately 459,000 square feet and total construction cost of approximately $258,000,000 located at 125 Roxbury Rd in Stamford, CT. To complete this work, the following items shall be considered as our "Scope of Services" (hereinafter called the "Project") and will be provided by our firm.

SCOPE OF SERVICES -- INCLUDED

1. Contract Documents: We will prepare Contract Documents that shall illustrate the installation of the following systems. These documents will be completed so that the owner can present them to contractors for bidding purposes.

   A. Plumbing Systems

      1) We will prepare plans and specifications for the installation of a new plumbing system, which shall include the distribution of hot and cold water, vent and waste piping and hot water generation. The wastewater piping shall extend no more than five feet out of the building. It is assumed that the wastewater sewage system will be a gravity drainage system (no sewage pumping required). We have assumed that potable water is available within five (5) feet of the building or will be brought into the project area by others.

      2) We will prepare plans and specifications for the installation of a new grease interceptor system.

      3) We will prepare plans and specifications for the installation of a new water service to the building from the local Water Company's point of connection. We will coordinate the service with the local Water Company.

      4) We will prepare plans and specifications for the installation of gas piping to the mechanical equipment and to the cooking equipment.

      5) We will prepare plans and specifications for the installation of a new gas service to the building from the local gas company's point of connection. We will coordinate the service with the local Gas Company.

6) We will prepare plans and specifications for the installation of a new air compressor system, receiver tank, dryer, piping and associated controls.

B. HVAC Systems

1) We will prepare plans and specifications for the installation of a new heating, ventilation and air conditioning system. This system will include all necessary heat generation equipment, air handling equipment, cooling equipment, distribution ductwork, and associated controls.

2) We will prepare plans and specifications for the installation of a new exhaust system for the restrooms and other miscellaneous spaces. The system will be composed of exhaust fans, exhaust ductwork and exhaust grilles.

3) We will prepare plans and specifications for the installation of a new commercial kitchen exhaust hood with supply and exhaust ductwork, fire suppression system, exhaust fan, make-up air handler and associated controls.

4) We will prepare whole building energy modeling for the project with the objective of determining which HVAC system and building envelope provides the best energy savings in an effort to meet the CT High Performance Building Design Standards.

C. Fire Protection Systems

1) We will prepare plans and specifications for the installation of a new fire protection system in accordance with NFPA 13

2) We will prepare plans and specifications for the installation of a new standpipe system in accordance with NFPA 14.

3) If required, we will prepare plans and specifications for the installation of a new fire pump system in accordance with NFPA 20 (if needed due to the lack of sufficient available water pressure). The fire pump system shall be complete with an electric driven fire pump, a jockey pump, an automatic transfer switch and all other associated controls. We have based our proposal on the assumption that the fire protection water supply piping shall be provided within five (5) feet of the building.

4) We will prepare plans and specifications for the installation of a new water service to the building from the local water company's point of connection. We will coordinate the service with the local Water Company.

D. Electrical Systems

1) We will prepare plans and specifications for the installation of new electrical service(s) to the building from the local utility company's point of connection. We will coordinate the service with the local utility company.

2) We will prepare plans and specifications for the installation of a new telephone and cable TV service to the building from the local utilities companies' point of connection. We will coordinate the service with the local Telephone and Cable Television Companies.

3) We will prepare plans and specifications for the installation of a new electrical distribution system throughout the building to support general receptacles, mechanical equipment, and other miscellaneous equipment.

4) We will prepare plans and specifications for the installation of new lighting, exit signage and emergency lighting. We will coordinate with your office the selection of the lighting fixtures for

all areas.

5) We will prepare plans and specifications for the installation of a new fire alarm system to meet the specific code requirements.

6) We will prepare plans and specifications for the installation of a new (building mounted) site lighting system for the parking lot and pedestrian areas.

7) We will prepare plans and specifications for the installation of an emergency generator, automatic transfer switches and associated controls. The emergency system shall support the fire pump, boiler plant, air-handling equipment, data processing equipment, emergency lights and exit signs, cooking equipment, food refrigeration equipment, one elevator, etc.

E. Energy Efficiency Rebate and Incentive Programs:

1) During the schematic design phase, we will review the available rebates and incentives that may be applicable to the Project.

2) We will meet with your office, the owner, utility companies, and/or any other agencies offering rebates and incentives to discuss possible energy saving strategies and eligibility for rebate and incentive programs.

3) We will assist your office in preparing any applications required for rebate and incentive programs and will provide any technical information required relative to the systems in our scope of work.

F. We will attend periodic progress job meetings with the design professionals and owner's representative, for coordination and progress review.

G. We will expect Revit compatible drawing files, from your office, for the work within our Scope of Work.

H. We will expect equipment cut sheets for all of the kitchen equipment. The equipment cut sheets must at a minimum indicate size and location of all required utility connections (ie, gas, water, waste and electricity).

2. Bid Period and Construction Administration Services: We will provide the following bid period and construction administration services:

A. Answer questions during the bid period and issue necessary addenda.

B. Attend a Pre-bid conference and walk through with the contractors.

C. Attend the Bid opening and assist in the evaluation of the subsequent bids and selection of the most qualified contractor.

D. Shop Drawing review and comment.

E. Attend periodic job site visits to observe the progress of construction.

F. Prepare a punch list with a follow-up field observation to confirm that the contractor has completed the necessary work.

G. Evaluate applications for payment on a periodic basis.

SCOPE OF SERVICES -- EXCLUDED

It is our understanding that the following items, in general, are not required by us and have therefore been excluded from our "Scope of Services". Any of these items can be added to our Scope of Services if you so desire.

1. We will not be providing engineering services or contract documents for structural, civil or environmental engineering or architectural services for the project.

2. We will not be providing engineering services, coordination or contract documents for site/civil work beyond 5 feet of the exterior wall of the building.

3. We will not provide commissioning services.

4. We will not provide testing, adjusting and balancing services.

5. We will not be providing an order of magnitude construction cost estimate for our work.

6. We will not be providing the services listed below within "EXTRA MISCELLANEOUS SERVICES" unless specifically requested.

SCHEDULE FOR COMPLETION OF SCOPE OF SERVICES

We should be able to meet any reasonable schedule you may have at this time. The actual completion dates will be established based on the receipt date by this office of your acceptance of this proposal.

Site Design:

A. We will prepare plans and specification for the installation of a new athletic field lighting system. This system will include all the necessary power, distribution, lighting and controls. Please note this does not include design of the structural concrete bases that support the athletic field lighting fixtures.

B. We will prepare plan and specification for the installation of electric vehicles charging stations as required by Connecticut General Statute 16-a-3a-3e. Electric Vehicle chargers will be provided for a minimum of 20% of all parking spaces on the site. This design will include all the necessary power, distribution, power poles and controls.

Net Zero Design:

A. We will collaborate with the design team to assist on a Net Zero Design.

B. We will provide building energy modeling services during all phases of design to understand the energy usage of the building. We will use the information and work with the architect to provide the lowest energy use building.

C. We will prepare plans and specifications for the installation of a new geothermal bore field. This design will include the following scope of services.

1) Geothermal well field. We will coordinate the quantity and location of wells with the site civil engineer. We will require the following information to determine the number of wells required.

2) Site/civil plans showing the locations of any utilities on site.

3) Soil boring data regarding soil type.

4) Please note this fee does not include a thermo-conductivity test which will be needed to complete this design. This cost would be by the owner.

D. We will prepare plans and specifications for the installation of new rooftop mounted, carport structure mounted or ground mount photovoltaic system which shall include:

1) Solar Modules mounted to a carport structure, flat roof or ground mount.

2) Rooftop module racking and connection plan indicating the layout and connection details for the photovoltaic racking system. Ballast plan based on racking system basis of design rack manufacturer.

3) Pre-engineered (delegated design) specifications and details for the structural carport system. We have assumed the Structural Engineer will design the basis for the structure and will coordinate with the basis of design vendor for the carport system directly.

4) Details for the ground mount structure with specifications. Please note: specifications and details do not include structural engineering. Structure bases would require review and design by a registered local Structural Engineer.

5) Inverters, combiner boxes, conduit and wiring for a complete system.

6) Utility metering, Owner Metering, data wiring and Web based monitoring systems.

Early Release Package Design:

A. We will work with the architect, owner and construction manager to issue any early release packages required to meet the project deadlines.

Demolition Package Design:

A. We will prepare plans and specifications for the demolition of the Fire Protection, Mechanical, Plumbing and Electrical system. The drawings will be an independent design package separate from the main building design.

To provide the additional professional engineering services necessary to include the Demolition Design Drawings we propose the following fees.

BILLING TERMS FOR SERVICES RENDERED

CES, Inc. shall invoice monthly for all services rendered, as a percentage complete of overall scope, and shall include reimbursable expenses monthly. Invoices shall be generated by the end of each month, and shall be directly mailed to the accounts payable department (or other entity assigned). Invoices are due and payable upon receipt.

STANDARD FORM OF AGREEMENT BETWEEN CLIENT AND ENGINEER

Finally, we understand that you will be using the AIA C401, Standard Form of Agreement document for the specific details of our contractual items. Once we have received the signed copy of the Standard Form of Agreement, we will consider this to be your acceptance of this "Scope of Services" and "The Standard Form of Agreement". This shall constitute as our notice to proceed on the Project.

Thank-you very much for the opportunity to provide you with this proposal. In the meantime, if we can be of any assistance to you, please feel free to call.

Sincerely yours,

CONSULTING ENGINEERING SERVICES, INCORPORATED

Douglas S. Lajoie

Douglas S. Lajoie, PE
Vice President

Counsilman · Hunsaker
AQUATICS FOR LIFE

EXHIBIT "B" OF AIA DOCUMENT C.401 AGREEMENT BETWEEN THE CLIENT: **THE S/L/A/M COLLABORATIVE**, AND THE CONSULTANT: **COUNSILMAN-HUNSAKER** FOR CONSULTING FOR THE **NEW WESTHILL HIGH SCHOOL.**

THIS AGREEMENT is made and entered into at ST. LOUIS, MISSOURI, this _____day of _____, 20____, by and between **THE S/L/A/M COLLABORATIVE,** hereinafter referred to as the "**Client**", with an address of _____ and **COUNSILMAN/HUNSAKER & ASSOCIATES, INC. D/B/A COUNSILMAN-HUNSAKER**, a Missouri Corporation, doing business at 10733 Sunset Office Drive, Suite 400, St. Louis, Missouri 63127-1018, hereinafter referred to as the "**Consultant**."

WHEREAS, the Client intends to design and develop an aquatic facility at the New Westhill High School located in Stamford, Connecticut hereinafter referred to as the "Project" and,

WHEREAS, the Consultant is a consultant possessing expertise in the field of swimming pool design and engineering, and

WHEREAS, the Client desires to retain the Consultant as its independent contractor for purposes of planning, design and engineering swimming pool(s).

NOW, THEREFORE, in consideration of the covenants and agreements herein contained, the parties hereto agree as follows:

I. SERVICES: The Client hereby retains the Consultant as its swimming pool design consultant for the Project which includes an indoor 50 meter by 25 yard competition pool. The scope of the services to be provided by the Consultant pursuant to this Agreement shall include:

SCHEMATIC DESIGN PHASE

One (1) 1-day site visit

A. Meet with the design team and the Client's steering committee plus any designated staff and/or stakeholder groups to discuss the Project, confirm the design program and the Client's objectives.

B. Review the design program developed by the Client regarding use of natatorium, pool, and support spaces. Review the physical characteristics and requirements identified for these areas and submit comments and suggestions to the Client.

C. Provide preliminary concepts of the pool for meeting program needs of the Client while complying with budget requirements, physical requirements and footprint limitations.

D. Provide a design narrative for the swimming pool including related systems, features, and equipment.

E. Assist Client with design considerations for the support spaces:

- Locker rooms/changing facilities
- Offices/administration
- Training/first aid room
- Meet management
- Spectator areas
- Dryland training facilities
- Storage
- Mechanical and maintenance

F. Provide schematic plans and sections for the swimming pool showing critical dimensions and features.

G. Provide a design narrative for the swimming pool.

H. Consult with the Construction Manager in developing an opinion of probable construction cost for the swimming pool and address questions regarding such estimate data for the Project. The Consultant does not guarantee opinion of probable costs.

I. If required, assist the Client in opinion of cost reconciliation for the swimming pool to bring the projected construction costs within the Project budget.

J. Provide structural design of the pool shell

- Provide criteria for the Geotechnical Consultant

K. Provide a design considerations document regarding critical natatorium design challenges addressing the issues of condensation, humidity control, paint and preparation of carbon steel, corrosion prevention and indoor air quality, this commentary will give the Client and consulting engineers a basis for developing their own design strategy to deal with those common natatorium challenges. While this commentary is the result of more than 50 years of experience observing these issues, the Client understands and agrees the responsibility for providing a successful design response to the issues is its, not the Consultant's. The Consultant is not providing engineering services for the buildings, natatorium, and support spaces.

L. Review the physical characteristics and requirements identified for the natatorium and the pool with the Client. Review preliminary Schematic Design drawings prepared by the Client and Consultants regarding the following items:

- Natatorium and support spaces
- Acoustic issues and sound considerations
- Lighting and fenestration
- Natatorium and support space materials and finishes
- Adjacencies and circulation
- Traffic patterns
- Activity program use of space and capabilities
- Spectator facilities
- Phasing of the Project
- Mechanical systems
- Hydrostatic relief system

M. Provide general resource information to the Client and consultants in the following areas:

- Acoustics
- Thermal transmission
- Vapor barriers
- Finishes
- Lighting
- Utility requirements
- Geotechnical issues influencing the pool structure.

DESIGN DEVELOPMENT PHASE

One (1) 1-day site visit

A. Provide Design Development drawings for the pool showing markings and features in plan and section.

B. Provide plan and elevation of pool filter room and chemical rooms showing pumps, filters, and water chemistry equipment to verify size of space. Indicate where electrical and plumbing coordination items are located.

C. Provide outline specifications for Division 13 - Swimming Pool.

D. Consult with the Construction Manager in developing an opinion of probable construction cost for the swimming pool and address questions regarding such estimate data for the Project. The Consultant does not guarantee opinion of probable costs.

E. If required, assist the Client in opinion of cost reconciliation for the swimming pool to bring the projected construction costs within the Project budget.

F. Provide structural design of the pool shell

- Prepare design development drawings for the swimming pool
- Prepare outline specifications for swimming pool structural items
- Assist in coordination of pool structural items with building structure and pool deck (if applicable)

G. Provide a coordination document describing the pool equipment specified with interface with the other design disciplines.

H. Provide product cut sheets to the Client for review and design team's use.

I. Review State and Local Health Codes relating to swimming pool design and construction.

J. Consult with the design team for coordination of design and engineering issues.

K. Review outline specifications prepared by the Client.

L. Meet with the Client's steering committee to discuss the design of Project.

M. Participate in remote web-based meetings via teleconference or video conference for coordination with the design team.

CONSTRUCTION DOCUMENTS PHASE

No site visits

A. Provide swimming pool drawings (AQ sheets) and submit to the Client following the general format shown below. (Refer to attachments for description of Consultant's work and interface with engineering disciplines and the Client.)

1. Pool Site Plan (building or site background from the Client)
   - Design data
   - General notes
   - Reference notes
2. Pool Plans and Sections
   - Face-to-face dimensions of the structure
   - Transverse sections
   - Longitudinal sections
   - Depth dimensions
   - Wall markings

- Wall anchors
- Underwater lights
- Recessed steps and grab rails
- Stair entries, if required
- Inlet locations
- Main drain locations
- Pool markings
- Location of depth markings and warning signs
- Depth marker schedule
- Construction plan of the pool

3. Pool Deck Equipment Plan
   - Equipment plan
   - Equipment schedule
   - Anchors
   - Starting blocks
   - Grab rails
   - Lane ropes
   - Diving equipment
   - Other miscellaneous equipment
   - Water polo layout
   - Deck mounted goal and anchor locations
   - Floating goal locations
   - Boundary markers and cup anchors
   - Timing system equipment plan
4. Diving Board and Details
   - Plan of diving stands
   - Elevations of diving stands
   - Overhead clearances for diving stands
   - Diving agitator details
   - Official requirements for diving boards
   - *Client to design vertical and horizontal structures*
5. Pool Details
   - Perimeter overflow system details
   - Wall details
   - Grab rails and recessed steps
   - Entry/exit stairs
   - Depth markers
   - Targets and lane markers
   - Stair and bench nosing detail
   - Tile joint detail
   - Deck equipment

- Starting blocks
- Timing deck box
- Handicap lift and anchor
- Underwater light
- Wedge anchor
- Stanchion anchor
- Pool floor-to-wall cove
- Toe ledge
- Moveable bulkhead
- Other miscellaneous pool features

6. Piping Plan
   - Plan of the pool
   - Surge tank location and size
   - Filter room and chemical room locations
   - Location of under floor piping and sizes
   - Building background from the Client
7. Pool Mechanical Room and Surge Tank Plans and Sections
   - Pool mechanical room piping plan
   - Pool mechanical piping diagram
   - Surge tank sections
   - Surge tank fittings, vent, and reach rod sleeve details
   - Access hatch
   - Filtration equipment
   - Recirculation equipment
8. Piping and Pool Mechanical Room Details
   - Main outlets and hydrostatic relief valve
   - Backwash and pool draining piping
   - Pump details
   - Variable frequency drive detail
   - Pipe hangers and supports
   - Flow meters
   - Wall sleeve locations
   - Water level controller
   - Fill funnel or direct fill connection
   - Water supply inlet
   - Dropout box converter
   - Static water line inlet
   - Sight sump
   - Water chemistry controller
   - Schematic of water treatment system
   - pH adjustment equipment

- Primary sanitation feed equipment
- UV system

B. Provide structural design of the pool shell

1. Provide construction documents and specifications for the pool floor slab, walls, gutters, surge tank, and tile movement joints, if any. With the absence of a qualified geotechnical report, the swimming pool structural analysis and design solution is currently based upon the use of shallow foundations. The following are specifically omitted from this agreement.
   - Deep foundations (e.g. piles, drilled piers, anchors, etc.)
   - Design of bottom slab(s) as a structural slab (slabs other than entirely ground-supported).
2. Assist in establishing testing and observation requirements
3. Coordinate pool structural documents with other disciplines
4. Comment on the effect of pool structure and systems on building structure, if any

C. Provide specifications for Division 13, Section 131100 Swimming Pool. (Refer to attachments for description of Consultant's work and interface with engineering consultants and the Client.)

1. Specifications shall include sections for:
   - General swimming pool and equipment
   - Swimming pool interior finishes, to include plaster/tile, as required.
   - A complete timing/scoreboard system
   - Movable bulkhead
2. Specifications that will be the responsibility of the Client and its respective consulting engineers include:
   - Architectural: natatorium building structure surface coatings, pool mechanical room railings, stair, ladders, signage, towers for diving platforms and boards.
   - Mechanical/Plumbing: deck drain system, pool heaters or boilers, pool heater gas, make-up air and venting, make up water, hose bibbs, and filter backwash to sanitary.
   - Electrical: pump motor starters and overload protection, underwater light power supply and junction boxes, pool equipment power distribution and connections, pool bonding and grounding per NEC680 and timing system conduits, pool mechanical room lights and circuitry.
   - Plumbing/Civil: subsurface drainage system under the pool.
   - Structural: backwash basin and pump pit.
   - Environmental/OSHA review: chemical SARA Title II, MSDS, OSHA signage and storm water permits.

D. Coordinate AQ construction drawings and specifications with Client's and design team engineers.

E. Provide progress sets of AQ sheets and specifications if requested by Client at the following design intervals:

- 50%
- 90% to 99%
- 100% (bid)

F. Participate in remote web-based meetings via teleconference or video conference for coordination with the design team.

G. Review 90% to 100% completion set of construction documents (if requested) prepared by Client's and consulting engineers for swimming pool issues.

H. Consult with the Construction Manager in developing an opinion of probable construction cost for the swimming pool and address questions regarding such estimate data for the Project. The Consultant does not guarantee opinion of probable costs.

I. If required, assist the Client in opinion of cost reconciliation for the swimming pool to bring the projected construction costs within the Project budget.

J. Provide signed and sealed construction documents by a licensed Professional Engineer in the State of Connecticut.

K. Support this phase of the design with open communication.

BID PHASE

No site visits

A. Address bidders' inquiries and furnish addenda items to the Client to clarify drawings and specifications, if required.

B. Evaluate licensed pool subcontractor bids and provide recommendation for award of a construction contract to the Client.

C. Evaluate any substitutes proposed by the contractor.

CONSTRUCTION ADMINISTRATION PHASE

Five (5) 1-day site visits

A. Review submittals (shop drawings, product information and requested substitutions by manufacturers and/or contractors) with regard to the pools and its related systems.

B. Render opinions and interpret construction documents relative to disagreements between the contractor and the Client.

C. Review contractor’s payment applications for conformity to work completed and determine if the quality of work is in accordance with the construction documents.

D. Observe construction of the aquatic related items during specific milestones throughout construction and submit a report following each site visit.

E. Provide final observation of the aquatic facility to confirm that the pool and its related equipment have been installed as designed and specified. Submit a final punch list.

F. Review the contractor's as-built drawings as well as the operations and maintenance manuals for substantial completion.

G. Maintain open lines of communication for the discussion of questions and issues as they arise in the development of the Project.

II. DRAWINGS: All of the drawings, and specifications, prepared by the Consultant as instruments of service are and shall be the property of the Consultant whether the Project for which they are made is completed or not. Provided that the Client pays all amounts due and payable to the Consultant hereunder, the Client shall be permitted to retain copies, including reproducible copies of the drawings and specifications, and shall have a non-exclusive limited license to use such for the sole purpose of constructing and operating the Project and no other purpose. All drawings prepared by the Consultant will be issued in PDF format. A REVIT model will be provided as a supplemental design tool and shall not be considered a part of the final construction document package.

The Client acknowledges that the work, plans and specifications to be prepared by the Consultant for the swimming pool design of this Project shall not be based on one supplier in nature, and shall be fit for their intended purpose unless in the opinion of the Consultant there are no equal products available.

Except for reference and coordination purposes in connection with future additions or alterations to the Project, the drawings, specifications and other documents prepared by the Consultant are instruments of the service for use solely with respect to the Project and, unless otherwise provided, the Consultant shall be deemed the author of all such instruments and shall retain all common law, statutory and other reserved rights, including copyright. The Consultant's drawings, specifications or documents shall not be used by the Client or permitted by the Client to be used by others on other projects except with the Consultant's prior written agreement, which may be withheld in the Consultant's sole discretion, and with appropriate compensation to the Consultant.

III. AGENCY REVIEW AND APPROVAL OF PLANS AND SPECIFICATIONS: All permits that are to be obtained from health departments and jurisdictional authorities by the Client, relating to the work completed by the Consultant shall be done with the Consultant's assistance in filling out forms and answering questions. Once an authorized representative of a regulatory agency having jurisdiction over the Project including, but not limited to the health department approves the original design, the Consultant will not be required to revise or address any design changes or field modifications with enactment or revision of codes, laws or regulations or official interpretations, which necessitate changes to the previously prepared instruments of service; provided the Consultant will work with

the design team in determining a solution at an agreed upon charge for such services. All necessary notices, obtaining all permits and payment of all government fees, and other costs in connection with construction related work, including filing all necessary drawings, preparation of all documents and obtaining all necessary approvals of governmental departments having jurisdiction for the purpose of construction completion and occupancy shall not be the responsibility of the Consultant.

IV. RELEASE: The Client hereby releases the Consultant from any and all claims, now existing or hereafter made, as a result of, construction means, methods, techniques, sequences or procedures, and shall not be responsible for the acts or omissions of any contractor, subcontractor or any other person performing any of the construction work on the Project or for the failure of any of them to carry out the work as set forth in the plans and specifications to be prepared by the Consultant. However, if during the field observation the Consultant becomes aware of an act or omission, or a failure by a contractor, subcontractor or any other person performing any of the construction work, to carry out the work in accordance with the plans and specifications, the Consultant shall bring same to the attention of the Client; provided the Consultant has no obligation to do so or liability hereunder for the failure to do so.

The Consultant makes no warranty, guaranty or certification; expressed or implied, as to its findings, recommendations, plans, specifications, or professional advice. The Consultant will endeavor to perform services in accordance with the generally accepted standards of practice in effect at the time of performance. The Client recognizes that neither the Consultant nor its sub consultants owe a fiduciary responsibility to the Client. Except as expressly set forth herein, the consultant makes no representations, warranties or conditions of any kind, whether oral or written, whether express, implied, or arising by statute, custom, course of dealing or trade usage, with respect to the subject matter of this agreement or in connection with this agreement. The consultant specifically disclaims any and all implied warranties or conditions of merchantability, and fitness for a particular purpose. The terms of this Paragraph IV shall survive termination of this Agreement and completion of the Project

V. HOLD HARMLESS: The Client shall be responsible for the design of the building, not the Consultant. The Client agrees to and shall hold harmless, indemnify and defend the Consultant from all claims, liability, losses or damages relating to building design, including without limitation to claims, liability, losses or damages related to condensation, moisture damage, excessive humidity, absence or poor performance of vapor barriers and corrosion of surfaces.

To the fullest extent permitted by law, and notwithstanding any other provision of this Agreement, the total liability, in the aggregate, of the Consultant and the Consultant's officers, directors, partners, employees, agents and Consultant’s subconsultants, and any of them, to the Client, and anyone claiming by, through or under the Client for any and all claims, losses, costs, or damages whatsoever arising out of, resulting from, or in a anyway related to the services performed by the Consultant hereunder including without limitation

related to any drawings, specifications, reports, conclusions and recommendations provided by the Consultant, shall not exceed $1,000,000 of professional liability. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law. Notwithstanding anything contained herein to the contrary, in no event will the Consultant be liable for any indirect, special, incidental, consequential, exemplary or punitive damages or costs of procurement of substitute goods or services arising out of or related to this Agreement, including but not limited to damages for lost data, revenue or profits, however caused and arising under any theory of liability, including but not limited to contract or tort (including products liability, strict liability and negligence), and whether or not such party was or should have been aware or advised of the possibility of such damage. The terms of this Paragraph V shall survive termination of this Agreement and completion of the Project.

VI. FEES: The Consultant's fee shall be a lump sum of including **seven (7)** site visits. Travel expenses are not included in this lump sum and will be billed separately from this fee. (Site visits in excess of **seven (7)** shall be authorized by the Client in writing in advance and compensated with fee and reimbursable expenses as additional services according to the Additional Services Fee Schedule in Paragraph IX.) The Consultant may incur reasonable and necessary expenses for travel in providing the services and the additional services, if applicable, to the Client. In addition to all other amounts payable by the Client herein, the Client shall reimburse the Consultant for reasonable travel expenses incurred by the Consultant's officers, agents and employees that are directly related to the provision of the services. Travel expenses shall include but are not limited to the costs of airfare, rental cars, parking, lodging and meals related to the provision of the services. The Consultant shall provide an itemized account of such travel expenses, together with receipts, vouchers or other supporting materials.

VII. PAYMENT SCHEDULE: The Consultant shall be paid monthly based on percentage complete for the following phases:

The Consultant shall submit monthly invoices for services and reimbursable expenses incurred, based upon the percentage of the Consultant's services completed at the time of billing. The Client shall make payments to the Consultant within thirty (30) days of the invoice date. The Consultant may, after giving seven (7) days written notice to the Client, suspend services until payment is made in full of all past due invoices for this Project.

Reimbursable expenses shall consist of travel expenses and shall be billed at cost.

Should any additional tasks be required to be performed by the Consultant which are not expressly set forth in Paragraph I of this Agreement, including without limitation opinion

of probable costs or re-design of pool shapes, features, or systems due to program change by the Client, the Consultant will execute such tasks when authorized by the Client and will be compensated for same as additional services according to the Additional Services Fee Schedule in Paragraph IX.

VIII. PROJECT SCHEDULE: The Project schedule shall be maintained as outlined in AIA - C 401 Agreement between the Client and the Consultant. Should the Project phase schedule be delayed, through no fault of the Consultant, the Consultant's schedule will be extended commensurate with the delays created by others.

IX. ADDITIONAL SERVICES: All additional services must be authorized in writing. The Consultant shall be paid for additional services according to the following fee schedule (if not listed as a lump sum):

Principal	$285.00/hour
Director	$250.00/hour
Project Manager	$220.00/hour
Project Engineer/Architect	$185.00/hour
Design Associate	$155.00/hour
Administrative	$90.00/hour
Site Visit	$1,800.00 /day *
* Excluding travel expenses	

The following services are available as additional services to the base scope and fee provided by the Consultant.

A. **Renderings**

The Consultant shall create a 3D rendering of the pools, pool decks, and adjacent spaces. The Architect's building models will be incorporated into the comprehensive rendering. The Consultant will coordinate with other disciplines as needed.

Fee: To be negotiated based upon agreed scope of services.

B. **Record Documents**

The Consultant shall prepare a set of reproducible record drawings for its work showing significant changes in the work made during construction based on marked-up prints, drawings and other data furnished by the contractor to the Consultant. The Consultant makes no representation as to the compatibility of these files with others hardware or software beyond the specified release of the referenced specifications.

C. **Contractor Warranty Phase**

The Consultant will provide a pool commissioning evaluation report as a supplement to the standard punch list. In addition, a follow-up site observation prior to the expiration of the Contractor's one (1) year warranty date will be completed for confirmation that all systems are operating properly. A report will be issued identifying items that need to be addressed prior to the end of the warranty period.

Fee: To be negotiated based upon agreed scope of services.

X. MISCELLANEOUS: This Agreement constitutes the entire understanding between the parties and cannot be modified except by their mutual written consent. In the event of a conflict between this Agreement and the terms of any other agreement or document pertaining to the Project, the terms and provisions of this Agreement will govern.

The terms of this Agreement are enforceable by the parties but are not enforceable by any third party. Nothing contained herein shall, or shall be construed, to create any rights in any third party.

Any notice or other communication required or permitted hereunder shall be in writing and shall be delivered personally or sent by certified, registered or express mail, postage prepaid. Any such notice shall be deemed given on the date delivered personally, or if mailed, three (3) days after the date of deposit in the United States mail, addressed to the Client or the Consultant, as applicable, at the address set forth above.

If any provision or portion thereof, of this Agreement is found to be invalid, unlawful or unenforceable to any extent, such provision of this Agreement will be enforced to the maximum extent permissible by applicable law so as to affect the intent of the parties, and the remainder of this Agreement will continue in full force and effect. The parties will negotiate in good faith an enforceable substitute provision for any invalid or unenforceable provision that most nearly achieves the intent and economic effect of such provision.

All provisions of this Agreement that, judging by their terms and context, are intended to survive, shall survive the termination of this Agreement.

This Agreement may be executed and delivered by facsimile and the parties agree that such facsimile execution and delivery will have the same force and effect as delivery of an original document with original signatures, and that each party may use such facsimile signatures as evidence of the execution and delivery of this Agreement by all parties to the same extent that an original signature could be used.

IN WITNESS WHEREOF, the parties have hereunto set their hands on the day and year first above written.

ACCEPTED:
COUNSILMAN/HUNSAKER
& ASSOCIATES, INC.
D/B/A COUNSILMAN-HUNSAKER

Signature

Carl Nylander, P.E. – Principal

May 18, 2023
Date

THE S/L/A/M COLLABORATIVE

Signature

Printed Name & Title

Date

Client Information:
Kemp A. Morhardt, AIA, NCARB
Principal • Architect
The S/L/A/M Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033
Office: 860-368-4221
Cell: 860-712-9233
Email: KMorhardt@slamcoll.com

ATTACHMENTS TO AGREEMENT

Description of CONSULTANT work and interface with Engineering Consultants and Client:

MECHANICAL:

1. The Consultant will provide operational flow requirements (GPM) for potable water and sewer discharge for the pool. If there is a site-specific limitation, the Consultant will work with the Mechanical Engineer to size the backwash catch basin, lift pumps and/or flow limitation to meet the requirements of the site specific limitation for backwash. Equipment room sumps, sump pumps and tanks provided by other consultants.
2. The Consultant will develop a layout drawing of the pool mechanical room, showing where water and sewer connections are required.
3. Hydrostatic relief valve design will be designed and specified by the Consultant to provide temporary relief during short periods of pool draining for maintenance, not for construction de-watering.
4. Consultant shall recommend locations for hose bibbs in the natatorium and pool mechanical room based on operation and maintenance needs, if requested.
5. Surge tank sizing, location and piping by the Consultant.
6. The Consultant will recommend a minimum operating water temperature for the pool. The Consultant will provide connection tees in the pool return line for a bypass loop to the heating system.
7. Deck drain system selection and layout shall be by the plumbing or site engineer. The Consultant will provide a cursory review and comment on the deck drain system, if requested.
8. Under drain system to pump out below pool subsurface water before emptying pool should be on plumbing or civil sheets. The Consultant will sketch locations and suggest a lateral detail and a pipe riser detail with cover, if required.

ELECTRICAL:

1. The Consultant will provide pool pump motor and pool equipment electrical requirements to Client for Electrical Engineer for its design of the pool equipment electrical systems.
2. Consultant will provide pool pump VFD equipment and electrical requirements. Electrical Engineer to furnish power to VFD and from VFD to pool pump motor. Electrical Engineer to provide all other motor starters and disconnects.
3. The Consultant will provide a general description of lighting criteria.

STRUCTURAL:

1. The Consultant to provide catalog cut copies of manufacturers' literature for mounting dimensions and recommendations on deck equipment and equipment requiring structural support greater than a standard floor slab.
2. The Consultant to size and locate the pump pit and backwash catch basin. The Project Structural Engineer will provide structural design of these elements.

Crabtree McGrath
ASSOCIATES, INC.

May 5, 2023

Mr. Kemp A. Morhardt, AIA
Principal
The S/L/A/M Collaborative
80 Glastonbury Blvd.
Glastonbury, CT 06033

Project: Stamford Westhill High School
Foodservice Equipment Consulting

We are pleased to be asked to work with your firm and would like to offer this Proposal as our Working Agreement. The project, as we understand it, involves the design of the kitchen and servery for approximately 3000 students Our services for foodservice equipment planning shall include:

1.0 PHASE ONE Program Verification & Schematic Design Phase

1.1 Attend the usual Architect/Client design conferences for the purpose of developing the requirements of the foodservice facilities throughout the building.

1.2 Provide for review and approval:

.1 Space allocations for each functional component of the foodservice system
.2 1/8" scale equipment plans for Architect/Client review
.3 Suggested list of equipment
.4 Equipment budget estimate

2.0 PHASE TWO Design Development Phase

2.1 Evaluate the Schematic Design Phase with Owner/Architect/Engineer conferences as required to integrate foodservice requirements with related architectural, mechanical and electrical aspects of the work.

2.2 Develop and refine the reviewed Schematic Design drawings into 1/4" = 1'-0" scale plans. The CAD system utilizes Windows based AutoCAD and Revit.

2.3 Prepare and distribute electronic copies of the foodservice equipment cut book with:

.1 Equipment schedule listing electrical, plumbing, gas and ventilation requirements
.2 Engineering information document
.3 Notated individual cut sheets

2.4 Review and update the equipment budget.

161 West Main Street, Georgetown, Massachusetts 01833 phone: 978.352.8500
mail@crabtree-mcgrath.com

3.0 PHASE THREE Construction Documents Phase

3.1 Refine the Design Development drawings into detailed plans at 1/4" = 1'-0" scale.

3.2 Drawings will include:

.1 Equipment layout
.2 Equipment schedule with complete connection data
.3 Equipment stub-in plan with related connection details
.4 Details, sections and notes as may be necessary to adequately illustrate the intent of the design requirements

3.3 Specifications prepared for foodservice equipment in conformance with the format of other sections of the construction documents.

3.4 Review and update the equipment budget based on the completed Contract Documents.

3.5 Assist in the preparation of Board of Health documents to include license application and the plan review forms.

4.0 PHASE FOUR Bidding or Negotiation Phase

4.1 Review foodservice bid documents and prepare such clarification through addenda as may be required by inquiries from bidders.

4.2 Assist in the evaluation of bid proposals for foodservice equipment, and provide recommendations for award as may be requested.

5.0 PHASE FIVE Construction Administration Phase

5.1 Check Kitchen Equipment Contractor submittals consisting of rough-in drawings, equipment cut books, and fabrication shop drawings, to ensure the design intent and quality of equipment is maintained in conformance with the Contract Documents and bid proposal.

5.2 Perform field inspections and prepare punch lists for installation work at the project site as requested by and in cooperation with the Architect.

5.3 Attend the demonstration/start-up of the foodservice facilities to explain system and operation concepts.

5.4 Check the warranty and maintenance manuals prepared by the kitchen equipment contractor.

6.0 The Consultant's Fee

The above paragraphs constitute the total proposal and may not be amended without agreement by both parties and the agreed terms noted hereon or attached hereto.

If the foregoing is acceptable to you, this Proposal may form our Agreement if you will sign and return a copy for our files. Thank you.

Very truly yours,

CRABTREE McGRATH ASSOCIATES, INC.

John Sousa, Jr.
President

Signature of Acceptance

Name Title

Date of Acceptance

CODE RED CONSULTANTS
(617) 500-7633 | INFO@CRCFIRE.COM
(617) 500-2074 | WWW.CRCFIRE.COM
154 TURNPIKE ROAD, SUITE 200
SOUTHBOROUGH, MA 01772

June 1, 2023

Kemp Morhardt
The S/L/A/M Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033

RE: Westhill High School
Proposal to Provide Code Consulting Services

Dear Kemp:

Code Red Consultants, LLC (Consultant) is pleased to provide this proposal for Fire Protection, Life Safety, and Accessibility Code Consulting Services to The S/L/A/M Collaborative (Client) for the Westhill High School project located in Stamford, CT. The project includes the construction of a new high school to replace the existing Westhill High School located at 125 Roxbury Rd. The proposed building is anticipated to include approximately 437,750 sf of classrooms, a library/ media center, a cafeteria and kitchen, a gymnasium, and an indoor natatorium. A phased demolition of the existing high school is planned to facilitate the transition of occupancy from the existing building to the new one.

The base scope of services outlined herein are specific to the new high school building. Effort associated with the existing building and standalone natatorium structure are provided as optional scopes of service.

The information in this proposal is based on the following documents:

- Request for Proposals (RFP) dated 05/03/2023 and Addenda 1-3
- Email request for proposal received 05/04/2023

Code Red Consultants proposes to serve in the role of fire protection, life safety, and accessibility code consultant on the project and will be primarily responsible for creating the Code Report for the project as well as performing design reviews of the proposed building for compliance with the major fire protection, life safety, and accessibility requirements as outlined in the Code Report.

Where "applicable codes" is referenced in this proposal, it shall include the fire protection and life safety provisions of the following codes and standards, unless specifically noted otherwise:

- Connecticut State Building Code
- Connecticut State Fire Safety Code
- Connecticut Fire Prevention Code
- 2010 ADA Standards

BASE SCOPE OF SERVICES

The base scope of services to be provided under this agreement are as follows:

Concept Design

1. Participate in a conference call with the design team to discuss the project goals, schedule, and next steps.

2. Perform an architectural drawing review of up to 3 conceptual schemes in accordance with the applicable codes. Comments will be documented on annotated PDF drawings.

3. Prepare a high-level code narrative for the project which outlines the major fire protection and life safety features required in accordance with the applicable codes.

4. Provide up to 8 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

Schematic Design

5. Develop a Code Report that documents the major fire and life safety requirements of the applicable codes pertaining to:
    - Applicable codes
    - Occupancy Classifications
    - Construction type and allowable height/area
    - Fire/smoke rated walls and partitions
    - Vertical openings
    - Interior finishes
    - Fire protection systems
    - Means of egress
    - Accessibility scoping
    - Plumbing fixture factors

6. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

7. Perform a plumbing fixture evaluation for this phase of the project to determine the number of plumbing fixtures required including water closets, urinals, lavatories,

drinking fountains, and service sinks. It is assumed that any program occupant load information that will be utilized as part of this analysis will be provided by the Client.

8. Attend up to 1 virtual meeting(s) with the Client, Authorities Having Jurisdiction, or other project stakeholders during this phase of the project.

9. Provide up to 16 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

Design Development

10. Update the Code Report previously prepared based on the design changes and revised to reflect a level of detail consistent with this phase of the project.

11. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

12. Prepare a code compliance summary sheet and life safety plans for the project. The code compliance summary sheet will outline the major fire, life safety, and accessibility code-related information pertaining to the project. The life safety plans will be created in AutoCAD or Revit format utilizing architectural backgrounds or a model provided by the Client. Up to 2 submittal(s) are included in this phase and will illustrate the following information:
    - Occupant loads
    - Number of exits
    - Egress capacities
    - Travel distances
    - Fire/smoke rated walls and partitions

13. Perform a plumbing fixture evaluation for this phase of the project to determine the number of plumbing fixtures required including water closets, urinals, lavatories, drinking fountains, and service sinks. It is assumed that any program occupant load information that will be utilized as part of this analysis will be provided by the Client.

14. Attend up to 1 virtual meeting(s) with the Client, Authorities Having Jurisdiction, or other project stakeholders during this phase of the project.

15. Attend up to 1 meeting(s) with the Client, Authorities Having Jurisdiction, or other project stakeholders during this phase of the project.

16. Provide up to 16 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

Construction Documents

17. Update the Code Report previously prepared based on the design changes and revised to reflect a level of detail consistent with this phase of the project.

18. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

19. Prepare a code compliance summary sheet and life safety plans for the project. The code compliance summary sheet will outline the major fire, life safety, and accessibility code-related information pertaining to the project. The life safety plans will be created in AutoCAD or Revit format utilizing architectural backgrounds or a model provided by the Client. Up to 2 submittal(s) are included in this phase and will illustrate the following information:
    - Occupant loads
    - Number of exits
    - Egress capacities
    - Travel distances
    - Fire/smoke rated walls and partitions

20. Prepare and submit a complete application for a state modification for plumbing fixtures, including the application and all supporting documentation.

21. Attend up to 1 virtual meeting(s) with the Client, Authorities Having Jurisdiction, or other project stakeholders during this phase of the project.

22. Attend up to 1 meeting(s) with the Client, Authorities Having Jurisdiction, or other project stakeholders during this phase of the project.

23. Provide up to 16 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions

- Perform other services at the request of the Client within the budgeted amount

Construction Administration

24. Provide up to 32 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

OPTIONAL SCOPE OF SERVICES – NATATORIUM

The optional scope of services to be provided under this agreement are outlined below for the separate natatorium building.

Schematic Design

1. Develop a Code Report that documents the major fire and life safety requirements of the applicable codes pertaining to:
    - Applicable codes
    - Occupancy Classifications
    - Construction type and allowable height/area
    - Fire/smoke rated walls and partitions
    - Vertical openings
    - Interior finishes
    - Fire protection systems
    - Means of egress
    - Accessibility scoping
    - Plumbing fixture factors

2. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

3. Perform a plumbing fixture evaluation for this phase of the project to determine the number of plumbing fixtures required including water closets, urinals, lavatories, drinking fountains, and service sinks. It is assumed that any program occupant load information that will be utilized as part of this analysis will be provided by the Client.

4. Provide up to 8 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls

- Conduct code reviews
- Respond to code questions
- Perform other services at the request of the Client within the budgeted amount

Design Development

5. Update the Code Report previously prepared based on the design changes and revised to reflect a level of detail consistent with this phase of the project.

6. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

7. Prepare a code compliance summary sheet and life safety plans for the project. The code compliance summary sheet will outline the major fire, life safety, and accessibility code-related information pertaining to the project. The life safety plans will be created in AutoCAD or Revit format utilizing architectural backgrounds or a model provided by the Client. Up to 1 submittal(s) are included in this phase and will illustrate the following information:
    - Occupant loads
    - Number of exits
    - Egress capacities
    - Travel distances
    - Fire/smoke rated walls and partitions

8. Perform a plumbing fixture evaluation for this phase of the project to determine the number of plumbing fixtures required including water closets, urinals, lavatories, drinking fountains, and service sinks. It is assumed that any program occupant load information that will be utilized as part of this analysis will be provided by the Client.

9. Provide up to 8 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

Construction Documents/ Bidding

10. Update the Code Report previously prepared based on the design changes and revised to reflect a level of detail consistent with this phase of the project.

11. Perform up to 1 drawing review(s) of the architectural floor plans for conformance with the major fire, life safety, and accessibility provisions summarized by the Code Report. Comments will be documented on annotated PDF drawings.

12. Update the code summary sheet and life safety plans previously prepared based on design changes and revised to reflect a level of design consistent with this phase of the project. Up to 1 submittal(s) are included in this phase of the project.

13. Provide up to 8 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

Construction Administration

14. Provide up to 16 hours of general consulting services to perform miscellaneous tasks such as:
    - Attend meetings
    - Participate in conference calls
    - Conduct code reviews
    - Respond to code questions
    - Perform other services at the request of the Client within the budgeted amount

OPTIONAL SCOPE OF SERVICES – EXISTING HIGH SCHOOL

The optional scope of services for the existing high school include general consulting services on an hourly basis as requested by the Client. General consulting services can include a survey of the existing building, code research, email correspondence, phone conversations, development of life safety plans preparation of a code report, attendance at virtual meetings, drawing reviews, etc. These services will be completed on a time and materials basis.

COMPENSATION

ADDITIONAL SERVICES

The proposed fee for the project is limited to the Base Scope of Services outlined within the Proposal. The Base Scope of Services and associated fee are contingent on the project schedule and phasing included in the RFP or as otherwise indicated in this proposal. We reserve the right to request an additional service should the project schedule or phasing deviate by more than 120 days. Additional Services can be provided if requested under a separate agreement between the Consultant and the Client.

TERMS & CONDITIONS

The agreement between the Consultant and the Client includes the Consultant's Terms and Conditions, which are attached to this proposal and incorporated in their entirety. The Client acknowledges that it has received and reviewed the Consultant's Terms and Conditions and agrees to be bound thereby.

APPROVAL

The pricing in this proposal remains valid for a period of 60 days. You may indicate your acceptance by signing a copy and returning it to us as authorization to proceed.

Sincerely,
Code Red Consultants, LLC

Kevin N. Lynch, P.E.

Approved by (check all that apply):

- ☐ Base Scope of Services
- ☐ Optional Scope of Services: Natatorium Building
- ☐ Optional Scope of Services: Existing High School

The S/L/A/M Collaborative

_____

Name Date

PROPOSAL FOR SERVICES

Proposal # 660752

May 9, 2023

Kemp Morhardt, Principal
The S/L/A/M Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033

Project: Stamford Westhill High School
459,893 Sq. Ft.

Kemp Morhardt:

D'Agostino & Associates (DA) is pleased to have this opportunity to present this proposal to THE S/L/A/M COLLABORATIVE (SLAM) for technology, audio-visual, and physical electronic security design & support services for the above-mentioned project (Owner). The services defined within this proposal encompass a range of activities we believe will be required by the Owner for the design & documentation of these related systems for this project.

1) SUMMARY

Our technical support team will work with SLAM and the Owner to coordinate all aspects of the technology systems defined within this proposal with other services (e.g. Electrical, HVAC, Mechanicals & Environmental requirements) and report to SLAM in the fulfillment of our services defined within this proposal. These services include meeting attendance for coordination with SLAM and other trades as mandated by this project. Our support team will seamlessly integrate ourselves within the overall project structure to provide our services in the most efficient manner.

2) OBJECTIVE

Under the direction of SLAM, DA's team will provide services to include Narratives, Designs, Budgetary Pricing Models, Bid Documentation, Bid Management, and Construction Administrative Services for the following systems:

A. Voice, Data, Video & Security Cabling Infrastructure
   1. Define & design horizontal and backbone cabling infrastructure for the voice, data, video and security systems within the workspaces which shall include documentation of pathways, labor, all devices, installation procedures, & testing requirements.

B. Telecommunication Rooms Design
   1. Define size and environmental requirements of all required telecommunication rooms including cooling, power & fire suppression requirements. This information will be provided to the projects MEP to ensure an efficient and functional space. Electrical design and specification for this electrical equipment is not provide within our scope.
   2. Define & design devices including racks, server cabinets, service provider demarcations, field terminations, & all technology devices to be installed into these rooms, as required.
   3. Define the fiber and copper backbone connectivity the Main Equipment Room and each tele-communication room and the Service Providers demarcation points.

C. Wireless Access Point (Wi-Fi) Systems
   1. Define the wireless access point (Wi-Fi) system to meet the requirements of this program:
   2. Provide the preliminary predictive design and modeling heatmaps for WAP placement and anticipated coverage.

3. Review findings with the owner's IT representatives to review predictive WiFi design.
4. Adjustment of the predictive design based on feedback from IT representatives.
5. Development of Bid specifications and drawing package.
6. Meeting (1) to finalize specifications with school IT representatives.

D. Master Clock System
1. Define & design a new Master Clock system to meet the needs of the Owner and interface with the Public-Address systems.
2. This system shall include clocks in each gathering space.

E. Audio-Visual Classroom Technology
1. Define & design the classroom technology to include interactive displays, classroom sound systems, with priority override of the PA system, enhanced sound and/or voice uplift systems for speech (audio enhancement), and ADA compliant assisted listening systems.
2. Define and specify all related outlet boxes, conduit, and pathways for these AV systems.
3. Define all power requirements for these systems to the MEP for inclusion within the electrical documents.

F. Audio-Visual Systems
1. Ensure compliance with the Owners AV standards.
2. Conference room AV system design; video conferencing capabilities.
3. Provide intra-room pathway and conduit plan.
4. Coordinate with furniture vendor for conference table connectivity, if applicable.
5. Define all power requirements for these systems to the MEP for inclusion within the electrical documents.

G. Public Address System
1. Define & design the required equipment defined by the Owner and create proper bid documentation to solicit qualified bids for a public-address system.
2. These systems shall include local sound systems within the cafeterias and gymnasiums, which shall interface with the main PA systems for announcements, if required.
3. These systems shall include ADA compliant assisted listening systems in large gathering spaces including cafeterias and gymnasiums.

H. Auditorium Audio-Visual Theatric System
1. Define & design the required equipment as defined or requested by the Owner to create proper bid documentation for the solicitation of qualified bids for audio-visual system.
2. These systems shall include key-note speaker and theatric audio-visual systems as defined by the Owner and typical of High school/facility.
3. These systems shall include an ADA compliant assisted listening system.
4. This proposal does not include acoustical design or lighting systems.

I. Physical Electronic Security Systems
1. Define the following security system to meet the needs of the Owner:
    a. Intrusion detection and alarm system including sensors, keypads, and all required devices for a complete system.
    b. Access control system credential readers, servers, & peripheral devices.
    c. Video surveillance system of cameras, a video management system, and all servers and storage devices required for a complete system.
    d. Visitor Management System.
2. Assist this design team with physical electronic security related decisions that will affect this facility; both interior and exterior.

3. This security design shall follow the guidelines defined within the State of Connecticut, School Safety Infrastructure Council's most current report. DA shall administer each requirement of this report to all pertinent design team members.

J. Technology FF&E Systems

1. The following technology devices shall be specified within the later, Technology / FF&E phase of this project.
2. The design and specification required for the technology devices and systems mentioned below are included within this proposal.
    a. Network Active Electronics
    b. Servers
    c. Uninterrupted Power Supplies and PDU's.
    d. Wireless Access Points and controllers or cloud based managed systems.
    e. Phone System – VoIP.
    f. Digital Messaging Signage and digital messaging software.
3. Document preparation of these systems shall adhere to the CT State Department of Education guidelines to attain proper approvals from the DAS Office of School Construction Grants & Review.
4. All meetings that DA is required to attend for the Office of School Construction Grants & Review, to attain final approvals are included.
5. Narratives and Estimates as required by the Owner and the DAS Office of School Construction Grants & Review are included.
6. Bidding & CA services are included.
7. All services required from our office to solicit pricing from qualified contractors via the state of CT, DAS contract portal, and/or a public bid are included.

3) SCOPE OF SERVICES

The first priority of DA's support team will be to perform a "Requirements Analysis" with the Owner and appropriate staff to define the required system(s) parameters and formulate technology recommendations, narratives, budgetary models and bid specifications as required by the program.

A. Client Interviews – Program Requirements

1. Our Senior Designers will meet with the technology and security stakeholders to understand the program requirements, standards, and requests of the Project Stakeholders.
2. Our office will prepare detailed questionnaires to be reviewed with the Stakeholders in preparation and for discussion at the scope review meetings.
3. Technology Interviews shall include:
    i. Meeting with the technology Stakeholders to determine the technology requirements of overall program including cabling preference, telecommunication room layout preference, and discussion of the devices that will be supported by the cabling system.
4. Security Interviews shall include:
    i. Meet with security Stakeholders and/or security committee to review the overall program requirements.
    ii. Meet with the local authorities, including Local Police, First Responders, Building Committees, and Public Officials, as requested by the Owner, to ensure their concerns are understood and all associated parties understand the design decisions being made.
    iii. Set up manufacturer demonstrations, should it be requested by the Stakeholders.
    iv. Review of the School Safety Infrastructure Council's report with the Security Stakeholders explaining how the mandates may affect their facility and Security System preferences.
    v. Modeling of the Security Camera Fields of View to ensure the Owner understands the camera views that can be expected of a successful installation.

B. Interface with Design Team

1. Attend weekly project coordination meetings, as requested, pertaining to the technology, audio visual, and security related systems.
2. Weekly or Bi-Weekly Revit Model Publishing to the design team, per project requirements.
    i. DA's model shall have every wall or ceiling mounted device modeled for coordination with the Design Team.
3. Provide power and cooling requirements to the MEP design team as required of our data rooms, audio visual, and security systems.
4. Distribution and explanation of the SSIC requirements with the design team.
5. Coordination of the Door Hardware design and specifications to ensure proper integration with the access control system.

C. Narratives

1. DA shall create all narratives requested by SLAM for all systems defined in Article 2 of this proposal.

D. Budgetary Estimates

1. DA shall create detailed budgetary models for all technology systems indicated within Article 2 of this proposal as requested.
2. DA shall collaborate with SLAM and the Owner to modify and adjust the technology and security systems to achieve a satisfactory budget.

E. Bid Documentation

1. DA's Bid Documentation Package shall include detailed written specifications and architectural drawings of each system indicated within Article 2 of this proposal.
2. The written specifications shall adhere to the most recent MasterFormat requirements. These written specifications shall describe the desired systems and include detailed descriptions for every major product to be used within the construction of these systems. The written specifications shall mandate installation procedures and testing constraints for each technology and security system indicated within this proposal.
3. Detailed architectural drawings shall describe the locations of each device. These drawings and or specifications shall include plan views, riser & wiring diagrams, and all pertinent documentation required to obtain a completely installed system for each technology system indicated within Article 2 of this proposal.
4. All bid documents shall comply with all State Department of Education requirements and shall be presented and packaged in the format necessary to gain approval from the State Office of School Construction Grants (OSCG).

F. Bid Management

DA shall provide the following support services:

1. Prepare all documentation to solicit competitive pricing from GC and/or contractors.
2. Respond to all Requests For Information.
3. Issue all supplemental information (if required) for a complete bid response of the bidding contractors.
4. Analysis of all bid submittals.
5. Make recommendations for each technology and security system to SLAM and the Owner as required.

G. Construction Administration Services

The following Construction Administration services shall be included for all of the technology systems defined within this proposal:

1. Respond to all Requests For Information.
2. Review and comment on all product submittals.

3. Perform periodical and final installation site inspections and issue progress reports and punch lists.
4. Track and confirm vendor compliance to contractual obligations.
5. Track and verify all change order requests.
6. Coordinate change order requests and ensure implementation.
7. Perform periodic and final inspections for verification of the specified systems.
8. Inspect and confirm vendor compliance with all final punch list items for a complete system.

H. On Site Visits:

1. DA shall attend a maximum of (15) fifteen on site project meetings; for project and planning meetings with the Owner, installation contractors, GC, CM, and SLAM as required for informational meetings and to ensure that the technology installations as defined within our discipline are coordinated, scheduled, and installed per our construction specifications.

4) EXCLUSIONS

A. Commissioning of any system or assembly of systems defined within this proposal.
B. Procurement or installation of any system or assembly of systems defined within this proposal.
C. Scheduling and managing the staff of contractors for any system or assembly of systems defined within this proposal.
D. Distributed Antenna Systems (DAS)
E. Desktop Equipment; computers, mobile devices, printers and peripherals.
F. Acoustical design or theatrical lighting systems.
G. Creation or recommendations of Emergency / Security Operation Policies and Procedures
H. Participation in value engineering when the work of DA is not material to the efforts.
I. Additional work required due to deviations from approved drawings and specifications during construction.
J. Services after issuance of the final certificate of payment or more than 60 days after substantial completion of the project.
K. Services in connection with preparation for legal proceedings or attendance at public hearings or other similar meetings.

5) PRICING

6) CHANGE CONTROL

A. Either the Owner or DA may propose a change (an addition, deletion, or other revision to the statement of work). A customer change request/authorization form will be used to communicate changes. The form will describe the change and the effect the change will have on the project. The form must be signed by both parties to authorize the implementation of the change.

B. If both parties are unable to agree on the amount by which the charges will be increased or decreased, and, if in the Owner's opinion, the work must proceed before an agreement can be reached, a not-to-exceed amount shall be mutually agreed upon. A change request/authorization will then be executed to:

1. Proceed with the work as far as the not-to-exceed amount will allow.
2. Keep daily records of all labor employed in connection with such work.

7) TERMS & CONDITIONS

A. SLAM shall provide architectural files to D'Agostino & Associates in .DWG or .RVT electronic format. D'Agostino & Associates assumes that all background drawings are available in this type of electronic file format.

B. Pricing presented under this proposal shall remain valid for 60 days from the date of this proposal.

C. Payment schedule for services shall be billed in monthly increments and based on the progress of each phase.

1. Unless otherwise noted within SLAM's master agreement with the Owner, DA's billing shall be paid in full within a Net 60 days, which allow 30 days for payment to be received by the owner, and an additional 30 days for the payment to be received by DA. Should payments exceed the Net 60 days, notification of such will be made to SLAM, which may result in a "Stop Work" condition as authorized by DA, until payments are made in their entirety.

D. Design Responsibility – DA employees and design consultants are not licensed architects or engineers. DA does not provide architectural or engineering services, nor provide an architect's or engineer's professional seal on contract documents. DA will not accept any architectural or engineering responsibility or liability for safety and code compliance.

E. Reimbursable Expenses are included within this proposal.

F. In the event that additional site visits are requested by either SLAM or the owner, which are in addition to those indicated above, an additional fee of $1,800 per man per visit shall be incurred by SLAM and shall be in addition to this proposed fee.

G. In the event that the construction schedule extends past its planned completion date derived at construction commencement and, caused to issues unrelated to DA, DA shall negotiate a fair and equitable hourly rate to complete this project on a T&M basis.

8) SIGNATURES

D'Agostino & Associates Proposal # 660752
Project: Stamford Westhill High School
459,893 Sq. Ft.

Agreed to By:

The S/L/A/M Collaborative:		**D'AGOSTINO & ASSOCIATES, LLC:**	
Signature:	_____	Signature:	
Title:	_____	Title:	Founder & CEO
Name:	_____	Name:	Marc J D'Agostino
Date:	_____	Date:	May 9, 2023

d'agostino & ASSOCIATES

June 6, 2023

Mr. Kemp A. Morhardt, AIA, NCARB
Principal
The S/L/A/M Collaborative, Inc.
80 Glastonbury Boulevard
Glastonbury, CT 06033

RE: Hazardous Building Material Consulting Services
Westhill High School
125 Roxbury Road
Stamford, Connecticut
Eagle Proposal No. 23 - 207

Dear Mr. Morhardt:

Eagle Environmental, Inc. (Eagle) is pleased to submit this proposal to The S/L/A/M Collaborative, Inc. (Client) to provide hazardous building material consulting services to support the demolition of the existing Westhill High School located at 125 Roxbury Road in Stamford, Connecticut (the Site). It is our understanding that the City of Stamford intends to demolish the existing Westhill High School and construct a new school building on the Site. This proposal includes pre-demolition hazardous building material inspection services, preparation of plans and technical specifications for hazardous building materials abatement. A monthly rate for construction administration has been provided as requested in Addendum 4 but no project monitoring time is included in our base bid services.

This work will be performed cost effectively and in compliance with applicable laws and regulations of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA), U.S. Environmental Protection Agency (USEPA), and the State of Connecticut Department of Public Health (CTDPH) and the Department of Energy and Environmental Protection (DEEP).

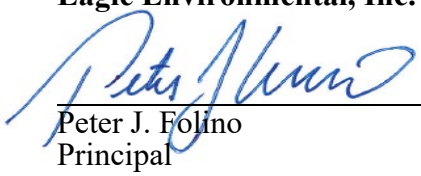
Eagle Environmental, Inc. is an Equal Opportunity Employer and does not discriminate against any person or group of persons on the grounds of race, color, religious belief, age, marital status, national origin, gender, sexual orientation, mental and physical disabilities, or other basis prohibited by the laws. We confirm that we will comply with the nondiscrimination and affirmative action provisions of the State of Connecticut.

Mr. Peter Folino will be the primary contact for any questions related to this proposal. His contact information is as follows:

1. Address: 8 South Main Street, Suite 3, Terryville CT 06786
2. Phone No.: (860) 589-8257 x104
3. Email: pfolino@eagleenviro.com

We look forward to the opportunity to work with The S/L/A/M Collaborative, Inc., and the City of Stamford on this project.

Sincerely,
Eagle Environmental, Inc.



Peter J. Folino
Principal

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8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

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ATTACHMENTS

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

PROJECT UNDERSTANDING

It is our understanding that the City of Stamford is seeking proposals from experienced and responsible firms to provide Architectural/Engineering services for the New Westhill High School located at 125 Roxbury Road, Stamford, CT (the "Site"). The approximately 452,000 square foot existing Westhill High School will be demolished following the construction of a new 459,893 square foot school building on the Site.

Eagle's services to SLAM will include a pre-demolition level hazardous building materials inspection of the existing academic building. The VOAG building is not included within our scope of services. Site environmental, a Connecticut Environmental Policy Act (CEPA) study, and project monitoring services during hazardous building materials abatement are not included within Eagle' scope of services. Eagle has included construction administration services during hazardous building materials abatement to support the construction manager and City of Stamford and their project monitoring consultant.

Eagle Environmental, Inc. will provide a pre-demolition level hazardous building materials inspection of the existing ~452,000 square foot three-story steel frame and masonry building to comply with the United States Environmental Protection Agency (USEPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) regulation. The original Site building was constructed in 1971 with two additions constructed in 2007. The original building was built with electric heat but was converted to dual fuel in the early 2000's. Mechanical systems are generally insulated with a combination of fiberglass, Polyvinyl chloride (PVC), with limited hand packed mudded cement fittings. Four Smith 450 Mills steam boilers are the heart of the heating plant. Unit ventilators were observed in some classroom spaces. Floors are predominantly finished with 12"x12" floor tile in the classrooms and corridors with ceramic tile in the kitchen areas, natatorium, and lavatories and carpeting in the Media Center. The main gymnasium flooring is refinished wood. The auxiliary gym contains a rubberized floor, and the 2007 gymnasium addition also contains a wood floor. Walls are a combination of CMU, brick, and gypsum. Ceilings are primarily suspended systems with acoustical tiles. The exterior facades are brick, and the roofs are flat.

The Site building will be thoroughly inspected by performing a room-by-room inspection of the existing building including the additions. The inspection can be performed during the 2023 summer academic recess. Eagle has reviewed the AHERA report and associated asbestos bulk sampling reports prepared by Hygenix, Inc. and provided with the Request for Proposal (RFP). The inspection will include a semi-destructive sampling approach including coring through slab floors and facades and removal of areas of brick to inspect for concealed suspect materials including damp proofing and vapor barriers. Areas along the foundations shall be excavated by hand to inspect for exterior damp proofing on foundation walls. All areas will be patched and filled to be made weather tight. If the wood gymnasium flooring will be removed, the floors will also require coring to inspect beneath the finish wood layer. The rubberized floor within the auxiliary gym will be tested for Total Mercury. Rubberized floors may contain Phenyl mercuric acetate (PMA), which was used as a catalyst in polyurethane floor systems. Roofs will be inspected and sampled. Roofs will be patched by a roofing contractor sub-contracted by Eagle to ensure any existing warranties are not voided or alternatively can be patched by a roofing contractor hired directly by the City of Stamford.

The Department of Administrative Services Division of Construction Services requires the management of Polychlorinated Biphenyls (PCBs) in caulk for all school construction projects receiving State funding. Eagle has included a set number of samples for PCB source materials should the City decide to sample. Alternatively, the waste materials may be managed under a presumptive approach to ensure the caulk materials are properly disposed of. Eagle's scope of

services does not include preparation of federal PCB notifications (Self-Implementing Clean-Up and Disposal Plans, Performance Based Plans, etc) should PCBs in concentrations ≥50 parts per million (ppm) be identified.

The inspection process is anticipated to be completed in 5-7 weeks. Design documents will be completed 2-3 months after the inspection is complete.

Eagle is currently working with SLAM on two (2) large school renovation projects including the demolition of the Torrington High/Middle School and renovation of the Bulkeley High School, Hartford, CT. In addition, Eagle has recently performed several pre-demolition/renovation inspections of school buildings including the following:

1. Burns Latino Studies Academy, Hartford, CT (~82,000 SF) – Inspection completed 2020
2. Cutler Elementary School, Groton, CT (~70,000 SF) – Inspection completed 2019
3. Memorial Boulevard School, Bristol, CT (~96,000 SF) – Inspection completed 2019
4. MLK Elementary School, Hartford, CT (~167,000 SF) – Inspection completed 2018

Eagle's proposed scope of work is further defined in this Proposal but our general understanding of the scope of work is as follows:

Pre-Demolition Hazardous Building Material Inspection

Before commencing any inspection work, Eagle will first meet with the Project Team comprising of the City's designated representative, Program Manager, and the Architect to review the scope of work and discuss hazardous building materials inspection project approach.

Eagle will perform a pre-demolition level hazardous building material inspection of the existing Westhill High School. Eagle's general project approach will include a comprehensive hazardous building material inspection of the interior and exterior of the existing structure. The process will start with the review of previous inspection reports including the asbestos AHERA reports for the school. A comprehensive asbestos-containing material inspection will be performed of the accessible interior and exterior spaces of the structure. We will separate the inspections by construction dates to ensure that each homogeneous sampling area is properly characterized. Based on existing records, the Westhill High Scholl was constructed in 1971 with two additions constructed in 2007. We will also test each roof and apply patches on the test cuts. Eagle has carried a professional roofing company to patch the roofs should the roof still be under warranty.

We will perform a lead-based paint screening of the structure to evaluate painted, stained, and varnished building surfaces for lead. We will perform lead waste characterization of the anticipated waste streams for the building to determine if any hazardous lead waste will be generated as a result of building demolition. Eagle will perform a visual inspection for the presence of universal waste materials in the building. The universal waste inspection will not include any testing of materials.

We will develop an inventory of potential PCB-containing materials in the structure. The inventory will allow the City of Stamford to make an informed decision on timing and scope of PCB sampling, if any. Our current scope of work includes seventy-five (75) samples for testing suspect PCB-containing materials. Initially, we will perform a visual inspection for the presence of suspect PCB-containing caulk and glazing compounds as well as other building materials that may potentially be PCB-containing. Testing of suspect PCB-containing materials shall not be performed without discussion with the Project Team and authorization by the City of Stamford. The City of Stamford may elect to assume materials to contain PCBs without testing and specify them for proper disposal in an appropriate landfill. Eagle has included disposal analysis by TCLP of three (3) potential PCB waste streams that will be generated during building demolition. The TCLP sample analysis will not be performed without prior consent from the City of Stamford.

The inspection will be initiated upon a written notice to proceed from the Client. The inspection will be semi-destructive in nature and will be coordinated with the A/E firm and City of Stamford. If requested, we can perform the inspection during off hours or academic recesses to minimize disruption to normal building operations. Eagle will prepare a detailed inspection report for the building, which will include abatement and remediation cost estimates. The cost estimates will be generated utilizing current industry standard pricing for labor and disposal.

Project Design Plans and Specifications

Eagle will prepare plans and specifications for the removal and disposal of regulated and hazardous building materials identified during the inspection. The technical specifications will be developed following the Architect's specification format. We will prepare Division 1 and 2 technical specifications for asbestos-abatement, lead-based paint demolition, universal waste reclamation and PCB waste management. We will develop scaled drawings for abatement and remediation utilizing the architect's base plans (if available). If CAD files are not available of the existing building, Eagle may provide not-to-scale schematic drawings to identify areas and materials for abatement. If applicable, Eagle will prepare an Alternative Work Practices (AWP) to support specific abatement scenarios.

Eagle will prepare the environmental checklists required by the State of Connecticut Office of School Construction Grants and Review (OSCG&R) and will attend the OSCG&R Pre-Bid Conformance Review (PCR) meeting.

We will participate in scope development review meetings with the City of Stamford, the architect and construction manager, and will attend a pre-bid meeting at the Site to review the scope of work with the Contractors. We will respond to RFI's during the Bid process. Eagle will participate in scope review meetings of the apparent low bidder(s) to review their bids prior to the Contract award.

Project Monitoring

Project monitoring services will be performed under a separate contract by the City of Stamford's on-call environmental consultant. Eagle has not included project monitoring services in our scope of services.

Construction Administration

Eagle has included construction administration services during hazardous building materials abatement. The construction administration services will include general project oversight, meeting attendance, review of contractor payment requisitions, proposed change orders. Our construction administration services are based on a three-month abatement period.

STATEMENT OF QUALIFICATIONS

Established in 1994, Eagle is a Connecticut based Hazardous Building Materials Consulting firm located at 8 South Main Street, Suite 3 in Terryville, Connecticut. Eagle provides hazardous building materials consulting and construction management services throughout Connecticut and various New England States. Eagle offers complete inspection, abatement design, and abatement monitoring services and environmental site assessments (Phases I, II and III), tank inspection and underground storage tank (UST) removal monitoring and closeout reporting, remedial design, and soil management and reuse strategies during construction. The firm and its staff are licensed to provide asbestos and lead-based paint services and have extensive experience in issues relating to structural contamination from PCBs, lead, mercury, and mold. Eagle is approved by the American Industrial Hygiene Association and certified by the Connecticut Department of Public Health for asbestos air sample analysis by Phase Contrast Microscopy (PCM). Eagle is a Connecticut certified Small Business Enterprise.

Eagle understands the commitment necessary to execute a successful project within budgeted cost and time schedule. School buildings offer an even greater challenge due to occupancy issues, schedules, public relations, and additional layers of regulatory requirements. It is our knowledge of these regulatory requirements, good relationship with the regulating agencies, attending parent and public meetings, and experience managing fast track projects with aggressive schedules that qualifies us for this project. Eagle has a successful track record managing both small- and large-scale projects, many of which pertain to occupied school buildings. We will commit the necessary personnel and resources required to ensure that our contractual obligations for this project are fulfilled in a timely manner. As a State of Connecticut Small Business Enterprise, Eagle can offer professional consulting services at non-corporate pricing. Our tenure in this industry reflects our quality services, good reputation, and competitive pricing. We have previously provided and are currently providing these services to many schools, cities, towns, and municipalities throughout Connecticut.

Eagle's staff of professionals is cross-trained in asbestos, lead-based paint and other hazardous building materials inspection and monitoring services as well as environmental site assessment and remediation services. This allows the same individual to perform various field operations allowing for cost effective services. All consultants undergo mandated refresher training for maintaining licenses and additional in-house training to ensure that they are familiar with the latest changes in industry standards. Our technical staff has diverse experience that enables Eagle to consult on a variety of environmental projects. Eagle consistently completes challenging projects dealing with vacant as well as occupied structures within the budgeted time and cost parameters. Our in-house protocols have been developed over time and have allowed us to provide cost effective and accurate consulting services. Eagle believes that hazardous building materials should not bring construction to a halt, but rather they should be considered an integrated step in the design and construction process -- *one that is adequately planned and budgeted for in advance.*

Within the past five years, Eagle has inspected, designed, and monitored several school construction projects that were partially funded through the State of Connecticut Office of School Construction Grants and Review (OSCG&R). Eagle has a good relationship with the reviewing members of OSCG&R, and they are familiar with our work. The following is a list of current or recently completed projects, which require(d) similar services to that of this Project and were also approved by the OSCG&R:

- Hartford Public Schools: Bulkeley High School (Ongoing)
- Hartford Public Schools: Burns Latino Studies Academy (Ongoing)
- City of Torrington: Torrington High/Middle School (Ongoing)
- Town of Brookfield: Huckleberry Hill Elementary School (Ongoing)

- Town of Groton: Cutler Elementary School (2019/2020)
- City of Bristol: Memorial Boulevard School (2019/2020)
- Hartford Public Schools: Martin Luther King Elementary School (2018-2020)
- Town of Tolland: Birch Grove Primary School (2019)
- Town of N. Stonington: N. Stonington Middle and Elementary Schools (2018-2019)
- Hartford Public Schools: Weaver High School (2017-2019)
- Town of Stratford: Stratford High School (2016-2020)
- Town of Rocky Hill: Moser School (2017)
- Town of Plainville: Linden Street School (2016)
- Town of East Hampton: East Hampton High School (2015-2017)
- City of New Haven: Bowen Field Athletic Complex (2015)
- Windsor Locks High School (2014-2015)
- City of Waterbury: JFK High School (2014)
- Hartford Public Schools: West Middle School (2013)

The list of school projects all required hazardous building material inspection, design, and monitoring elements as well as conformance with the OSCG&R. Eagle provided turnkey consulting services and worked closely with each project team including the Owner, Project Architect, Construction Manager, School Construction Program Manager and Contractor. The Torrington High/Middle School, Town of Groton Cutler School, Town of Tolland Birch Grove Primary School, Town of Stratford Stratford High School, Town of Rocky Hill Moser School Town of Plainville Linden Street School were complete mass demolitions of the existing buildings.

The Windsor Locks High School, Linden Street School, Stratford High School, and East Hampton High School all required Variances to perform asbestos abatement while the schools were in session. The East Hampton High School required eight (8) separate variances and the Windsor Locks High School required five (5) separate variances. These projects were performed over the course of two (2) to three (3) years under several different phases. Eagle worked in conjunction with the State of Connecticut Department of Public Health (CT DPH), local building officials such as the fire marshal, local health departments and building inspector, to ensure the variances not only addressed pertinent asbestos regulations but also addressed potential fire code issues such as emergency egress during abatement and construction and the use of fire rated materials for separation barriers between the construction area and abatement area, and dust control monitoring during demolition. Eagle performed full time asbestos project monitoring during all abatement activities as a condition of the variance approval. Air sample results were reviewed and transmitted to the CT DPH throughout the course of each project. In addition, Eagle performed dust control monitoring during the demolition phase of the Linden Street School project.

Eagle has completed several large school projects that required preparation of a Self-Implementing Cleanup and Disposal Plan (SIP) and/or PCB Remedial Action Plan (RAP). Eagle developed and submitted for approval a SIP and RAP for the Windsor Locks High School Project, a SIP for the City of New Haven Bowen Athletic Field Complex and a RAP for the North Stonington Public Schools.

Eagle has a high level of experience in working with the USEPA PCB Regional Coordinator and the State of Connecticut Department of Energy and Environmental Protection (DEEP) on PCB plans, interim controls between testing and remediation and project close out. Our knowledge in these areas is extremely useful in guiding the Client through the potential pitfalls of PCB testing in an occupied school facility.

Eagle is familiar with the PCB Bulk Product Waste Reinterpretation, which allows building materials that have become contaminated as a result of leaching from PCB's to be removed and disposed of with the source material as long as the materials are removed together. This will prevent the generation of PCB Remediation Waste under several scenarios. Eagle will explore the different options related to PCB remediation and waste disposal scenarios based on the results of

any testing (if performed). The Windsor Locks High School project included the removal of large curtain wall window systems, which were caulked with PCB-containing caulk in concentrations greater than 50 parts per million. The entire window system was permitted to be removed and disposed of as PCB Bulk Product Waste under the USEPA's reinterpretation.

Eagle maintains an excellent professional relationship with the State of Connecticut Department of Public Health (DPH). Our strong relationship with DPH and their confidence in Eagle's team serves our Clients well. We routinely develop solutions for technically challenging projects with input from DPH. Having an open line of communication with DPH on the design development phase of a project ensures that our technical approach satisfies applicable regulatory requirements and meets the expectations of the regulators while supporting the overall goals of the project. Eagle has developed numerous Alternative Work Practices (AWP's) and Asbestos Variances to meet challenging site-specific conditions through creative project approaches.

Firm's Familiarity with Laws/Regulations

Our Project Managers are thoroughly conversant with the Federal and State Regulations as they pertain to asbestos, lead, and PCB work. These include but are not limited to United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutant (NESHAP) 40 CFR Part 61, USEPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, CT-DPH Standards of Asbestos Abatement 19a-332a-1 through 16, CT-DPH Asbestos Containing Materials in School Regulation 19a-333a-1 through 23, OSHA Asbestos Construction Standard 29 CFR 1926.1101, USEPA PCB Standard 40 CFR Part 761 and the State of Connecticut Department of Public Health (DPH) Lead Poisoning Prevention and Control Regulation 19a-111-1 through 19a-111-11. On a regular basis, we deal with the State agencies for approval of Alternative Work Practices (AWP) to reduce the cost of abatement and Variance Applications to perform asbestos abatement while the school is in session. We are also familiar with the USEPA approval process of PCB Remediation Plans through USEPA Region 1 Office in Boston, Massachusetts and have got several remediation plans approved.

Personnel and Training

Our Principal, Peter J. Folino, is a "hands-on" business owner who routinely contributes to the technical aspects of our projects through on-site management of field staff, direct participation of project design and alternative work practice preparation and client interaction. Mr. Folino's expertise serves as an asset to every project and all our Clients. He is actively involved in day-to-day operations and quality assurance and quality control.

Eagle believes in a mission of excellence through teaching and learning. Our staff routinely attends in-house professional development training, seminars, and annual refresher training. Eagle's Principal and project managers communicate information to technical staff gained through personal experience in the industry. We firmly believe that ongoing training and professional development is a key factor in building a strong and competent team. Eagle currently employs eighteen (18) full-time employees.

Eagle maintains a staff of trained and licensed inspectors, project designers and project monitors. Our professionals are all crossed-trained in asbestos, lead based paint, PCB, mold, radon and other hazardous building materials inspection and monitoring services. This allows the same individual to perform various field operations allowing for cost effective services. All technical staff members participate in the Asbestos Analyst Testing (AAT) by American Industrial Hygiene Association Asbestos Analyst Registry (AAR) and attend continuing education and annual refresher training by State of Connecticut approved training providers. We also conduct in-house training for our staff to keep them abreast of the latest regulatory changes and updates.

All Eagle hygienists to be assigned for on-call services will meet the certification and licensing requirements of the State of Connecticut, Department of Public Health Regulations Section 20-440-1 through 20-440-9 and 20-441, and the Environmental Protection Agency 40 CFR 763, Appendix C to Subpart E, Asbestos Model Accreditation Plan (MAP).

Equipment

Eagle has an adequate supply of equipment to provide the services requested in a timely manner. This includes but is not limited to high and low flow pumps, Phase Contrast microscopes, rotometers, sampling media, XRF analyzers, IAQ and moisture meters, infrared camera etc. Eagle also has an arrangement with US Environmental to rent specialized equipment, if necessary.

If a job requires industrial type heavy equipment Eagle will retain the services of a professional company to operate such equipment. Eagle can retain the services of a professional roofer/mason if the test cuts need to be professionally patched following sample collection if the City does not have a roofing company under contract.

Laboratory Services

Eagle utilizes State of Connecticut Department of Public Health (CT-DPH) approved laboratories for asbestos Polarized Light Microscopy and Transmission Electron Microscopy analyses of asbestos bulk and TEM air samples. The selected laboratory will be accredited by the National Institute for Science and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) and by the American Industrial Hygiene Association (AIHA). We also use CT-DPH approved laboratories for analyses of mold bulk, swab, tape lift and air samples. The selected laboratory will be accredited by the American Industrial Hygiene Association (AIHA) for mold analysis and participate in the Environmental Microbiology Laboratory Accreditation Program (EMLAP).

Eagle utilizes Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut for lead waste characterization, paint chip, soil and drinking water sample analyses and PCB bulk, wipe, air, and soil sample analyses.

Eagle utilizes Radon Testing Corporation in Elmsford, New York for analyses of radon samples.

If the job requires specialized analysis Eagle utilizes services of other laboratories such as Environmental Health Laboratory in Cromwell, Connecticut or Con-Test Analytical in East Longmeadow, Massachusetts.

1. Inspection Services

Asbestos-Containing Materials (ACM)

Inspections and Abatement Reports Review

Eagle will first review existing inspection reports and past abatement records before inspecting the building. The AHERA reports will provide useful information regarding past asbestos-related activities. The information elicited from existing reports can minimize redundancy in sampling. We may perform confirmatory sampling on certain materials that have been determined to be non-ACM during previous inspection(s).

Building Inspection

Eagle will conduct a semi-destructive NESHAP pre-demolition inspection of suspect asbestos-containing materials in the building that will be impacted by proposed demolition. This process will include locating and sampling the suspect materials identified within and on the structure. The inspections will focus on all interior spaces of each building, exterior facades, roofs, and other structures such as tunnels and connectors that may be impacted by the work. We have included a professional roofer to assist in roof test cuts and patching of the roof. Estimated quantities of ACM will be developed to assist in developing abatement costing estimates. The asbestos inspection work shall be performed by State of Connecticut licensed asbestos inspector(s).

Bulk Sampling

We will collect samples of suspect bulk materials for analysis by Polarized Light Microscopy (PLM) using EPA approved protocol in accordance with accreditation of the National Institute of Standards and Technology (NIST). This sampling will be performed in accordance with the USEPA requirements for asbestos identification. Eagle Environmental, Inc. will not duplicate sampling of materials already known to be asbestos-containing, however confirmatory sampling of certain materials determined to be non-ACM may be conducted. Eagle anticipates collecting approximately five-hundred and fifty (550) asbestos bulk samples.

Sample analyses

The samples of the suspect asbestos containing materials will be sent to a State of Connecticut approved laboratory, for analyses. Each set of samples will systematically be analyzed until one sample in the set is determined to contain asbestos. Upon determination that a sample in the set contains asbestos, analysis of the remaining samples in the set will be discontinued and the City will be charged for only those samples that will be analyzed. If no asbestos is observed during analyses of the set of samples, the suspect material will be determined to be negative for asbestos content.

Non-friable ACM

The USEPA recommends that Transmission Electron Microscopy (TEM) analyses be performed on certain non-friable suspect materials found to be negative by PLM. Non-friable Organically Bound Transmission Electron Microscopy (NOB – TEM) analyses are especially designed to identify asbestos fibers in organically bound non-friable materials. Eagle may confirm certain negative PLM results with a NOB - TEM analyses. Eagle has included twenty-five (25) samples for analysis by the NOB - TEM method.

Friable ACM

Certain samples of friable materials shown to contain less than 10% asbestos may be analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Eagle has included fifteen (15) samples for analysis by the PLM Point Count Method.

Lead-Based Paint

Eagle will conduct lead-based paint (LBP) screening using an X- Ray Florescent (XRF) analyzer. The purpose of this screening is to determine if LBP exists within or on the structure. This is the initial testing in determining if hazardous lead waste material will be generated because of demolition activities. Additionally, the XRF sampling will provide useful data to contractors contemplating work at the site. This data will assist the contractor in developing a personal air monitoring approach to maintain compliance with OSHA 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule.

Following the XRF screen, we will perform calculation for lead waste characterization sampling based on the contribution of leaded materials into the waste stream. We will analyze the waste streams by the Toxicity Characteristic Leachate Procedure (TCLP) method to determine if any hazardous lead waste will be generated during the renovation and/or demolition activities. Eagle will identify, where necessary, any lead-based painted materials that may require special disposal.

We will utilize the Sample, Composite and Demolish method of TCLP sampling for a demolition scenario. These methods of TCLP sampling are consistent with the State of Connecticut DEP guidance on disposal of leaded materials in the renovation and demolition industries. Eagle has included three (3) samples for analysis by TCLP lead.

PCB/DEHP Containing Light Ballasts

Eagle will conduct a visual inspection for the presence of lighting ballasts at the school building and the house. If present, florescent light ballasts will be evaluated to determine their potential for containing PCBs or DEHP. We will record the locations and estimated quantities of light ballasts throughout the building and on the building's exterior. Lighting ballasts that are energized may not be suitable for complete inspection. No sampling shall be conducted of the ballast.

PCB Containing Equipment and "Source" Materials

Eagle will first provide a written inventory of each "source" material in different sections of the building that could potentially contain PCBs. We will schedule a meeting with the Project Team to discuss the List to determine the Owner's desired course of action regarding the various materials on the List. The City of Stamford may opt to forgo any PCB testing and dispose of the construction waste stream as PCB Bulk Product Waste or perform exclusion testing in an effort to rule out certain large-scale items as PCB-containing. Eagle will develop a list of suspect PCB-containing building materials during the inspection.

With authorization from the City of Stamford, Eagle will conduct bulk sampling of "source" materials for the presence of PCB's. The sampling will involve the removal of bulk caulk materials using hand tools to collect representative samples. Razor knives and hand chisels will be utilized to collect samples of the soft source samples. Tools utilized to collect samples will be decontaminated prior to and in between successive sampling using a soap and water rinse followed by a hexane wash to prevent cross contamination of samples. Each sample will be placed in an

individual, pre-cleaned two-ounce glass container, sealed with a Teflon–lined cap, labeled, and placed on ice packs in a cooler with accompanying Chain of Custodies. Phoenix Environmental Laboratories, Inc. of Manchester, CT will analyze the samples using EPA Soxhlet extraction method 3540C and analytical method SW846 8082. We will repair each sample site with a silicon-based caulk material. Eagle has included seventy-five (75) source samples for PCB analysis and three (3) samples for PCB TCLP analysis for disposal.

Mercury Vapor Lamps

Eagle will conduct a visual inspection for the presence of Mercury containing lamps associated with the building. This includes fluorescent and Sodium vapor lamps. We will provide the location, size, and estimated quantity of fluorescent lamps throughout the building and on the building's exterior.

Mercury Containing Thermostatic Controls

Eagle will conduct a visual inspection for the presence of Mercury containing thermostatic controls associated with the building. Certain thermostatic controls and switches are known to contain Mercury. Mercury is a liquid at room temperature and is a good conductor of electricity. Because of these properties, Mercury is useful in various types of thermostatic controls. We will inventory the location and quantity of each thermostatic control.

Mercury Flooring Testing

Eagle will collect up to five (5) samples of the polymer floor in the auxiliary gymnasium for total mercury analysis. We will collect three (3) samples of the polymer floor for a waste characterization determination if mercury is identified in the bulk flooring. The Mercury floor shall be analyzed by the Toxicity Characteristic Leachate Procedure (TCLP) method to determine if the floor will require disposal as a RCRA hazardous waste. Eagle will also collect ten (10) samples of the concrete floor below the polymer floor to determine if Mercury has leached into the underlying substrate. The samples will be analyzed for Total Mercury. A total of fifteen (15) Total Mercury Samples and three (3) Mercury TCLP samples have been accounted for in this Proposal.

Chlorofluorocarbons

Eagle will conduct a visual inspection for the presence of compressors containing Chlorofluorocarbons. The most common type of Chlorofluorocarbons is Freon. The inspection will focus on coolers, freezers and Heating, Ventilation and Air Conditioning (HVAC) equipment that generally contains Freon gas as the cooling agent. We will provide an inventory of equipment that contains compressors with Freon gas. The Freon gas must be reclaimed if the equipment that contains the gas will be impacted resulting in a potential release.

Pre-Demolition Inspection Report

We will develop a pre-demolition hazardous building materials inspection report for the building. The final report will provide an inventory of the identified hazardous building material including the location and estimated quantity of each type of material. The report will include cost estimates for abatement and consulting necessary to support the demolition of the building. The report will also include single line floor plans that will depict the layout of the building and the roofs with sample locations, all sample logs, laboratory chain of custodies, accreditations, and licenses.

2. Abatement Design Services

Alternate Work Practice Submittal

If applicable, Eagle's Asbestos Project Designer will apply for an Alternate Work Practice (AWP) to the State of Connecticut Department of Public Health (DPH) to request a site-specific variance from the Asbestos Abatement Standard. AWPs are variances that the DPH will issue on a case-by-case basis that enables the abatement contractor to modify their abatement procedures to accommodate site specific conditions. Our Asbestos Project Designer will submit AWPs as necessary to support the various abatement scenarios that may be encountered during the projects. AWPs may ultimately reduce the abatement cost by providing alternative methods of abatement for buildings undergoing demolition.

Abatement Design

Eagle will develop hazardous materials abatement specifications, drawings, and a scope of work. The Specifications, drawings and the scope of work can be included with the project's Contract Documents to solicit competitive bids for hazardous materials removal. This proposal assumes existing CAD files of the building will be available for our use. Eagle will prepare a Schematic Design (estimate) following completion of the hazardous building materials inspection. We will update cost estimates at the Design Development (DD) and Contract Document (CD) phases. Eagle will attend a cost estimate reconciliation meeting for each design phase. Our design services do not include preparation of any USEPA notifications for PCBs.

The Technical Specifications are performance-based specifications that provide minimum performance requirements for abatement procedures. Procedures that are addressed include but are not limited too applicable regulations, Submittals and Notices, Worker Protection, Equipment and Waste Decontamination, Tools and Equipment, Proper Execution of the Work, Maintenance of Enclosure Systems, Asbestos Removal Methods, Visual Inspection, Clearance Testing, and Waste Disposal.

The technical specifications will include the following Division 1 specification sections:

- Hazardous Materials General Conditions (Section 010100)
- Scheduling and Phasing (Section 010160)
- Unit Prices (Section 010260)
- Hazardous Materials Contract Closeout (Section 017001)

The technical specifications will include the following Division 2 specification sections:

- Mercury Remediation (Section 020500)
- Selective Demolition for Hazardous Materials Abatement (Section 020750)
- Asbestos Abatement (Section 020800)
- Universal Waste Materials Reclamation (Section 020820)
- Lead-Based Paint Awareness (Section 020900)
- Polychlorinated Biphenyls (PCB) Waste Removal (Section 021100)

The drawings will be developed utilizing CAD generated existing condition drawings provided by the A/E firm. This fee proposal assumes these drawings will be available for our use in AutoCAD Version 2019 LT.

Eagle will prepare the environmental checklists required by the State of Connecticut Office of School Construction Grants and Review (OSCG&R) and will attend the OSCG&R Pre-Bid Conformance Review (PCR) meeting.

We will assist the client in the bid process including attending a pre-bid meeting with the contractors, reviewing all bids received and contractor qualifications and making recommendations. We will participate in a scope review meeting with the apparent low bidder(s) to review their understanding of the scope of work and pricing.

The abatement of the existing building will be performed while school is in progress in the new building. A variance to perform abatement while school is in session will be needed for a under a "partial occupancy" scenario. Eagle will develop one variance to perform abatement while school is in session.

Not included within our design services' scope of work is the preparation of a soil management plan to address polluted soils.

3. Hazardous Materials Abatement Monitoring and Construction Administration

Abatement Monitoring

Hazardous building materials abatement monitoring will be performed under a separate contract by the City of Stamford's consultant. No project monitoring services or fees are included in our Proposal.

Construction Administration

Eagle will assign a Senior Project Manager to assist the Construction Manager with the management and administration of the abatement remediation projects. These duties will include, assisting the Construction Manager with abatement and remediation project management; reviewing abatement/remediation contractor applications for payment and requests for change orders; attending weekly job meetings while abatement and/or remediation activities are underway and coordination of the work with the Owner's project monitor. The construction administration services are based on a three (3) month abatement schedule.

ATTACHMENT A

FEE PROPOSAL & UNIT RATES

ATTACHMENT B

KEY PERSONNEL & PROJECT TEAM

KEY PERSONNEL & PROJECT TEAM

Eagle's project team currently consists of eighteen (18) full-time employees. Eagle's team is comprised of a Principal, a Licensed Environmental Professional (LEP), three (3) Senior Project Managers, a Project Manager, Senior Environmental Consultants and Environmental Consultants. The team is supported by an Office Manager and two (2) administrative assistants. Eagle has a full-service auto-CAD department capable of developing single line schematic drawings to full size scaled drawings and site plans.

Eagle's structure ensures that someone is always available to answer urgent questions or respond to emergency situations. Our fully staffed office supports the daily operations of active field work and report writing. Our administrative staffs are trained at the technical level to better serve our clients and assure quality. Our technical team of managers and consultants routinely meets with the administrative staff to ensure our clients' objectives are being met on all levels. Eagle's volume of work requires strict coordination between managers and administrative staff to ensure project deliverables are completed on time.

Peter J. Folino
Principal
Project Role: Principal in Charge
Years with Firm: 27
Related Experience: Principal in Charge Weaver High School, Dr. Martin Luther King Jr., Bulkeley High School, Burns Latino Studies Academy, Windham High School, Huckleberry Hill Elementary School, Torrington High School, Memorial Boulevard School (Bristol)

Mr. Folino will serve as the Principal in Charge for each project. Mr. Peter J. Folino is the Principal of the firm. Mr. Folino has over thirty (30) years of hazardous building materials consulting experience and obtained his Bachelor of Science Degree from Springfield College in Springfield, MA. As the President of the firm, Mr. Folino oversees the quality of services provided by Eagle Environmental, Inc. and guides the firm's management team. He is involved with the everyday operations on a technical and administrative level. Mr. Folino serves as laboratory director for the in-house asbestos analysis laboratory.

Mr. Peter Folino is a licensed asbestos inspector, designer and project monitor and a licensed lead inspector/risk assessor and planner/project designer in the State of Connecticut. He participates in the American Industrial Hygiene Association (AIHA) Asbestos Analyst Registry. Mr. Folino is an active member of the Connecticut Lead Poisoning Elimination Task Force. As a member of the task force, Mr. Folino helped develop revised state regulations pertaining to lead-based paint testing, abatement, and clearance.

Mr. Folino is currently serving as the Principal in Charge of the Bulkeley High School Renovate as New project, and served as the Principal in Charge for the the Cutler Elementary School demolition project, the Stratford High School demolition project, the Torrington High/Middle School demolition project, the City of Bristol Memorial Boulevard Renovate as New Project, the Burns Latinos Studies Academy Renovate as New Project and several other large school renovation projects in Connecticut.

In addition, Mr. Folino has an extensive background in Public Housing rehabilitation projects funded by the Department of Economic and Community Development (DECD) and the Connecticut Housing Finance Authority (CHFA).

Christopher Liberti
Vice President of Operations
Project Role: Senior Project Manager/Inspector
Years with Firm: 24
Related Experience: Senior Project Manager Weaver High School, Dr. Martin Luther King Jr., Bulkeley High School, Burns Latino Studies Academy, Windham High School

Mr. Liberti is an experienced consultant with twenty-four (24) years of experience in the area of hazardous building materials consulting as it pertains to inspection, design, monitoring, and construction administration for hazardous materials. Mr. Liberti serves as Eagle Environmental, Inc.'s senior project manager and is responsible for completing and managing some of Eagle's largest projects. He has substantial working knowledge of Occupational Safety and Health Administration (OSHA) guidelines and regulations.

Mr. Liberti has performed field sampling for potential personal and area air contamination. He has completed training in OSHA Hazardous Waste Operations and Emergency Response as well as Supervisor/Competent Person Training for Deleading of Industrial Structures. Mr. Liberti has completed NIOSH 582 equivalent training in Sampling and Evaluating Airborne Asbestos, as well as the 40-hour Asbestos Abatement Supervisor Training. Mr. Liberti is a licensed asbestos inspector, project designer and project monitor in the State of Connecticut.

Mr. Liberti has a Bachelor of Science Degree in Geology and Geophysics from the University of Connecticut.

Lynn Willey, P.G., LEP
Senior Manager, Environmental Sciences
Project Role: Licensed Environmental Professional (LEP)
Years with Firm: 1 Year
Related Experience: LEP Burns Latino Studies Academy

Mr. Willey has over 23 years of experience as an environmental professional in the area of environmental assessment and remediation. Mr. Willey has served as the lead investigator and/or managed numerous Phase I, Phase II and Phase III environmental site assessment (ESAs); complex remedial investigations; and site remediation. Mr. Willey has experience with sites that are enrolled in the Connecticut Department of Energy and Environmental Protection (CT DEEP) programs including the Voluntary Remediation Program (VRP), Brownfield Remediation Program and Property Transfer Program (PTP). Mr. Willey has knowledge of the Connecticut Remediation Standard Regulations (RSRs), Connecticut Property Transfer Law. He has experience in the use of a variety of site investigation and remediation techniques and environmental permitting and sampling.

As a Senior Manager of the Environmental Science division at Eagle Environmental, Mr. Willey is responsible for managing a wide variety of environmental projects at commercial, industrial, and institutional, and municipal sites and provides senior technical oversight for environmental assessment and remediation projects in the Environmental Science division.

Mr. Willey has completed 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) and 8-hour refresher training. He has a Bachelor of Science degree in Environmental Geology from Allegheny College.

Jason Eberhard
Senior Project Manager
Project Role: Senior Project Manager/Inspector
Years with Firm: 4
Related Experience: Senior Project Manager Huckleberry Hill Elementary School (Brookfield), Northeast Middle School (Bristol), Torrington High School (Inspector)

Mr. Eberhard is an experienced environmental consultant with over thirty (30) years of experience in the area of hazardous building materials and industrial hygiene consulting as it pertains to inspection, design and monitoring for asbestos abatement work, hazardous materials remediation, indoor air quality and occupational workplace health and safety. Mr. Eberhard serves as one of Eagle Environmental, Inc.'s senior project managers and is responsible for completing and managing a wide variety of hazardous materials projects. Mr. Eberhard has substantial working knowledge of local, state, and federal guidelines and regulations and has worked extensively throughout the northeast states, California, and Canada.

Mr. Eberhard is a licensed asbestos inspector/management planner and project designer in the State of Connecticut.

Mr. Eberhard has a Bachelor of Science in Business Management from Keene Sate College.

Aaron Hatcher
Project Manager
Project Role: Project Manager/Inspector
Years with Firm: 17
Related Experience: Project Manager Lead-Based Paint for Memorial Boulevard School (Bristol)

As a Project Manager, Mr. Hatcher manages hazardous materials inspection and monitoring projects in public and privately owned facilities. He also performs field surveys and data acquisition, as well as field verifications for quality review purposes.

Mr. Hatcher has completed NIOSH 582 equivalent training in Sampling and Evaluating Airborne Asbestos, as well as the 24-hour Asbestos Inspector Training, 24-hour Asbestos Project Designer Training, the 40-hour Asbestos Project Monitor Training, the 5-day Lead Inspector/Risk Assessor Training, the 5-day Lead Supervisor/Contractor Training and the 2-day Lead Project Designer Training. Mr. Hatcher is a licensed asbestos inspector, asbestos project designer, asbestos project monitor, lead project designer and lead inspector/risk assessor in the State of Connecticut. Mr. Hatcher is the Project Manager for Connecticut Children's Healthy Homes Program.

Mr. Hatcher has a Bachelor of Science Degree in Environmental Sciences from Teikyo Post University in Waterbury, Connecticut.

Supporting Technical Staff

Eagle maintains a staff of qualified trained and licensed inspectors, designers, and project monitors. All staff members participate in the American Industrial Hygiene Association Asbestos Analyst Registry and attend continuing education and annual refresher training. The following personnel represent the technical staff of Eagle. Additional administrative personnel support these key professionals.

Kathleen Morgan - Environmental Consultant II – Licensed Inspector, Licensed Project Monitor
Michael Stewart – Environmental Consultant II – Licensed Inspector, Licensed Project Monitor
Jake Cyr – Environmental Consultant I – Licensed Inspector, Licensed Project Monitor
Angelo Folino - Environmental Consultant I – Certified Inspector, Certified Project Monitor
Evan Kulig – Environmental Consultant I – Licensed Inspector, Licensed Project Monitor
Amy Muller - Environmental Consultant I – In Training
Nicholas Mussen – Environmental Consultant I – Phase I, II and III ESAs
Gabrielle Rohn – Environmental Consultant I – Phase I, II and III ESAs, Licensed Inspector
Jonathan Vargas – Environmental Consultant I – Licensed Inspector, Licensed Project Monitor
Brett Baczek - AutoCAD Drafter / Environmental Consultant II - Phase I, II and III ESAs

Supporting Administrative Staff

Brandy Christen – Office Manager
Victoria Farkas – Administrative Assistant
Sarah Stankiewicz – Administrative Assistant

ENVIRONMENTAL ENGINEERING
New Westhill HS
Stamford, CT
5/10/23

Environmental Borings and Analysis

Work Plan for Soil Characterization Sampling

We will submit a work plan outlining the soil characterization program for review and acceptance by the owner and project team. The work plan will include a narrative regarding the intended soil management approach; estimates of soil disposal quantities for the intended soil management approach that will serve as the basis for the locations, depths, and numbers of chemical tests to be conducted, broken down by fill and natural soils; a plan showing locations and depths of samples to be collected; the testing suite to be conducted on each sample; and the frequency of testing to be conducted broken down by fill and natural soils.

Soil Characterization Sampling

The soil to be generated during the execution of this project will likely require disposal at an off-site soil disposal facility, or export to another recycling facility willing to accept the material. Regardless of export location, soil characterization sampling will be required by the disposal/recycling facility to understand the environmental condition of soils they are agreeing to accept.

The following environmental scope of services is intended to help estimate potential premiums that may be incurred related to excavation and offsite disposal of soils during construction. Although construction documents have not been prepared yet and estimates for soil excavation volumes are unavailable at this time, the proposed scope of services presented below can help guide the planning stages and assess the scope of soil management services that may be required during construction. As a cost saving measure (and to the extent possible), Langan's environmental sampling will be completed concurrently with the geotechnical scope of work using cross-trained Langan personnel. This may result in savings on Langan oversight fees and drilling subcontractors.

The sampling program is considered preliminary because sampling requirements for soil disposal facilities vary depending on type and location, and although we have developed a program that covers the requirements of many facilities in the area, additional sampling may be necessary to meet the analytical acceptance requirements of the selected disposal or recycling facility, or to delineate any polluted, contaminated, and/or hazardous soil identified during the initial characterization sampling.

For the purposes of this proposal, we anticipate collecting up to 10 soil characterization samples, each consisting of one grab sample and one five-point composite sample (a sample set), from proposed excavation areas. Langan will retain a drilling contractor to advance up to 30 borings to depths up to 10 feet below grade surface (bgs) and we will complete in-situ soil characterization sampling. The sample sets will be screened for impacts visually and using a photoionization detector (PID). Sample sets will be collected in laboratory-supplied containers and submitted to

a licensed laboratory under chain of custody for analysis of the following typical recycling/disposal facility parameters:

- Volatile organic compounds (VOCs)
- Semi-volatile organic compounds (SVOCs)
- MA- and CT-list metals (including total cyanide and chromium VI)
- Extractable Total Petroleum Hydrocarbons (ETPH)
- Polychlorinated Biphenyls (PCBs)
- Pesticides and Herbicides
- RCRA characteristics (conductivity, corrosivity, ignitability, and reactivity).

Samples will be placed on a standard 7-day turn-around time and will be analyzed using Connecticut's Reasonable Confidence Protocols (RCP) and laboratory QA/QC procedures. The laboratory will also be instructed to hold samples for future testing (i.e., SPLP/TCLP analysis), if warranted. Soil cuttings will be placed back into the boreholes and will not be containerized under this scope. Langan will also include one trip blank sample per day with our samples to assess the handling and storage of samples. This proposal does not include agency coordination, investigation, and remediation activities that may be required if a CTDEEP reportable spill is encountered, which would be an additional service.

Following receipt of laboratory analytical data, we will prepare a letter report describing sample methodologies, analytical methods, and field observations, and will also include tables summarizing analytical results, a sample location figure, and the laboratory reports.

Waste Profile Preparation and Disposal/Recycling Facility Coordination

Upon receipt of laboratory analytical data from the soil characterization samples, and selection of a waste disposal/recycling facility, Langan will assist in preparation of the disposal documentation for the selected disposal/recycling facilities. Cost assumes that contractor prepares all necessary forms. Additional costs may be incurred if multiple disposal requests are necessary. This task includes coordination with the chosen disposal facility or waste broker and preparation of a LEP letter of opinion, if requested. If additional sampling or analysis is requested by the disposal facility, additional costs may be incurred.

Construction Documents

Soil Management Plan

Langan will prepare a Soil Management Plan (SMP) for the project that will summarize the findings and recommendations of final soil characterization program for review and acceptance by owner and project team prior to starting soil management activities. The SMP will also outline procedures for documentation, excavation, management, and reuse of on-site soils. Specifically, the SMP will include procedures for the following:

- Excavation and off-site recycling and/or disposal of unsuitable material/soils to be removed from the site;
- Soil stockpile construction;

- Contingency protocols for removal of unknown or unsuspected deleterious materials or soil exhibiting visual or olfactory evidence of environmental impacts;
- Import of clean soils from off-site sources for backfill; and,
- Dust suppression.

The SMP will require that an as-built drawing will be created and submitted documenting locations and depths (in elevation) where any polluted soils have been reused onsite and the depths of the source material (as applicable).

Environmental Construction Specifications

We will prepare a set of environmental construction drawings and technical specifications for the proposed project. Our work will be done in conjunction and coordinated with the other members of the project team as well as any conditions of approvals by the regulatory agencies. The construction specifications will detail contractor requirements to applicable federal, state, and local agency regulations corresponding to material management, health and safety, decontamination, and transportation and disposal. Prior to construction, we will review contractor submittals and provide responses to RFIs.

Construction Administration

Langan will provide consultation on environmental matters as needed during the construction period. We will review environmental-related portions of the construction documents and compare them to the recommendations provided in our SMP. Langan will also review any future construction change orders, cost overruns, deviations, etc. that may result during construction. We have provided for an allowance of a total of 5 RFI's and submittals. We do not anticipate regular attendance at job meetings throughout the duration of construction. Should our attendance at additional meetings or site visits be requested, we would bill our additional time hourly.

Construction Observations

SMP Compliance Construction Oversight

Langan will provide environmental engineering observation and consulting services related to environmental items during construction activities including excavation, handling, and disposal of site soils. For efficiency and cost savings, we plan to use cross-trained field staff to perform both the geotechnical and environmental inspections (as needed) when the schedule and scope of services allow. However, for the purposes of this proposal, we have included an additional 15 days of environmental oversight to cover potential days when two Langan field staff are required.

Tank Removal Consulting Services

According to a November 2021 Phase I Environmental Site Assessment (prepared by TRC Environmental Corporation [TRC]), there are four underground storage tanks (USTs) at the Site; including a 10,000-gallon No.2 fuel oil UST, a 1,000-gallon No. 2 fuel oil UST, a 500-gallon diesel UST, and a 6,000-gallon heating oil UST. Langan expects that these four USTs will require removal as part of the proposed project; as such, our proposal includes tank removal consulting services.

Our proposal assumes that a certified tank removal contractor will be engaged directly by the contractor and such contractor will be responsible for obtaining local permits and coordinating with local officials for an inspection, as required.

For each tank, will conduct observation of the UST closure and site restoration activities to document closure of the UST systems in accordance with applicable federal, state, and local regulations. During and immediately after removal of the tanks and associated piping, an assessment will be performed by Langan to evaluate whether there is evidence of a release of petroleum from the UST systems. Pursuant to CTDEEP guidelines, soil samples will be obtained from the underlying native soil at each end of the tanks and at the level of the tank bottoms from each of the sidewalls. If groundwater is present in the excavation(s), the sidewall samples will be obtained at the level of the water and a water sample will be collected. Samples will also be collected beneath dispensers and beneath product lines in the vicinity of fittings and at no more than 20-foot intervals along the piping. In total, Langan anticipates that upwards of 30 soil samples (including QA/QC samples) will be collected following tank removal activities for analysis of extractable total petroleum hydrocarbons (ETPH), volatile organic compounds (VOCs) via EPA Method 8260, and semivolatile organic compounds (SVOCs) via EPA Method 8270). Samples will be placed on a standard 7-day turn-around time. Following tank removal, the tank graves shall be backfilled with imported certified clean fill or stone. Langan's budget assumes that the tank removal services can be completed in 5 days or less.

This proposal assumes the UST systems have not leaked and that petroleum-impacted soils and/or groundwater will not be encountered. If evidence of a release is discovered, additional effort and sampling will likely be required to delineate, remove, and dispose of impacted soil and groundwater, notify the CTDEEP of the release, and obtain required samples per CTDEEP requirements. If evidence of a release is identified, we will notify you immediately and provide a supplemental scope of services and budget for the additional services required to address the release.

Langan will also prepare an UST Closure Report to document permanent closure and removal, site assessment, and confirmatory soil and groundwater sampling activities at the UST systems. The report will include a description of closure and removal of the USTs, site assessment and observations, confirmatory sampling procedures, analytical results, summary table and figures, site restoration, and conclusions and recommendations. The report will also include disposal documentation (liquids, tank structures, dispensers, piping, etc.), photograph log, and weigh tickets for imported certified clean stone/fill. A draft of the report will be provided to the Client for review and comment prior to submission to CTDEEP. We will also assist with filing the CTDEEP online EZ File UST Notification form.

GEOTECHNICAL ENGINEERING
New Westhill HS
Stamford, CT
Revised 6/7/23

Geotechnical Assumptions

- Proposed 3-4 story new school.
- Any available site utility information will be made available to us prior to the start of drilling.
- The subsurface exploration will consist of SPT soil borings and test pits. 50-foot allowance for rock coring is included.
- All borings will be drilled with a conventional truck- or track-mounted drill rig.
- Up to three mobilizations carried for prelim and supplemental testing.
- Soil cuttings can be used to backfill the boreholes.
- Work can be performed during normal business hours.
- Fees are based on typical drilling subcontractor pricing. Final proposal will be prepared upon solicitation of driller pricing.

Special Inspection Fees – To be determined upon foundation type and associated construction schedule.

Includes

- SD:
    - Private utility mark-out to identify utilities around the borings.
    - A geotechnical exploration consisting of 14 to 18 soil borings within the proposed building footprint (seven days of drilling over multiple mobs) and up to three observation wells. Borings are anticipated to extend between about 20 to 50 feet below grades. Rock coring up to 50 ft. We anticipate up to 3 mobilizations to get data in proposed building area first (2 initial field days with remaining to follow once

the proposed building location is finalized) and potentially after demolition of the existing building.
    - Two days of test pits in field and parking areas. Coordinated infiltration testing with civil engineer at stormwater management locations.
    - Full-time engineering special observation during the subsurface exploration.
    - Laboratory testing.
    - Geotechnical engineering report including basic site seismic class designation per code.
- DD/CD:
    - Geotechnical specifications (earthwork, ground improvement, rock removal etc.)
    - Up to 20 hours of consultation time.

  CA:
    - Six months of geotechnical construction administration support during foundation construction.

<u>Excludes</u>

We have excluded the following services. If needed, we can prepare an additional proposal.

- Environmental consulting services or disposal of contaminated material with respect to the geotechnical scope of work including grouting of boreholes.
- Interior drilling/test pits.
- Site specific seismic analyses and reporting (we will provide basic site class recommendations in accordance with Building Code). Advanced studies to generate site specific response spectrums are not included.
- Design services and related exploration work for: underpinning, temporary support of excavation, underdrain, retaining walls.
- Assessment of existing foundation systems.
- Recommendations and associated exploration for areas to be renovated.
- Construction related services including special inspections for soils and foundations, site visits, etc.
- Survey and vibration monitoring of the existing structures during construction including pre-construction survey and photo documentation services.
- Construction documents (including plans and specifications beyond those listed above).
- Consulting services other than outlined herein.

Notes

- Estimated costs for field work and associated observation time are based on an estimated duration needed to complete the scope of work. Should deeper borings, more borings, and/or additional days be required based upon encountered conditions, the actual costs will be billed on a time spent basis.

MATHIEU HOPKINS INTERIOR DESIGN LLC
2121 DURHAM RD MADISON, CT 06443
PHONE: 203-605-6960
E-MAIL: CHOPKINSDESIGN@AOL.COM

Kemp A. Morhardt, AIA*, NCARB
Principal Architect

The S / L / A / M Collaborative, Inc.

80 Glastonbury Boulevard
Glastonbury, CT 06033

May 12, 2023

Subject: Westhill High School Stamford, CT

Dear Kemp,

Per our conversation, I am submitting this proposal to oversee and manage Installation Management at Westhill High School in Stamford, CT.

At your request, the following outlines the scope of services required:

Installation Management and Punch List:

Confirm with Vendors' delivery schedule and installation timeframes.
Review interim storage needs if required.
Coordinate the on-site deliveries and installation of FF&E truck arrivals.
Acknowledge receipts.
Supervise installation to ensure proper assembly and distribution to location.
Prepare a punch list of items after installation is complete.
Review and approve invoices for payment.

Services not responsible for in the proposal:

The actual move of existing equipment or furniture and procuring the services of a moving contractor.
Unpacking boxes and distribution of loose equipment into the designated rooms.
Installation, Procurement, or move of Maintenance, Technology, and Communications Equipment.
Hook up electrical or plumbing to furniture.

Double handling of furniture due to incomplete construction.
Additional Hours will be added if required due to changes to original layouts or specifications.

The assistance of Large Format floor plans from the Architect will be required for distribution.

All unrelated items to the FF&E package are the responsibility of the architectural firm of SLAM Collaborative, Inc.

Thank you for the opportunity to quote on Westhill High School. I look forward to hearing from you.

Sincerely,

Christine Hopkins

Christine Hopkins LEED AP
Owner/Senior Interior Designer

Fee Proposal

Stamford Public Schools - Westhill HS

Prepared For
Kemp A. Morhardt, Principal
The S/L/A/M Collaborative
80 Glastonbury Blvd.
Glastonbury, CT 06033

Proposal Date
May 10, 2023

Project
Stamford - Westhill High School

OVERVIEW

The following proposal includes an estimated fee and scope of services for educational visioning, planning, and programming for the Westhill High School project. Hours will be billed monthly at an hourly rate of

SCOPE AND FEE

Description & Deliverables	Deliverable
Educational Visioning • Develop, facilitate, and document (3-4) visioning sessions	Summary report provided
Educational Planning / Programming • Participate in (2-3) programming verification meetings • Develop idealized adjacency bubble diagram • Participate as needed in the development and review of plan ideas throughout SD and DD	Adjacency bubble diagram; verbal and written feedback/ markups on plans
Administration, Miscellaneous • Participate in bi-weekly internal touch-points with district and//or design team • Participate in internal team meetings (approximately 4 hours every two weeks) • Includes additional coordination and meetings with client, stakeholders, or design team	Provide content as needed
Total Hours*	
Proposed Total	

Proposal Agreement

The signing of this proposal serves as an agreement between The S/L/A/M Collaborative and My Learning Place Integrated Design. This proposal, along with any addendums or attachments, represents the entire agreement and may be modified if the amendment is made in writing and signed by both parties.

Client's Signature

Kemp A. Morhardt
Principal, The S/L/A/M Collaborative

Date

Consultant's Signature

5.10.23

Michael Pirollo
MLP Integrated Design

Date

R.J. KENNEY
ASSOCIATES, INC.

BUILDING ENVELOPE CONSULTANTS & TESTING LABORATORY

May 30, 2023

Mr. Kemp A. Morhardt, AIA
The S/L/A/M Collaborative
80 Glastonbury Boulevard
Manchester, CT 06033

Re: Enclosure Consulting Services
Westhill High School
Stamford, CT

Dear Mr. Morhardt:

R. J. Kenney Associates, Inc., is pleased to present this Proposal for Services relating to the above referenced project.

Our firm has provided a wide range of construction consulting services since 1970. We provide owners, design firms, and construction managers with a full range of building enclosure services, including material testing and product evaluation, building enclosure assessments, design reviews, rehabilitation design, contract administration, building enclosure commissioning (BECx), field testing, and litigation consulting.

We have performed building enclosure consulting services on education projects of similar size, scope and complexity for many years and appreciate the opportunity to work with your team on this project.

The scope, as outlined, is based upon the City RFP issued on March 31, 2023, and our experience providing similar services on other school projects.

If you should have any questions or require additional information, please do not hesitate to contact our office.

Respectfully submitted,

R. J. KENNEY ASSOCIATES, INC.

Russell M. Kenney
CEO

RMK/mar

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SCOPE OF SERVICES

1. Schematic Design Phase:

   - Review initial design narratives and schematic level drawings; comment on proposed envelope systems and alternatives.
   - Attend one (1) meeting at The S/L/A/M Collaborative's office to review design recommendations and coordinate services.

2. Design Development Phase:

   - Review updated Schematic Level Drawings; comment on proposed envelope systems and alternatives.
   - Work with the team to develop a waterproofing approach for the building enclosure.
   - Perform hygrothermal modeling of proposed typical roof and wall sections to determine the potential for condensation formation within the assemblies.
   - Collaborate with the design team by providing comments, sketches, and mark-ups as needed on the façade details as they are developed.
   - Progress reviews, assumed in pricing at 60% and 90%.
   - Review and make recommendations on specifications, including preconstruction performance mock-ups and in situ field testing plans.
   - Attend one (1) meeting at The S/L/A/M Collaborative's office to review design recommendations and coordinate services.

3. Construction Documents Phase/Bidding Phase:

   - Collaborate with the design team by providing comments, sketches, and mark-ups as needed on the façade details as they are developed.
   - Review, annotate, and prepare written comments on the details and specifications during the construction document phase, including specific written recommendations for changes in the specifications or building envelope details, to better facilitate the interfacing of the various critical components at the 75% CD level.
   - Attend two (2) meetings at The S/L/A/M Collaborative's office to review design recommendations and coordinate services.
   - Perform general pre-construction consulting. This may include consulting in the creation of bid packages, conducting scope reviews, and responding to bid phase RFIs.
   - Consulting with the design team on any additional scope changes or value engineering options.

4. Construction Administration Phase:

   - Review of RFI's, proposed product and material submittals, product data, Shop Drawings and test reports, prior to installation or construction, for comparison with the contract documents, and provide comments based on our experience with the proposed products.

- Product substitution comments, opinion letters, code review, etc.
- Attend a preconstruction meeting with all parties concerned with the building enclosure. Those parties may include the building owner, Architect, construction manager, and subcontractors. The purpose of the meetings, at a minimum, will be to address outstanding enclosure design or construction sequencing issues raised during the plan and submittal review process, identify the individuals involved with the project, establish communication and reporting procedures, and discuss protocols for testing and site visits.
- Perform on-site visual review and evaluation of a mock-up of the building envelope details.
- Perform a specified number of field observation site visits during construction. These will include review of the building enclosure work in progress and in place. A written report with photographs will be prepared following each site visit. Fourteen (14) visits have been included.
- Witness water testing of representative window and curtain wall locations in accordance with ASTM and AAMA standards. Testing site visits are assumed to take place during a regularly scheduled field observation site visit.

COST OF SERVICES

TERMS AND CONDITIONS

The proposed fee is a lump sum. The fee is to execute the scope of services as described herein and will be billed on a percentage complete basis per phase. Any additional scope requested by the client would be an additional service and would require a change to our Consultant Agreement.

All travel and other reimbursable expenses have been included in the proposed fee without markup.

Invoices are rendered monthly and are to be paid within 30 days from the invoice date. We reserve the right to suspend work and/or hold documentation otherwise owed to the client if payments are in arrears.

R. J. Kenney Associates, Inc., is protected for automobile, workers' compensation, and general and professional liability insurance, see attached sample insurance certificate. Any additional costs incurred for increasing the amount of insurance or for adding additional insureds will be billed as an expense at direct cost.

This proposal expires 90 days after submission unless otherwise noted.

If you have any questions or require additional information, please do not hesitate to contact our office.

Respectfully submitted,

R. J. KENNEY ASSOCIATES, INC.

Russell M. Kenney
CEO

2820870-P132
May 12, 2023
Revised June 1, 2023
Revised June 6, 2023

Kemp A. Morhardt, AIA, NCARB
Principal Architect
The SLAM Collaborative
80 Glastonbury Blvd
Connecticut, 06033

Re: **Proposal for Civil and Traffic Engineering Services in Support of Stamford Westhill High School Project in Stamford, CT**

Dear Kemp:

It is our understanding that the City of Stamford, Connecticut is proposing to build a New Westhill High School, located at 125 Roxbury Road, Stamford, CT, State Project No. 135-0280 N. The property is approximately 32.42 acres sloping gently from southwest to northeast with landscaping consisting of trees, shrubs, and grasses.

The Project consists of the design and construction of an approximately 459,893 sf high school building and demolition of the existing building, including all site related improvements. Two synthetic turf fields (football stadium and soccer/multipurpose fields), a natural grass baseball field, softball field, and tennis courts are located on the grounds.

The goal of the project is to provide a high school no later than fall of 2028 occupancy, which is energy efficient, improves traffic and circulation, and enhances the educational environment and surrounding community fabric. The existing Westhill High School will remain occupied for the length of the construction and be demolished upon substantial completion of the new building.

Tighe & Bond is pleased to submit our revised proposal for site/civil engineering and traffic engineering services in support of a new Westhill High School and the demolition of the existing Westhill High School in Stamford.

In general, site/civil engineering services will include site utilities, drainage, stormwater management and soil erosion and sedimentation control measures required to support the proposed project. On-site drainage and stormwater management systems will be designed to meet the City of Stamford standards and the Connecticut Department of Energy and Environmental Protection (CTDEEP) requirements. Stormwater Management will be designed to provide a zero increase in peak flow and if possible, no increase runoff volume from the site.

In addition, we will coordinate with the City of Stamford Engineering on the design of the drainage and stormwater management facilities on-site. Based on the fact that the proposed development will be phased with the new High School being constructed prior to the demolition of the existing High School, the stormwater management facilities will be designed to manage the temporary and permanent site configurations. The drainage design will also comply with CTDEEP Stormwater Quality Manual. It is anticipated that this project will disturb more than 5 acres of soil and will require a CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

Traffic engineering services will include Masterplanning / Conceptual design, traffic circulation design, traffic and parking study and submission to the Office of Transportation Administration (OSTA) Administrative Review.

SCOPE OF SERVICES

In general, the design and construction phases include schematic design, design development, City approvals, construction documents, bid and construction administration.

It is assumed that the City site plan applications, and the construction plans will be based on the landscape architect's site plans and grading plans.

We have also assumed that all structural design of retaining walls, site irrigation and lighting will be included in the other consultant's scope of work. We have assumed the project's licensed environmental professional will provide all design and permitting required for site remediation, soils management and guidance on suitable materials for re-use. We will coordinate with the other consultants at the appropriate stages of the design.

We have assumed that the project MEP engineer will design the site electrical, tel-data and mechanical systems (steam, chilled water, etc.) piping. We will show these systems on the site utility plan for horizontal and vertical alignments and to coordinate with other proposed work. We have assumed the project MEP engineer will provide all details and specifications of these systems.

Task 1: Site/Civil Engineering
1.1 Concept Design Phase

1. Attend the consultant design kick-off meeting. Identify and discuss building siting issues including utility systems, vehicular and pedestrian access and circulation, and sustainable concepts and strategies. Provide comments on the Project Landscape Architects design concepts as it relates to vehicular and pedestrian access and circulation, drainage, and utilities.

2. Present conceptual site strategies related to existing utilities, and vehicular and pedestrian access and circulation during a Concept Design presentation with the Stamford Board of Education.

3. Incorporate comments and prepare Concept Design document. Included in the Final Concept Design documents are the site/civil drainage, utilities and vehicular and pedestrian access and circulation narratives.. The site utility narrative will discuss the existing utilities systems located on-site and in the adjacent streets. Tighe & Bond will identify utilities that will be required to be relocated and\or demolished to enable the proposed design concepts. Tighe & Bond will discuss each utility system's ability to service the proposed project based upon input from the City Facilities, SWPCA, Aquarion Water Company, Eversource Electric Company, Eversource Gas Company, and Frontier Communications Company.

4. Tighe & Bond will describe the anticipated drainage and utilities to be relocated and/or demolished, the proposed concept utility tie-in locations to service the project, and each utility system's anticipated materials and sizes based on input from the project MEP engineer. Tighe & Bond will also prepare a proposed conceptual drainage & utility layout plan.

5. Prepare site/civil presentation materials and attend a Concept Design presentation. It is anticipated that presentation materials include existing and proposed conditions drainage & utilities plan.

6. Tighe & Bond has also budgeted attendance at a maximum of two meetings. We have assumed the meetings will be held virtually by video conference call or at Westhill High School in Stamford, CT.

1.2 Schematic Design

Under this phase, Tighe & Bond will meet with the design team to review and comment on site grading, drainage, and utility designs as the schematic site plans develop. The engineering services under this phase include:

1. We will utilize the project survey provided by the City of Stamford as the project base. We have assumed the project survey will include all the requirements outlined in the City of Stamford zoning regulations for site plan approval including all existing drainage and utilities on-site and in adjacent streets. We will review the survey and provide comments for the City to fully resolve with their surveyor.

2. Visit the site to observe existing conditions and to verify design constraints once we receive the project survey. We will work with the project team, City Engineering, the School, and the respective utility companies to determine the logical drainage and utility removals, abandonments, and relocations during the field walk.

3. Review available City maps and reports to establish the location and capacity of the existing storm drainage piping. Meet with representatives of the City Engineering Department to review the existing storm drainage system and get their input on any future planned improvements around the site.

   Based on available information, we will assess the ability of the existing storm drainage outlets to accept stormwater discharge from the site for the proposed final conditions and during the construction phase.

4. Review and comment on your schematic grading plans as they relate to drainage implications and possible utility relocations for water, fire protection and sanitary sewer.

5. Based on the schematic site layout plan and grading plan, produce a schematic storm drainage design that incorporates stormwater management to meet City and CTDEEP 2004 Stormwater Quality Manual guidelines. This information will be shown on the site drainage layout & utility plan.

6. We will coordinate with the project MEP engineer in determining the logical routing of drainage and utility services such as site lighting, security, electrical, tel-data, domestic water, fire protection, sewer, drainage, and mechanical utilities required to support the proposed development. The service routings will be shown on the compiled site utility plan for coordination purposes.

7. Soil erosion and sedimentation controls must be carefully considered as part of the development. During this phase, we will show schematic sediment and erosion controls that will be required based upon the preliminary development plans. These controls will be shown conceptually and will be sized and phased in subsequent phases of the design.

8. Attend up to twelve meetings with the design team through the schematic design phase. We have assumed the meetings will be held virtually by video conference call or at Westhill High School in Stamford, CT.

1.3 Design Development

Under this phase, Tighe & Bond will advance the approved schematic design plans and we will continue to coordinate our work with the design team. The documents prepared under this phase will be used in support of the submission to the City for site plan approval. Any revisions or response to comments to our designs by City staff, agencies, commissions, etc. during the submission process will be covered hourly under the Regulatory Approvals project phase. More specifically, Tighe & Bond will perform the following:

1. Review and comment on your schematic grading plans as they relate to drainage implications and possible utility relocations. Coordinate with the design team for the development of grading/stormwater design.

2. Deep Test Pit Observation/Percolation & Infiltrometer Test

    a. Tighe & Bond will coordinate deep hole testing to collect soil information to be used in the design of proposed rain gardens, porous pavement, or stormwater infiltration systems. Perform permeability testing as required for local approval with a minimum of one deep test hole and two infiltrometer tests for each stormwater management system. We have assumed two days of field work with an excavator to complete the test pits. An allowance of has been included in the proposal for the procurement of an excavator to dig the test holes.

    b. Tighe & Bond will log test results and present the results on the proposed plan and supporting documents. Excavation equipment and operator for the deep hole tests will be a reimbursable expense.

3. Analyze the existing watershed within which the site is located and determine the runoff entering the School's drainage facilities under present conditions. Analyze the watershed under proposed conditions and determine the changes in runoff from the site. We will prepare design concepts to attenuate peak storm flows on-site using on-site stormwater storage facilities. We will prepare a stormwater management plan including recommendations for oil/water separators, gross particle separators, water quality systems, etc. to meet the CTDEEP's goal of 80% removal of total suspended solids. In addition, we will strive to meet CTDEEP's stormwater quality requirement to store and infiltrate the first 1" of runoff on-site. We anticipate the use of low impact development (LID) stormwater management techniques to be incorporated into the project and will work with the project landscape architect in the design and location of the proposed LID measures.

4. Prepare a site utility demolition plan showing the proposed drainage and utility structures to be abandoned, demolished, removed, or relocated. We have assumed that the project MEP engineer will spearhead and document all mechanical utilities and electrical and tel-data removals. We will show these removals on our site utility demolition plan for coordination purposes only.

5. Prepare a site utility enabling plan if required to show temporary or interim drainage and utility locations to enable the construction of the new High School while the existing High School remains in operation.

6. Prepare a site drainage layout and utility plan showing the proposed storm drainage, stormwater management, and building utility service routings.

7. Provide drainage details for typical pipe trenches, yard drains, catch basins, manholes, outlet control structures, outfalls, oil/water separators, gross particle separators, stormwater management systems, and possible sedimentation and detention structures. We will coordinate the design of low impact development stormwater management techniques with the project landscape architect. We have assumed the project landscape architect will specify the LID's shape, soil mixture and plantings. We will size the LID to meet the CTDEEP 2004 Stormwater Quality Manual.

8. Design the site domestic water, fire protection and sanitary sewer relocations required within the project area to support the proposed building construction and site work. We have assumed these utilities will be connected to nearby utility mains located in the adjacent City streets and will not require main extensions.

9. Prepare details for proposed domestic water, fire protection and sanitary sewer services. We will follow City of Stamford Water Pollution Control Authority's and the respective utility company's design standards and requirements and will coordinate our design with them by sending them progress drawings, sewage estimates and water demand letters for their review and comment. The sewer and water demand letters are assumed to be prepared by the project MEP engineer.

10. Prepare an engineering report documenting the proposed storm drainage design, stormwater management plan, and an overall narrative of the project, in a form suitable for submission to City of Stamford Engineering Department.

11. Provide liaison with the project MEP engineer to show the site utilities (electrical, security, tel-data, mechanical utilities, etc.) on our site drainage layout and utility plan for information and coordination purposes only. We have assumed the project MEP engineer will provide all design aspects for abandonment or removal of existing exterior site lighting, security, mechanical utilities, etc. and design all new site lighting, electrical, tel-data, security, and mechanical piping system components.

12. Prepare the soil erosion and sedimentation control plan that would define the erosion control measures during construction and permanent control measures for post construction that would be part of the overall storm water management program for the site. The soil erosion and sedimentation control plan will conform to the "2002 Connecticut Guidelines for Erosion and Sediment Control", CTDEEP Bulletin 34.

13. Prepare design development technical specifications for the site/utility engineering work designed by this office, in the architect's format, based on the architect's general specifications, for incorporation in the design development package.

14. Attend up to sixteen meetings with the design team through the design development phase. We have assumed the meetings will be held virtually by video conference call or at Westhill High School in Stamford, CT.

1.4 Entitlements, Permitting and Approvals

Local Approvals

Under this phase, Tighe & Bond will utilize the completed design development plans and drainage report to assist the Owner in the submission of the project to the Planning and

Zoning Commission for site plan approvals. We have assumed that the project's land use attorney would lead all approvals and complete all applications, while we would supply supporting technical data.

More specifically, Tighe & Bond will perform the following:

1. Attend a pre-application meeting with City staff, including Planning & Zoning, Department of Public Works, and Fire Marshal.

2. Prepare written and graphic explanatory materials related to our scope of work items

3. Assist with the preparation of the applications to the City. It is assumed the land use attorney will compile and file the applications.

4. Respond to City review comments.

5. Attend Planning and Zoning Commission and Architectural Review Board public hearings. We anticipate attendance at up to six hearings, three for each body.

State Permitting

We assume that the projects will be state funded and will require review by CTDEEP for Floodplain Management Certification since the projects will impact stormwater management facilities and State Department of Education Office of School Construction Grants & Review (OSCG&R) for general site plan review.

CTDEEP Floodplain Management Certification

Connecticut General Statutes RCSA Section 25-68-h-3(a) require that stormwater management plans for state activities shall be prepared to minimize any adverse increases to the peak flow rate, the timing of runoff and the volume of runoff. Hydrology studies shall be conducted at a level of detail commensurate with the probable impact of the project. Each project would have a separate application for Floodplain Management Certification.

1. Since the work impacts man-made drainage facilities, prepare an application to the Connecticut Department of Energy and Environmental Protection for a Floodplain Management Certification for the project. We have assumed that the required volume and peak runoff information will have already been computed as part of the City approval process.

2. Submit the application materials to the appropriate contact at the state funding agency.

3. Incorporate comments on the draft review and respond to one round of CTDEEP comments on the Floodplain Management Certification.

Office of School Construction Grants & Review (OSCG&R)

The projects will require review through OSCG&R's internal review process. We will prepare the OSCG&R Site Review form and attend a review meeting with OSCG&R staff in Hartford and incorporate one round of minor comments that do not require re-design effort.

CTDEEP General Stormwater Permit

Based on the current site plans, the project area to be disturbed is approximately 19.5 acres which is greater than 5 acres; therefore, the CTDEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities will be

required. As part of this application, Stormwater Pollution Control Plans are required to be prepared outlining the site's soil erosion and sedimentation control measures. Since the area of disturbance exceeds 15 acres, the Stormwater Pollution Control Plan and other engineering documentation to support the General Permit is required to be reviewed by a Third- Party reviewer prior to being submitted to the CT DEEP for their review and approval. We have included in our fee a budget for a third-party review. This process could take up to 60 days to complete. Upon sign-off from the third-party reviewing consultant, the registration can be submitted to CT DEEP for their review. The Third-Party and CT DEEP reviews must take place at least 90 days prior to the start of construction.

Within the application, the permit asks if the construction project has been reviewed for compliance with other CTDEEP programs, such as the Aquifer Protection, Endangered and Threatened Species, and State and Federal Historic Preservation statutes.

Based on a review of the CTDEEP's "Natural Diversity Data Base Areas, Stamford, CT" map, the proposed project is not located within 0.25 miles of an area known to have State and Federal Listed Species or Critical Habitat. A Natural Diversity Database Request for Review form is not anticipated to be required.

Given the site's location, it is unlikely that archeological resources are a concern in this area. We have excluded a Phase I Archeological Assessment in this proposal. If needed, we can provide a separate scope and fee to cover this item.

This General Stormwater Permit is typically filed after City approvals have been obtained and prior to construction. Registration approval can take 90 days after submission to CTDEEP.

The City of Stamford Board of Education will need a subscriber agreement from CTDEEP to file the permit electronically through the EZ File system. Tighe & bond will upload the required permit application materials and then the Board of Education will sign, submit, and pay for the permit for it to be filed.

1.5 Construction Documents

We will incorporate minor modifications to the Site Plans as required from the City's approval process including minor changes to the proposed parking lots and prepare the site engineering construction documents.

1. Update and revise the site/utility owner approved documents to incorporate architectural, landscape architectural, MEP, and structural engineering design refinements.

2. Prepare the final site drainage & utility demolition plan.

3. Prepare the final site drainage & utility enabling plan showing temporary relocations or services required to enable the demolition of the existing buildings.

4. Prepare the final designs of the on-site drainage and storm water quality systems to meet CTDEEP and City requirements. Prepare the final drainage layout and utility plan showing the proposed storm drainage, stormwater management, and utility service routings.

5. Provide the final drainage details plan for catch basins, manholes, outfalls, oil/water separators, gross particle separators, and sedimentation and retention structures.

6. Design the final site domestic water, fire protection and sanitary sewer services abandonments, relocations, and removals to support the proposed project.

7. Prepare the final details for proposed domestic water, fire protection and sanitary sewer services. Details will meet the City and the local utility company's standards.

8. Prepare the final soil erosion and sedimentation control plan, details & narrative.

9. In consultation with the project MEP engineer determine the final specific requirements for the drainage and utility services abandonments, relocations, or removals. The project MEP engineer will provide the final designs of the site electrical, tel-data, security, lighting and mechanical utilities and we will show the final layout and location of the proposed utility services supporting the proposed development on our final drainage layout and utility plan for coordination purposes.

10. Provide details of fire hydrants and utilities, including sanitary, water, fire protection and gas five feet from face of the proposed building through the parking lots project and hardscape area if required. The details will be shown on the site utility details plans.

11. Provide final technical specifications for site/utility engineering work designed by this office, in the architect's format, based on the architect's general specifications, for incorporation in the construction documents. We have assumed that the landscape architect will provide specifications for all landscape and hardscape items.

12. We have assumed that we issue one set of construction plans and specifications at the completion of the Construction Document Phase. Incorporate minor changes made in the design after the plans are first issued, whether for bidding or for the Building Permit. "Minor changes" do not include the preparation and issue of sets of plans and/or specifications for these different purposes, or for phased construction. The preparation and design of enabling phases of the project are not included.

13. General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities: Based on the approved plans, the project area will disturb approximately 19.5 acres which is greater than the 5 acres threshold requiring the project to be registered under CTDEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities. As part of this application, Stormwater Pollution Control Plans are required to be submitted outlining the site's soil erosion control measures. Within the permit application, the permit asks if the construction project has been reviewed for compliance with other CTDEEP programs; such as the Aquifer Protection, Endangered and Threatened Species, and State and Federal Historic Preservation statutes. More specifically, our scope will consist of the following:

    a. Prepare a registration under the Connecticut General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

    b. Prepare a Stormwater Pollution Control Plan (SWPCP) in accordance with the requirements of the General Permit.

14. Assist the owner by providing documentation for utility permits/applications and the permitting process when required. We anticipate potential street opening permit and drainage approval from City Engineering.

15. Attend up to sixteen meetings with the design team through the construction documents phase. We have assumed the meetings will be virtual by video conference call or at Westhill High School in Stamford, CT.

1.6 Bidding

Tighe & Bond will provide design services consisting of preparation of addenda as may be required during bidding or negotiation and including supplementary drawings and specifications. Bidding/Negotiation services consisting of:

1. Responses to questions from bidders for purposes of clarification or interpretations of the bidding documents.

2. Bid evaluation services consisting of participation in review of bids or proposals by email or conference call.

1.7 Construction Administration

This phase of the proposal includes the basic site/civil engineering services as they relate to completing the construction administration phase of the project. More specifically, Tighe & Bond will work with the design team in completing the following tasks:

1. Review shop drawings and other submittals to verify their conformance with the contract documents. We assume that the architect or owner will administer the shop drawing process and we will coordinate our reviews through them. We will review and turn around the shop drawings within ten working days from receipt from the architect and/or contractor. For this proposal, we assume 12 shop drawing submissions.

   Tighe & Bond assumes that the contractor will submit all required documentation required to prove equivalency if a substitution to the specified product is submitted. Tighe & Bond will not research or perform engineering review or calculations, etc. of a contractor's substitution to determine equivalency.

2. Provide supplemental document services related to the site/civil work designed by Tighe & Bond consisting of the preparation of supplemental sketches, specifications, and interpretations in response to requests for clarification by the contractor and owner. Design changes due to unforeseen field conditions are not included.

3. Attend up to eighteen on-site job progress meetings on an as-needed basis as determined by the City. At the conclusion of each progress meeting, we would observe the progress of site work in the field and prepare a field report of observations.

4. Provide review of change orders from the contractor for reasonableness of quantities and costs of labor and materials. Review is limited to order of magnitude level of review and does not include quantity take-off and cost estimating services.

5. Provide project close-out services initiated upon notice from the contractor that the Work, or designated portion thereof which is acceptable to the owner, is sufficiently complete, in accordance with the contract documents, to permit occupancy or utilization for the use for which it is intended, and consisting of:

   a. Observations upon notice by the contractor that the work is ready for final inspection and acceptance. Two observations total are included under this phase to generate the semi-final and final site punch lists. Also, we have assumed the contractor will provide a laborer during the site observations to open all storm and sanitary manholes, clean-outs, and utility structures designed by the civil engineer.

b. Notification to owner of deficiencies found in the follow-up observation, if any. We will summarize noted deficiencies we found during the semi-final inspection in memo format to owner.

c. Review record drawings prepared by the contractor. The responsibility of the accuracy of these drawings rests solely with the contractor. We have assumed the Contractor will supply one set of complete record drawings showing all civil related field markups for review. We will review the contractor's as-built mark-ups with our design documents. We have assumed that the contract will procure a surveyor licensed in the State of Connecticut to prepare an A2/T2 property survey including documentation of all drainage, stormwater management and site utilities. Based on a review of this survey, we will prepare a letter certifying that the drainage system and sanitary sewer systems are in substantial conformance with the approved plans as required by the City.

d. Review and comment on maintenance manuals and other final submissions related to the installation of the site storm and sanitary sewers.

1.8 LEED

For LEED evaluation and documentation, our scope anticipates three (3) team meetings to identify and evaluate potential LEED credits based on the project's design direction with most of our efforts and documentation occurring during the construction design and construction administration phases and will be for specific credits within Sustainable Sites, Water Efficiency and Materials and Resources Credits.

Credits related to storm water design and soil erosion and sedimentation control will be prepared by Tighe & Bond civil engineer.

Task 2 Traffic Engineering:

2.1 Master Planning/Conceptual Design Support – Traffic Circulation

Under this task, Tighe & Bond will assist SLAM and the design team on the School conceptual design as it relates to the proposed school traffic circulation. The following tasks are included:

1. Conduct a site visit and observe existing traffic circulation operations during the weekday morning commuter and school arrival, afternoon school dismissal, and afternoon commuter periods. Review existing on-site parking facilities and current roadway conditions and existing traffic operations on the adjacent roadways. Observe school access, car and school bus pick-up/drop-off routes/flows, and parking characteristics.

2. Review site layout plans, prepared by SLAM and/or others on the design team, and provide comments or recommendations related to traffic circulation. It is assumed that the comments will be reviewed and incorporated by the plan owners and our services will be limited to review and comment only.

3. Attend up to three meetings and/or conference calls with SLAM and the design team to discuss the site layout.

2.2 Traffic Impact Study

Under this Task, a Traffic Impact Study will be prepared in support of the City and State approvals. Efforts will include a comprehensive traffic volume data collection program within

the study area to serve as the basis for the study to estimate potential operational impacts associated with the project on the adjacent roadway network. Based on the proposed scope and layout of adjacent roadways, the study area is expected to include the following intersections: of adjacent roadways, the study area is expected to include the following intersections:

- Roxbury Road at Westhill High School West Driveway
- Roxbury Road at Westhill High School Center Driveway
- Roxbury Road at Westhill High School East Driveway and West Hill Road
- Long Ridge Road (Route 104) at Roxbury Road, Stillwater Road, and Buckingham Drive

1. Conduct manual turning movement traffic counts (TMCs) to record all vehicular turning movements, vehicle types, and pedestrians at the study area intersections during the weekday morning school arrival and commuter (6:30am to 9:00am) and weekday afternoon school dismissal and commuter (1:00pm to 6:00pm) peak periods. Counts will occur on a typical weekday (Tuesday through Thursday) when school is in session following approval of the dates by Stamford Public Schools.

2. Conduct one (1) automatic traffic recorder (ATR) count for a 48-hour period (2 days) collecting directional traffic volume flows, travel speeds, and vehicle classification on Roxbury Road between the Westhill High School East and Center Driveways.

3. Obtain available traffic data from the City, CTDOT, and OSTA including the following data:
   - Historic traffic volume data for study area roadways
   - Traffic data and estimated site-generated traffic from recently approved/proposed developments
   - Traffic Signal Plans
   - Previous OSTA records for the site

4. Estimate Existing and Background Traffic Volumes for the weekday morning commuter and school arrival, weekday afternoon school dismissal, and weekday afternoon commuter peak periods for the study intersections based on the traffic volume data collected under the counting program and a general background traffic growth rate to be provided by CTDOT. Contact the City and OSTA to review any nearby recently approved or pending developments that could contribute traffic to the study area and include that site traffic in the Background Traffic Volumes. Prepare traffic volume figures illustrating the Existing and Background Traffic Volumes.

5. Estimate new trips to be generated by the proposed school reconstruction program and compare to Institute of Transportation Engineers (ITE) trip generation methodology. Redistribute background traffic volumes, including any new trips, to the proposed site driveways and adjacent roadway network based on the circulation recommendations, with the expectation that most of the traffic will follow existing travel patterns during the peak hours. Add the site-generated new trips to the redistributed Background Traffic Volumes to generate the Combined Traffic Volumes. Prepare traffic volume figures illustrating the new traffic generated by the project as well as the Combined Traffic Volumes.

6. Prepare capacity and queue analysis models utilizing Trafficware Synchro plus SimTraffic 11 for the Existing, Background, and Combined traffic conditions. Summarize the analysis results in tabular format.

7. Obtain traffic collision information from the Connecticut Crash Data Repository for the most recent five (5) years at the study area intersections and roadways and review that information to determine whether any patterns exist which could be impacted by the project.

8. Prepare a traffic impact study, detailing the results of the traffic analyses, to support the applications to the City and OSTA.

9. Submit a draft of the study to the design team and attend one meeting to review the results of the study and receive feedback. We will address one round of review comments from the design team and prepare the final study for submission.

2.3 OSTA Administrative Decision Submission

Westhill High School is currently certified by OSTA under Certificates 1498 (approved 9/18/2001) and 1498 A (approved 1/17/2006). Given that the site is already certified, a review by OSTA is required for this project as it will potentially expand building and/or parking space or substantially reconfigure site circulation. OSTA has two review procedures that may be followed: an abbreviated Administrative Decision (AD) approval for developments that do not involve improvements to state-owned facilities and Major Traffic Generator (MTG) certification for those developments that do require improvements to the state highway system. This proposal assumes that the AD process will be followed to obtain OSTA approval based on the scope of the school building reconstruction.

The following tasks will be provided to prepare the necessary documentation to request an Administration Decision approval:

1. Prepare the OSTA AD checklist for the project.

2. Prepare an OSTA Overall Site Plan to show the proposed development plan to OSTA standards. It is assumed that SLAM will provide a plan in CAD showing the layout of the proposed development for incorporation into this plan.

3. Prepare a site location plan to OSTA standards showing the site in relation to the surrounding roadway network.

4. Summarize the required traffic analysis information based on the results of the traffic impact study prepared under Task 2.2.

5. Prepare and submit the required AD Drainage information.

6. Provide a copy of the Planning and Zoning (P&Z) approval and Local Traffic Authority (LTA) concurrence to OSTA.

7. Prepare a transmittal letter to the OSTA documenting the required submission information based on the AD checklist.

Assumptions and Exclusions

In an effort to provide you with a reasonable budget for the desired services, we have prepared a detailed scope of services based on our understanding of the project needs. In

this same regard, the following list includes our assumptions in developing our Scope of Services and those services that are not included in the development of our budgetary estimate. If these services are required, we will modify our proposal accordingly to meet your needs.

1. Additional traffic counts or capacity analyses for additional intersections are excluded.

2. Parking supply and demand analyses for the site are excluded.

3. An anticipated future build year of 2028 is anticipated. Traffic forecasts will utilize 2028 as the background and combined conditions timeframe.

4. New trip traffic volume estimates will be determined through consultation with Stamford Public Schools and the design team based on the proposed school program. Industry-standard Institute of Transportation Engineers (ITE) trip generation methodology is not expected to provide an accurate representation of this site when compared to estimates developed as part of this project.

5. It is assumed that the internal driveway connection between Westhill High School and Brighton Gardens of Stamford is closed to vehicles and the Roxbury Road intersection with the Brighton Gardens of Stamford Driveway does not carry Westhill High School traffic and should not be included in this study. Additionally, it is assumed that the cul-de-sac on the east side of the site approaching Long Ridge Road (Route 104) north of Brighton Gardens of Stamford will remain in its current configuration and not be made into a driveway access point. If these locations do carry school-related traffic, currently or in the future as part of proposed improvements, then their inclusion in this study will be negotiated through an amendment.

6. New trip traffic volume estimates will be determined through consultation with Stamford Public Schools and the design team based on the proposed school program. It is assumed that the existing and future school populations and capacities will be provided to Tighe & Bond.

7. This proposal assumes that the OSTA AD process will be followed. If a comprehensive MTG certification is required, an amendment will be provided to cover the more intensive approval process.

8. It is assumed that obtaining LTA concurrence will not require meetings and/or responses to comments.

9. It is assumed that the OSTA AD approval will be filed on the Stamford land records by Stamford Public Schools with a scanned version of the filed copy provided to Tighe & Bond for forwarding to OSTA.

10. Development of conceptual or design drawings related to potential off-site improvements are excluded. If efforts for detailed roadway plans and/or traffic signal plans related to off-site improvements are required, we can provide a proposal for those services.

11. Responses to comments and/or attendance at meetings not specifically listed in this proposal are excluded.

12. Hourly services summarized in the Scope of Services are estimates based on our understanding of the regulatory process and assumptions related to potential level of

effort to support the process. We will advise you if our budget estimates are insufficient to cover the effort required during the regulatory process.

13. Any meetings/permits with the City, or State Agencies beyond what is included in this proposal.

14. Subsequent site/civil design phases, multiple phase design packages. We have assumed the project will be designed as a single package for bidding and permitting.

15. Services of soil scientist, environmental professional is excluded.

14. The project area is assumed to be greater than 5 acres; therefore, a CTDEEP "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities" will be required based on local approval of the project's soil erosion and sedimentation control plans. The General Permit requires inspection of the site on a weekly basis and after rainfall events exceeding 0.1 inches in depth. We have assumed that the required site inspections during construction is by others and is therefore excluded.

15. The landscape architect will provide site development work consisting of the overall site design including site layout, grading and surface drainage in collaboration with Civil consultant, on-site hardscape improvements (drives, walks, walls, fencing, decorative paving, curbs, etc.); softscape plantings, site lighting locations; and associated detailing.

16. The landscape architect will provide a base drawing for use by the civil engineering consultant.

17. The project MEP engineer will provide utility design of site mechanical systems, electrical service, site lighting wiring/circuitry, tel/comm site utility, and design criteria for fire water and sanitary systems as required. The site/civil engineer will coordinate all site utilities with the project MEP engineer for horizontal and vertical alignment. We have assumed the project MEP engineer will review all shop drawings related to their utility design including electrical service, site lighting wiring/circuitry, tel/comm, etc.

18. If exterior rainwater harvesting systems are pursued, we have assumed Tighe & Bond will show the location of the tank on-site and specify the tank material. The sizing of the tank will be by the project landscape architect and all electrical, tel-data, pumping, mechanical systems will be by the project MEP engineer.

19. The project structural engineer will be responsible for all engineering criteria for on-site retaining walls design by the landscape architect.

20. Drainage studies and improvements required by the City, OSTA, CTDOT beyond the project area are excluded. Off-site drainage studies are excluded.

21. Based on a review of the FEMA Flood Insurance Rate Map, the proposed project areas are located outside of any FEMA flood zones.

22. All environmental site assessments, cleanup, soil management, etc. is assumed to be by the project environmental engineer.

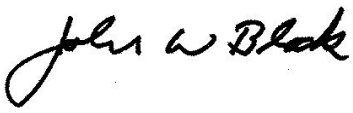
23. Video scoping and cleaning of existing drainage and sanitary sewer structures and piping are excluded.

24. All site storm and sanitary sewers are assumed to flow by gravity. Pump station analysis, design, evaluation, and renovations are excluded.

25. Services not explicitly described in the scope of work are excluded.

Very truly yours,

TIGHE & BOND, INC.



John W. Block, P.E., L.S.
Senior Vice President

Charles J. Croce, P.E.
Vice President

ACCEPTANCE:

On behalf of The SLAM Collaborative, the scope, fee, and terms of this proposal are hereby accepted.

_____ _____

Authorized Representative Date

Enclosure: "Terms and Conditions," "Hourly Rates"

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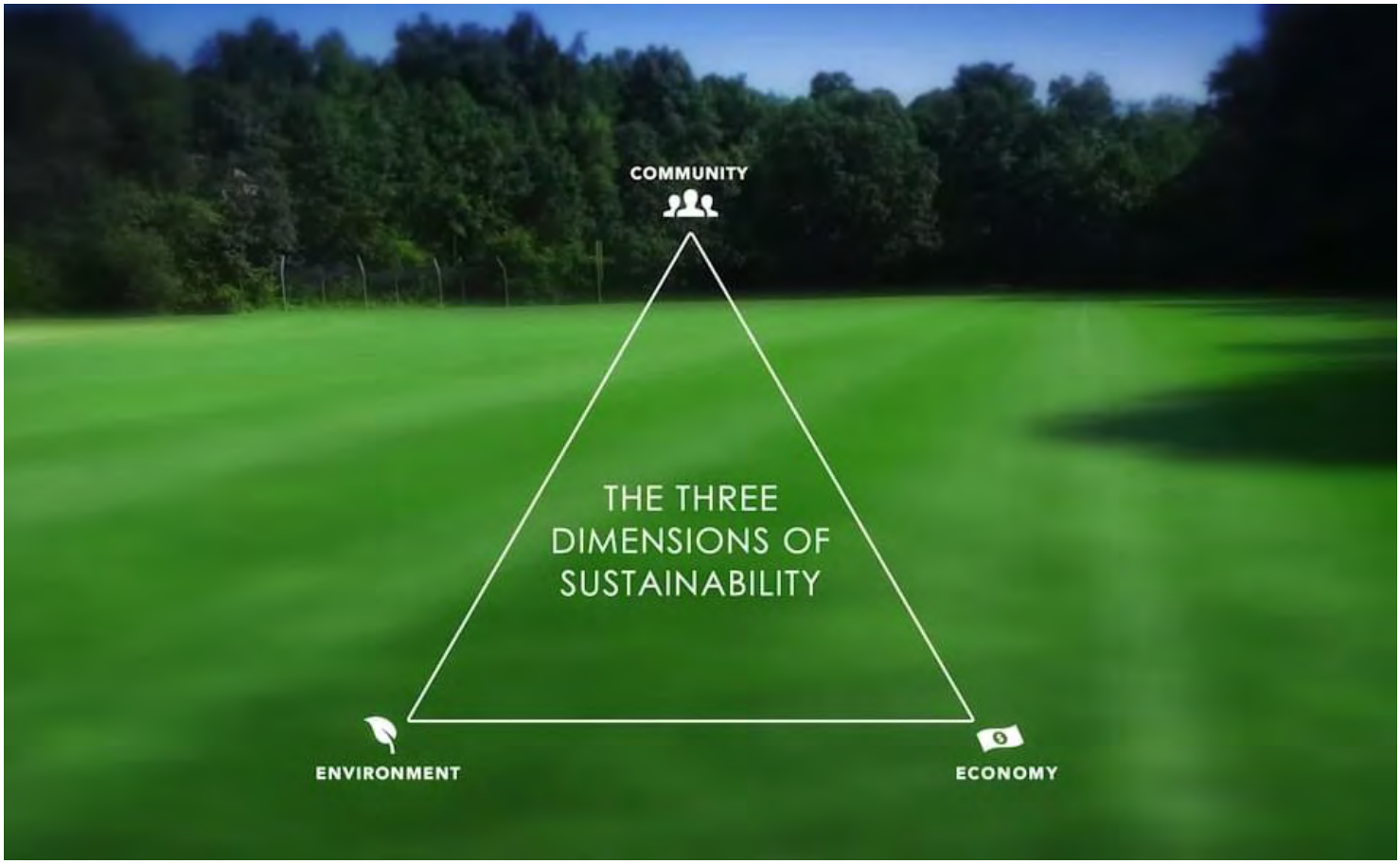
TOM IRWIN **ADVISORS**

The Slam Collaborative
80 Glastonbury Blvd, Glastonbury , CT
May 2023



ADVISOR RECOMMENDATIONS BRIEF

OVERVIEW

Your facility is essential to the health and well-being of your community. Tom Irwin Advisors can help improve and maintain your green spaces in an econo-mical and sustainable fashion.

Our team of expert advisors will work closely with your turf managers and groundskeepers to achieve your desired vision while remaining true to your values and your community's expectations.

Project Name	SLAM/Stamford - Westhill High School	**Date** 09/01/2023
Project Site	Westhill High School	
Project Code	SLAMWHHS-23	
Contact Name	Kemp Morhardt	

PROJECT ANALYSIS

This project involves the construction of a new High School building on the Baseball, Softball, and utility fields of the existing school. This construction will take place while the current school is occupied. Once the construction is complete and the old structure is demolished, the Baseball and Softball fields will be constructed on the site of the old school. This proposal is for the design services, specification creation, site evaluation studies, and project Advocacy/Construction observation for the construction of these two athletic fields. This proposal does not contemplate assistance with replacing either of the two synthetic turf fields or any structural/environmental soil borings or services.

CLIENT NEED ASSESSMENT

PHASE 1

Soil Investigation for Existing Baseball and Softball fields,

1 - Including test pits excavation,
2 - Complete soils analysis including (Physical and nutrition)

SOLUTIONS	SERVICES	
Design-Build-Manage	Soil Profile Test Pit(Soil Investigation)	Infiltration Rate (PQS)
	Complete Nutrition Tests (Soil Investigation)	Compaction 1" (PQS)
	Complete Physical Soil Tests (Soil Investigation)	POGO GPS Mapping
	Compile Soil Investigation Report	

PHASE 2

Usage Analysis - Baseball and Softball

Identifying the current use of the fields and calculating the potential use required for constructed fields.

SOLUTIONS	SERVICES	
Design-Build-Manage	Initial Interview (Vision and Values)	Maintenance Program(Usage Analysis)
	Correlate Interview Responses (Vision and Values)	Field Management Policies(Usage)
	Design Elements(Usage)	Design Capacity(Usage)
	Growing Conditions(Usage)	Current Capacity(Usage)
	Time and Intesity of Play(Usage)	

PHASE 3

Baseball and Softball Field Specification Review

Reviewing the specifications for the design and proposed construction of the fields.

SOLUTIONS	SERVICES	
Design-Build-Manage	Review specs for comprehensiveness(Spec Creation) Review specs for comprehensiveness (Spec Review) Review specs for clarity (Spec Review)	Harmonize with plans (Spec Review) Harmonize with project docs (Spec Review) Review QA Plan (Spec Review)

PHASE 4

Project Advocacy for both Softball Field and Baseball Field.

Provide regular observations of the field constructions through each critical step of the process.

SOLUTIONS	SERVICES	
Design-Build-Manage	On Site Project Observation (Project Advocacy)	Quality Assurance Plan Review (Project Advocacy)

OUR TEAM

Tom Irwin Advisors is a team of professionals with a broad range of expertise. We've consulted on sports fields globally for FIFA and other international governing bodies. We've lectured at universities and other academic settings. We've helped develop both industry standards and professional standards used around the world. We've renovated and constructed sports fields for every level of the game. And we've spent decades conscientiously managing turf because recreational green spaces are the lifeblood of our communities.

We would be honored to assist and guide you through your green space project. If you have questions or concerns about the recommendations in this brief, please contact us. We're eager to help you achieve your vision. Contact Ian Lacy at **781-999-4320** or **ianlacy@tomirwinadvisors.com**

Ian Lacy Lead Project Advisor

Ian possesses a wealth of experience that touches on nearly every facet of professional turf management. He has been a university lecturer. He was the head of professional services for the Institute of Groundsmanship, the largest non-profit organization seeking to improve standards and promote the work of grounds professionals. While there, he was instrumental in developing Performance Quality Standards. On behalf of FIFA, the International Football Association Board, he has consulted on field standards and conditions all over the world. **Read bio**

Kevin Dufour Sustainability Advisor

Kevin brings a multidisciplinary approach to sustainability initiatives, environmental management, and regulatory affairs. He has spent 31 years as an environmental scientist, 25 years as an attorney at law, and his consultancy advises clients on LEED, Green Globes, and Sustainable Sites certifications. He is a regular reviewer and commenter on new sustainability standards such as the International Green Construction Code and SITES. **Read bio**

Jack Schmidgall Design and Construction Advisor

Jack has more than 40 years of experience in the industry. He is a founding member of the New England Sports Turf Managers Association, and has won national awards including the Sports Turf Manager Association's Baseball Field of the Year (1992), Softball Field of the Year (1993), and National Groundskeeper of the Year. He has managed performance turf at every level from town fields, to professional stadiums, to Olympic-level facilities. **Read bio**

Scott Vose Technical Advisor

Scott has over 13 years of experience in the industry. Previously he worked as an assistant superintendent at Connecticut National Golf Club. He holds a bachelor's degree in Turfgrass and Soil science from the University of Connecticut. He understands the importance of collecting data and evaluating trends critical to sustained success. He spent over 7 years working with his former professors from UCONN at their Plant Science Research Farm. He worked closely with the faculty overseeing the maintenance of all their turfgrass research plots. "If you see something that works, you need to understand why." **Read bio**

SOIL INVESTIGATION

Why a Soil Investigation is important:

The foundation of a properly performing Athletic Field is the soil. Whether you are planning to build a field, renovate a playing surface, or investigate field quality issues, success starts with understanding your soil.

As the growing medium for your Athletic Field, the soil is critical for field safety, playability, and sustainability. A Soil Investigation will help you make informed decisions that positively impact your athletes, budgets, and maintenance practices for years to come.

How Tom Irwin Advisors will help:

Using scientific examination, specialized tools, and laboratory testing, our team of experts will investigate your soil's ability to meet industry standards and community expectations.

What we do for you during a Soil Investigation:

- **Site Evaluation** – A review of the general site conditions noting elevations, vegetation, and surface quality.
- **Soil Profile Test Pit** – A careful excavation to observe and photograph the soil layers from the thatch to the sub-base. The layers are tested for infiltration and compaction. Soil samples may be extracted at different depths for further laboratory analysis.
- **Complete Nutrition Tests** – Laboratory tests determining the nutrient content in the soil and the plant's ability to utilize it.
- **Complete Physical Soil Tests** – Laboratory tests determining the physical characteristics of the soil and how they affect its performance.
- **Undisturbed Core Analysis** – Multiple two-inch diameter core samples which simulate how your soil performs in its current location.
- **Amendment Evaluation** – Determination of the amendments needed to enhance your soil's physical and biological performance.
- **Blend Analysis** – If required, laboratory analysis is used to determine the type and quantity of soil components needed to produce your desired rootzone.

Once our investigation is complete, you will receive a personalized **Soil Investigation Report:**

This details our findings and test results, and provides the solutions necessary to enhance the performance of your soils.

TOM IRWIN ADVISORS Tom Irwin INC.

Understand the properties of your soil and how they can enhance your field's performance by contacting Ian Lacy at **781-999-4320** or ianlacy@tomirwinadvisors.com

ATHLETIC FIELD USAGE ANALYSIS

Why an Athletic Field Usage Analysis is important:

The very best athletic fields are achieved by properly managing the amount of play and the maintenance necessary to support it.

By performing an Athletic Field Usage Analysis, you will be able to accurately identify the amount of play your fields can support and the management practices needed to sustain them. This allows for more efficient scheduling, increased field availability, and better performing fields for your community.

How Tom Irwin Advisors will help:

Our team collaborates with you to understand how your field was constructed, how it is maintained, and the impact of usage upon it.

The data we collect is entered into our proprietary Usage Calculator, which then generates a Usage Value. After we have calculated your current Usage Value, our team can adjust certain criteria to pinpoint how specific factors are impacting your fields' usage capacity. We then help you identify the changes necessary to sustain your desired amount of play.

What we do for you during an Athletic Field Usage Analysis:

Our Athletic Field Usage Analysis measures more than just hours of play. We incorporate the following factors which are critical to maximizing your field's usage capacity:

- **Design Elements –** Field design including construction, field size, drainage, irrigation, grass types, and gradients.
- **Growing Conditions –** Elements such as temperature, solar radiation, moisture, water deficit, and soil types.
- **Time and Intensity of Play –** The duration of games and practices, number and age of athletes, and sport-specific impacts.
- **Maintenance Program –** The type and frequency of field maintenance including mowing, cultural practices, nutritional inputs, and control inputs.
- **Field Management Policies –** Field use policies, administrative policies, and scheduling of activities.

Once we have collected the information above, we determine your field's:

- **Design Capacity** – The Design Capacity value represents the potential usage capacity of your field.
- **Current Capacity –** The Current Capacity value quantifies how much play your field can sustain under current usage demands and management practices.

At the end of the process you will receive your **Athletic Field Usage Analysis Report:**

This presents our findings and provides recommendations that help you optimize your field management practices and support your community's recreational needs.

TOM IRWIN ADVISORS

Achieve the optimal balance of play and performance on your field by contacting Ian Lacy at **781-999-4320** or ianlacy@tomirwinadvisors.com

Specification Quality Review

Why a Specification Quality Review is Important.

Whether you are building a new facility or conducting a minor renovation having clear, concise, and, accurate specifications is critical to your projects ultimate success.

Specifications are the foundation of any project. They provide your bidders and contractors with the concise scope of work and the exact quality indicators and control that you demand. If your project lacks exacting specifications confusion and errors will be all but assured.

You must verify that the specifications fit your exact project conditions. Each set must be crafted to meet you exact situation. The sites, the soils, the limitations, the expected usage, the budget, the exposure, are all unique to your particular situation. You cannot rely upon cookie cutter cut and paste documents as are often provided by architects and contractors.

Having a third party review can prevent future problems.

It is imperative that this review be conducted as early in the process, preventing problems is always less trouble than correcting them.

Publishing poor quality specifications invites costly delay, expensive change orders, bid challenges, damaged relationships, and project disappointment.

What is a Specification Quality Review?

A Specification Quality Review is an independent, non-biased, third party review of the foundational documents necessary for your project. This can be as in-depth or as cursory as you desire. Tom Irwin Advisors has the capabilities to review specifications, scope of work, detail drawings, and plans.

We can suggest edits in a "red flag" type of review or we can provide suggested **edits.**

We can custom draft specifications that are specifically tailored to your situation if we are involved early enough.

Our precise specifications can ensure that your project bidders are all bidding on the same elements and that each proposal mirrors the specifications and each other. This allows for an "apples to apples" comparison which enables efficient and defensible decision making and prevents disputes.

How do we conduct a Specification Quality Review?

If we are creating custom specifications from scratch, we interview your team to determine your projects scope and your stakeholder's vision and desires. We then set out to draft specifications that bring those values to life.

If we are reviewing existing specifications we bring our team of experts to critically review the provided documents. We review the specifications for clarity and comprehensiveness

continued...

TOM IRWIN **ADVISORS**, INC.

Tom Irwin

We ensure that specifications, as written, will produce your desired results.

Often plans do not accurately reflect what is specified. We avoid this stumbling block by harmonizing the plans and details to the specifications.

We verify that the project documents comport with the standards set by the governing bodies of sport.

Since we often encounter outdated methodologies, we also verify that the documents accurately reflect current field building best practices.

We analyze the quality control proceduresand the quality assurance system presented to ensure that it is rigorous and that it demands accountability.

You have one chance to do things right. You will be left managing and maintaining this field for decades to come. You must demand uncompromising performance. A Specification Quality Review is the best and vital start to your project.

Estimated Cost:

PROJECT ADVOCACY

Why Project Advocacy is Important:

There is no greater sense of pride and accomplishment than seeing a long held dream become reality.

No matter your project, natural or synthetic, construction or renovation; it's reassuring to know that someone is looking out for your vision and your interests.

This level of personal oversight holds all parties involved accountable.

With Tom Irwin Advisors, you are not alone.

How Tom Irwin Advisors Can Help:

Our team of experts will act as your independent voice. When faced with challenging decisions, we focus on your priorities. As your Advocate we can help justify, or resolve, design elements, budgetary conflicts, or future maintenance concerns. We safeguard your vision in every facet of our work throughout a project using our highly experienced team of professionals.

What We Do As Your Project Advocate:

- **Vision Advocation-** To safeguard and promote your vision with with architects and engineers and the public.
- **Project Design and Specifications Creation** - Offer options that are customized to fit the needs of the client and the project.
- **Project Bid Review** - To determine and recommend the most suitable bids received for the project.
- **Contractor Selection** - To identify and recommend the most suitable contractor for the project.
- **Project Plan Creation** - Assist with designing and building a robust plan and approach to the project.
- **Project Team Coordination** - To determine the most efficient way to work with all members of the team including the contractor and sub-contractors.
- **Quality Assurance Plan Review** - To measure all crucial operations are accounted for and included, from project start to finish.
- **Performance Quality Standards Assessment** -Test and benchmark the completed surface for compliance with the design and specifications.
- **Testing and Analysis** - to Determine that materials required for the project are fit for purpose and sufficient.
- **Benchmarking** - Assist in setting and establishing suitable standards for future performance.
- **Value Engineering** - Consult on decisions. Review requested material or method substitutions.
- **Sustainability Evaluation** - To determine where appropriate to keep the principles of sustainability at the forefront.
- **Maintenance Plan Creation** - To identify, and prioritize future requirements.
- **Training and Education** - Provide staff training as required based on the needs of the project.

At the conclusion of this process you will receive:

- A Project Observation Report which documents our work for you from start to finish, providing a record of decisions made, observations conducted, test results, quality control checks implemented, complications solved, and the project delivered.

TOM IRWIN ADVISORS

To have someone help you get things done right the first time, contact Ian Lacy at **781-999-4320** *or visit* **tomirwinadvisors.com**

Thornton Tomasetti

Kemp A. Morhardt, AIA
SLAM Collaborative
80 Glastonbury Blvd
Glastonbury, CT 06033

RE: STAMFORD WESTHILL HIGH SCHOOL - SUSTAINABILITY CONSULTING SERVICES

Dear Kemp,

Based on your request, Thornton Tomasetti, Inc. (TT) is pleased to submit this Proposal to provide design assistance energy modeling through Construction Documents for the new Stamford Westhill High School.

A. PROJECT DESCRIPTION

The project is a new construction located in Stamford, CT to replace the old Westhill high school. The Project consists of the design and construction of an approximately 459,893 sf high school building. The project is targeting high performance goals and must comply with Connecticut High Performance Building Standards and LEED Silver Certified per City Sustainability Ordinance #107.

B. PROJECT SCHEDULE

- TBD
- Occupancy: Fall 2028

C. SCOPE OF SERVICES

Our scope of services is summarized in Exhibit A.

D. FEES

a. Basic Fee

We propose to perform the scope of work described in EXHIBIT A including expenses as per the fee schedule below. Please note that our fees are bundled together as a package to maximize efficiencies. If one or more of the services are not included, we reserve the right to adjust other service areas accordingly.

TT invoices for the Basic Fee will be invoiced proportional to completion of TT's Scope of Work.

b. Payment

TT will invoice the Client on a monthly cycle for fees and expenses. Payments will be due from the Client to TT within 30 days of the invoice date.

c. Optional Services

d. The following services are not part of the base scope. If the client chooses to pursue these analyses, TT has expertise and can provide a proposal if requested.

1. Life Cycle Cost Analysis (LCCA)
2. Eversource Incentive Technical Assistance
3. Passive House Design Phase Consulting
4. Air Tightness Detail Review
5. Healthy Materials Consulting
6. Daylight/ Glare Analysis
7. Hygrothermal WUFI Analysis
8. LCA Design Assistance
9. WELL/ Fitwel/ LBC/ SITES Feasibility Assessment
10. Resiliency Feasibility Assessment
11. Biophilic Design Assistance
12. Measurement and Verification
13. Education and Signage
14. Building Enclosure Cx
15. School as a Teaching Tool

E. EXPENSES

The following expenses are included in the Basic Fee for the Base Scope:

1. Travel, out-of-town living and related expenses, printing, courier service, and express mail.
2. Deliverables and reviewed submittals will be transferred via electronic means whenever possible. Plotting and reproductions requests by Client or Owner will be electronically forwarded to an outside reproduction facility, and the cost will be charged to the Client.

The following expenses are not included in the Basic Fee:

1. LEED registration & certification fee.
2. LEED related expenses.

F. CLIENT RESPONSIBILITY

To facilitate the smooth progression of the project, TTs proposal is based on the assumption that the Client will provide the following information:

1. Provide all applicable drawings, specifications and other data, including design drawings of other disciplines.

2. Provide copies of all pertinent letters and memoranda pertaining to design of the various disciplines and Owner's requirements on timely manner.

3. It is understood that TT has the right to rely upon the accuracy and completeness of all data furnished to it.

G. ASSUMPTIONS AND LIMITATIONS

1. Due to circumstances that are beyond the control and scope of TT, we cannot guarantee achieving a targeted building energy performance.

2. There are several unknown factors in the design phases that vary under real operating conditions. Due to this reason, the results of analysis should be considered in the context of relative performance only and not for comparison with actual data.

3. Energy model inputs must not be used as inputs for purposes other than the scope listed here. The design team is responsible to follow the drawings and specifications.

4. This proposal assumes the use of the LEED v4 rating system.

5. Design team must meet the mandatory provisions of the energy code. TT services include evaluating only prescriptive sections of the energy code.

6. Due to circumstances that are beyond the control and scope of TT, we cannot guarantee LEED Certification or any specific level of LEED Certification. Similarly, we cannot guarantee achieving any LEED credit or anticipated thresholds.

7. TT shall coordinate and review team member responses to LEED review comments provided by the GBCI. However, if there is inadequate or untimely response, TT shall request additional services.

8. TT's work is limited to that outlined above. Additional meetings, reviews, or scope will be additional services.

9. TT will make recommendations for compliance with Optimize Energy Performance credit. However, it is the responsibility of the design team to ensure our recommendations made within this scope of work are carried through the design and construction. Any design/ construction changes that affect the energy performance and compliance must be notified to TT immediately to assess the conditions.

10. Right to Stop Work: If payment is not received by TT after client receives payment from owner, and if such default continues for 20 days, TT may elect to stop work until all amounts owed are received.

11. This proposal assumes that the construction related LEED documentation shall be submitted to GBCI within 6 months after substantial completion. TT shall request additional services if this timeframe is not met.

H. TERMS AND CONDITIONS

Thornton Tomasetti, Inc. Standard Conditions for Investigation and/or Design Services are attached hereto and made a part of this Proposal.

Upon authorization to proceed, unless notified otherwise in writing, we will provide our services under the terms of this Proposal.

TT reserves the right to revise the terms of this Proposal if a notice to proceed has not been received within three months of the date of this Proposal.

We look forward to your favorable response and an opportunity to provide our services. Please call if you have any questions. If the above meets with your agreement, kindly sign and return one copy of this letter agreement, keeping the second copy for your records.

Very truly yours,

THORNTON TOMASETTI, INC.

Vamshi Gooje, CEM, BEMP, LEED AP BD+C
Associate Principal

Xiaoshu Du, LEED AP BD+C, WELL AP
Senior Project Director

ACCEPTED BY:

SLAM COLLABORATIVE

BY: _____

DATE: _____

EXHIBIT A

BASE SCOPE OF SERVICES

I. ENERGY ANALYSIS

Provide energy analysis to assist the design team and the owners in selecting optimum design solutions for improving energy performance and reducing carbon footprint of the development. Provide analysis to assess building's Net Zero potential, LEED points, and compliance with CT High Performance Building Standard (CTHPBS).

A. Programming And Schematic Design

i. Design Assistance Energy Analysis:

1. Facilitate an energy performance workshop with the project team to establish clear project goals and requirements. Identify potential strategies for achieving energy and other project sustainability goals.
2. Provide climate analysis and review of precedent studies to assist in establishing project goals and develop initial energy design EUI targets.
3. Establish optimum energy benchmarks for façade performance and whole building energy performance.
4. IDP is a requirement of CTHPBS and LEED. As part of the mandatory requirement for IDP, TT will produce at least two concept design alternatives using energy simulations, cost benefit analysis and then selecting the most promising for further development.
5. Identify alternative/renewable energy opportunities. Perform analysis to estimated required Photovoltaic (PV) system to be Net Zero Energy Ready. Collaborate with the design team to identify potential areas for Photovoltaic (PV) system on site (roof and non-roof areas). Perform analysis to estimate PV size and on-site energy production from the system.

ii. Compliance Energy Analysis:

1. Review 50% SD documents for the preferred massing and develop a whole building energy model, with schematic-level assumptions.
2. Create a LEED v4 energy baseline (ASHRAE 90.1-2010) and quantify possible energy points.
3. Create a CTHPS baseline (base on the 2021 International Green Construction Code)

iii. Deliverables:

1. Findings in presentation format.
2. SD energy report summarizing the scope above.

iv. **Meetings:** Attend up to three (3) energy specific sessions via conference calls.

B. **Design Development**

i. Design Assistance Energy Analysis:

1. Identify Energy Conservation Measures (ECMs) to further reduce building's energy use. for envelope, review with design team and assess their applicability for an improved energy performance (ECMs limited to 10). Examples of ECMs could include insulation optimization, shading optimization studies, heating/cooling peak load analysis, thermal comfort analysis, etc.

ii. Compliance Energy Analysis:

1. Update the whole building energy model based on mid-DD and 100%DD drawing sets.
2. Update LEED v4 energy baseline model and quantify possible energy points.
3. Update CTHPS baseline model.

iii. **Deliverables:**

1. Findings in presentation format.
2. DD energy report summarizing the scope above.

iv. **Meetings:** Attend up to eight (8) energy specific sessions via conference calls.

C. **Construction Documents**

1. **Compliance Energy Analysis:**

1. Update the whole building energy model based on mid-CD and 100%CD drawing sets.
2. Finalize documentation for LEED v4 Minimum Energy Performance, Optimized Energy Performance, and Renewable Energy credits.
3. Finalize documentation for CTHPBS.
4. Address review comments from the reviewing authority including necessary documentation.

v. **Deliverables:**

1. LEED documentation
2. CTHPBS compliance report.

vi. **Meetings:** Attend up to three (3) energy specific sessions via conference calls.

APPENDIX 1
LEED CREDIT RESPONSIBILITY MATRIX

Credit Name	Issued in Standard Drawings/ Documents	Additional Tracking/ Calculation	Responsible Trade(s)
Integrative Process	N	Y	Architect, Owner, MEP, Operator, Energy modeler, TT
LEED for Neighborhood Development Location	N	Y	Owner, ND Consultant
Sensitive Land Protection	Y	N	Civil/ Owner
High Priority Site	N	Y	Civil/ Owner
Surrounding Density and Diverse Uses	N	Y	TT Sustainability
Access to Quality Transit	N	Y	TT Sustainability
Bicycle Facilities	Y	N	Architect/ TT Sustainability
Reduced Parking Footprint	Y	Y	Architect/ TT Sustainability
Green Vehicles	Y	N	Electrical
Construction Activity Pollution Prevention	N	Y	Civil/ General Contractor
Site Assessment	N	Y	Civil/ Owner/ General Contractor
Site Development- Protect or Restore Habitat	Y	N	Landscape
Open Space	Y	N	Landscape
Rainwater Management	N	Y	Civil/ Plumbing/ Landscape
Heat Island Reduction	N	Y	Landscape/ Architect
Light Pollution Reduction	N	Y	Lighting Designer
Outdoor Water Use Reduction	N	Y	Landscape
Indoor Water Use Reduction	Y	Y	Architect/ Plumbing/ TT Sustainability
Building-Level Water Metering	Y	N	Plumbing
Cooling Tower Water use	Y	N	Plumbing
Water Metering	Y	N	Plumbing
Fundamental Commissioning and Verification	Y	N	General Contractor/ Cx Agent
Minimum Energy Performance	N	Y	Architect, Lighting, Mechanical, Owner, Energy Modeler

Building-Level Energy Metering			
Fundamental Refrigerant Management	Y	Y	Mechanical
Enhanced Commissioning	N	Y	General Contractor/ Cx Agent
Optimize Energy Performance	N	Y	Architect, Lighting, Mechanical, Owner, Energy Modeler
Advanced Energy Metering	Y	Y	Electrical, Mechanical
Demand Response	N	Y	Owner/ Mechanical
Renewable Energy Production	N	Y	Solar Consultant
Enhanced Refrigerant Management	N	Y	Mechanical
Green Power and Carbon Offsets	N	Y	Owner
Storage + Collection of Recyclables	Y	N	Architect
Construction + Demo Waste Planning	Y	N	General Contractor
PBT Source Reduction- Mercury	N	Y	Owner/ Architect/ Lighting
Building Life Cycle Impact Reduction	N	Y	Architect/ General Contractor/ TT (add service)
BPDO- Environmental Product Declarations	N	Y	Architect/ General Contractor
BPDO- Souring of Raw Materials	N	Y	Architect/ General Contractor
BPDO- Material Ingredients	N	Y	Architect/ General Contractor
Construction and Demolition Waste Management	N	Y	General Contractor
Minimum IAQ Performance	N	Y	Mechanical
Environmental Tobacco Smoke Control	N	Y	Owner/ Architect
Enhanced IAQ Strategies	Y	N	Architect/ Mechanical
Low Emitting Materials	N	Y	General Contractor
Construction IAQ Mgmt Plan	Y	Y	General Contractor
Indoor Air Quality Assessment	N	Y	General Contractor/ Owner
Thermal Comfort	Y	N	Mechanical
Interior Lighting	Y	Y	Lighting/ Electrical
Daylight	N	Y	Architect/ TT Sustainability (add service)
Quality Views	N	Y	Architect
Acoustic Performance	N	Y	Architect/ Acoustician